

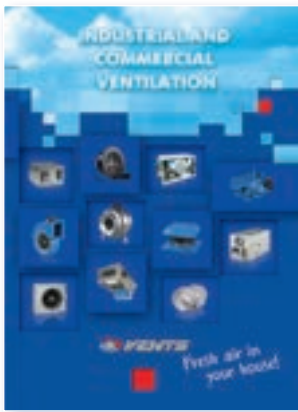
# DOMESTIC VENTILATION



 **VENTS**

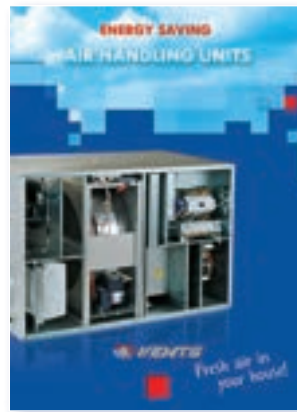
2022

*Fresh air in  
your house!*



**Industrial and commercial ventilation  
(Catalogue no. 1)**

Industrial and commercial ventilation components - fans for round and rectangular ducts, sound-insulated, axial and roof fans, air handling units with heat recovery, air heating units, accessories.



**Energy saving ventilation  
Air handling units  
(Catalogue no. 2)**

Energy saving supply and exhaust units and air handling units with heat recovery with air capacity up to 6500 m<sup>3</sup>/h.



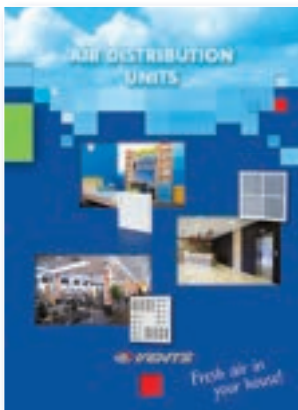
**Smoke extraction and ventilation  
(Catalogue no. 5)**

Smoke protection systems of buildings and premises.



**Domestic ventilation  
(Catalogue no. 6)**

Domestic ventilation: fans, mono-pipe exhaust kitchen and bathroom fans, air distribution units, air ducts and fittings, access doors, ventilation kits.



**Air distribution units  
(Catalogue no. 9)**

Plastic and metal air distribution products (grilles, disk valves, diffusers, etc.) for ventilation, air conditioning and heating.



**Access doors  
(Catalogue no. 10)**

Plastic and metal access doors for accessing concealed equipment and utility lines. Special offers for ceramic tiles.



**Spirally wound ducts  
(Catalogue no. 13)**

SPIROVENT spiral seam vent ducts and fittings of 100 to 1600 mm diameter.



**Flexible ducts and fittings for ventilation, air conditioning and heating  
(Catalogue no. 14)**

Flexible and semi-flexible air ducts made of polymeric materials, aluminium, galvanized or stainless steel, metal fittings for ventilation, air conditioning, heating, gas handling and abrasive particles aspiration.





### Air handling units AirVENTS (Catalogue no. 3)

Energy saving air handling units with air flow up to 40 000 m<sup>3</sup>/h, for use in large residential, industrial and commercial objects.



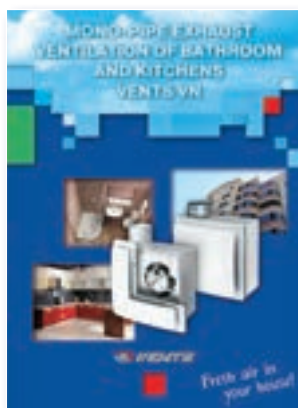
### Energy saving ventilation Geothermal systems GEOVENTS (Catalogue no. 4)

Energy saving system GEOVENTS with use of the earth's surface layers heat. High ventilation system energy efficiency and low operating costs.



### Domestic fans (Catalogue no. 7)

Domestic fans with air flow up to 365 m<sup>3</sup>/h with extra functions: timer, humidity sensor, motion sensor, etc. Applied for premises up to 30 m<sup>2</sup>.



### VENTS VN Mono-pipe exhaust ventilation (Catalogue no. 8)

Exhaust ventilation in houses with mono-pipe ventilation system based on VENTS VN fans.



### Energy saving ventilation. Single room energy recovery ventilators MICRA. (Catalogue no.11)

MICRA single room ventilators with energy regeneration for efficient ventilation and lowest investments in ready-built and brand new premises.



### VENTS presentation catalogue (Catalogue no.12)

VENTS mission is to bring fresh air to your house and surround you with the world of comfortable microclimate.



### Round and flat PVC ducting (Catalogue no. 15)

Flat and round PVC ducts PLASTIVENT for ventilation of residential, office and commercial premises and connection of exhaust ventilation equipment (kitchen extractors, hoods, exhaust boxes, etc). Wide product range of fittings.



### Energy saving ventilation. Single room energy recovery ventilators TwinFresh. (Catalogue no.16)

Single room reverse ventilators with energy regeneration TwinFresh for efficient ventilation and lowest investments in ready-built and brand new premises.



CATALOGUES







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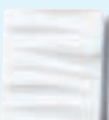
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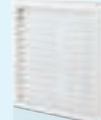
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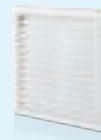
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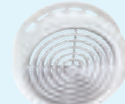
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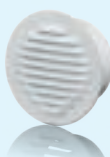
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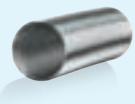
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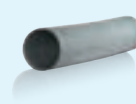
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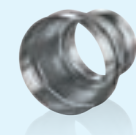
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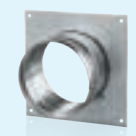
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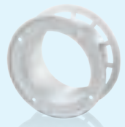
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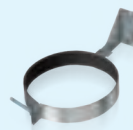
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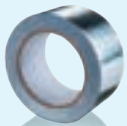
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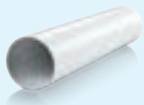
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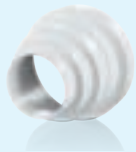
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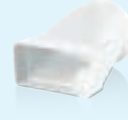
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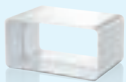
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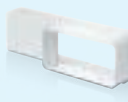
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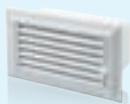
Wall plate for flat ducts

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End grille

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End grille with air pass regulation

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Reducer for flat and round ducts

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Wall plate with flange

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Round to flat connector (symmetric)

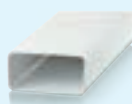
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### ROUND AND FLAT FOLDING PVC DUCT SYSTEM



Round duct

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Flat duct

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### ACCESS DOORS FOR ACCESSING CONCEALED EQUIPMENT AND UTILITY LINES



Plastic access doors  
**D (D2) series**

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Plastic access doors  
**DPV series**

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Plastic (with lock) access doors  
**DZ series**

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Plastic (double sided hinges) access doors  
**DD series**

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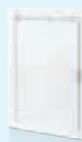
Metal access doors  
**DM series**

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Metal (with lock) access doors  
**DMZ series**

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Metal access doors  
**DMR series**

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Metal access doors  
**DMV series**

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Recessed for ceramic tiles access doors  
**DKP series**

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Recessed for ceramic tiles access doors  
**DKM series**

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Designed for plasterboard wall or ceiling application access doors  
**DG series**

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Access metal doors for ceiling mounting  
**DPM series**

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## PLASTIC HVAC GRILLES



Supply and exhaust grilles  
**NHN (NUN) series**

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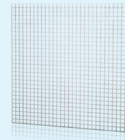
Supply and exhaust grilles  
**NVN (NUN) series**

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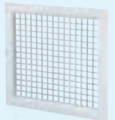
Supply and exhaust grilles  
**GR series**

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Supply and exhaust grilles  
**RD series**

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Supply and exhaust grilles  
**ND series**

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Supply and exhaust grilles  
**NK-3 series**

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Supply and exhaust grilles  
**NK-4 series**

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## METAL GRILLES FOR HVAC



Single-row unregulated grilles  
**ONG, ONV**

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Single-row unregulated  
linear grilles  
**ONL**

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Single-row unregulated grilles  
**ONF, ONFS**

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Single-row unregulated  
sectional grilles  
**ONK**

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Single-row regulated grilles  
**ORG, ORV**

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Single-row regulated  
sectional grilles  
**ORG R1/ORV R1**

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Single-row regulated  
sectional grilles  
**ORK**

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Double-row regulated grilles  
**DR**

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Ceiling diffusers  
**DP**

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Ceiling diffusers  
**DPP**

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Slit diffusers  
**DS**

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Perforated grilles  
**RP**

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Supply and exhaust  
ventilation grille  
**RN**

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Fravity grilles  
**RG**

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Gravity grilles  
**RGS**

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Gravity grilles  
**GRM**

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Swirl diffusers  
**DVK**

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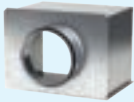
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Swirl diffusers  
**DVP**

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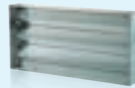
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Adapters

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Air flow regulator

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# WELCOME TO THE WORLD OF VENTS!



- The company's product range includes over 50.000 items
- Over the years the company has produced 100 million fans
- The production facilities spread across 90.000 square meters of territory
- The company employs more than 3.500 professionals involved in the entire life cycle of creating ventilation equipment – from concept to high-tech product
- Among other assets the facilities include the climatic equipment research and development centre and a suite of state-of-the-art laboratories manned by 200 engineers
- The company utilises the latest metal and polymer processing technology
- 99 % of our products are made in-house
- We are the only company in the industry which develops and builds 85 % of its ventilation equipment components.

Being the world's ventilation leader VENTS offers a wide range of cutting-edge ventilation equipment to satisfy most demanding customers. Since the inception, the company's products have become popular in more than 100 countries worldwide while the VENTS brand has earned a solid reputation for quality, reliability and innovation. Every tenth domestic fan in the world rolled off the assembly line of the VENTS factory. Every time you buy a product carrying the VENTS

brand you can be confident that you have made the right choice. Thanks to a comprehensive range of ventilation equipment for home, commercial and industrial application you can always find the necessary equipment and components to suit your needs. The climatic engineering and design solutions department is tasked with developing bespoke ventilation and air conditioning systems for even the most challenging projects.

## Technology of the future

The VENTS factory is not just about state-of-the-art production lines equipped with processing machines from the leading global suppliers. Today this is a full-on research and development facility spreading across 150.000 square metres of territory which includes a climatic equipment research and development centre and a comprehensive suite of state-of-the-art laboratories.

The full-time staff of more than 200 engineers are continuously seeking to improve the VENTS products. The company utilises cutting-edge metal and polymer processing technology manufacturing 99 % of its products in-house.

We are the only company in the industry which develops and builds 85 % of its ventilation equipment components including electric motors, heat exchangers as well as control and automation equipment.



## Getting better every day

The world of today is nothing but stable or permanent. Each day the market comes up with new expectations with regards to ventilation equipment quality and performance. Therefore, VENTS places a strong emphasis on constant development and improvement.

To this end the company has adopted a policy which includes continuous upgrades to its process equipment fleet, implementing the latest in manufacturing technology, and holding regular training workshops for its staff. Not only does this help us keep abreast with the times – these efforts help us to exceed our customers' expectations.



## Uncompromising quality

VENTS maintains a stringent quality control system to make sure that its products always meet most demanding international standards as confirmed by numerous certificates issued by the world's largest and most reputable organisations for quality control. The VENTS production process is certified according to ISO 9001:2015 international

standard for quality management systems of organizations and enterprises. The company operates in accordance with all the applicable environmental standards and continuously implements new technology in order to ensure compliance with the latest environmental regulations.

## Energy efficiency and energy saving

Energy resources are finite and costly. This is why energy-saving is among the company's top priorities. We pay a special attention to using heat and electricity in the most efficient manner which helps us reduce the environmental footprint of the manufacturing process and develop

more competitive products. The outstanding energy efficiency and low power consumption of our ventilation equipment are achieved by using high-performance EC motors and heat exchangers.

## Human resources: a valuable asset



Besides maintaining technical leadership and developing new technology the company also values the people that it owes its success to.

Today VENTS employs more than 3.500 professionals involved in the entire life cycle of ventilation equipment creation – from concept to high-tech product. The company strives to create a comfortable working environment for its employees to maximise their performance and encourage their professional and personal development.

## Responsible corporate citizen



Being a responsible corporate citizen VENTS takes an active part in various academic and charity initiatives. The company has a long history of cooperation with a number of educational establishments extending its support to talented youth.

The company takes an active part in student competitions and workshops sharing its wealth of practical knowledge and providing access to state-of-the-art ventilation equipment. The company employees participate in a range of charitable events and sporting competitions on a regular basis.

## Following the customer's lead

*VENTS uses its extensive research and technical capabilities to develop bespoke ventilation products and solutions for its customers from around the world.*

*Our products have earned a reputation for reliability being used in polar regions and in the Sahara desert, in the jungle of South-Eastern Asia and in the Pamir mountains.*

*Wherever our customers are they can always depend on prompt delivery thanks to our worldwide network of strategically located logistics centres.*

*The company's newest arrivals are presented by its engineers at numerous international exhibitions every year.*



**Welcome to the world of modern ventilation by VENTS!**

# VENTILATION IN OUR LIFE



## ▶ What is ventilation?

Ventilation is a complex of actions and facilities used for air exchange arrangement to provide the specified air condition in the premises and in working places.

Ventilation systems maintain admissible meteorological parameters in various premises. Ventilation system should create the internal atmosphere that meets the specified hygienic standards and technological requirements.

## ▶ What is ventilation required for?

We are surrounded with air and breathe in and out 20 000 litres of air every day. How much healthy is the air we breath in?

There is a range of aspects to determine air quality.

▶ **Oxygen and Carbon Dioxide Concentration in the Air.** Oxygen decrease and carbon dioxide cause stuffiness in the premises.

▶ **Harmful Substances and Dust in the Air.** High content of dust, tobacco smoke and other substances in the air are harmful for the human organism and can cause various lung and skin diseases.

▶ **Odours.** Bad smell causes discomfort or irritates nervous system.

▶ **Air Humidity.** High or low humidity causes discomfort and even may result in acute disease attacks. Air humidity is important also for the internal atmosphere. So, decreased humidity in winter can cause shrinkage and cracks of wooden doors, window frames, furniture and high humidity in swimming pools and bathrooms and other humid premises can cause excessive humidity absorption and swelling.

▶ **Air temperature.** A person feels comfortable in a premise with the temperature 21-23°C. Temperature variation causes the change of «comfort» well-being more or less that influences a person's physical and mental activity.

▶ **Air Motion.** Increased air speed in the premises causes the feeling of draft, and decreased speed causes air blanketing. Being inside we feel the impact of any of these factors.

## ▶ Ventilation system arrangement

Properly arranged ventilation system is the only solution in this situation. It provides filtered air supply in summer and filtered and warmed supply air in winter as well as extract stale air removal from the premises.

Any ventilation system must include synchronous fresh air supply and extract air exhaust thus ensuring the ideal air balance in the room. In case of poor or insufficient air intake

from outside the oxygen content decreases, humidity and dustiness level increase. If exhaust ventilation is not provided or it is not effective, polluted air, smells, humidity and harmful substances are not removed.

Well coordinated operation of supply and exhaust air vents is one more important factor for properly arrangement of ventilation system. In case of exhaust ventilation only (i.e. exhaust ventilation in the bathroom) air from outside flows through all possible gaps in windows, doors and walling. Such non-arranged air supply brings dust ingress, smells and drafts.

The door grilles installed in the bathrooms, wall or window vents, open windows or window leaves serve as natural sources of supply ventilation and are used to compensate air removal. However, forced mechanical ventilation with centralized air supply and distribution is a much better solution.

## ▶ Calculation of the required air exchange

### Engineering recommendations

Effective ventilation depends on fan or ventilation system selection with suitable air flow that meets your requirements.

Some factors to be considered:

– Ventilated area volume

– Air exchange by the hour

Multiple the ventilated premise volume by air exchange per hour and get the required fan capacity.

### Air exchange calculation according to the ventilation rate in the room.

Ventilated air amount is calculated on an individual basis for each premise with respect to harmful substances content or is determined by test results. If the nature and number of harmful impurities (substances) cannot be identified or measured air exchange is calculated with the formula:

$$L = V_{\text{area}} * K_p \text{ (m}^3/\text{h)},$$

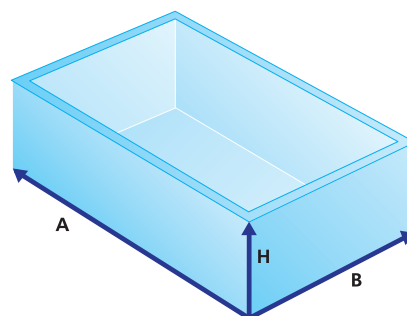
where:  $V_{\text{area}}$  – ventilated area volume [m<sup>3</sup>/h].  $K_p$  – minimum air exchange per hour, see air exchange table.

### How to calculate ventilated area volume?

Calculate the total volume of the premise in m<sup>3</sup>. Use a simple formula:

$$\text{Length} \times \text{Width} \times \text{Height} = \text{Volume of the premises m}^3$$

$$A \times B \times H = V \text{ (m}^3\text{)}$$



Example: premise with 5 m length, 3 m width and 2.8 m height. To determine the air volume required for ventilation of this premises, calculate the volume of the room:  $5 \times 3 \times 2.8 = 42 \text{ m}^3$ . After that determine the required fan capacity using the following tables of recommended ventilation rate.



► **Natural and mechanical ventilation**

Natural ventilation requires no electric equipment such as fans or motors and is originated by natural seasonal factors as external and internal air temperature drop, pressure level as a function of height, wind loading. But no matter of the season or weather natural ventilation cannot provide full-featured air exchange. Natural ventilation is enough to provide minimum air exchange for passive ventilation of periodically occupied premises but its capacity is not enough for well balanced air exchange.

Mechanical ventilation devices ensure active air exchange and can operate continuously or periodically depending on the ventilation need. Unlike natural ventilation, mechanical ventilation operates regardless of natural conditions and indoor and outdoor temperature difference. Fan and electric motors are the basic mechanical ventilation components that provide controllable air exchange. So mechanical ventilation is the best solution.

| Natural ventilation  | Mechanical ventilation  |
|--|---|
| easy and value-priced, provided during construction stage                      | easy assembling and layout in case of correct equipment and materials selection and installation during construction or finishing works. In some cases installation after finishing works is possible |
| no electric mechanisms and no power supply connection                          | requires connection to power mains and consumes electric energy   |
| no failure possibility   | the modern fans reliability is quite high, however as all mechanical devices they can break down  |
| weather-dependent efficiency: very low in summer                               | provide required ventilation no matter of season and weather conditions   |
| limited ventilation rate regulation  | higher air exchange rate is effected by switching the fan to higher speed   |
| significant thermal losses in winter<br>open windows for ventilation in summer | reducing heating costs in case of use of heat recovery technology   |
| excessive air flow or backdraft in case of strong wind pressure                | fans provide required air flow and backdraft dampers provide required air distribution  |
| no air filtration, heating or cooling  | filtration, heating or cooling intake air from outside before supplying it to the premise   |
| drafts make feel uncomfortable   | no draughts as ventilation does not require open windows  |

**Air exchange rate:**

| Premise type         |                  | Air exchange rate  |
|----------------------|------------------|--|
| Residential premises | Living room      | 3 m <sup>3</sup> /h per 1m <sup>2</sup> for residential premises |
|                      | Kitchen          | 6-8  |
|                      | Bathroom         | 7-9  |
|                      | Shower room      | 7-9  |
|                      | WC               | 8-10   |
|                      | Domestic laundry | 7  |
|                      | Dressing room    | 1.5  |
|                      | Store room       | 1  |
|                      | Garage           | 4-8  |
|                      | Cellar           | 4-6  |

► **Ventilation shaft functionality check**

Make sure of available ventilation pressure in the shaft before mounting a fan inside. Ventilation shafts may be clogged by construction waste or closed because of incorrect construction alteration of flat(s) above. To check the ventilation pressure in the shaft cover it with a paper sheet. If the ventilation pressure is enough the paper sheet sticks to the shaft surface. Otherwise you have to contact your house manager to get the ventilation shaft duly operable.

► **Provide even ventilation for all the premise**

Air motion in the room depends not only of supply and exhaust ventilation accessories but on their location.

Fan operation generates low pressure area that attracts fresh air supply through any openings and slots. That is why location of supply and exhaust ventilation accessories is of great importance for ventilation system efficiency. In other words, air supply and air exhaust vents should be located in such a way as to ensure fresh air motion throughout all the room space. For large premises it is recommended to install several fans with low or medium capacity instead of one high-powered fan to observe the total air flow.



## ▶ Fan types:

Fans are the mechanical devices that provide air motion along air ducts, direct air supply or air exhaust from the premise. Air motion is effected due to pressure drop between the fan intake and exhaust.

## ▶ High efficiency at low air resistance

**Axial fans** are the wheels with blades (so called impeller) enclosed in cylindrical casings and attached to the hub at required angle to plane of rotation. As impeller blades rotate air is trapped between the blades and moved further axially. Air is hardly moved in radial plane of rotation. Normally the axial fan blades are fixed directly to the motor shaft.



**Application:** air exhaust and air supply through free openings or vents or in assembly with air ducts mounted up to 30 m horizontally with low air resistance in the system.

## ▶ Solutions for long air ducts

Turbine and scroll casing are the basic components of the **centrifugal fan**. The centrifugal fan impeller is a hollow cylinder with the blades inside that are fixed to the cylinder circumference with disk plates. The hub is located inside of these plates and is designed for mounting of the impeller on the shaft. As the impeller rotates air is trapped between its blades, gets pressurized and moves in radial direction from the center.

Under centrifugal force air is transported to the scroll casing and then to the exhaust pipe.

**Application:** air exhaust and air supply in ventilation systems with extended air ductworks and high air resistance.



## ▶ Fan noise level characteristics

Noise parameters are shown in the tables that include the following characteristics:

- ▶ Noise level LWA, dBA with various frequency band groups, LWA inlet, LWA outlet and LWA surrounding.
- ▶ The total sound power level at 3 m distance.

The frequency band has eight wave groups. Each group has a definite medium frequency: 63 Hz, 125 Hz, 250 Hz, 500 Hz, 1000 Hz, 2 kHz, 4 kHz and 8 kHz.

Any noise is classified according to frequency bands and the sound energy has various frequency groups.

The sound produced by the operating fan is spread along the air duct, get partially attenuated inside the unit and penetrates through the grilles inside the premise.

Ventilation system design is based on acoustic calculation which is an integral part of any ventilation project for any construction object.

The calculation is aimed to define the octave-frequency band in various operating points and to determine the required sound attenuation level by comparing this spectrum with the permissible values according to hygienic norms and standards. After selection of the design and acoustic facilities to be used for noise level reducing the sound pressure levels are checked for consistence with expected values in the same operating points.

| dBA | Characteristics    | Sound source  |
|-----|--------------------|---|
| 0   | no noise           |   |
| 5   | almost not audible |   |
| 10  |                    | low leaves rustling   |
| 15  | hardly audible     | medium leaves rustling  |
| 20  |                    | human whisper (1 m distance)  |
| 25  | low noise          | human whisper (1 m distance)  |
| 30  |                    | whisper, wall clock ticking   |
|     |                    | standard sound level for residential premises from 23.00 till 07.00         |
| 35  | audible enough     | low speech  |
| 40  |                    | standard speech   |
|     |                    | standard sound level for residential premises from 07.00 till 23.00         |
| 45  |                    | conventional conversation   |
| 50  | definitely audible | conversation, typing  |
| 55  |                    | Standard sound level for class A offices (EN)                               |
| 60  | noisy              | office standard sound level   |
| 65  |                    | loud conversation (> 1 m)   |
| 70  |                    | several conversations (< 1 m)   |
| 75  |                    | loud conversation (< 1 m)   |
| 80  |                    | shouting, operating motorcycle with a silencer                              |
| 85  | very noisy         | loud shouting, operating motorcycle with a silencer                         |
| 90  |                    | Loud shouts, moving railway vehicle (7 m)                                   |
| 95  |                    | moving subway train (7 m)   |
| 100 | extremely noisy    | Orchestra, top noise level of the moving subway train, thunder              |
|     |                    | Maximum permissible sound pressure for headphones of a personal stereo (EN) |
| 105 |                    | inside the airplane (before 1980s)  |
| 110 |                    | helicopter  |
| 115 | nearly unbearable  | sandblaster (1 m)   |
| 120 |                    | pneumatic hammer (1 m)  |
| 130 | pain threshold     | airplane at start   |

▶ What is IP?

While selecting the equipment and its location it is extremely important to ensure compliance of the protection rating to the operating conditions. Any electrical device must meet two protection requirements:

- ▶ safety for the user and operating personnel
- ▶ protection of the electrical components located in the device against environmental impact.

IP rating refers to dust and moisture protection of the equipment and its electrical safety. Ingress protection rating marked as IP followed by two digits is stated in the technical documentation and on the equipment casing. F.e. IP20 or IP65. The first digit means protection rating against contact to the electrical parts and contact to foreign objects. The first digit designations and characteristics are listed in the table 1.

THE SECOND DIGIT MEANS WATER INGRESS PROTECTION RATING AND ITS DESIGNATIONS AND CHARACTERISTICS ARE LISTED IN THE TABLE 2.

Table 1

| First digit | Protection characteristics              | Description  |
|-------------|---|--|
| x           | No special protection                   | Open design, no special protection against dust ingress and contact to electrical parts.   |
| 1           | Protection against large objects        | Protected against large solid objects up to 50 mm, e.g. accidental contact with hands.   |
| 2           | Protection against medium-sized objects | Protected against solid objects up to 12 mm, e.g. fingers contact to electrical parts.   |
| 3           | Protection against small objects        | Protected against penetration of solid objects over 2.5 mm (tools and wires). Protection against accidental contact to electrical parts with tools or fingers. |
| 4           | Protection against sand penetration     | Protected against solid objects over 1 mm (small tools and wires). Protection against accidental contact to electrical parts with tools or fingers.            |
| 5           | Protection against dust accumulation    | Very limited dust ingress inside the casing that does not disturb the rated equipment operation. Total protection against contact to electrical parts.         |
| 6           | Total dust ingress protection           | Total protection against dust penetration.   |

Table 2

| Second digit | Protection characteristics                            | Description   |
|--------------|---|---|
| x            | No protection   | Open design, no water protection  |
| 1            | Protection against vertically falling drops of water. | Vertically falling drops of water e.g. condensation cause no harmful effect for the equipment.  |
| 2            | Protection against water drops falling at angle       | Water drops falling at 15° or less cause no harmful effect for the equipment.   |
| 3            | Protection against water sprays                       | Water sprays falling at 60° or less cause no harmful effect for the equipment.  |
| 4            | Protection against water sprays from all directions   | Water sprays from all directions cause no harmful effect for the equipment.   |
| 5            | Protection against water jets                         | Directed water jets cause no harmful effect for the equipment in the casing.  |
| 6            | Protection against flooding of water                  | Water flooding causes no harmful effect for the equipment in the casing.  |
| 7            | Protection against immersion in water                 | Immersion of the casing in water causes no harmful effect for the equipment inside the casing.  |
| 8            | Protection against immersion in water under pressure  | Immersion of the equipment in water to some depth causes no harmful effect (protection against pressurized water, the pressure value is stated separately). |

Certification

|  |  |      |   |
|--|--|------|---|
|  | CE mark means that the equipment is produced in compliance with the quality and safety standards provided by EU regulations for the given product type (marked by manufacturer). |      | Mark of conformity of the goods subject to obligatory certification in DSTR system as well as technical norms and standards acting in Russian Federation. Confirmed by the RosTEST certificates (Moscow). |
|  | Mark of conformity to the European Quality Standards and Electrical Safety issued by Association for Technical Inspection (Technischer Überwachungsverein, Germany).             |      | Insulation class: double insulation.  |
|  | Mark of conformity to the Ukrainian Quality Standards and electrical safety issued by UkrTEST.   | IP34 | Equipment protection rating (refer to tables 1, 2).   |

## Domestic fans options



### Pull cord switch

Fan is switched on and off by a pull cord. The pull length is adjustable.



### Timer

On power-off the fan continues operating within the time period set by the timer setting from 2 to 30 minutes.



### Humidity sensor

Fan is equipped with an electronic processor with permanent humidity level monitoring function that prevents condensate generation. The fan switches automatically on as the relative humidity in the premise reaches the preset threshold value adjustable from 60 to 90 % and continues operating within 2 to 30 minutes according to the timer setting.



### Motion sensor

Fan switches automatically on in case of motion detection in the premises and continues operating within the time period from 2 to 30 minutes according to the timer setting. The motion sensitivity area from 1 to 4 m and the detection angle up to 100°.



### Ball bearings motor

Fan motors are equipped with ball bearings that ensure long service life rated for 40.000 hrs and reliable operation in case of ceiling mounting.



### Turbo

Fan is equipped with a high-powered electric motor for higher air flow.



### Press

Models are equipped with a 5-blade silent operation impeller with improved aerodynamics for higher fan pressure. Such impeller design allows attaining previously unachievable air flow characteristics for axial fans.



### 12 V

Fan is equipped with a low-voltage (12 V) electric motor for safe operation in humid areas and spaces with high water ingress probability (bathrooms, saunas etc.).



### Backdraft damper

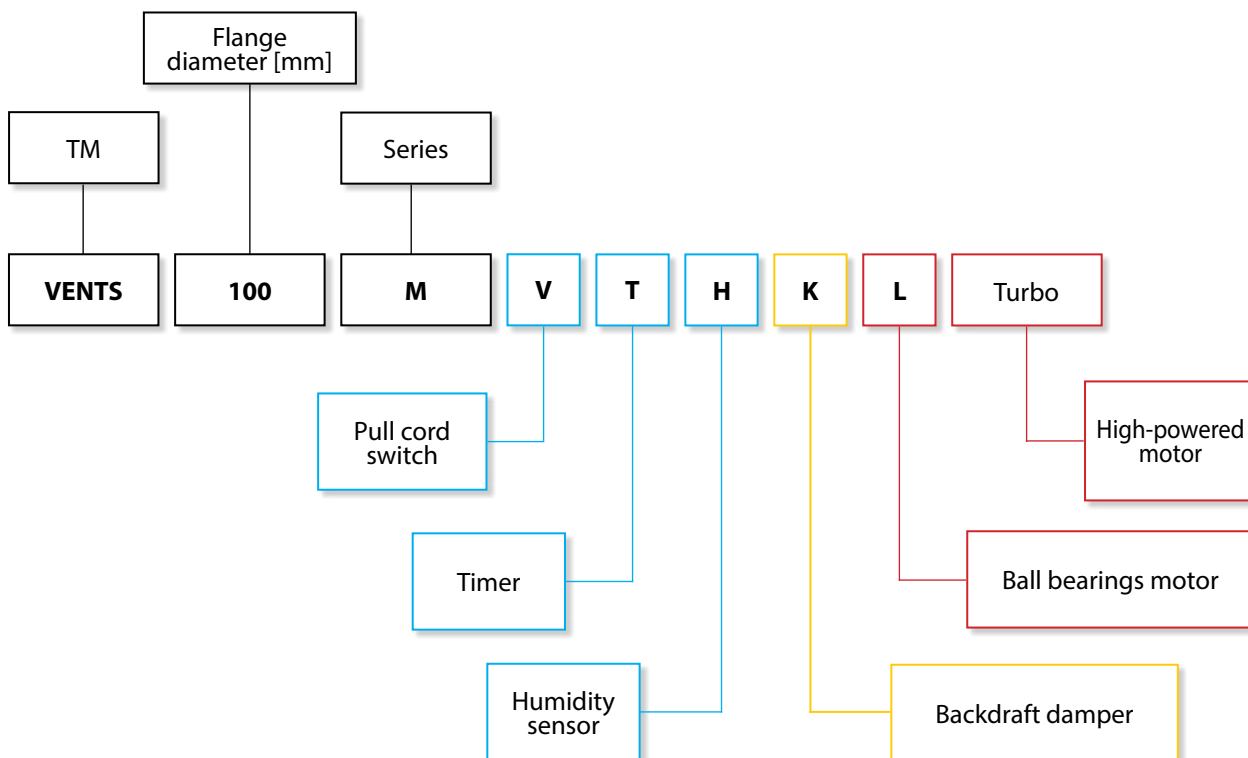
Fan is equipped with a backdraft damper for air back flow preventing. The backdraft damper is supplied as a standard with all modifications of M, M1, D, S, M3, X, X1, and LD fans. The damper is also available as a separate equipment for KO 100, KO 125, and KO 150 models.



### Domestic fans designation key

| VENTS | Flange diameter [mm]            | Series | Built-in options  | Extra Option     | Motor options                                    |
|-------|---------------------------------|--------|---|------------------|--|
|       | 100<br>125<br>150<br>180<br>230 |        | V - Pull cord switch<br>T - Timer<br>TH - Humidity Sensor<br>TP - Motion Sensor | Backdraft damper | Ball bearings motor (L)<br>Turbo<br>Press<br>12V |

■ Designation key example



# DOMESTIC FANS

FOR AREAS UP TO 30 m<sup>2</sup>



Axial inline fans



Axial decorative fans



Low-noise and energy-saving axial fans



Centrifugal fans



Axial window fans



Axial wall- and ceiling-mounted fans



VENTS offers a wide range of domestic fans that combine outstanding performance and reliability with low power consumption and noise levels. These units are the perfect solution for ventilating bathrooms, kitchens, living quarters and other premises of up to 30 m<sup>2</sup>.

VENTS fans are available in manifold modifications with various air flow, design and functioning.



**Intellectual fans**

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**Low-noise and energy-saving axial fans**

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**Axial inline fans**

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**Axial wall- and ceiling-mounted fans**

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**Axial decorative fans**

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**Axial window fans**

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**Centrifugal fans**

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# INTELLECTUAL FANS

***i fan***  
*intelligent fan*

**Intellectual ventilation era!**







**Intellectual fans**  
**VENTS iFan Series, VENTS iFan Move Series**

Air flow up to 133 m<sup>3</sup>/h

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**Intellectual fans**  
**VENTS iFan Wi-Fi, VENTS iFan Move Wi-Fi Series**

Air flow up to 133 m<sup>3</sup>/h

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## iFan iFan Move Series



21 dBA    3.8 W    133 m³/h

Intellectual axial fans for exhaust ventilation with air flow up to 133 m³/h

### Application

- Innovative exhaust fan with stylish design for new comfort level in shower rooms, bathrooms, kitchens and other residential premises.
- Intellectual integrated control functions let adjust personal settings for the most balanced microclimate.

### Design

- Unique motor design and aerodynamic impeller profile ensure the minimum noise level – only 21 dBA whereas the air flow remains high.



- Front panel 3D design and rich colour palette of replaceable decorative panels give zest to the most refined interior.
- Due to replaceable spigots the fan is suitable for mounting with Ø 100 or Ø 125 mm air ducts.



- The motor-impeller block is easy to remove without special tools which grants easy servicing.



- The fan has a ultra-thin casing with its thickness only 29 mm without a spigot.
- The fan is equipped with an integrated on/off power slide switch for quick disconnection from power mains.

### Motor

- Reliable motor on ball bearings with minimum energy demand up to 3.8 W.
- The bearings are maintenance-free and are filled with grease for the motor service life.
- The fan is powered through an integrated pulse power supply unit with a wide power supply range from 100 to 240 V and 50 to 60 Hz. The fan is suitable for application in various countries and has stable operation in versatile power mains.
- The motor is installed on a rubber anti-vibration connector for vibration absorbing and silent fan operation.
- The motor is equipped with overheating protection.

### Modifications and Options

**iFan** Basic model with intellectual humidity control.

**iFan MOVE** Model with intellectual humidity control and extra motion sensor control.

### Intellectual functions

- Multi-functional control panel for control of intellectual functions.



### HUMIDITY MODE / Humidity control adjustments

- The fan is equipped with an intellectual humidity sensor with three operation modes:

**SLEEP** – the fan is ready to accept a signal from the humidity sensor or external switch.

**SILENT** – optimum humidity extraction mode that provides sufficient air flow (up to 83 m³/h) combined with silent operation.

**MAX** – excessive humidity extraction mode with highest speed and maximum air flow (up to 133 m³/h).



### TIMER / Control of time / humidity extraction / switch delay time / turn-off delay time

- The fan is equipped with three timers:

**Humidity timer** – setting of the fan operation for total humidity extraction after its stabilization (30, 45, 60 min).

**Turn-off timer** – the fan continues operation for 5, 15 or 30 minutes after activation of the motion sensor or the external switch and then reverts to the previous operation mode.

**Switch delay timer** – adjust the switch delay timer to avoid the fan unnecessary switching if you use your bathroom shortly and frequently. After humidity increases or after signal from the external switch/motion sensor, the fan switches to higher speed not immediately, but after the timer countdown (0, 2 and 5 minutes).



### SPEED / Fan speed adjustments

- The fan has smooth ten step speed control:
  - for **SILENT** mode: from 40/33 to 83/72 m³/h (Ø 125/100 mm);
  - for **MAX** mode: from 83/72 to 133/106 m³/h (Ø 125/100 mm);



### 24 HOURS / Permanent ventilation

- Permanent low-speed operation mode ensures continuous minimum air exchange in the room with air flow 40/33 m³/h (Ø 125/100 mm). After humidity change the fan is switched to MAX mode (by default) or SILENT mode. The fan is switched to SILENT mode after signal from the motion sensor or external switch.



### Automatic interval ventilation

- Integrated function of automatic ventilation switching. Once in 15 hours the fan is switched on for 2 hours to ventilate the premise with air flow 83/72 m³/h (Ø 125/100 mm).



### MOVE / Motion sensor (for the model iFan Move)

- The fan is switched to SILENT mode automatically in case of a signal from the motion sensor with the reach distance 1-4 m and viewing angle 100°.

### Decorative front panel colours\*



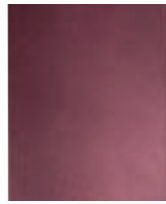
melange



silver



ruby star



topaz violet



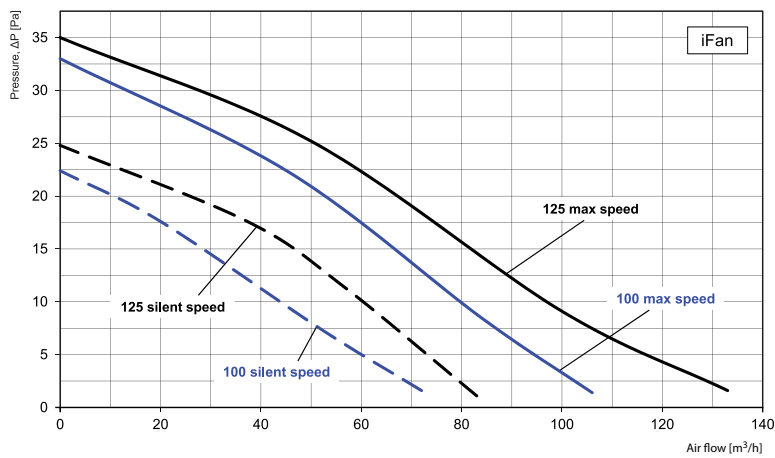
graphite



black sapphire

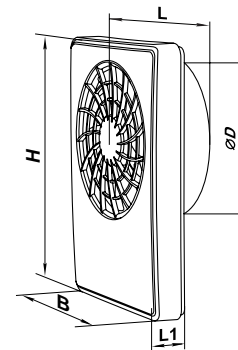
\* The decorative panels are available separately.

### Aerodynamic characteristics



### Overall dimensions

| Model     | Dimensions [mm] |     |     |    |    |
|-----------|-----------------|-----|-----|----|----|
|           | Ø D             | B   | H   | L  | L1 |
| iFan      | 100/125         | 152 | 206 | 57 | 29 |
| iFan Move |                 |     |     |    |    |



### Technical data

| Model             | Spigot diameter [mm] | Mode     | Max. air capacity [m³/h] | Sound Pressure Level [dBA]* | Air flow, factory settings [m³/h] | Regulation range [m³/h] |
|-------------------|----------------------|----------|--------------------------|-----------------------------|-----------------------------------|-------------------------|
| iFan<br>iFan Move | 100                  | 24 HOURS | 33                       | 17                          | 33                                | -                       |
|                   |                      | SILENT   | 72                       | 22                          | 72                                | 33...72                 |
|                   |                      | MAX      | 106                      | 31                          | 82                                | 72...106                |
|                   | 125                  | 24 HOURS | 40                       | 17                          | 40                                | -                       |
|                   |                      | SILENT   | 83                       | 21                          | 83                                | 40...83                 |
|                   |                      | MAX      | 133                      | 32                          | 97                                | 83...133                |

\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

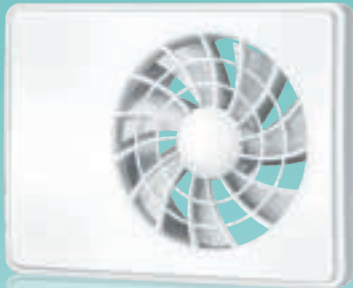
### Certificates



The fans meet the applicable safety and electromagnetic compatibility standards.



## Series iFan Wi-Fi iFan Move Wi-Fi



Intellectual axial fan with an integrated Wi-Fi module for exhaust ventilation with air flow up to **133 m<sup>3</sup>/h**

**17** dBA  
**1.6** W  
**133** m<sup>3</sup>/h

### Application

- Innovative exhaust fan with stylish design for new comfort level in shower rooms, bathrooms, kitchens and other residential premises.
- Intellectual integrated control functions allow adjusting personal settings for the most balanced microclimate.

### Design

- Specially designed motor and aerodynamically optimized impeller shape provide super silent operation at only 17 dBA, which is combined with high air performance.



- Front panel 3D design and rich colour palette of replaceable decorative panels give zest to the most refined interior.
- Due to replaceable spigots the fan is suitable for mounting with Ø100 or Ø125 mm air ducts.



- The motor-impeller block is easy to remove without special tools which grants easy servicing.



- The fan has an ultra-thin casing with a thickness of only 29 mm without a spigot.
- The fan is equipped with an integrated on/off power slide switch for quick disconnection from power mains.

### Motor

- Reliable motor on ball bearings with minimum energy demand up to 6 W.
- The bearings are maintenance-free and are filled with grease for the whole motor service life.
- The fan is powered through an integrated pulse power supply unit with a wide power supply range from 100 to 240 V and 50 to 60 Hz. The fan is suitable for application in various countries and has stable operation in versatile power mains.
- The motor is installed on a rubber anti-vibration connector for vibration absorbing and silent fan operation.
- The motor is equipped with overheating protection.

### Modifications



Model with intellectual humidity control and automatic heat distribution.



Model with intellectual humidity control, automatic heat distribution and extra motion sensor control.

### Operation modes

The operating mode for the iFan Wi-Fi fan can be selected using an application for Android or iOS.



#### 24 HOURS / Non-stop ventilation

**Silent** – permanent low-speed operation mode. If the humidity changes, the fan switches to a higher speed (MAX mode). The fan is switched to Silent mode after signal from the motion sensor or external switch.

**Do not disturb** – the function is only available when the 24 hours mode is activated. This function allows for setting the time interval so that the fan will not respond to sensors or switch actuation, and will operate at minimum speed (Silent).



#### TIMER/Turn-on and turn-off delay timers

Turn-on delay timer allows to delay switching to a higher speed by 2 or 5 minutes after sensor activation.

Turn-off delay timer is designed to prolong the fan operation for 5, 15, 30 or 60 minutes in the mode caused by sensor activation or Boost mode activation.



#### Automatic interval ventilation

Automatic interval ventilation (function is only available when the 24 hours mode is deactivated). This mode allows ventilating the room every 12 hours for 30 minutes at the set speed.



#### Silent mode

The fan runs at Silent speed. The speed can be adjusted in the range from 30 % to 100 % of the fan maximum performance.



#### Max (Boost Mode)

The fan runs at Max speed. The speed can be adjusted in the range from 30 % to 100 % of the fan maximum performance.



#### HUMIDITY SENSOR / Humidity control adjustment

The fan has an integrated intelligent humidity sensor with the following operation modes:

**Manual mode** allows setting the humidity threshold in range from 40 % to 80 %. If this threshold is exceeded, the fan turns on or switches to higher speed.

**Auto – intelligent humidity control.** This mode provides for humidity threshold change and fan speed selection in automatic mode. The fan independently selects the optimum humidity threshold for the room in which it is installed. Fan operation algorithm is selected based on analysing the statistical data of indoor humidity level.

**Automatic operation based on temperature sensor.** If the air temperature exceeds the set point, the fan will switch to Max speed and will return to the previous mode only after indoor temperature drops by 4 °C below the set point.



#### MOTION SENSOR / Motion sensor (for the iFan Move Wi-Fi model)

When the motion sensor is activated, the turn-on delay timer is switched on. Then the fan will switch to Silent speed. Once there is no motion detected, and after turn-off delay time the fan will switch to standby mode.

### Decorative front panel colours\*



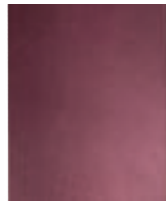
Melange



Silver



Ruby star



Violet Topaz



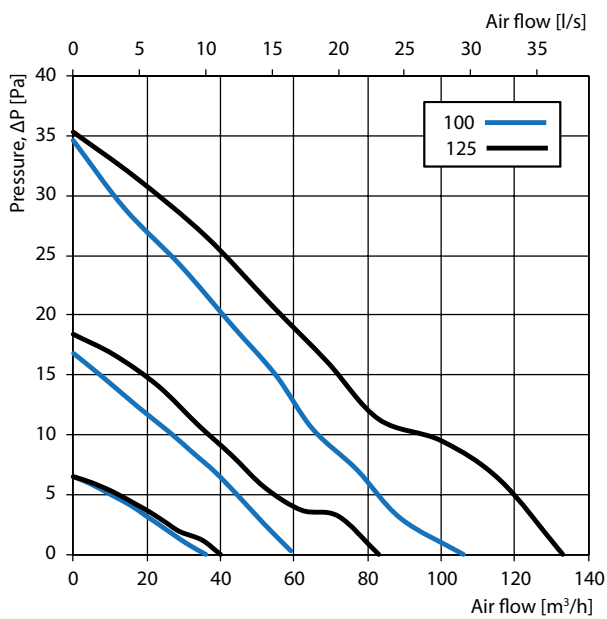
Graphite



Black Sapphire

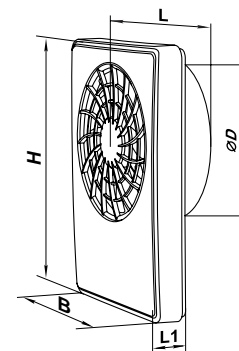
\*decorative front panels are available upon separate order

### Aerodynamic characteristics



### Overall dimensions

| Model           | Dimensions [mm] |     |     |    |    |
|-----------------|-----------------|-----|-----|----|----|
|                 | Ø D             | B   | H   | L  | L1 |
| iFan Wi-Fi      | 100/125         | 152 | 206 | 57 | 29 |
| iFan Move Wi-Fi |                 |     |     |    |    |



### Technical data

| Model                                      | iFan Wi-Fi<br>iFan Move Wi-Fi |          |      |          |          |      |
|--|-------------------------------|----------|------|----------|----------|------|
|  | Duct diameter [mm]            | 100      |      |          | 125      |      |
| Speed                                      | 24 hours                      | Silent   | Max  | 24 hours | Silent   | Max  |
| Frequency [Hz]                             | 50/60                         |          |      |          |          |      |
| Voltage [V]                                | 100-240                       |          |      |          |          |      |
| Power [W]                                  | 1.6                           | 2.9      | 5.6  | 1.7      | 3        | 6    |
| Current [A]                                | 0.02                          | 0.04     | 0.06 | 0.03     | 0.04     | 0.07 |
| RPM [min <sup>-1</sup> ]                   | 950                           | 1650     | 2150 | 850      | 1350     | 2200 |
| Maximum air flow [m <sup>3</sup> /h]       | 33                            | 72       | 106  | 40       | 83       | 133  |
| Maximum air flow [l/s]                     | 9                             | 20       | 29   | 11       | 23       | 37   |
| Air flow control range [m <sup>3</sup> /h] | -                             | 33...106 |      | -        | 40...133 |      |
| Air flow control range [l/s]               | -                             | 9...29   |      | -        | 11...37  |      |
| SFP [W/l/s]                                | 0.17                          | 0.14     | 0.19 | 0.15     | 0.13     | 0.16 |
| Sound Pressure Level [dBA]*                | 17                            | 21       | 31   | 17       | 22       | 32   |
| IP   | IP44                          |          |      |          |          |      |










\*Sound pressure level measured in free space at a distance of 3 meters from the fan.










### Certificates

The fans meet the applicable safety and electromagnetic compatibility standards.

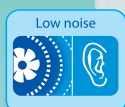


# LOW-NOISE AND ENERGY-SAVING AXIAL FANS

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|    | <b>Axial fans<br/>VENTS Quiet Series</b><br>Air flow – up to 370 m <sup>3</sup> /h        | page<br>38 |
|    | <b>Axial fans<br/>VENTS Quiet DC Series</b><br>Air flow – up to 101 m <sup>3</sup> /h     | page<br>40 |
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|  | <b>Axial fans<br/>VENTS Silenta-M Series</b><br>Air flow up to 242 m <sup>3</sup> /h      | page<br>52 |
|  | <b>Axial fans<br/>VENTS Silenta-S Series</b><br>Air flow up to 240 m <sup>3</sup> /h      | page<br>54 |

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|  | <b>Axial decorative fans<br/>VENTS Wave Series</b>      | page<br>62 |
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## VENTS Quiet Series



Intellectual axial low-noise and energy-saving fan for exhaust ventilation with air flow up to 370 m<sup>3</sup>/h

### Application

- Innovative exhaust fan with stylish design for new comfort level in shower rooms, bathrooms, kitchens and other residential premises.
- Maximum air flow combined with low noise level provide the ideal microclimate.
- Mounting into ventilation shafts or connection to Ø 100, 125, 150 mm.

### Design

- Casing and impeller made of high-quality and durable UV-resistant plastic.
- Specially designed impeller aerodynamic profile provides high air flow and low noise.
- The compact design enables wall and ceiling mounting.
- The shortened spigot for mounting into a ventilation shaft or connection to Ø 100, 125, 150 mm air ducts.
- The fan is equipped with a specially designed back valve to prevent back flow and heat losses during the fan standby.
- The fan exhaust spigot incorporates specially designed air rectifiers to reduce air turbulence, increase air pressure and lower noise level.
- High ingress protection rating ensures makes the fan the ideal solution for ventilation of a bathroom. The electronic components are protected with tight covers. Models VENTS Quiet 150 and VENTS Quiet Extra 150 are additionally equipped with a special vibration absorbing sealer along the fan countour.

### Motor

- Low energy demand from 7.5 W due to new high-efficient motor.

### Colour modifications



Quiet 100/125/150  
Red RAL 3013



Quiet 100/125/150  
Vintage



Quiet 100/125/150  
Chrome



Quiet 100/125/150  
Black Sapphire

- Maintenance-free bearings contain enough grease for 40 000 hrs non-stop operation.
- Motor on special anti-vibration dampers for vibration absorbing and silent operation.
- Motor equipped with overheating protection.
- VENTS Quiet 150 supplied with 2 speed motor. VENTS Quiet Extra 150 supplied with 2 speed high powered motor.

### Modifications and Options



**Quiet Extra** – high-powered motor.



**Quiet T** – off-delay timer modification with operating time from 2 to 30 min.



**Quiet TH** – off-delay timer modification with the operating time from 2 to 30 min and humidity sensor with threshold from 60 to 90 %.



**Quiet V** – pull-cord switch modification.



**Quiet VT** – modification with pull-cord switch and off-delay timer with operating time from 2 to 30 min.



**Quiet VTH** – modification with pull-cord switch, off-delay timer with operating time from 2 to 30 min and humidity sensor with threshold from 60 to 90 %.



**Quiet TP** – modification with off-delay timer with operating time from 2 to 30 min and motion sensor; reach distance up to 4 m, viewing angle up to 100°.

\* Models VENTS Quiet 150 with modification T / TP / VT / VTH additionally supplied with turn-on delay timer adjustable from 0 up to 2 minutes.

### Operation modes of the VENTS Quiet 150 and VENTS Quiet Extra 150

Operation modes of the fans models VENTS Quiet 150 and VENTS Quiet Extra 150 with modifications T, TH, VT, VTH, TP is selected by setting the DIP switch into the required position.

#### Mode 1 (single-speed mode)

- The fan is turned off by default. The fan starts operating at the 1st speed when the switch is closed or one of the sensors is activated.

#### Mode 2 (single-speed mode)

- The fan is turned off by default. The fan starts operating at the 2nd speed when the switch is closed or the sensors are activated.

#### Mode 3 (two-speed mode)

- The fan operates at the 1st speed by default. The fan switches to the 2nd speed when the switch is closed or the sensors are activated.

#### Mode 4 (two-speed mode)

- The fan is turned off by default. The fan starts operating at the 1st speed when the switch is closed and switches to the 2nd speed when the humidity sensor is activated.

#### Mode 5 (two-speed mode)

- The fan is turned off by default. The fan starts operating at the 1st speed when the switch is closed or when the humidity sensor is activated. If during the operation at the 1st speed the second even takes place. i.e. the switch is closed or the humidity sensor is activated, the fan switches to the 2nd speed.

### Control

#### Manual control:

- Manual control with a room light switch. The switch is not included into delivery set.
- The fan is controlled by the built-in pull cord switch **V**. Not applied in case of ceiling mounting.
- Speed control is possible through a thyristor speed controller or through speed switch P2-1-300 (only for VENTS Quiet 150 models), see Electrical Accessories. Several fans may connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modification.

#### Automatic control:

- By the electronic control unit **BU-1-60** (see Electrical Accessories). The control unit is supplied separately.
- By the timer **T** (the built-in turn-off delay timer enables the fan operation within 2 to 30 minutes after the fan switching off).
- By the humidity sensor and timer **TH** (if the humidity level in the room exceeds the sensor threshold within 60-90 % the fan switches automatically on and operates until the humidity level drops to the standard level, after that the fan continues operating within the set time period and shuts down).
- By the motion sensor and timer **TP** (if motion is detected in the reach area, the fan is switched automatically and operates within the set time period from 2 to 30 min). Reach distance up to 4 m, the max. viewing angle 100°.

### Mounting features

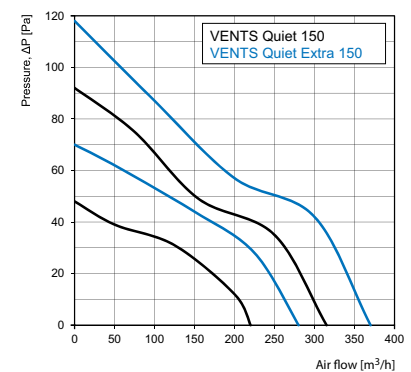
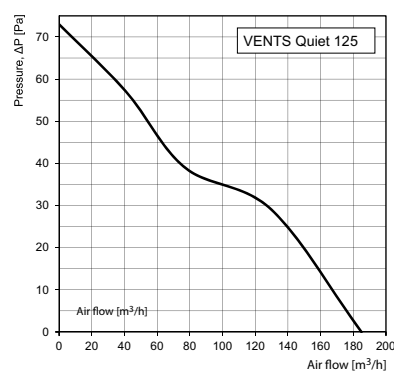
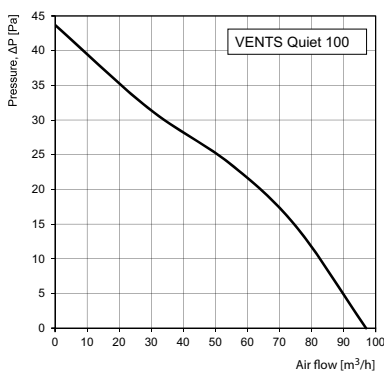
- Installation directly inside a ventilation shaft.
- Flexible air ducts may be used in case of remote location of the ventilation shaft. Connection of the air duct to the exhaust flange with a clamp.
- Wall mounting with screws.
- Suitable for ceiling mounting.

## Technical data

| Model                         | Speed | Frequency [Hz] | Voltage [V] | Power Consumption [W] | Current [A] | Maximum air capacity [m <sup>3</sup> /h] | Sound Pressure Level [dBA]* | Weight [kg] | IP   |
|-------------------------------|-------|----------------|-------------|-----------------------|-------------|--|-----------------------------|-------------|------|
| VENTS Quiet 100               | -     | 50             | 220-240     | 7.5                   | 0.049       | 97                                       | 25                          | 0.55        | IP45 |
| VENTS Quiet 100 (220 V/60 Hz) |       | 60             | 220         |                       |             |  |                             |             |      |
| VENTS Quiet 125               | -     | 50             | 220-240     | 17                    | 0.11        | 185                                      | 32                          | 0.78        |      |
| VENTS Quiet 125 (220 V/60 Hz) |       | 60             | 220         |                       |             |  |                             |             |      |
| VENTS Quiet 150               | max.  | 50/60          | 220-240     | 19                    | 0.09        | 315                                      | 33                          | 1.33        | IP45 |
|                               | min.  |                |             | 17                    | 0.08        | 220                                      | 28                          |             |      |
| VENTS Quiet Extra 150         | max.  | 50/60          | 220-240     | 22                    | 0.1         | 370                                      | 38                          | 1.33        |      |
|                               | min.  |                |             | 19                    | 0.09        | 280                                      | 32                          |             |      |

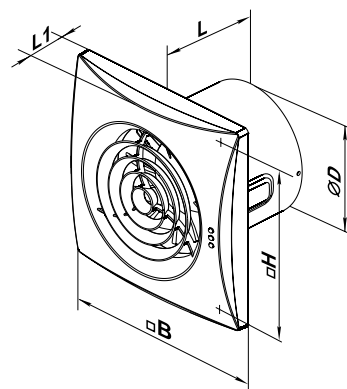
\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

## Aerodynamic characteristics



## Overall dimensions

| Model                 | Dimensions [mm] |     |     |     |    |
|-----------------------|-----------------|-----|-----|-----|----|
|                       | Ø D             | B   | H   | L   | L1 |
| VENTS Quiet 100       | 99              | 158 | 136 | 81  | 26 |
| VENTS Quiet 125       | 123.5           | 182 | 158 | 91  | 27 |
| VENTS Quiet 150       | 147.5           | 214 | 190 | 111 | 32 |
| VENTS Quiet Extra 150 |                 |     |     |     |    |



## Certificates



The fans meet the applicable safety and electromagnetic compatibility standards.



## VENTS Quiet DC Series



Updated version of low-noise axial fans with DC motors for low energy consumption

### Application

- Innovative extract fan with stylish design for enhanced comfort level in shower rooms, bathrooms, kitchens and other residential premises.
- Maximum air flow combined with low noise level provide the ideal microclimate.
- Mounting into ventilation shafts or connection to Ø 100 mm air ducts.
- Two-speed operation modes with max. air flow 100 m<sup>3</sup>/h.

### Design

- The casing and the impeller are made of high-quality and durable UV-resistant plastic.
- The specially designed aerodynamic profile of the mixed-flow impeller provides high air flow and pressure combined with low-noise operation.
- A shortened spigot for mounting into a ventilation shaft or direct connection to Ø 100 mm air duct.
- The fan is equipped with a specially designed backdraft damper to prevent back flow and heat losses during the fan standby.
- The fan exhaust spigot incorporates specially designed air rectifiers to reduce air turbulence, noise level and boost air pressure.
- High ingress protection rating makes the fan the ideal solution for ventilation of a bathroom. The electronic components are protected with tight covers.

### Colour modifications



Quiet 100 DC  
Red RAL 3013



Quiet 100 DC  
Vintage



Quiet 100 DC  
Chrome



Quiet 100 DC  
Black Sapphire

### Motor

- Low energy demand up to 3.5 W due to a new high-efficient motor.
- Maintenance-free bearings contain enough grease for 40 000 hrs non-stop operation.
- Motor equipped with electric overheating protection.

### Modifications and Options



**Quiet DC T:** modification with a turn-off delay timer regulated from 2 up to 30 minutes. All the Quiet DC fans have this timer by default.



**Quiet DC TH:** modification with a turn-off delay timer regulated from 2 up to 30 minutes and a humidity sensor with an adjustable threshold from 60 to 90 %.



**Quiet DC VT:** modification with a pull cord switch and a turn-off delay timer regulated from 2 up to 30 minutes.



**Quiet DC VTH:** modification with a pull cord switch, a turn-off delay timer regulated from 2 up to 30 minutes and a humidity sensor with an adjustable threshold from 60 to 90 %.



**Quiet DC TP:** modification with a turn-off delay timer regulated from 2 up to 30 minutes and a motion sensor with reach distance up to 4 m and viewing angle up to 100°.

### Operation modes of Quiet 100 DC fan with an integrated turn-off delay timer, humidity sensor and motion sensor.

Operation mode selection and setup for Quiet 100 DC models with modifications T, TH, VT, VTH, TP is performed by setting the DIP switch to a respective position.

#### Mode 1 (single-speed mode)

- The fan is turned off by default. The fan starts operating at the low speed when the switch is closed or one of the sensors is activated.

#### Mode 2 (single-speed mode)

- The fan is turned off by default. The fan starts operating at the high speed when the switch is closed or one of the sensors is activated.

#### Mode 3 (two-speed mode)

- The fan operates at the low speed by default. The fan switches to the high speed when the switch is closed or the sensors are activated.

#### Mode 4 (two-speed mode)

- The fan is turned off by default. The fan starts operating at the low speed when the switch is closed and switches to the high speed when the humidity or motion sensor is activated.

### Control

#### Manual control:

- Manual operation with a room light switch. The switch is not included in the delivery set.
- Operation with the integrated pull cord switch V. Not applied in case of ceiling mounting.

#### Automatic control:

- With the electronic control unit **BU-1-60** (see Electrical Accessories). The control unit is supplied separately.
- With the turn-off delay timer **T**. The built-in turn-off delay timer enables operation of the fan within 2 up to 30 minutes after turning the fan off with a switch.
- With the humidity sensor and timer **TH**. If the indoor humidity exceeds the set humidity point adjustable from 60 to 90 %, the fan switches automatically to the high speed and operates until the humidity level drops below the set point. After that the fan continues operating according to the timer settings and turns either to the low speed or turns off.
- With the motion sensor and the timer **TP**. If the motion sensor detects motion in the reach area up to 4 m with a viewing angle up to 100°, the fan turns on and operates from 2 to 30 minutes according to the timer settings.

### Mounting features

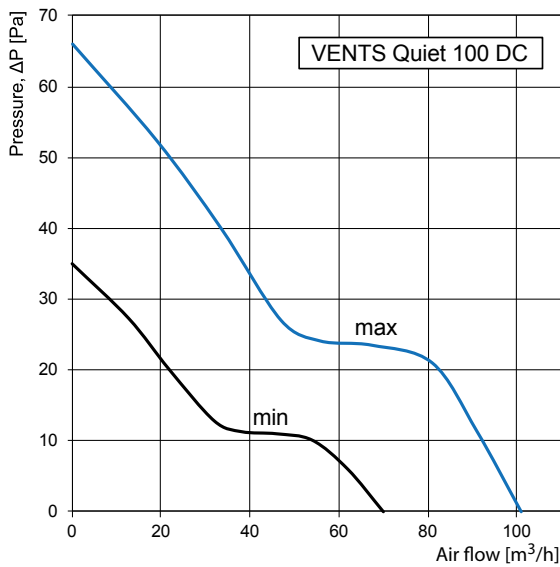
- Installation directly inside a ventilation shaft.
- Flexible air ducts may be used in case of remote location of the ventilation shaft. The air duct is connected to the exhaust spigot with a fixing clamp.
- Wall mounting with screws.
- Suitable for ceiling mounting.

### Technical data

| Model          | Speed | Frequency [Hz] | Voltage [V] | Power consumption [W] | Current [A] | R.p.m. | Maximum air capacity [m <sup>3</sup> /h] | Sound Pressure Level [dBA]* | Weight [kg] | IP   |
|----------------|-------|----------------|-------------|-----------------------|-------------|--------|--|-----------------------------|-------------|------|
| VENTS Quiet DC | min.  | 50/60          | 220-240     | 1.5                   | 0.063       | 1850   | 70                                       | 22                          | 0.55        | IP45 |
|                | max.  |                |             | 3.5                   | 0.137       | 2650   | 101                                      | 27                          |             |      |

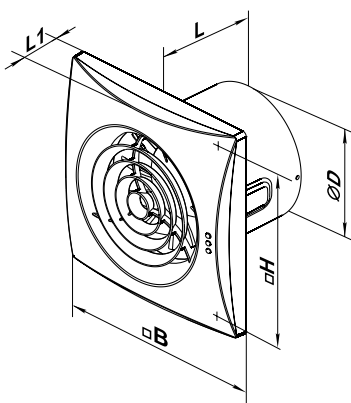
\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

### Aerodynamic characteristics



### Overall dimensions

| Model          | Dimensions [mm] |     |     |    |    |
|----------------|-----------------|-----|-----|----|----|
|                | Ø D             | B   | H   | L  | L1 |
| VENTS Quiet DC | 99              | 158 | 136 | 81 | 26 |

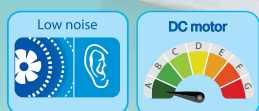


### Certificates



The fans meet the applicable safety and electromagnetic compatibility standards.

## Series VENTS Quiet-dMEV DC



Updated version of low-noise axial fans with DC motors for low energy consumption

### Application

- Innovative extract fan with stylish design for enhanced comfort level in shower rooms, bathrooms, kitchens and other residential premises.
- Maximum air flow combined with low noise level provides the ideal indoor microclimate.
- Mounting into ventilation shafts or connection to Ø 100 mm air ducts.
- Two operation modes with the speed up to 100 m<sup>3</sup>/h

### Design

- The casing and the impeller are made of high-quality and durable UV-resistant plastic.
- The specially designed aerodynamic profile of the mixed-flow impeller provides high air capacity, powerful pressure and low operation noise.
- A shortened spigot enables to mount the fan into a ventilation shaft or connect it to a Ø 100 mm air duct.
- The specially designed air backdraft damper prevents air backdraft and heat losses during standstill of the fan.
- The fan exhaust spigot is equipped with specially designed air rectifiers that reduce air turbulence, noise level and boost air pressure.
- High ingress protection rating makes the fan the ideal solution for ventilation of a bathroom.
- The electronic components are protected with tight covers.

### Colour modifications



Quiet-dMEV 100 DC  
Red



Quiet-dMEV 100 DC  
Vintage



Quiet-dMEV 100 DC  
Chrome



Quiet-dMEV 100 DC  
Black Sapphire

### Motor

- High-efficient direct current motor with low energy consumption of maximum 3.4 W.
- Maintenance-free bearings are greased for 40 000 hrs of non-stop operation.
- The motor is equipped with overheating protection.

### Modifications and Options



**Quiet-dMEV DC 12:** modification with safe low-voltage 12 V ac motor.



**Quiet-dMEV DC T:** timer modification with a fixed turn-on delay of 60 s and a regulated turn-off delay from 2 up to 30 minutes.



**Quiet-dMEV DC TH:** modification with a turn-off delay timer regulated from 2 up to 30 minutes and a humidity sensor with an adjustable threshold from 60 to 90 % RF.



**Quiet-dMEV DC VT:** modification with a pull cord switch and a turn-off delay timer regulated from 2 up to 30 minutes.



**Quiet-dMEV DC VTH:** modification with a pull cord switch, a turn-off delay timer regulated from 2 up to 30 minutes and a humidity sensor with an adjustable threshold from 60 to 90 % RF.

### Operation modes of Quiet-dMEV 100 DC fan with a pull cord switch, integrated turn-on and turn-off delay timer and a humidity sensor

Operation mode selection and setup for the Quiet-dMEV 100 DC models with T, TH, VT, VTH options is performed by setting the DIP switch to a respective position.

#### Trickle speed modes:

- 1 – 0 l/s: the fan is off
- 2 – 6 l/s: the fan runs with the speed 2
- 3 – 8 l/s: the fan runs with the speed 3
- 4 – 13 l/s: the fan runs with the speed 4
- Intensive operation modes (Boost)
- 5 – 15 l/s: the fan runs with the speed 5
- 6 – max: the fan runs with the highest speed.

#### Operation mode 1

- The fan runs with the Trickle speed by default. In case of actuation of the pull cord switch the fan goes to the Boost speed mode.

#### Operation mode 2

- The fan runs with the Trickle speed by default. In case of actuation of the switch the turn-on delay timer countdown starts and then the fan starts to run with the Boost speed. After turning the fan off the turn-off delay timer is activated.

#### Operation mode 3

- The fan runs with the Trickle speed by default. In case of actuation of the humidity sensor the fan goes to the Boost speed mode. After decrease of the indoor humidity below the set threshold the turn-off delay timer is activated.

### Control

#### Manual control:

- Manual operation with a room light switch. The light switch is not included in the delivery set.
- Manual operation with the integrated pull cord switch **V**. Not applied in case of ceiling mounting.

#### Automatic control:

- Automatic control with the electronic control unit **BU-1-60** (see Electrical Accessories). The control unit is supplied separately.
- Automatic control with the timer **T**: the integrated timer with turn-on and turn-off delay functions enables to switch the fan to the intensive operation mode 60 seconds after the switch actuation and to keep the fan running from 2 to 30 minutes after it is turned off with the switch.
- Automatic control with the humidity sensor and timer **TH**: as the indoor humidity exceeds the set threshold from 60 % up to 90 %, the fan turns automatically on or goes to higher speed and runs until the humidity decreases below the set threshold.
- After that the fan continues to run within the set time period and then turns off or goes to lower speed.

### Mounting features

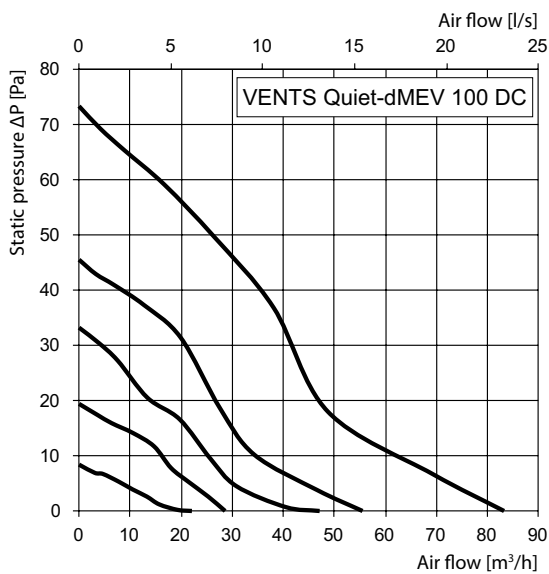
- Direct installation inside a ventilation shaft.
- In case of remote location of the ventilation shaft flexible air ducts may be used.
- The air duct is connected to the exhaust spigot with a fixing clamp.
- Wall mounting with screws.
- Suitable for ceiling mounting.

### Technical data

| Model             | Speed          | Frequency [Hz] | Voltage [V] | Current [A] | Power Consumption [W] |      | Air capacity |       | Specific Power W/l/s | Sound Pressure Level [dBA]* |
|-------------------|----------------|----------------|-------------|-------------|-----------------------|------|--------------|-------|----------------------|-----------------------------|
|                   |                |                |             |             | min.                  | max. | [m³/h]       | [l/s] |                      |                             |
| Quiet-dMEV 100 DC | Trickle Low    | 50/60          | 220-240     | 0.014       | 0.6                   | 0.7  | 22           | 6     | 0.10                 | 10                          |
|                   | Trickle Middle |                |             | 0.017       | 0.8                   | 0.9  | 29           | 8     | 0.10                 | 11                          |
|                   | Trickle High   |                |             | 0.024       | 1.3                   | 1.7  | 47           | 13    | 0.10                 | 13                          |
|                   | Boost Low      |                |             | 0.028       | 1.9                   | 2.1  | 54           | 15    | 0.13                 | 14                          |
|                   | Boost High     |                |             | 0.039       | 3.0                   | 3.4  | 83           | 23    | 0.15                 | 21                          |

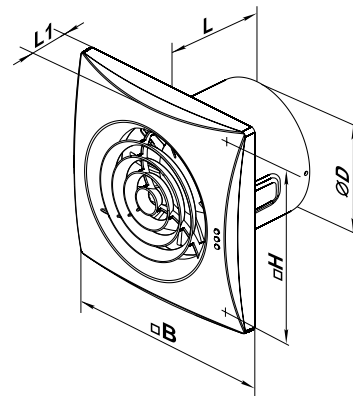
\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

### Aerodynamic characteristics



### Overall dimensions

| Model                   | Dimensions [mm] |     |     |    |    |
|-------------------------|-----------------|-----|-----|----|----|
|                         | Ø D             | B   | H   | L  | L1 |
| VENTS Quiet-dMEV 100 DC | 99              | 158 | 136 | 81 | 26 |



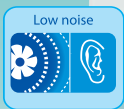
### Certificates



The fans meet the applicable safety and electromagnetic compatibility standards



## VENTS Quiet-Style Series



Intellectual axial low-noise and energy-saving fan for exhaust ventilation with air flow up to 90 m<sup>3</sup>/h

### Application

- Innovative exhaust fan with stylish design for new comfort level in shower rooms, bathrooms, kitchens and other residential premises.
- Maximum air flow combined with low noise level provide the ideal microclimate.
- Mounting into ventilation shafts or connection to Ø 100 mm.

### Design

- Casing, impeller and frontpanels made of high-quality and durable UV-resistant plastic.
- Specially designed impeller aerodynamic profile provides high air flow and low noise.
- The compact design enables wall and ceiling mounting.
- The shortened spigot for mounting into a ventilation shaft or connection to Ø 100 mm air ducts.
- The fan is equipped with a specially designed back valve to prevent back flow and heat losses during the fan standby.
- The fan exhaust spigot incorporates specially designed air rectifiers to reduce air turbulence, increase air pressure and lower noise level.
- High ingress protection rating ensures makes the fan the ideal solution for ventilation of a bathroom. The electronic components are protected with tight covers.

### Colour modifications



Quiet-Style A  
(with a decorative aluminium surface-mounted panel)

### Motor

- Low energy demand 7.5 W due to new high-efficient motor.
- Maintenance-free bearings contain enough grease for 40 000 hrs non-stop operation.
- Motor on special anti-vibration dampers for vibration absorbing and silent operation.
- Motor equipped with overheating protection.

### Modifications and Options



**Quiet-Style T** – off-delay timer modification with operating time from 2 to 30 min.



**Quiet-Style TH** – off-delay timer modification with the operating time from 2 to 30 min and humidity sensor with threshold from 60 to 90 %.



**Quiet-Style V** – pull-cord switch modification.



**Quiet-Style VT** – modification with pull-cord switch and off-delay timer with operating time from 2 to 30 min.



**Quiet-Style VTH** – modification with pull-cord switch, off-delay timer with operating time from 2 to 30 min and humidity sensor with threshold from 60 to 90 %.



### Control

#### Manual control:

- Manual control with a room light switch. The switch is not included into delivery set.
- The fan is controlled by the built-in pull cord switch **V**. Not applied in case of ceiling mounting.
- Speed control is possible through a thyristor speed controller, see Electrical Accessories. Several fans may be connected to the same controller. Speed controllers can not be connected to the fans with T, TH, VT, VTH modification.

#### Automatic control:

- By the electronic control unit **BU-1-60** (see Electrical Accessories). The control unit is supplied separately.
- By the timer **T** (the built-in turn-off delay timer enables the fan operation within 2 to 30 minutes after the fan switching off).
- By the humidity sensor and timer **TH** (if the humidity level in the room exceeds the sensor threshold within 60-90 % the fan switches automatically on and operates until the humidity level drops to the standard level, after that the fan continues operating within the set time period and shuts down).

### Mounting features

- Installation directly inside a ventilation shaft.
- Flexible air ducts may be used in case of remote location of the ventilation shaft. Connection of the air duct to the exhaust flange with a clamp.
- Wall mounting with screws.
- Suitable for ceiling mounting.

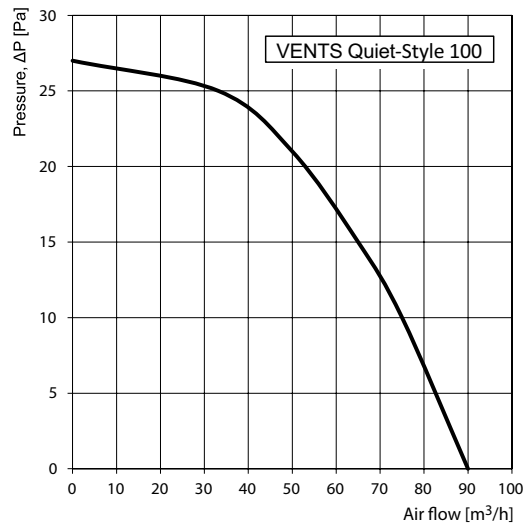


### Technical data

| Model                               | Frequency [Hz] | Voltage [V] | Power Consumption [W] | Current [A] | Maximum air capacity [m <sup>3</sup> /h] | Sound Pressure Level [dBA]* | Weight, kg | IP   |
|-------------------------------------|----------------|-------------|-----------------------|-------------|--|-----------------------------|------------|------|
| VENTS Quiet-Style 100               | 50             | 220-240     | 7.5                   | 0.050       | 90                                       | 26                          | 0.66       | IP45 |
| VENTS Quiet-Style 100 (220 V/60 Hz) | 60             | 220         |                       |             |  |                             |            |      |

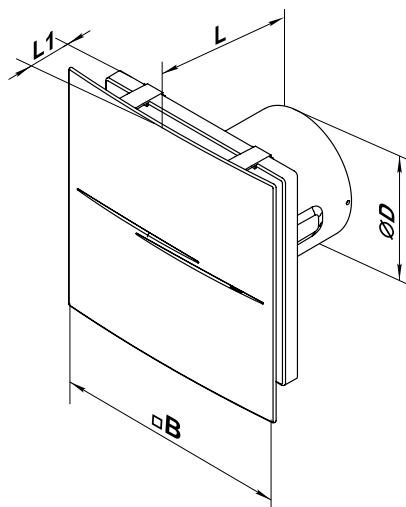
\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

### Aerodynamic characteristics



### Overall dimensions

| Model                 | Dimensions [mm] |     |     |    |
|-----------------------|-----------------|-----|-----|----|
|                       | ∅ D             | □ B | L   | L1 |
| VENTS Quiet-Style 100 | 99              | 200 | 130 | 49 |

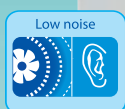


### Certificates



The fans meet the applicable safety and electromagnetic compatibility standards.

## VENTS Quiet-S Series



Intellectual axial low-noise and energy-saving fan for exhaust ventilation with air flow up to 99 m<sup>3</sup>/h

### Application

- Innovative exhaust fan with stylish design for new comfort level in shower rooms, bathrooms, kitchens and other residential premises.
- Maximum air flow combined with low noise level provide the ideal microclimate.
- Mounting into ventilation shafts or connection to Ø 100 mm.



The delivery set includes three decorative panels in white, blue and green.

### Design

- Casing, impeller and frontpanels made of high-quality and durable UV-resistant plastic.
- Specially designed impeller aerodynamic profile provides high air flow and low noise.
- The compact design enables wall and ceiling mounting.
- The shortened spigot for mounting into a ventilation shaft or connection to Ø 100 mm air ducts.
- The fan is equipped with a specially designed back valve to prevent back flow and heat losses during the fan standby.
- The fan exhaust spigot incorporates specially designed air rectifiers to reduce air turbulence, increase air pressure and lower noise level.
- High ingress protection rating ensures makes the fan the ideal solution for ventilation of a bathroom. The electronic components are protected with tight covers.

### Motor

- Low energy demand 7.5 W due to new high-efficient motor.
- Maintenance-free bearings contain enough grease for 40 000 hrs non-stop operation.
- Motor on special anti-vibration dampers for vibration absorbing and silent operation.
- Motor equipped with overheating protection.

### Modifications and Options



**Quiet-S T** – off-delay timer modification with operating time from 2 to 30 min.



**Quiet-S TH** – off-delay timer modification with the operating time from 2 to 30 min and humidity sensor with threshold from 60 to 90 %.



**Quiet-S V** – pull-cord switch modification.



**Quiet-S VT** – modification with pull-cord switch and off-delay timer with operating time from 2 to 30 min.



**Quiet-S VTH** – modification with pull-cord switch, off-delay timer with operating time from 2 to 30 min and humidity sensor with threshold from 60 to 90 %.



**Quiet-S TP** – modification with off-delay timer with operating time from 2 to 30 min and motion sensor; reach distance up to 4 m, viewing angle up to 100°.

### Control

#### Manual control:

- Manual control with a room light switch. The switch is not included into delivery set.
- The fan is controlled by the built-in pull cord switch **V**. Not applied in case of ceiling mounting.
- Speed control is possible through a thyristor speed controller, see Electrical Accessories. Several fans may be connected to the same controller. Speed controllers can not be connected to the fans with T, TH, VT, VTH, TP modification.

#### Automatic control:

- By the electronic control unit **BU-1-60** (see Electrical Accessories). The control unit is supplied separately.
- By the timer **T** (the built-in turn-off delay timer enables the fan operation within 2 to 30 minutes after the fan switching off).
- By the humidity sensor and timer **TH** (if the humidity level in the room exceeds the sensor threshold within 60-90 % the fan switches automatically on and operates until the humidity level drops to the standard level, after that the fan continues operating within the set time period and shuts down).

### Mounting features

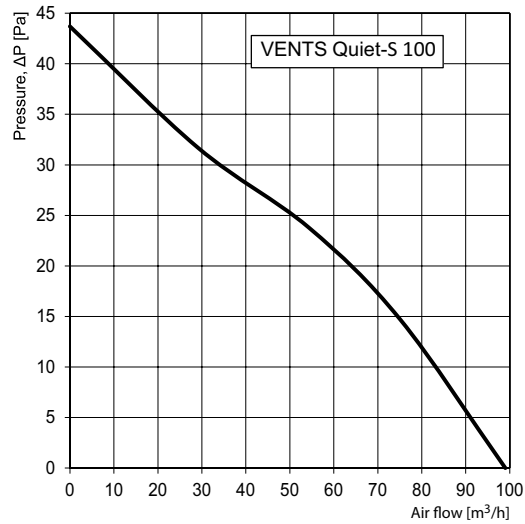
- Installation directly inside a ventilation shaft.
- Flexible air ducts may be used in case of remote location of the ventilation shaft. Connection of the air duct to the exhaust flange with a clamp.
- Wall mounting with screws.
- Suitable for ceiling mounting.

### Technical data

| Model                           | Frequency [Hz] | Voltage [V] | Power Consumption [W] | Current [A] | Maximum air capacity [m <sup>3</sup> /h] | Sound Pressure Level [dBA]* | Weight, kg | IP   |
|---------------------------------|----------------|-------------|-----------------------|-------------|--|-----------------------------|------------|------|
| VENTS Quiet-S 100               | 50             | 220-240     | 7.5                   | 0.049       | 99                                       | 24                          | 0.58       | IP45 |
| VENTS Quiet-S 100 (220 V/60 Hz) | 60             | 220         |                       |             |  |                             |            |      |

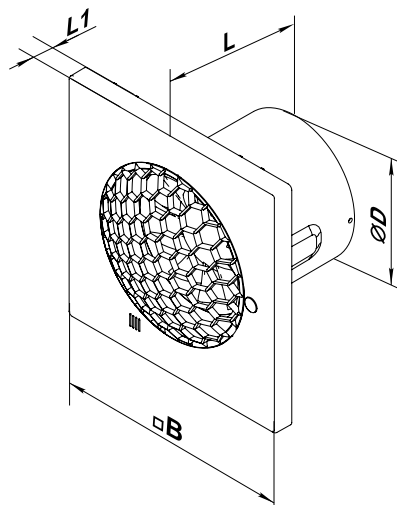
\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

### Aerodynamic characteristics



### Overall dimensions

| Model             | Dimensions [mm] |     |     |    |
|-------------------|-----------------|-----|-----|----|
|                   | Ø D             | B   | L   | L1 |
| VENTS Quiet-S 100 | 99              | 175 | 123 | 42 |



### Certificates



The fans meet the applicable safety and electromagnetic compatibility standards.



## VENTS Quiet-Disc Series



Intellectual axial low-noise and energy-saving fan for exhaust ventilation with air flow up to 370 m<sup>3</sup>/h

### Application

- Innovative exhaust fan with stylish design for new comfort level in shower rooms, bathrooms, kitchens and other residential premises.
- Maximum air flow combined with low noise level provide the ideal microclimate.
- Mounting into ventilation shafts or connection to Ø 100, 125, 150 mm.

### Design

- Casing and impeller made of high-quality and durable UV-resistant plastic.
- Specially designed impeller aerodynamic profile provides high air flow and low noise.
- The compact design enables wall and ceiling mounting.
- The shortened spigot for mounting into a ventilation shaft or connection to Ø 100, 125, 150 mm air ducts.
- The fan is equipped with a specially designed back valve to prevent back flow and heat losses during the fan standby.
- The fan exhaust spigot incorporates specially designed air rectifiers to reduce air turbulence, increase air pressure and lower noise level.
- High ingress protection rating makes the fan the ideal solution for ventilation of a bathroom. The electronic components are protected with tight covers. The VENTS Quiet-Disc 150 and VENTS Quiet-Disc Extra 150 models are additionally equipped with a special vibration absorbing sealer along the fan countour.

### Motor

- Low energy demand from 7.5 W due to new high-efficient motor.
- Maintenance-free bearings contain enough grease for 40 000 hrs non-stop operation.

### Colour modifications



Quiet-Disc 100/125/150 Red



Quiet-Disc 100/125/150 Vintage



Quiet-Disc 100/125/150 Chrome



Quiet-Disc 100/125/150 Black Sapphire

- Motor on special anti-vibration dampers for vibration absorption and silent operation.
- Motor equipped with overheating protection.
- The VENTS Quiet-Disc 150 is supplied with a two-speed motor. The VENTS Quiet-Disc Extra 150 is supplied with a two-speed high powered motor.

### Modifications and Options



**Quiet-Disc Extra** – high-powered motor.



**Quiet-Disc T** – turn-off delay timer modification with operating time from 2 to 30 min.



**Quiet-Disc TH** – turn-off delay timer modification with operating time from 2 to 30 min and a humidity sensor with threshold from 60 to 90 %.



**Quiet-Disc V** – pull-cord switch modification.



**Quiet-Disc VT** – modification with a pull-cord switch and a turn-off delay timer with operating time from 2 to 30 min.



**Quiet-Disc VTH** – modification with a pull-cord switch, a turn-off delay timer with operating time from 2 to 30 min and a humidity sensor with threshold from 60 to 90 %.



**Quiet-Disc TP** – modification with a turn-off delay timer with operating time from 2 to 30 min and a motion sensor; reach distance up to 4 m, viewing angle up to 100°.

\* The VENTS Quiet-Disc 150 models with the T/TP/VT/VTH modifications are additionally supplied with a turn-on delay timer adjustable from 0 up to 2 minutes.

### VENTS Quiet-Disc 150 and VENTS Quiet-Disc Extra 150 operation modes

Operation modes of the fans models VENTS Quiet-Disc 150 and VENTS Quiet-Disc Extra 150 with modifications T, TH, VT, VTH, TP are selected by setting the DIP switch into the required position.

#### Mode 1 (single-speed mode)

- The fan is turned off by default. The fan starts operating at the 1st speed when the switch is closed or one of the sensors is activated.

#### Mode 2 (single-speed mode)

- The fan is turned off by default. The fan starts operating at the 2nd speed when the switch is closed or the sensors are activated.

#### Mode 3 (two-speed mode)

- The fan operates at the 1st speed by default. The fan switches to the 2nd speed when the switch is closed or the sensors are activated.

#### Mode 4 (two-speed mode)

- The fan is turned off by default. The fan starts operating at the 1st speed when the switch is closed and switches to the 2nd speed when the humidity sensor is activated.

#### Mode 5 (two-speed mode)

- The fan is turned off by default. The fan starts operating at the 1st speed when the switch is closed or when the humidity sensor is activated. If during the operation at the 1st speed the second even takes place, i.e. the switch is closed or the humidity sensor is activated, the fan switches to the 2nd speed.

### Control

#### Manual control:

- Manual control with a room light switch. The switch is not included in the delivery set.
- The fan is controlled by the built-in pull cord switch **V**. Not applied in case of ceiling mounting.
- Speed control is possible through a thyristor speed controller or through a P2-1-300 speed switch (only for VENTS Quiet-Disc 150 models), see Electrical Accessories. Several fans may be connected to the same controller. Speed controllers can not be connected to the fans with the T, TH, TP, VT, VTH modifications.

#### Automatic control:

- By the electronic control unit **BU-1-60** (see Electrical Accessories). The control unit is supplied separately.
- By the timer **T** (the built-in turn-off delay timer enables the fan operation within 2 to 30 minutes after the fan switching off).
- By the humidity sensor and timer **TH** (if the humidity level in the room exceeds the sensor threshold within 60-90 % the fan switches automatically on and operates until the humidity level drops to the standard level, after that the fan continues operating within the set time period and shuts down).
- By the motion sensor and timer **TP** (if motion is detected in the reach area, the fan is switched automatically and operates within the set time period from 2 to 30 min). Reach distance up to 4 m, the max. viewing angle 100°.

### Mounting features

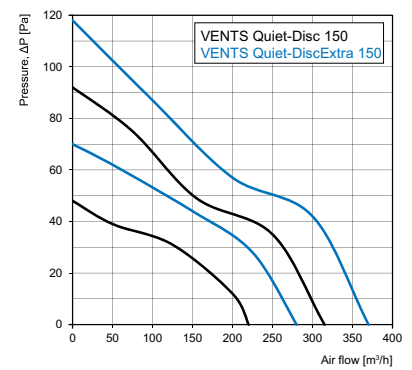
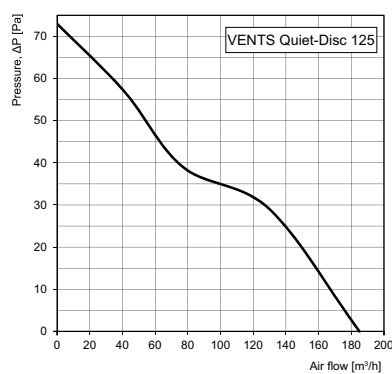
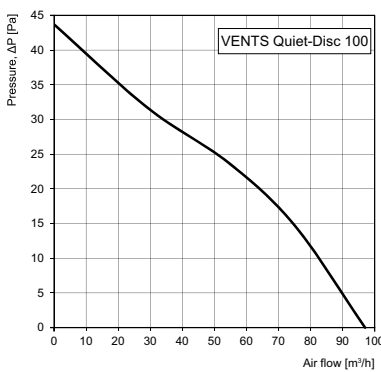
- Installation directly inside a ventilation shaft.
- Flexible air ducts may be used in case of remote location of the ventilation shaft. Connection of the air duct to the exhaust flange with a clamp.
- Wall mounting with screws.
- Suitable for ceiling mounting.

## Technical data

| Model                              | Speed | Frequency [Hz] | Voltage [V] | Power consumption [W] | Current [A] | Maximum air flow [m <sup>3</sup> /h] | Sound Pressure Level [dBA]* | Weight [kg] | IP   |
|------------------------------------|-------|----------------|-------------|-----------------------|-------------|--------------------------------------|-----------------------------|-------------|------|
| VENTS Quiet-Disc 100               | -     | 50             | 220-240     | 7.5                   | 0.049       | 97                                   | 25                          | 0.55        | IP45 |
| VENTS Quiet-Disc 100 (220 V/60 Hz) |       | 60             | 220         |                       |             |                                      |                             |             |      |
| VENTS Quiet-Disc 125               | -     | 50             | 220-240     | 17                    | 0.11        | 185                                  | 32                          | 0.78        |      |
| VENTS Quiet-Disc 125 (220 V/60 Hz) |       | 60             | 220         |                       |             |                                      |                             |             |      |
| VENTS Quiet-Disc 150               | max.  | 50/60          | 220-240     | 19                    | 0.09        | 315                                  | 33                          | 1.33        |      |
|                                    | min.  |                |             | 17                    |             | 28                                   |                             |             |      |
| VENTS Quiet-Disc Extra 150         | max.  | 50/60          | 220-240     | 22                    | 0.1         | 370                                  | 38                          | 1.33        | IP45 |
|                                    | min.  |                |             | 19                    |             | 32                                   |                             |             |      |

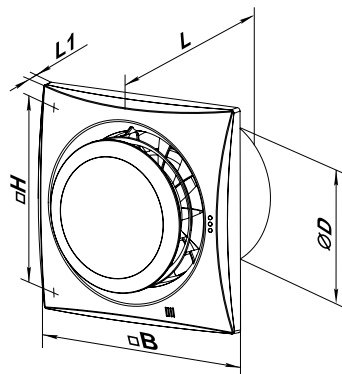
\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

## Aerodynamic characteristics



## Overall dimensions

| Model                      | Dimensions [mm] |     |     |     |    |
|----------------------------|-----------------|-----|-----|-----|----|
|                            | Ø D             | B   | H   | L   | L1 |
| VENTS Quiet-Disc 100       | 99              | 158 | 136 | 81  | 26 |
| VENTS Quiet-Disc 125       | 123.5           | 182 | 158 | 91  | 27 |
| VENTS Quiet-Disc 150       | 147.5           | 214 | 190 | 111 | 32 |
| VENTS Quiet-Disc Extra 150 |                 |     |     |     |    |

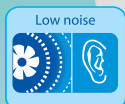


## Certificates



The fans meet the applicable safety and electromagnetic compatibility standards.

## VENTS Quiet Duo Series



Two-speed axial low-noise and low energy fans for exhaust ventilation with the capacity up to 170 m<sup>3</sup>/h

### Application

- Innovative exhaust fan with stylish design.
- Ideal for intermittent or continuous ventilation of bathroom, showers, kitchens and other utility spaces.
- Two-speed ventilation up to 170 m<sup>3</sup>/h.
- Permanent low-speed operation mode ensures continuous minimum air exchange in the room.
- Mounting into ventilation shafts or connection to Ø 100 mm and 125 mm air ducts.

### Design

- The casing and the impeller are made of high-quality and durable UV-resistant plastic.
- The specially designed aerodynamic profile of the mixed-flow impeller provides high air flow combined with low-noise operation.
- The compact design enables wall and ceiling installation.
- A shortened spigot for mounting into a ventilation shaft or direct connection to Ø 100 mm and 125 mm air duct.
- The fan is equipped with a specially designed back valve to prevent back flow and heat losses during the fan standby.

### Colour modifications



Quiet 100/125 Duo  
Red RAL 3013



Quiet 100/125 Duo  
Vintage



Quiet 100/125 Duo  
Chrome



Quiet 100/125 Duo  
Black sapphire

- The fan exhaust spigot incorporates specially designed air rectifiers to reduce air turbulence, noise level and boost air pressure.
- High ingress protection rating makes the fan the ideal solution for bathroom ventilation. The electronic components are protected with tight covers.

### Motor

- Low energy demand from 4 W due to a new two-speed high-efficient motor.
- Maintenance-free bearings contain enough grease for 40 000 hrs non-stop operation.
- Motor on special anti-vibration dampers for vibration absorbing and silent operation.
- Motor equipped with overheating protection.

### Modifications and Options\*



**Quiet Duo V:** modification with a pull cord switch.



**Quiet Duo T:** modification with a turn-off delay timer and interval timer – integrated function of automatic ventilation activation.

Once in 6, 14 or 24 hours the fan is switched on for up to 30 min to ventilate a premise with the low speed. On elapsing of the set run-out time the fan switches off automatically.



**Quiet Duo TH:** off-delay timer modification with a turn-off delay from 2 to 30 min and humidity sensor with an adjustable threshold from 60 to 90 %.

\* VENTS Quiet 100 Duo and VENTS Quiet 125 Duo with modifications T and TH are supplied with an integrated switch delay timer to avoid the fan unnecessary switching if you use your bathroom shortly and frequently. After humidity increases or after signalling from the external switch, the fan switches to higher speed not immediately, but after the set timer countdown (1 min).

### Operation modes of the fans with modifications T, TH:

The fan operates at the low speed by default. The fan switches to the high speed when the switch is closed or the humidity sensor is activated.

### Control

#### Manual control:

- Manual control with a room light switch. The switch is not included in the delivery set.

The fan is controlled by the built-in pull cord switch **V**. Not applied in case of ceiling mounting.

Speed control with the thyristor speed controller or speed switch P2-1-300, see Electrical Accessories. Several fans may be connected to the same controller. Speed controllers are not compatible with the fans with T, TH modification.

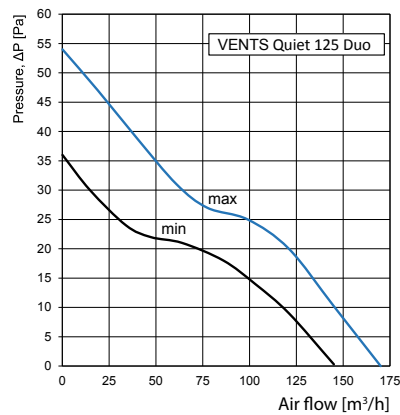
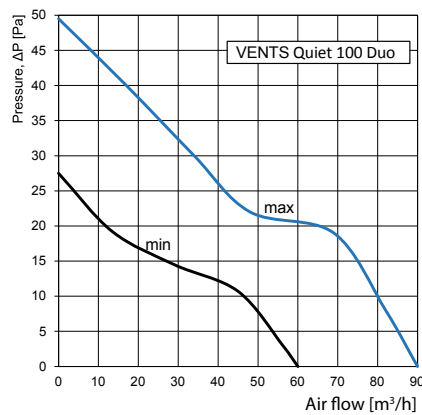
#### Automatic control:

- By the electronic control unit **BU-1-60** (see Electrical Accessories). The control unit is supplied separately.
- By the timer **T**. The built-in turn-off delay timer enables the fan operation at the high speed within 2 to 30 minutes after the fan switching off.
- By the humidity sensor and timer **TH**. If the humidity level in the room exceeds the sensor threshold within 60-90 % the fan switches automatically to the high speed and operates until the humidity level drops to the standard level. After that the fan continues operating within the set time period and then reverts to the standard operation mode with the low speed.

### Mounting features

- Installation directly inside a ventilation shaft.
- Flexible air ducts may be used in case of remote location of the ventilation shaft. The air duct is connected to the exhaust spigot with a fixing clamp.
- Wall mounting with screws.

## Aerodynamic characteristics



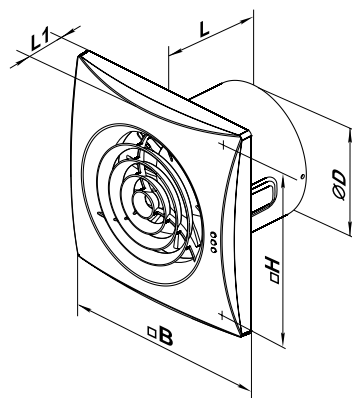
## Technical data

| Model               | Speed | Frequency [Hz] | Voltage [V] | Power consumption [W] | Current [A] | Maximum air capacity [m³/h] | Sound Pressure Level [dBA]* | Weight [kg] | IP   |
|---------------------|-------|----------------|-------------|-----------------------|-------------|-----------------------------|-----------------------------|-------------|------|
| VENTS Quiet 100 Duo | max   | 50             | 220-240     | 4                     | 0.029       | 60                          | 22                          | 0.55        | IP45 |
|                     | min   |                |             | 7.5                   | 0.052       | 90                          | 25                          |             |      |
| VENTS Quiet 125 Duo | max   | 50             | 220-240     | 9.5                   | 0.065       | 145                         | 28                          | 0.78        | IP45 |
|                     | min   |                |             | 13.5                  | 0.09        | 170                         | 32                          |             |      |

\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

## Overall dimensions

| Model               | Overall dimensions [mm] |     |     |    |    |
|---------------------|-------------------------|-----|-----|----|----|
|                     | Ø D                     | B   | H   | L  | L1 |
| VENTS Quiet 100 Duo | 99                      | 158 | 136 | 81 | 26 |
| VENTS Quiet 125 Duo | 123.5                   | 182 | 158 | 91 | 27 |



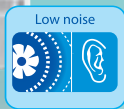
## Certificates



The fans meet the applicable safety and electromagnetic compatibility standards.



## VENTS Silenta-M Series



Low-noise and low-watt axial fans for exhaust ventilation with air flow up to 242 m<sup>3</sup>/h

### Application

- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation of premises with high noise level limitations.
- Ventilation shaft mounting or duct connection.
- Compatible with Ø 100, 125 and 150 mm air ducts.

### Design

- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- The fan and motor are specially designed for silent operation.
- Protection rating IP34.

### Motor

- Reliable motor with the minimum power consumption 7 W (for 100 mm diameter).
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

### Modifications and Options



**Silenta-M K** – fan is equipped with a backdraft damper for back flow preventing.



**Silenta-M L** – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.



**Silenta-MT** – equipped with a regulated timer with the operating time from 2 to 30 minutes.



**Silenta-MTH** – equipped with a timer with the operating time from 2 to 30 minutes and a humidity sensor with the threshold value from 60 to 90 %.



**Silenta-MV** – equipped with a pull cord switch.



**Silenta-MVT** – equipped with a pull cord switch and a regulated timer with the operating time adjustable from 2 to 30 minutes.



**Silenta-MVTH** – equipped with a pull cord switch, regulated timer with the operating time adjustable from 2 to 30 minutes and a humidity sensor with the operating threshold range from 60 to 90 %.



**Silenta-MTP** – equipped with a regulated timer and a motion sensor with the sensitivity area from 1 to 4 m and the detection angle up to 100°.

### Control

#### Manual:

- The fan is controlled by a room light switch. It is not included in the delivery package.
- The fan is controlled by the built-in pull cord switch **V**. Not applied in case of ceiling mounting.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may be connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modification.

#### Automatic:

- By the electronic control unit **BU-1-60** (see Electrical Accessories). The control unit is supplied separately.
- By the timer **T** (the built-in turn-off delay timer enables the fan operation within 2 to 30 minutes after the fan switching off).
- By the humidity sensor and timer **TH** (if the humidity level in the room exceeds the sensor threshold adjustable value within 60-90 % the fan switches automatically on and operates until the humidity level drops to the standard level, after that the fan continues operating within the time period according to the timer setting, then shuts down).
- By the motion sensor and the timer **TP** (in case of motion detection the fan switches automatically on and operates within the set time period from 2 to 30 minutes. The motion sensitivity area is up to 4 meters and the maximum detection angle is 100°).

### Mounting features

- The fan is mounted directly into the ventilation shaft.
- Flexible duct application is recommended in case of remote location of the ventilation shaft. The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to wall by self-tapping screws.
- Suitable for ceiling mounting.

### Accessories



Air ducts

Grilles and hoods

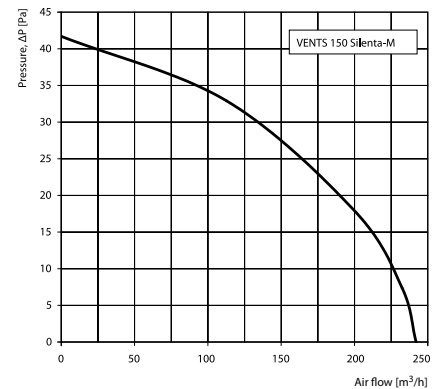
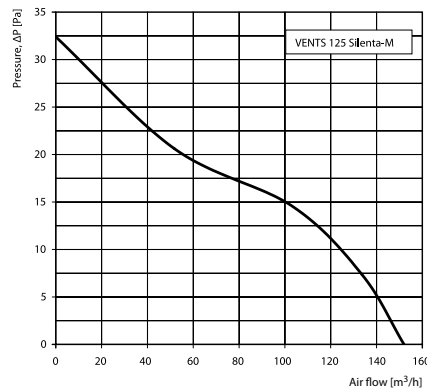
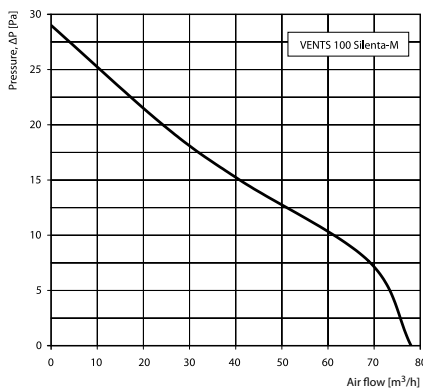
Backdraft damper

Speed controllers

Clamps



## Aerodynamic characteristics



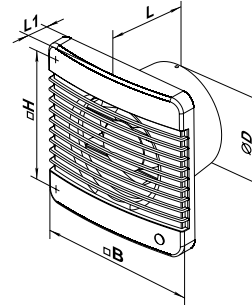
## Technical data

| Model                             | Frequency [Hz] | Voltage [V] | Power Consumption [W] | Current [A] | Maximum air capacity [m³/h] | Sound Pressure Level [dBA]* | Weight, kg |
|-----------------------------------|----------------|-------------|-----------------------|-------------|-----------------------------|-----------------------------|------------|
| VENTS 100 Silenta-M               | 50/60          | 220-240     | 7                     | 0.035       | 78                          | 26                          | 0.48       |
| VENTS 125 Silenta-M               | 50/60          | 220-240     | 9.1                   | 0.059       | 152                         | 31                          | 0.63       |
| VENTS 150 Silenta-M               | 50             | 220-240     | 20                    | 0.14        | 242                         | 33                          | 0.82       |
| VENTS 150 Silenta-M (220 V/60 Hz) | 60             | 220         |                       |             |                             |                             |            |

\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

## Overall dimensions

| Model               | Dimensions [mm] |     |     |     |    |
|---------------------|-----------------|-----|-----|-----|----|
|                     | Ø D             | B   | H   | L   | L1 |
| VENTS 100 Silenta-M | 100             | 159 | 135 | 89  | 23 |
| VENTS 125 Silenta-M | 125             | 180 | 150 | 94  | 25 |
| VENTS 150 Silenta-M | 150             | 206 | 182 | 106 | 26 |



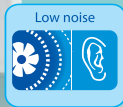
## Mounting example



## Certificates

The fans meet the applicable safety and electromagnetic compatibility standards.

## VENTS Silenta-S Series



Low noise and low watt axial fans for exhaust ventilation with the capacity up to 240 m<sup>3</sup>/h

### Application

- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation of premises with high noise level limitations.
- Ventilation shaft mounting or duct connection.
- Compatible with Ø 100, 125 and 150 mm air ducts.

### Design

- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- The fan and motor are specially designed for silent operation.
- Insect screen.
- Protection rating IP34.

### Motor

- Reliable motor with the minimum power consumption 7 W (for 100 mm diameter).
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

### Modifications and Options



**Silenta-S K** – fan is equipped with a backdraft damper for back flow preventing.



**Silenta-S L** – The motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.



**Silenta-ST** – equipped with a regulated timer with the operating time from 2 to 30 minutes.



**Silenta-STH** – equipped with a timer with the operating time from 2 to 30 minutes and a humidity sensor with the threshold value from 60 to 90 %.



**Silenta-SV** – equipped with a pull cord switch.



**Silenta-SVT** – equipped with a pull cord switch and a regulated timer with the operating time adjustable from 2 to 30 minutes.



**Silenta-SVTH** – equipped with a pull cord switch, regulated timer with the operating time adjustable from 2 to 30 minutes and a humidity sensor with the operating threshold range from 60 to 90 %.

### Control

#### Manual:

- The fan is controlled by a room light switch. It is not included in the delivery package.
- The fan is controlled by the built-in pull cord switch **V**. Not applied in case of ceiling mounting.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may be connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modification.

#### Automatic:

- By the electronic control unit **BU-1-60** (see Electrical Accessories). The control unit is supplied separately.
- By the timer **T** (the built-in turn-off delay timer enables the fan operation within 2 to 30 minutes after the fan switching off).
- By the humidity sensor and timer **TH** (if the humidity level in the room exceeds the sensor threshold adjustable value within 60-90 % the fan switches automatically on and operates until the humidity level drops to the standard level, after that the fan continues operating within the time period according to the timer setting, then shuts down).

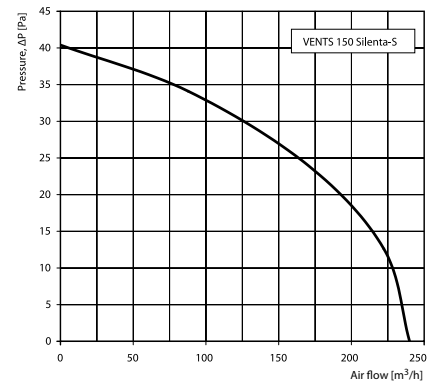
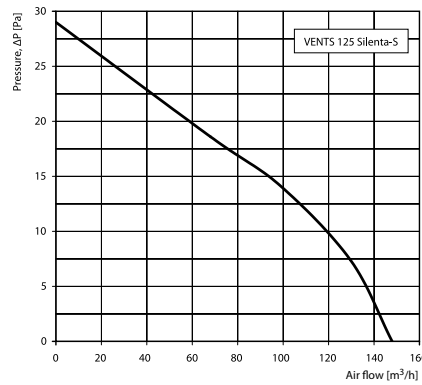
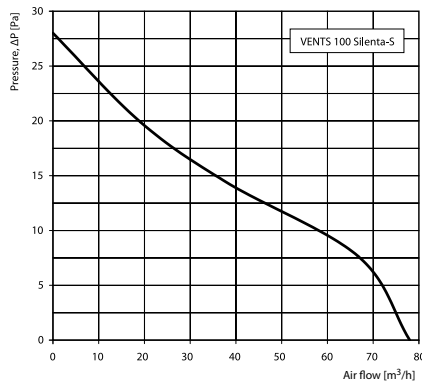
### Mounting features

- The fan is mounted directly into the ventilation shaft.
- Flexible duct application is recommended in case of remote location of the ventilation shaft. The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to wall by self-tapping screws.
- Suitable for ceiling mounting.

### Accessories



### Aerodynamic characteristics



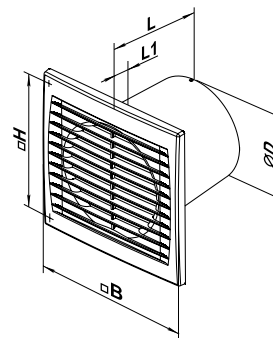
### Technical data

| Model                             | Frequency [Hz] | Voltage [V] | Power Consumption [W] | Current [A] | Maximum air capacity [m³/h] | Sound Pressure Level [dBA]* | Weight, kg |
|-----------------------------------|----------------|-------------|-----------------------|-------------|-----------------------------|-----------------------------|------------|
| VENTS 100 Silenta-S               | 50/60          | 220-240     | 7                     | 0.035       | 78                          | 26                          | 0.52       |
| VENTS 125 Silenta-S               | 50/60          | 220-240     | 9.3                   | 0.06        | 148                         | 31                          | 0.69       |
| VENTS 150 Silenta-S               | 50             | 220-240     | 20                    | 0.14        | 240                         | 33                          | 0.85       |
| VENTS 150 Silenta-S (220 V/60 Hz) | 60             | 220         |                       |             |                             |                             |            |

\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

### Overall dimensions

| Model               | Dimensions [mm] |     |     |     |    |
|---------------------|-----------------|-----|-----|-----|----|
|                     | ØD              | B   | H   | L   | L1 |
| VENTS 100 Silenta-S | 100             | 150 | 120 | 108 | 12 |
| VENTS 125 Silenta-S | 125             | 176 | 140 | 114 | 13 |
| VENTS 150 Silenta-S | 150             | 205 | 165 | 132 | 14 |



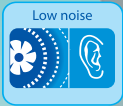
### Mounting example



### Certificates

The fans meet the applicable safety and electromagnetic compatibility standards.

## VENTS Style Series



Innovative domestic extract fan with automatic shutters, low-noise operation and low energy consumption with the capacity of up to 97 m<sup>3</sup>/h

### Application

- Innovative extract fan with stylish design for enhanced comfort level in shower rooms, bathrooms, kitchens, and other residential premises.
- Maximum air flow combined with low noise level provide the ideal microclimate.
- Intermittent or continuous ventilation of bathrooms, shower rooms, kitchens and other utility spaces.
- Mounting into ventilation shafts or connection to Ø 100 mm air ducts.

### Design


- The casing and the impeller are made of high-quality and durable UV-resistant plastic.
- Due to its modern look the fan is compatible with any interior design.
- Specially designed impeller aerodynamic profile provides high air flow and low noise.
- A shortened spigot for mounting into a ventilation shaft or direct connection to Ø 100 mm air ducts.
- The fan exhaust spigot incorporates specially designed air rectifiers to reduce air turbulence, noise level and boost air pressure.
- The removable ventilation unit enables easy maintenance.
- High ingress protection rating makes the fan an ideal bathroom ventilation solution. The electronic components are protected with tight covers.



- The integrated thermal actuator enables smooth opening and closing of the front panel to prevent backdrafting.

### Motor

- Reliable ball bearing motor with low energy demand.
- Maintenance-free bearings contain enough grease for 40 000 hrs of non-stop operation.
- Motor on special anti-vibration dampers for vibration absorbing and silent operation.
- Motor equipped with electric overheating protection.

### Modifications and options

 **VENTS 100 Style T:** equipped with a non-adjustable turn-on delay timer (60 s), an adjustable turn-off delay timer (from 2 to 30 minutes), and an interval timer (from 6 to 24 hours).

  **VENTS 100 Style TH:** equipped with a non-adjustable turn-on delay timer (60 s), an adjustable turn-off delay timer (from 2 to 30 minutes), and a humidity sensor adjustable from 60 % to 90 %.

### Control

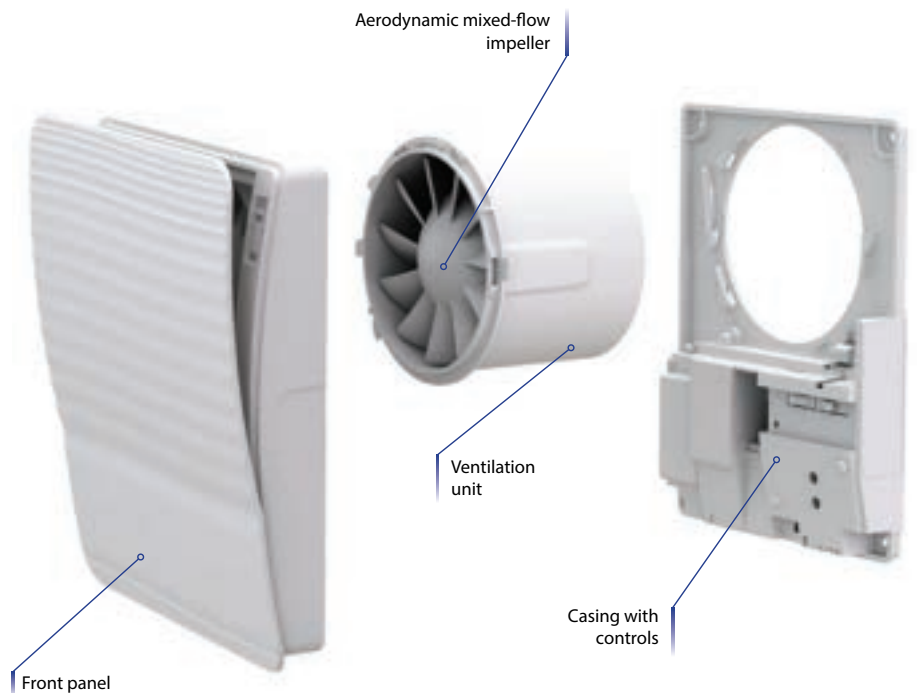
#### Manual

The fan is controlled by a room light switch (not included in the delivery set).

#### Automatic

- By the T timer. The built-in timer turns on the fan in 60 seconds after closing of the external switch and allows the fan to operate from 2 to 30 minutes after opening of the external switch. When the interval timer is activated, the fan will also turn on every 6, 12 or 24 hours depending on the selected interval and operate for the time specified by the turn-off delay timer (from 2 to 30 minutes).
- By the humidity sensor and the TH timer. If the humidity level in the room exceeds the sensor threshold (60-90 %), the fan will automatically turn on and continue running for 2-30 minutes (specified by the turn-off delay timer) after the humidity returns to normal levels. When the fan is turned on using the room light switch, it will turn on with a time delay of 60 s, and after opening the switch it will continue to operate for the time specified by the turn-off delay timer (from 2 to 30 minutes).

### Design features



### Accessories

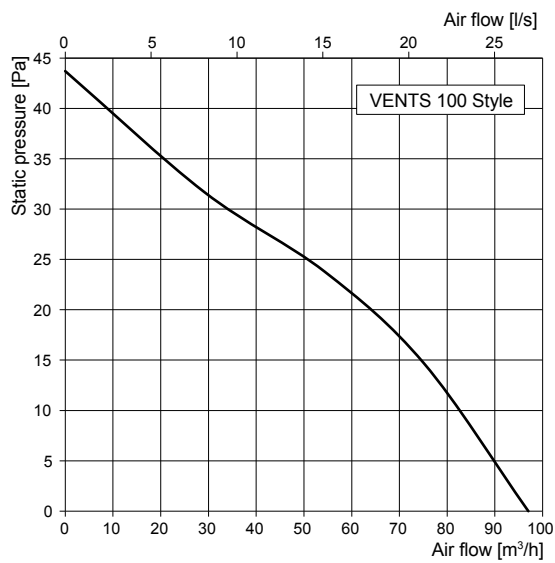


### Technical data

| Model                         | Frequency [Hz] | Voltage [V] | Power consumption [W] | Current [A] | RPM [min <sup>-1</sup> ] | Maximum air flow [m <sup>3</sup> /h] | Sound Pressure Level [dBA]* | Weight [kg] | IP |
|-------------------------------|----------------|-------------|-----------------------|-------------|--------------------------|--------------------------------------|-----------------------------|-------------|----|
| VENTS 100 Style               | 50             | 220-240     | 9                     | 0.059       | 2165                     | 97                                   | 25                          | 0.55        | 42 |
| VENTS 100 Style (220 V/60 Hz) | 60             | 220         |                       |             |                          |                                      |                             |             |    |

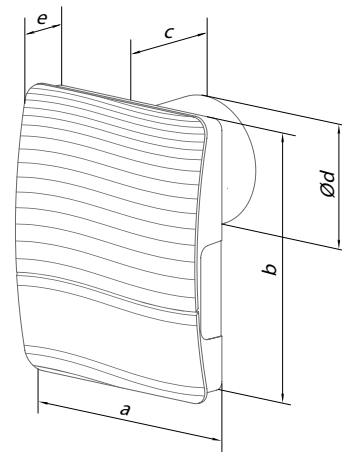
\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

### Aerodynamic characteristics



### Overall dimensions

| Model           | Dimensions [mm] |     |    |     |    |
|-----------------|-----------------|-----|----|-----|----|
|                 | a               | b   | c  | Ø d | e  |
| VENTS 100 Style | 175             | 221 | 77 | 99  | 39 |



### Mounting example



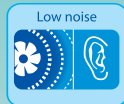
### Certificates



The fans meet the applicable safety and electromagnetic compatibility standards.



## VENTS Style Duo Series



Innovative two-speed domestic extract fan with automatic shutters, low-noise operation and low energy consumption with the capacity of up to 90 m<sup>3</sup>/h

### Application

- Innovative extract fan with stylish design for enhanced comfort level in shower rooms, bathrooms, kitchens, and other residential premises.
- Maximum air flow combined with low noise level provide the ideal microclimate.
- Intermittent or continuous ventilation of bathrooms, shower rooms, kitchens and other utility spaces.
- Mounting into ventilation shafts or connection to Ø 100 mm air ducts.

### Design

- The casing and the impeller are made of high-quality and durable UV-resistant plastic.
- Due to its modern look the fan is compatible with any interior design.
- Specially designed impeller aerodynamic profile provides high air flow and low noise.
- A shortened spigot for mounting into a ventilation shaft or direct connection to Ø 100 mm air ducts.
- The fan exhaust spigot incorporates specially designed air rectifiers to reduce air turbulence, noise level and boost air pressure.
- High ingress protection rating makes the fan an ideal bathroom ventilation solution. The electronic components are protected with tight covers.

- The integrated thermal actuator enables smooth opening and closing of the front panel to prevent backdrafting.



### Motor

- The motor is equipped with a new energy efficient two-speed ball bearing motor with low energy demand.
- Maintenance-free bearings contain enough grease for 40 000 hrs of non-stop operation.
- Motor on special anti-vibration dampers for vibration absorbing and silent operation.
- Motor equipped with electric overheating protection.

### Modifications and options



**VENTS 100 Style Duo T:** equipped with a non-adjustable turn-on delay timer (60 s), an adjustable turn-off delay timer (from 2 to 30 minutes), and an interval timer (from 6 to 24 hours).



**VENTS 100 Style Duo TH:** equipped with a non-adjustable turn-on delay timer (60 s), an adjustable turn-off delay timer (from 2 to 30 minutes), and a humidity sensor adjustable from 60 % to 90 %.

### Control

#### Manual:

- The fan is controlled by a room light switch (not included in the delivery set).

#### Automatic:

- By the T timer. The built-in timer switches the fan to high speed in 60 seconds after the external switch closes and allows it to operate at high speed for 2-30 minutes after the external switch opens. Then the fan returns to the previous operation mode. When the interval timer is activated, the fan will also turn on every 6, 12 or 24 hours depending on the selected interval and operate at the first speed for the time specified by the turn-off delay timer (from 2 to 30 minutes).
- By the humidity sensor and the TH timer. If the humidity level in the room exceeds the sensor threshold (60-90 %), the fan will automatically switch to high speed and continue running from 2 to 30 minutes (specified by the timer) after the humidity returns to normal levels. When the fan is turned on using the room light switch, it will turn on at low speed with a time delay of 60 s, and after opening the switch it will continue to operate for the time specified by the turn-off delay timer (from 2 to 30 minutes).



### Accessories

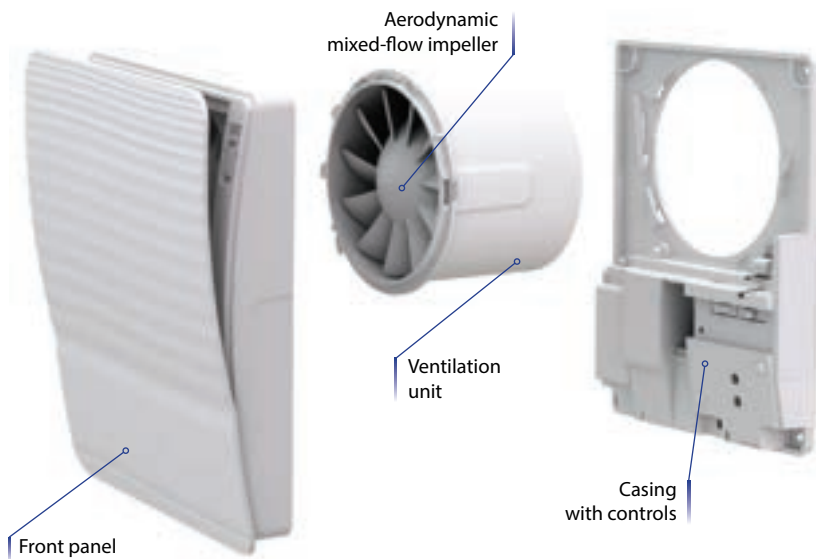


### Technical data

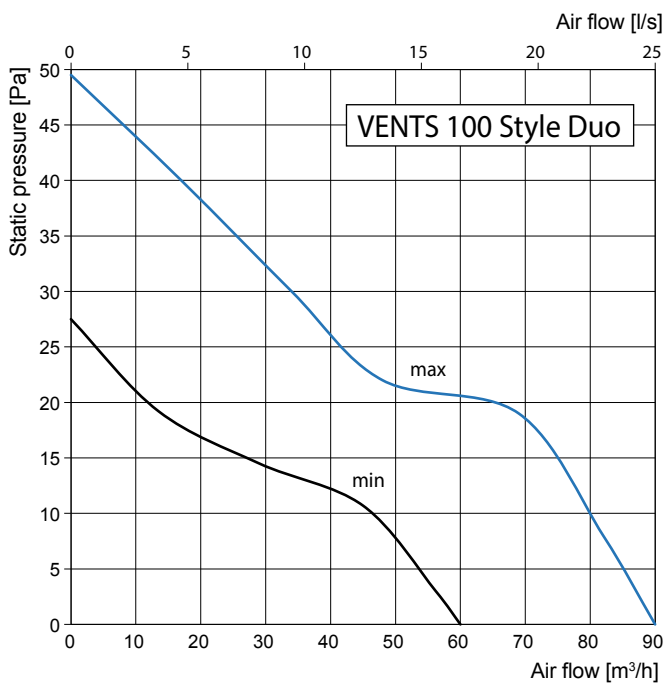
| Model               | Speed | Voltage [V/50 Hz] | Power consumption [W] | Current [A] | RPM [min <sup>-1</sup> ] | Maximum air flow [m <sup>3</sup> /h] | Sound Pressure Level [dBA]* | Weight [kg] | IP |
|---------------------|-------|-------------------|-----------------------|-------------|--------------------------|--------------------------------------|-----------------------------|-------------|----|
| VENTS 100 Style Duo | min   | 220-240           | 6                     | 0.039       | 1850                     | 60                                   | 22                          | 0.55        | 42 |
|                     | max   |                   | 8.5                   | 0.063       | 2400                     | 90                                   | 25                          |             |    |

\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

### Design features

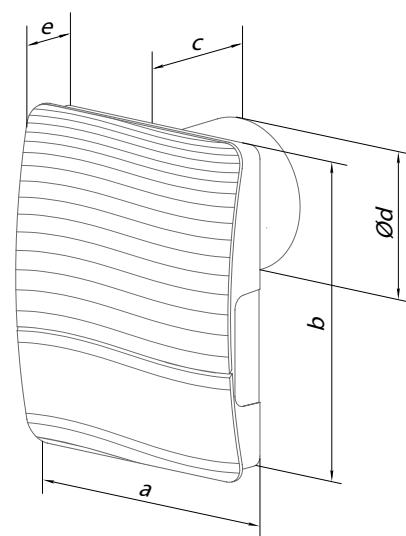


### Aerodynamic characteristics



### Overall dimensions

| Model               | Dimensions [mm] |     |    |     |    |
|---------------------|-----------------|-----|----|-----|----|
|                     | a               | b   | c  | Ø d | e  |
| VENTS 100 Style Duo | 175             | 221 | 77 | 99  | 39 |



### Certificates



The fans meet the applicable safety and electromagnetic compatibility standards.

## Series VENTS Solid



Low-noise and low-power  
extract axial fan with air flow  
up to 85 m<sup>3</sup>/h

### Application

- Permanent or intermittent extract ventilation of shower rooms, bathrooms, kitchens and other residential premises
- Ventilation of premises with high requirements to noise level.
- Mounting into ventilation shafts or connection to Ø 100 mm air ducts.

### Design

- Modern design and aesthetic look.
- The casing, the impeller and the front panel are made of high-quality and durable UV-resistant plastic.
- The specially designed aerodynamic profile of the mixed-flow impeller provides high air flow and pressure combined with low-noise operation.

### Colour modifications



**Solid**  
Front panel  
in white,  
basic model



**Solid Red**  
Front panel  
in red



**Solid Black  
Sapphire**  
Front panel  
in black



**Solid Dim**  
white matte  
front panel



**Solid Glass**  
front panel made  
of white  
natural glass



**Solid  
Glass Red**  
front panel made  
of red natural glass



**Solid  
Glass Black**  
front pane made of  
black natural glass



**Solid Alu**  
front panel  
with a stainless  
steel trim



**Solid Chrome**  
front panel with a  
polished stainless  
steel trim

- The fan is equipped with a specially designed backdraft damper to prevent back flow and heat losses during the fan standby.

- The fan exhaust spigot incorporates specially designed air rectifiers to reduce air turbulence, noise level and boost air pressure.

### Motor

- Reliable motor with low energy demand.
- Rated for continuous operation and is completely maintenance-free.
- Integrated overheating protection.

### Modifications and Options



**Solid L:** modification with a ball bearing motor for long service life (around 40 000 operating hours). Installation at any angle is possible. The ball bearings require no maintenance and are greased for the entire service life.



**Solid T:** modification with a regulated turn-off delay timer.



**Solid T1:** modification with a turn-on delay timer regulated from 10 seconds to 2 minutes and a turn-off delay timer regulated from 2 up to 30 minutes.



**Solid TH:** modification with a turn-off delay timer regulated from 2 up to 30 minutes and a humidity sensor regulated from 60 % up to 90 %.



**Solid V:** modification with a pull-cord switch.



**Solid VT:** modification with a pull-cord switch and a turn-off delay timer regulated from 2 up to 30 minutes.



**Solid VTH:** modification with a pull cord switch, turn-off delay timer regulated from 2 up to 30 minutes and a humidity sensor regulated from 60 % up to 90 %.

### Control

#### Manual control:

- Manual operation with a room light switch (not included in the delivery set).
- Operation with a built-in pull cord switch V. Not applicable in case of the ceiling mounting.

#### Automatic control:

- Control with the electronic control unit **BU-1-60** (see Electrical Accessories). The control unit is supplied separately.
- Control with the turn-off delay timer **T**. The built-in turn-off delay timer enables operation of the fan within 2 up to 30 minutes after turning the fan off with a switch.
- Control with the timer **T1**. After turning of the external switch the turn-on delay timer is activated for from 10 seconds to 2 minutes. The fan remains turned off. After the fan is turned off with the external switch the fan keeps running within 2 up to 30 minutes according to the settings of the turn-off delay timer.
- Control with the timer and humidity sensor **TH**. If the indoor humidity exceeds the set humidity point adjustable from 60 to 90 %, the fan switches automatically on and runs until the indoor humidity drops below the set humidity point. After that the fan continues running according to the timer settings and turns off.

### Mounting features

- Direct installation inside a ventilation shaft.
- Flexible air ducts may be used in case of remote location of the ventilation shaft. The air duct is connected to the exhaust spigot with a fixing clamp.
- Wall mounting with screws.
- Suitable for ceiling mounting.

### Accessories



Air ducts

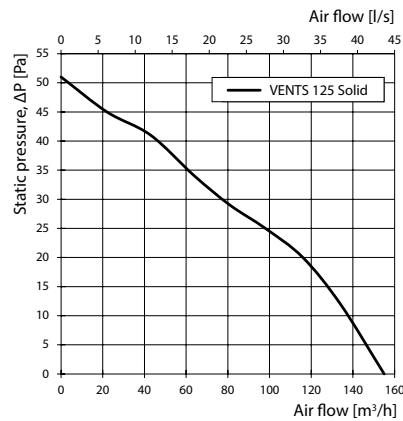
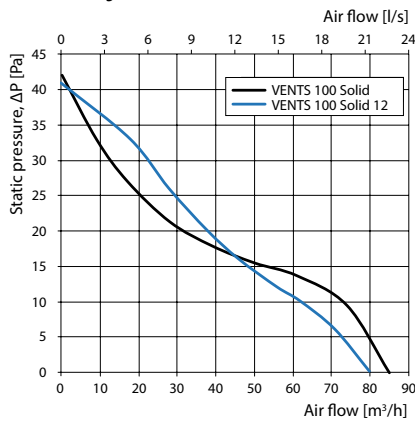
Grilles and hoods

Backdraft dampers

Speedcontrollers

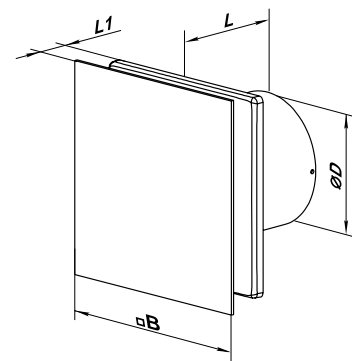
Clamps

### Aerodynamic characteristics



### Overall dimensions

| Model           | Dimensions [mm] |     |    |    |
|-----------------|-----------------|-----|----|----|
|                 | $\varnothing D$ | B   | L  | L1 |
| VENTS 100 Solid | 99.0            | 160 | 79 | 38 |
| VENTS 125 Solid | 123.5           | 180 | 85 | 38 |



### Technical data

| Model                         | Frequency [Hz] | Voltage [V] | Power consumption [W] | Current [A] | RPM [min <sup>-1</sup> ] | Maximum air flow [m <sup>3</sup> /h] | Sound Pressure Level [dBA]* | Weight [kg] | IP |
|-------------------------------|----------------|-------------|-----------------------|-------------|--------------------------|--------------------------------------|-----------------------------|-------------|----|
| VENTS 100 Solid               | 50             | 220-240     |                       |             |                          |                                      |                             |             |    |
| VENTS 100 Solid (220 V/60 Hz) | 60             | 220         | 8                     | 0.05        | 2000                     | 85                                   | 27                          | 0.51        | 44 |
| VENTS 100 Solid 12            | 50             | 12          | 9                     | 1.06        | 1950                     | 80                                   | 26                          | 0.51        | 44 |
| VENTS 125 Solid               | 50             | 220-240     |                       |             |                          |                                      |                             |             |    |
| VENTS 125 Solid (220 V/60 Hz) | 60             | 220         | 18                    | 0.11        | 2200                     | 155                                  | 32                          | 0.75        | 44 |

\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

### Mounting example



The fans meet the applicable safety and electromagnetic compatibility standards.



## Series VENTS Wave



Low-noise and low-power  
extract axial fan with  
air flow up to 85 m<sup>3</sup>/h

### Application

- Permanent or intermittent extract ventilation of shower rooms, bathrooms, kitchens and other residential premises
- Ventilation of premises with high requirements to noise level.
- Mounting into ventilation shafts or connection to Ø 100 mm air ducts.

### Design

- Modern design and aesthetic look.
- The casing, the impeller and the front panel are made of high-quality and durable UV-resistant plastic.
- The specially designed aerodynamic profile of the mixed-flow impeller provides high air flow and pressure combined with low-noise operation.
- The fan is equipped with a specially designed backdraft damper to prevent back flow and heat losses during the fan standby.
- The fan exhaust spigot incorporates specially designed air rectifiers to reduce air turbulence, noise level and boost air pressure.

### Motor

- Reliable motor with low energy demand.
- Rated for continuous operation and is completely maintenance-free.
- Integrated overheating protection

### Modifications and Options



**Wave L:** modification with a ball bearing motor for long service life (around 40 000 operating hours). Installation at any angle is possible. The ball bearings require no maintenance and are greased for the entire service life.



**Wave T:** modification with a regulated turn-off delay timer.



**Wave T1:** modification with a turn-on delay timer regulated from 10 seconds to 2 minutes and a turn-off delay timer regulated from 2 up to 30 minutes.



**Wave TH:** modification with a turn-off delay timer regulated from 2 up to 30 minutes and a humidity sensor regulated from 60 % up to 90 %.



**Wave V:** modification with a pull-cord switch.



**Wave VT:** modification with a pull-cord switch and a turn-off delay timer regulated from 2 up to 30 minutes.



**Wave VTH:** modification with a pull cord switch, turn-off delay timer regulated from 2 up to 30 minutes and a humidity sensor regulated from 60 % up to 90 %.



### Mounting features

- Direct installation inside a ventilation shaft.
- Flexible air ducts may be used in case of remote location of the ventilation shaft. The air duct is connected to the exhaust spigot with a fixing clamp.
- Wall mounting with screws.
- Suitable for ceiling mounting.

### Control

#### Manual control:

- Manual operation with a room light switch (not included in the delivery set).
- Operation with a built-in pull cord switch **V**. Not applicable in case of the ceiling mounting.

#### Automatic control:

- Control with the electronic control unit **BU-1-60** (see Electrical Accessories). The control unit is supplied separately.
- Control with the turn-off delay timer **T**. The built-in turn-off delay timer enables operation of the fan within 2 up to 30 minutes after turning the fan off with a switch.
- Control with the timer **T1**. After turning of the external switch the turn-on delay timer is activated for from 10 seconds to 2 minutes. The fan remains turned off. After the fan is turned off with the external switch the fan keeps running within 2 up to 30 minutes according to the settings of the turn-off delay timer.
- Control with the humidity sensor and timer **TH**. If the indoor humidity exceeds the set humidity point adjustable from 60 to 90 %, the fan switches automatically on and runs until the indoor humidity drops below the set humidity point. After that the fan continues running according to the timer settings and turns off.

### Accessories

Air ducts



Grilles and hoods



Backdraft dampers



Speed controllers

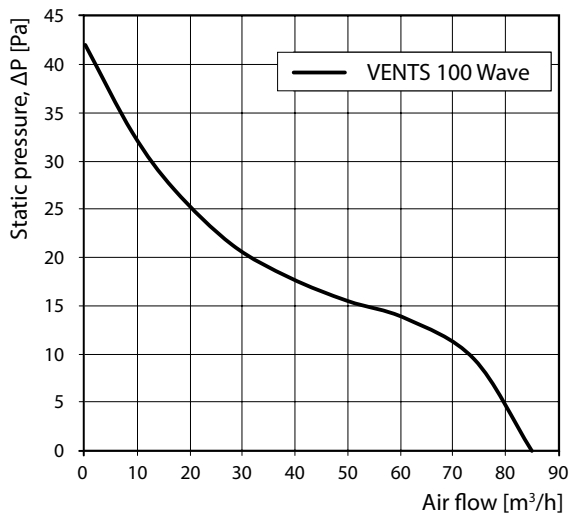


Clamps



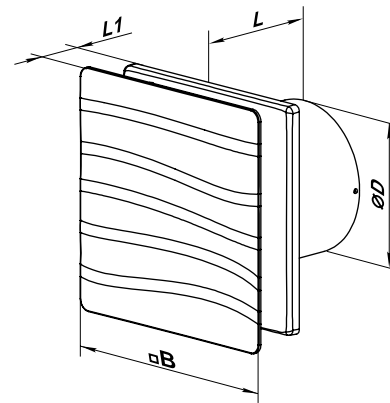


### Aerodynamic characteristics



### Overall dimensions

| Model          | Dimensions [mm] |     |    |    |
|----------------|-----------------|-----|----|----|
|                | Ø D             | B   | L  | L1 |
| VENTS 100 Wave | 99              | 160 | 79 | 38 |



### Technical data

| Model                        | Frequency [Hz] | Voltage [V] | Power consumption [W] | Current [A] | RPM [min <sup>-1</sup> ] | Maximum air flow [m³/h] | Sound Pressure Level [dBA]* | Weight [kg] | IP |
|------------------------------|----------------|-------------|-----------------------|-------------|--------------------------|-------------------------|-----------------------------|-------------|----|
| VENTS 100 Wave               | 50             | 220-240     | 8                     | 0.05        | 2000                     | 85                      | 27                          | 0.51        | 44 |
| VENTS 100 Wave (220 V/60 Hz) | 60             | 220         | 8                     | 0.05        | 2000                     | 85                      | 27                          | 0.51        | 44 |

\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

### Mounting example



### Certificates

The fans meet the applicable safety and electromagnetic compatibility standards.

## Series VENTS Flip



Low-noise and low-power  
extract axial fan with air flow  
up to 85 m<sup>3</sup>/h

### Application

- Permanent or intermittent extract ventilation of shower rooms, bathrooms, kitchens and other residential premises.
- Ventilation of premises with high requirements to noise level.
- Mounting into ventilation shafts or connection to Ø 100 mm air ducts.

### Design

- Modern design and aesthetic look.
- The casing, the impeller and the front panel are made of high-quality and durable UV-resistant plastic.
- The specially designed aerodynamic profile of the mixed-flow impeller provides high air flow and pressure combined with low-noise operation.
- The fan is equipped with a specially designed backdraft damper to prevent back flow and heat losses during the fan standby.
- The fan exhaust spigot incorporates specially designed air rectifiers to reduce air turbulence, noise level and boost air pressure.

### Motor

- Reliable motor with low energy demand.
- Rated for continuous operation and is completely maintenance-free.
- Integrated overheating protection.

### Modifications and Options



**Flip L:** modification with a ball bearing motor for long service life (around 40 000 operating hours). Installation at any angle is possible. The ball bearings require no maintenance and are greased for the entire service life.



**Flip T:** modification with a regulated turn-off delay timer.



**Flip T1:** modification with a turn-on delay timer regulated from 10 seconds to 2 minutes and a turn-off delay timer regulated from 2 up to 30 minutes.



**Flip TH:** modification with a turn-off delay timer regulated from 2 up to 30 minutes and a humidity sensor regulated from 60 % up to 90 %.



**Flip V:** modification with a pull-cord switch.



**Flip VT:** modification with a pull-cord switch and a turn-off delay timer regulated from 2 up to 30 minutes.



**Flip VTH:** modification with a pull-cord switch, turn-off delay timer regulated from 2 up to 30 minutes and a humidity sensor regulated from 60 % up to 90 %.

### Mounting features

- Direct installation inside a ventilation shaft.
- Flexible air ducts may be used in case of remote location of the ventilation shaft. The air duct is connected to the exhaust spigot with a fixing clamp.
- Wall mounting with screws.
- Suitable for ceiling mounting.

### Control

#### Manual control:

- Manual operation with a room light switch (not included in the delivery set).
- Operation with a built-in pull cord switch **V**. Not applicable in case of the ceiling mounting.

#### Automatic control:

- Control with the electronic control unit **BU-1-60** (see Electrical Accessories). The control unit is supplied separately.
- Control with the turn-off delay timer **T**. The built-in turn-off delay timer enables operation of the fan within 2 up to 30 minutes after turning the fan off with a switch.
- Control with the timer **T1**. After turning of the external switch the turn-on delay timer is activated for from 10 seconds to 2 minutes. The fan remains turned off. After the fan is turned off with the external switch the fan keeps running within 2 up to 30 minutes according to the settings of the turn-off delay timer.
- Control with the timer and humidity sensor **TH**. If the indoor humidity exceeds the set humidity point adjustable from 60 to 90 %, the fan switches automatically on and runs until the indoor humidity drops below the set humidity point. After that the fan continues running according to the timer settings and turns off.

### Accessories



Air ducts

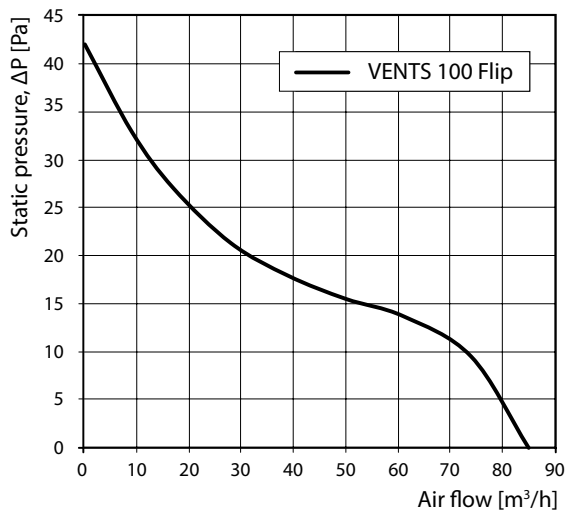
Grilles and hoods

Backdraft dampers

Speed controllers

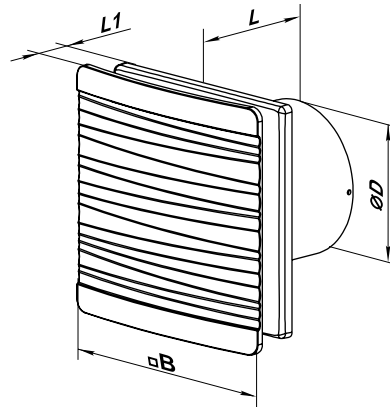
Clamps

### Aerodynamic characteristics



### Overall dimensions

| Model          | Dimensions [mm] |     |    |    |
|----------------|-----------------|-----|----|----|
|                | Ø D             | B   | L  | L1 |
| VENTS 100 Flip | 99              | 160 | 79 | 38 |



### Technical data

| Model                        | Frequency [Hz] | Voltage [V] | Power consumption [W] | Current [A] | RPM [min <sup>-1</sup> ] | Maximum air flow [m³/h] | Sound Pressure Level [dBA]* | Weight [kg] | IP |
|------------------------------|----------------|-------------|-----------------------|-------------|--------------------------|-------------------------|-----------------------------|-------------|----|
| VENTS 100 Flip               | 50             | 220-240     | 8                     | 0.05        | 2000                     | 85                      | 27                          | 0.51        | 44 |
| VENTS 100 Flip (220 V/60 Hz) | 60             | 220         | 8                     | 0.05        | 2000                     | 85                      | 27                          | 0.51        | 44 |

\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

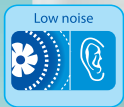
### Mounting example



### Certificates

The fans meet the applicable safety and electromagnetic compatibility standards.

## VENTS MF Series



Low-noise and energy saving axial fan for exhaust ventilation with air capacity up to 255 m<sup>3</sup>/h

### Applications

- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation of premises with high noise level limitations.
- Mounting into ventilation shafts or connection to Ø100, 125 and 150 mm air ducts.

### Design

- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- Specially designed impeller aerodynamic profile provides high air capacity and low noise.
- The fan is equipped with a back valve to prevent back flow and heat losses during the fan standby.
- The fan exhaust spigot incorporates specially designed air rectifiers to reduce air turbulence, increase air pressure and lower noise level.

### Motor

- Low energy demand from 8 W due to new high-efficient motor.
- Protection rating IP 44.
- Designed for continuous operation and requires no maintenance.
- Motor equipped with overheating protection.

### Modifications and Options



**MF L** – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.



**MF T** – off-delay timer modification with operating time from 2 to 30 min.



**MF T1** – modification with turn-on delay timer (adjustable from 0 to 2 minutes) and off-delay timer (adjustable from 2 to 30 minutes).



**MF TH** – off-delay timer modification with the operating time from 2 to 30 min and humidity sensor with threshold from 60 to 90%.



**MF V** – pull-cord switch modification.



**MF VT** – modification with pull-cord switch and off-delay timer with operating time from 2 to 30 min.



**MF VTH** – modification with pull-cord switch, off-delay timer with operating time from 2 to 30 min and humidity sensor with threshold from 60 to 90%.

### Control

#### Manual control:

- Manual control with a room light switch. The switch is not included into delivery set.
- The fan is controlled by the built-in pull cord switch **V**. Not applied in case of ceiling mounting.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may be connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modification.

#### Automatic:

- By the electronic control unit **BU-1-60**. The control unit is supplied separately.
- By the timer **T** (the built-in run-out timer enables the fan operation within 2 to 30 minutes after the fan switching off).
- By the humidity sensor and timer **TH** (if the humidity level in the room exceeds the sensor threshold adjustable value within 60-90% the fan switches automatically on and operates until the humidity level drops to the standard level, after that the fan continues operating within the time period according to the timer setting, then shuts down).

### Mounting features

- The fan is mounted directly into the ventilation shaft.
- Flexible duct application is recommended in case of remote location of the ventilation shaft.
- The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to wall by self-tapping screws.
- Suitable for ceiling mounting.

### Accessories



Air ducts

Grilles and hoods

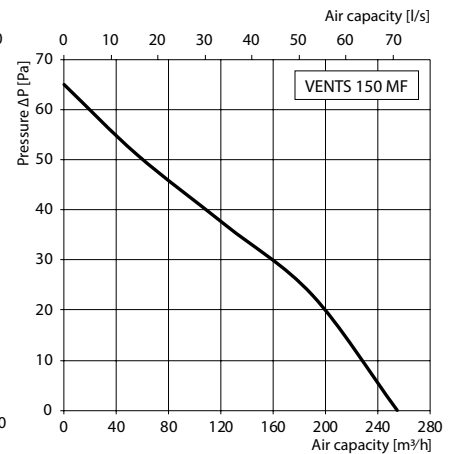
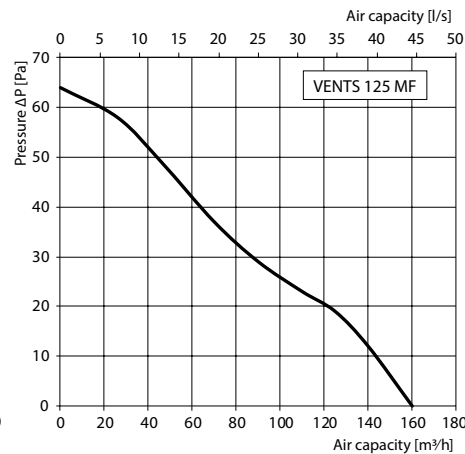
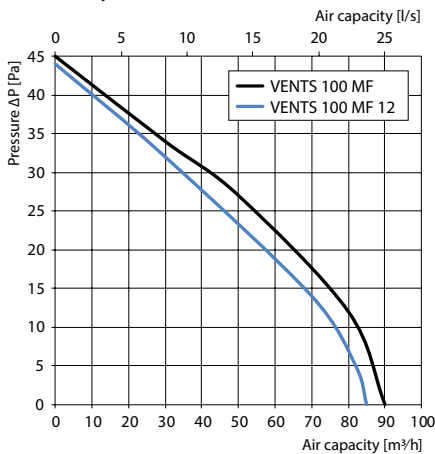
Backdraft damper

Speed controllers

Clamps



### Aerodynamic characteristics



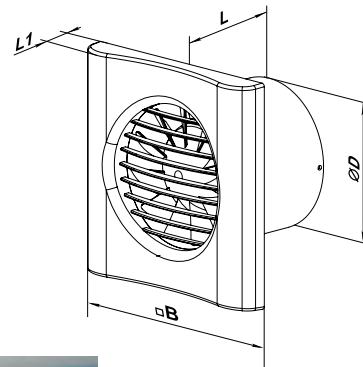
### Technical data

| Model                      | Frequency [Hz] | Voltage [V] | Power Consumption [W] | Current [A] | R.p.m. | Maximum air flow [m³/h] | Sound Pressure Level [dBA]* | Weight [kg] |
|----------------------------|----------------|-------------|-----------------------|-------------|--------|-------------------------|-----------------------------|-------------|
| VENTS 100 MF               | 50             | 220-240     | 8                     | 0.05        | 2165   | 90                      | 29                          | 0.45        |
| VENTS 100 MF (220 V/60 Hz) | 60             |             |                       |             |        |                         |                             |             |
| VENTS 100 MF 12            | 50             | 12          | 8                     | 1.02        | 2075   | 85                      | 28                          | 0.45        |
| VENTS 125 MF               | 50             | 220-240     | 18                    | 0.11        | 2200   | 160                     | 34                          | 0.80        |
| VENTS 125 MF (220 V/60 Hz) | 60             |             |                       |             |        |                         |                             |             |
| VENTS 150 MF               | 230            | 220-240     | 28                    | 0.21        | 1545   | 255                     | 35                          | 0.97        |

\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

### Overall dimensions

| Model        | Dimensions [mm] |     |     |    |
|--------------|-----------------|-----|-----|----|
|              | Ø D             | B   | L   | L1 |
| VENTS 100 MF | 99              | 150 | 79  | 19 |
| VENTS 125 MF | 124             | 180 | 85  | 21 |
| VENTS 150 MF | 148             | 205 | 112 | 23 |



### Mounting example



### Certificates



The fans meet the applicable safety and electromagnetic compatibility standards.



## Series VENTS MF Duo



Two-speed axial low-noise and low energy fans for exhaust ventilation with air flow up to 300 m<sup>3</sup>/h

### Application

- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens, and other residential premises.
- Ventilation of premises with high requirements to noise level.
- Permanent low-speed operation mode ensures continuous air exchange in the room.
- Ventilation shaft mounting or connection to Ø 100, 125 and 150 mm air ducts.

### Design

- The casing and the impeller are made of high-quality durable plastic, UV resistant.
- The aerodynamic design of the impeller ensures high air flow and low noise level.
- The fan is equipped with a specially designed backdraft damper to prevent back flow and heat losses during the fan standby.
- The fan outlet spigot incorporates specially designed air rectifiers to reduce air turbulence, noise level and increase air pressure.

### Motor

- Low energy demand from 5 W due to a new two-speed high-efficient motor.
- Ingress protection rating IP44.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

### Modifications and options



**MF L Duo** – the motor is equipped with ball bearings to increase the service life (about 40 thousand operating hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.



**MF T1 Duo** – equipped with an adjustable high-speed turn-on delay timer (from 0 to 2 minutes) and an adjustable high-speed turn-off delay timer (from 2 to 30 minutes).



**MF TH Duo** – equipped with an adjustable turn-off delay timer (from 2 to 30 minutes) and a fixed turn-on delay timer (45 s) with a humidity sensor adjustable from 60 % to 90 %.

### Control

#### Manual:

- The fan is operated via a light switch (not included in the delivery set).

#### Automatic:

- By the **T1** timer. When the external switch is turned on, the fan switches to a higher speed with a delay of 0 to 2 minutes. When the external switch is turned off, the fan will return to a low speed with a delay of 2 to 30 minutes.
- By the humidity sensor and the **TH** timer. If the humidity level in the room exceeds the sensor threshold (60-90 %), the fan will automatically switch to a higher speed and will continue running until humidity returns to normal levels. Then the fan runs for 5 minutes at a high speed and switches to a low speed. The fan with a timer and TH humidity sensor can also be controlled in manual mode, for example, using the light switch. When the control voltage is applied, the turn-on delay timer is activated for 45 seconds and the fan switches to the second speed. After disconnecting the control voltage, the fan runs for a time set by the turn-off delay timer (from 2 to 30 minutes), and switches to the first speed.

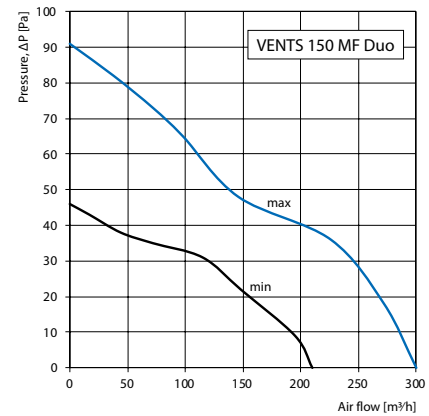
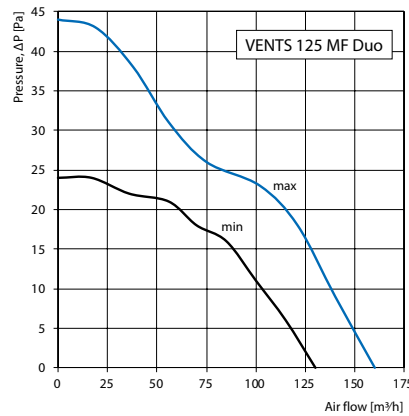
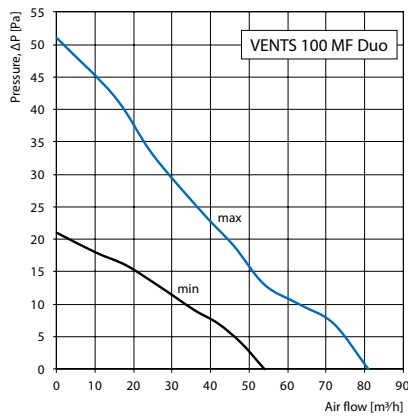
### Mounting features

- The fan is mounted directly into the ventilation shaft.
- Flexible duct connection is recommended in case of the remote ventilation shaft location. The air duct is connected to the fan exhaust flange through a clamp.
- Wall fixing with screws.
- Suitable for ceiling mounting.

### Accessories



## Aerodynamic characteristics



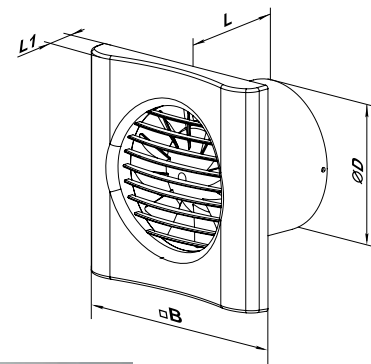
## Technical data

| Model            | Speed | Frequency [Hz] | Voltage [V] | Power [W] | Current [A] | Maximum air flow [m³/h] | RPM [min <sup>-1</sup> ] | Sound Pressure Level [dBA]* | Weight [kg] | IP Code |
|------------------|-------|----------------|-------------|-----------|-------------|-------------------------|--------------------------|-----------------------------|-------------|---------|
| VENTS 100 MF Duo | min.  | 50             | 220-240     | 5         | 0.030       | 54                      | 1800                     | 23                          | 0.55        | IP44    |
|                  | max.  |                |             | 8         | 0.050       | 81                      | 2100                     | 28                          |             |         |
| VENTS 125 MF Duo | min.  | 50             | 220-240     | 10        | 0.068       | 130                     | 1100                     | 29                          | 0.78        | IP44    |
|                  | max.  |                |             | 14        | 0.092       | 160                     | 1800                     | 33                          |             |         |
| VENTS 150 MF Duo | min.  | 50             | 220-240     | 18        | 0.079       | 210                     | 1520                     | 29                          | 0.97        | IP44    |
|                  | max.  |                |             | 21        | 0.085       | 300                     | 2050                     | 35                          |             |         |

\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

## Overall dimensions

| Model            | Dimensions [mm] |     |     |    |
|------------------|-----------------|-----|-----|----|
|                  | Ø D             | B   | L   | L1 |
| VENTS 100 MF Duo | 99              | 150 | 79  | 19 |
| VENTS 125 MF Duo | 124             | 180 | 85  | 21 |
| VENTS 150 MF Duo | 148             | 205 | 112 | 23 |



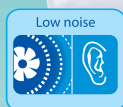
## Application example



## Certificates

The fans meet the applicable safety and electromagnetic compatibility standards.

## VENTS Casto Series



Low-noise and energy saving axial fan for exhaust ventilation with air flow up to 255 m<sup>3</sup>/h

### Application

- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation of premises with high noise level limitations.
- Mounting into ventilation shafts or connection to Ø100 and 150 mm air ducts.

### Design

- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- Specially designed impeller aerodynamic profile provides high air flow and low noise.
- The fan is equipped with a back valve to prevent back flow and heat losses during the fan standby.
- The fan exhaust spigot incorporates specially designed air rectifiers to reduce air turbulence, increase air pressure and lower noise level.

### Motor

- Low energy demand from 8 W due to new high-efficient motor.
- Designed for continuous operation and requires no maintenance.
- Motor equipped with overheating protection.

### Modifications and Options



**Casto L** – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.



**Casto T** – an adjustable turn-off delay timer modification with operating time from 2 to 30 min.



**Casto T1** – modification with a turn-on delay timer (adjustable from 0 to 2 minutes) and a turn-off delay timer (adjustable from 2 to 30 minutes).



**Casto TH** – an adjustable timer modification with the operating time from 2 to 30 min and a humidity sensor with threshold from 60 to 90%.



**Casto V** – a pull-cord switch modification.



**Casto VT** – modification with a pull-cord switch and an adjustable timer with operating time from 2 to 30 min.



**Casto VTH** – modification with a pull-cord switch, an adjustable timer with operating time from 2 to 30 min and a humidity sensor with threshold from 60 to 90%.

### Control

#### Manual control:

- Manual control by a room light switch. The switch is not included into the delivery set.
- The fan is controlled by the built-in pull cord switch **V**. Not applied in case of ceiling mounting.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modification.

#### Automatic:

- By the electronic control unit **BU-1-60** (see Electrical Accessories). The control unit is supplied separately.
- By the timer **T** (the built-in adjustable turn-off delay timer enables the fan to operate within 2 to 30 minutes after the fan switching off).
- By the timer **T1** (the built-in adjustable turn-on and turn-off delay timer turns on the fan in 0...2 min after the switch provides a control signal and allows it to operate from 2 to 30 minutes after opening of the switch).
- By a humidity sensor and timer **TH** (if the humidity level in the room exceeds the sensor threshold adjustable value within 60-90% the fan switches automatically on and operates until the humidity level drops to the standard level, after that the fan continues operating within the time period according to the timer setting, then shuts down).

### Mounting features

- The fan is mounted directly into the ventilation shaft.
- Flexible duct application is recommended in case of remote location of the ventilation shaft.
- The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to the wall by self-tapping screws.
- Can be ceiling mounted in case the fan is ordered with ball bearings (Casto L modification).

### Accessories



Air ducts

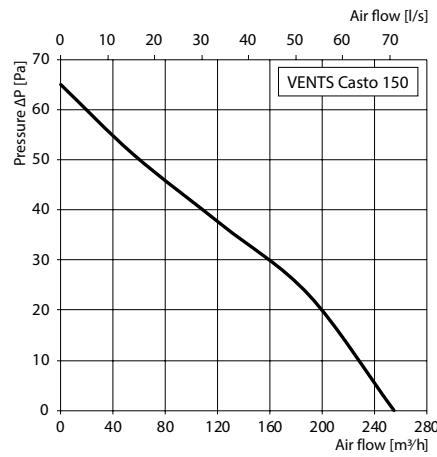
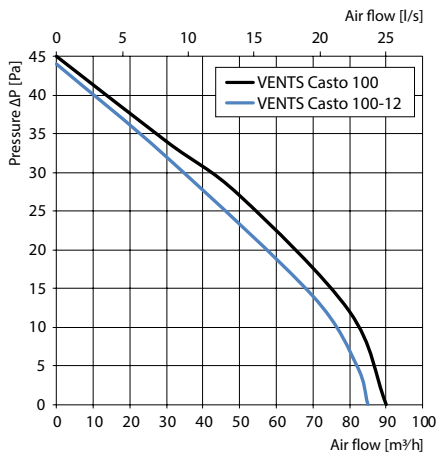
Grilles and hoods

Backdraft damper

Speed controller

Clamps

### Aerodynamic characteristics



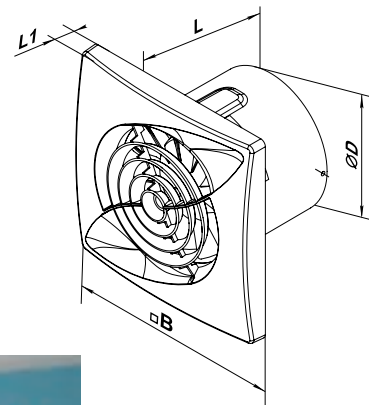
### Technical data

| Model                         | Frequency | Voltage | Power Consumption | Current | Maximum Air Flow |       | Specific Power | Sound Pressure Level [dBA]* | Weight | IP   |
|-------------------------------|-----------|---------|-------------------|---------|------------------|-------|----------------|-----------------------------|--------|------|
|                               |           |         |                   |         | [m³/h]           | [l/s] |                |                             |        |      |
| VENTS Casto 100               | 50        | 220-240 |                   |         |                  |       |                |                             |        |      |
| VENTS Casto 100 (220 V/60 Hz) | 60        | 220     | 8                 | 0.05    | 90               | 25    | 0.32           | 29                          | 0.45   | IP44 |
| VENTS Casto 100-12            | 50        | 12      | 8                 | 1.02    | 85               | 24    | 0.34           | 28                          | 0.45   | IP44 |
| VENTS Casto 150               | 50        | 220-240 | 28                | 0.21    | 255              | 71    | 0.39           | 35                          | 0.97   | IP44 |

\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

### Overall dimensions

| Model           | Dimensions [mm] |     |     |    |
|-----------------|-----------------|-----|-----|----|
|                 | Ø D             | B   | L   | L1 |
| VENTS Casto 100 | 99              | 150 | 79  | 23 |
| VENTS Casto 150 | 148             | 206 | 112 | 23 |



### Mounting example



### Certificates



The fans meet the applicable safety and electromagnetic compatibility standards.

## Series VENTS Casto Duo



Two-speed axial low-noise and low energy fans for exhaust ventilation with air flow up to 300 m<sup>3</sup>/h

### Application

- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens, and other residential premises.
- Ventilation of premises with high requirements to noise level.
- Permanent low-speed operation mode ensures continuous air exchange in the room.
- Ventilation shaft mounting or connection to Ø 100 and 150 mm air ducts.

### Design

- The casing and the impeller are made of high-quality durable plastic, UV resistant.
- The aerodynamic design of the impeller ensures high air flow and low noise level.
- The fan is equipped with a specially designed backdraft damper to prevent back flow and heat losses during the fan standby.
- The fan outlet spigot incorporates specially designed air rectifiers to reduce air turbulence, noise level and increase air pressure.

### Motor

- Low energy demand from 5 W due to a new two-speed high-efficient motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

### Modifications and options



**Casto L Duo** – the motor is equipped with ball bearings to increase the service life (about 40000 of operating hours) and a fan, mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.



**Casto T1 Duo** – equipped with an adjustable high-speed turn-on delay timer (from 0 to 2 minutes) and an adjustable high-speed turn-off delay timer (from 2 to 30 minutes).



**Casto TH Duo** – equipped with an adjustable turn-off delay timer (from 2 to 30 minutes) and a fixed turn-on delay timer (45 s) with a humidity sensor adjustable from 60 % to 90 %.

### Control

#### Manual:

- The fan is operated via light switch (not included in the delivery set).

#### Automatic:

- By the **T1** timer. When the external switch is turned on, the fan switches to a higher speed with a delay of 0 to 2 minutes. When the external switch is turned off, the fan will return to a low speed with a delay of 2 to 30 minutes.
- By a humidity sensor and the **TH** timer. If the humidity level in the room exceeds the sensor threshold (60-90 %), the fan will automatically switch to a higher speed and will continue running until humidity returns to normal levels. Then the fan runs for 5 minutes at a high speed and switches to a low speed. The fan with the **TH** timer and a humidity sensor can also be controlled in manual mode, for example, using the light switch. When the control voltage is applied, the turn-on delay timer is activated for 45 seconds and the fan switches to the second speed. After disconnecting the control voltage, the fan runs for a time set by the turn-off delay timer (from 2 to 30 minutes), and switches to the first speed.

### Mounting features

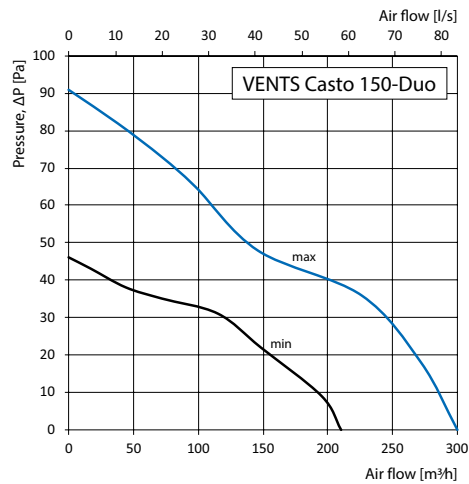
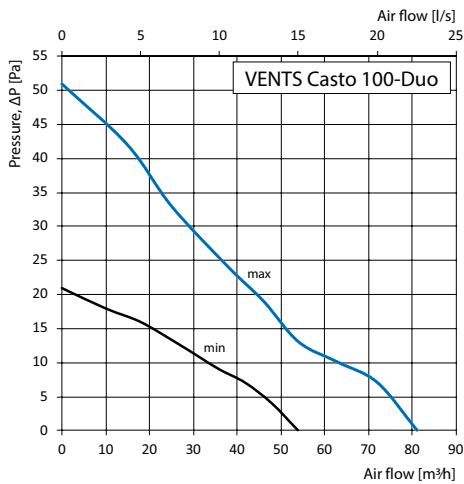
- The fan is mounted directly into the ventilation shaft.
- Flexible duct connection is recommended in case of the remote ventilation shaft location. The air duct is connected to the fan exhaust flange by means of a clamp.
- Wall fixing with screws.
- Suitable for ceiling mounting.

### Accessories





### Aerodynamic characteristics



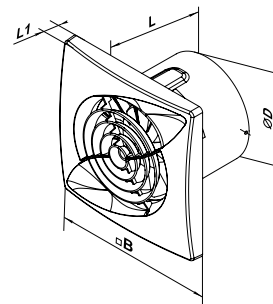
### Technical data

| Model               | Speed | Frequency | Voltage | Power Consumption | Current | Maximum Air Flow |       | Specific Power | Sound Pressure Level [dBA]* | Weight | IP   |
|---------------------|-------|-----------|---------|-------------------|---------|------------------|-------|----------------|-----------------------------|--------|------|
|                     |       |           |         |                   |         | [m³/h]           | [l/s] |                |                             |        |      |
| VENTS Casto 100-Duo | min.  | 50        | 220-240 | 5                 | 0.030   | 54               | 15    | 0.33           | 23                          | 0.55   | IP44 |
|                     | max.  |           |         | 8                 | 0.050   | 81               | 23    | 0.35           | 28                          |        |      |
| VENTS Casto 150-Duo | min.  | 50        | 220-240 | 18                | 0.079   | 210              | 58    | 0.31           | 29                          | 0.97   | IP44 |
|                     | max.  |           |         | 21                | 0.085   | 300              | 83    | 0.25           | 35                          |        |      |

\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

### Overall dimensions

| Model               | Dimensions [mm] |     |     |    |
|---------------------|-----------------|-----|-----|----|
|                     | Ø D             | B   | L   | L1 |
| VENTS Casto 100-Duo | 99              | 150 | 79  | 23 |
| VENTS Casto 150-Duo | 148             | 206 | 112 | 23 |



### Application example



### Certificates

The fans meet the applicable safety and electromagnetic compatibility standards.

# AXIAL INLINE FANS

## ▶ VENTS Quietline Series



Axial inline fans, for exhaust or supply ventilation with the capacity up to 375 m<sup>3</sup>/h. Compatible with Ø 100, 125 and 150 mm air ducts.

## ▶ VENTS VKO and VKOk Series



Axial inline fans, for exhaust or supply ventilation with the capacity up to 358 m<sup>3</sup>/h. Compatible with Ø 100, 125 and 150 mm air ducts.

## ▶ VENTS VKO1 and VKO1k Series



Axial inline fans, for exhaust or supply ventilation with the capacity up to 365 m<sup>3</sup>/h. Compatible with Ø 100, 125 and 150 mm air ducts.



**Axial inline fans  
VENTS Quietline Series**

Air flow up to 375 m<sup>3</sup>/h

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**Axial inline fans  
VENTS VKO Series**

Air flow up to 358 m<sup>3</sup>/h

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**Axial inline fans with a fixing bracket  
VENTS VKOk Series**

Air flow up to 358 m<sup>3</sup>/h

page  
80



**Axial inline fans  
VENTS VKO1 Series**

Air flow up to 365 m<sup>3</sup>/h

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**Axial inline fans with a fixing bracket  
VENTS VKO1k Series**

Air flow up to 365 m<sup>3</sup>/h

page  
82

## VENTS Quietline Series



Brand new low-noise axial inline fans, for exhaust or supply ventilation with superior capacity up to 375 m<sup>3</sup>/h

### Application

- Innovative stylish extract or supply fans for enhanced comfort level.
- Continuous or periodic ventilation of bathroom, showers, kitchens and other utility spaces.
- Maximum air flow combined with low noise level ensures an ideal room microclimate.
- Exhaust or supply ventilation depending on fan installation in the system.
- Designed for plastic (flexible) ducts.
- Transportation of low and medium air flow volumes for small distances at low air resistance in the ventilation system.
- Compatible with Ø 100, 125 and 150 mm air ducts.

### Motor

- Reliable ball bearing motor with low energy demand from 4.5 W.
- VENTS Quietline models are equipped with a single-phase single or two speed motor (Quietline Duo and Quietline Extra modifications).
- The integrated thermal overheating protection prevents motor overload.
- The motor rests on rubber anti-vibration connectors to ensure low-noise operation of the fan (except for VENTS Quietline 150 Q).

### Modifications and Options



**Quietline Extra:** modification with a two speed high-powered motor.



**Quietline Duo:** modification with a reliable single-phase two speed motor.



**Quietline Q:** modification with a low-speed motor for quiet operation.



**Quietline 12:** modification with a low voltage 12V AC motor.



**Quietline K:** modification with a backdraft damper for back flow prevention.



**Quietline T:** modification with a regulated timer with the operating time adjustable from 2 to 30 minutes.

**Quietline R:** modification with a power cord and IEC C14 electric plug.

**Quietline-k:** modification with a fixing bracket for flat surface mounting.

### Operation modes of fans with timer

Operation modes for T modifications of VENTS Quietline 100, VENTS Quietline 125, VENTS Quietline 150 and VENTS Quietline 150 Extra models are selected by setting the DIP switch in required position.

#### Mode 1

- The fan is turned off by default. The fan starts operating at the low speed when the switch is closed.

#### Mode 2

- The fan is turned off by default. The fan starts operating at the high speed when the switch is closed.

#### Mode 3 (two-speed mode)

- The fan operates at the low speed by default. The fan switches to the high speed when the switch is closed.

#### Mode 4 (automatic interval mode)

- The fan operates at the low speed by default. The fan switches to the high speed each set time period (adjustable from 1 to 15 hours) and operates up to 30 min to ventilate the premise with maximum capacity. After that the fan models back to the continuous operation at low speed.

### Control

#### Manual speed control:

- The fan is controlled by a room light switch. It is not included in the delivery package.
- Speed control is performed with SRS-1 and RS-1-0,5 thyristor speed controller (applicable for the models without timer). Optionally, speed control for VENTS Quietline 100 Duo, VENTS Quietline 125 Duo, VENTS Quietline 150 Duo, VENTS Quietline 150 Extra may be performed with P2-1-300 speed switch (for details, see Electrical Accessories).

#### Automatic speed control:

- With **BU-1-60** electronic control unit (for details, see Electrical Accessories). Available upon separate order.
- With timer T (integrated turn-off delay timer keeps the fan operating 2 up to 30 minutes after turning the fan off).

### Mounting features

- The fan is mounted into a matching duct size. Fastening with clamps in case of flexible duct connection.
- The mounting bracket enables fan installation on both horizontal and vertical flat surfaces (**Quietline-k** model).
- Serial mounting of two fans boosts the operation pressure.
- For 12 V low-voltage motor fan connection to 220 V/50 Hz power mains use the step-down transformer TRF 220/12-25 (available upon separate order).

### Accessories



Diffusers and air disk valves

Air ducts

Grilles and hoods

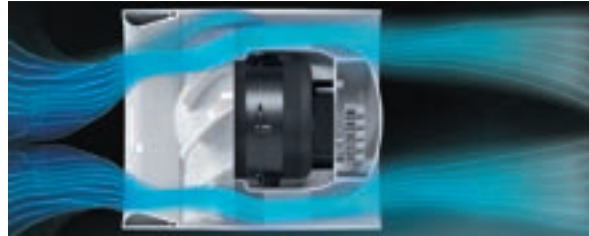
Backdraft damper

Speed controllers

Control unit

### ■ Design

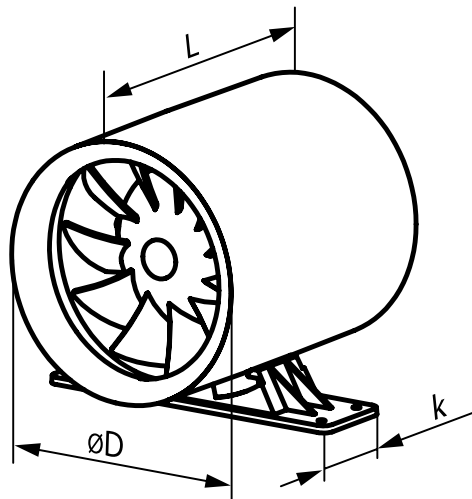
- The casing and the impeller are made of high-quality durable plastic.
- The exhaust spigot is fitted with specially designed air flow rectifiers to reduce air turbulence, noise level and increase air pressure.



- The impeller design enhances fan efficiency and ensures low-noise operation of the fan.
- Ingress protection rating IPX4.

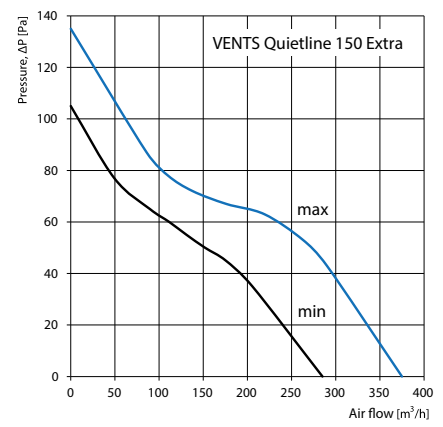
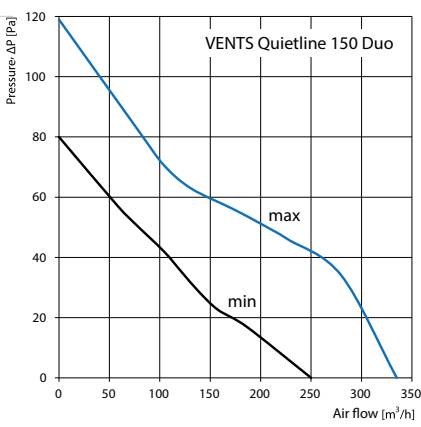
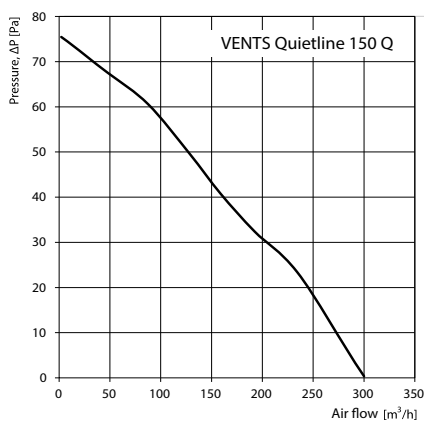
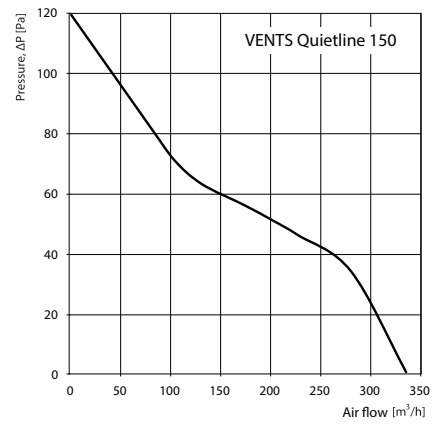
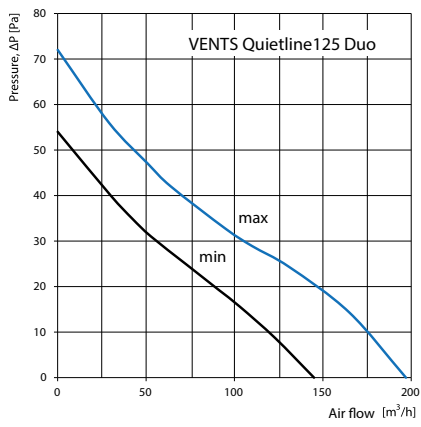
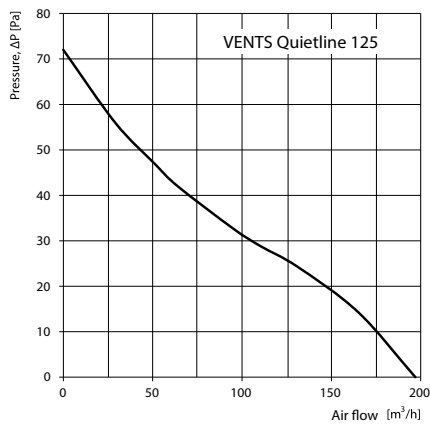
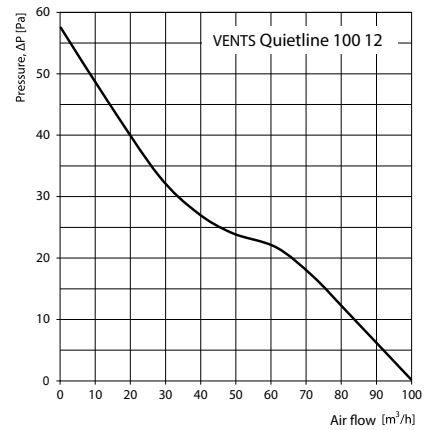
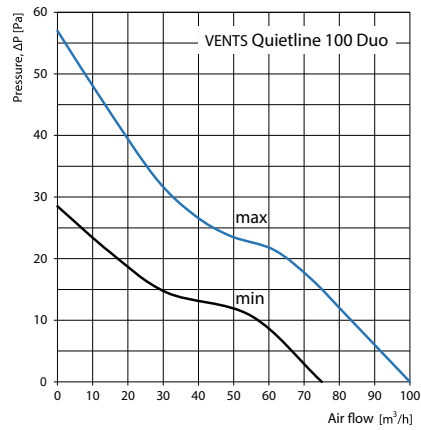
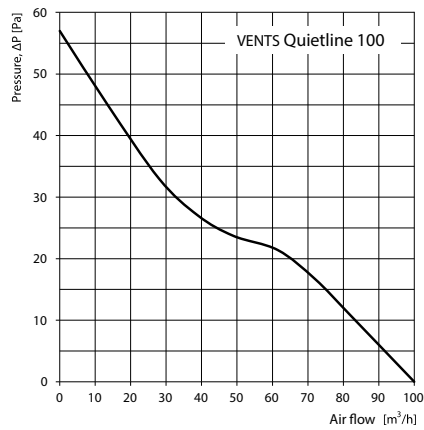
### ■ Overall Dimensions [mm]

| Model                 | L     | Ø D | k    |
|-----------------------|-------|-----|------|
| VENTS Quietline 100   | 137.5 | 99  | -    |
| VENTS Quietline-k 100 | 137.5 | 99  | 54   |
| VENTS Quietline 125   | 161.5 | 125 | -    |
| VENTS Quietline-k 125 | 161.5 | 125 | 53.5 |
| VENTS Quietline 150   | 182   | 150 | -    |
| VENTS Quietline-k 150 | 182   | 150 | 54   |





## Aerodynamic characteristics



## ■ Technical data

| Model                             | Speed | Frequency [Hz] | Voltage [V] | Power consumption [W] | Current [A] | r.p.m. | Maximum air flow [m³/h] | Sound Pressure Level [dBA]* | Weight [kg] |
|-----------------------------------|-------|----------------|-------------|-----------------------|-------------|--------|-------------------------|-----------------------------|-------------|
| VENTS Quietline 100               |       | 50             | 220-240     |                       |             |        |                         |                             |             |
| VENTS Quietline 100 [220 V/60 HZ] | -     | 60             | 220         | 7.5                   | 0.049       | 2100   | 100                     | 25                          |             |
| VENTS Quietline 100 Duo           | min.  | 50             | 220-240     | 4.5                   | 0.029       | 1650   | 75                      | 22                          | 0.61        |
|                                   | max.  |                |             | 7.5                   | 0.049       | 2100   | 100                     | 25                          |             |
| VENTS Quietline 100 12            | -     | 50             | 12          | 7.5                   | 0.99        | 2100   | 100                     | 25                          |             |
| Vents Quietline 125               |       | 50             | 220-240     |                       |             |        |                         |                             |             |
| Vents Quietline 125 [220 V/60 HZ] | -     | 60             | 220         | 13                    | 0.085       | 2250   | 197                     | 32                          | 0.75        |
| Vents Quietline 125 Duo           | min.  | 50             | 220-240     | 10                    | 0.065       | 1950   | 145                     | 29                          |             |
|                                   | max.  |                |             | 13                    | 0.085       | 2250   | 197                     | 32                          |             |
| VENTS Quietline 150               | -     | 50/60          | 220-240     | 22                    | 0.095       | 2250   | 335                     | 39                          | 1.3         |
| VENTS Quietline 150 Q             | -     | 50/60          | 220-240     | 26                    | 0.085       | 1900   | 305                     | 37                          |             |
| VENTS Quietline 150 Duo           | min.  | 50/60          | 220-240     | 19                    | 0.087       | 1950   | 250                     | 36                          |             |
|                                   | max.  |                |             | 22                    | 0.095       | 2250   | 335                     | 39                          |             |
| VENTS Quietline 150 Extra         | min.  | 50/60          | 220-240     | 22                    | 0.103       | 2300   | 285                     | 36                          |             |
|                                   | max.  |                |             | 25                    | 0.109       | 2600   | 375                     | 41                          |             |

\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

## ■ Mounting examples



**VENTS VKO Series**



Axial inline fans, for exhaust or supply ventilation with the capacity up to 358 m<sup>3</sup>/h

**Application**

- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Exhaust or supply ventilation depending on the fan mounting type in the system.
- Designed for PVC ducting systems or flexible ducts.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100, 125 and 150 mm air ducts.

**Design**

- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- Protection rating IPX4.

**Motor**

- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

**Modifications and Options**

**VKok** – fan with a fixing bracket for flat surface mounting.



**VKO L** – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.



**VKO turbo** – high-powered motor.



**VKO press** – 5-blade low-noise impeller with improved aerodynamics for higher fan capacity.



**VKO 12** – modification with low-voltage motor. 12 V AC power supply.

**Control**

**Manual:**

- The fan is controlled by a room light switch. It is not included in the delivery package.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may be connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modification.

**Automatic:**

- By the electronic control unit **BU-1-60** (see Electrical Accessories). The control unit is supplied separately.

**Mounting features**

- The fan is mounted into a matching duct size. Fastening with clamps in case of flexible duct connection.
- This series fans have different intake and exhaust flange diameters to enable attachment of the decorative grille **MV** to the appropriate intake flange diameter in case of direct installation into the ventilation shaft or instead of the existing ventilation grille.
- The fan can be mounted on a horizontal or vertical flat surface by a fixing bracket (**VKok** model).
- Two fans can be installed in series for higher performance.
- For 12 V low-voltage motor fan connection to 220 V/50 Hz power mains use the step-down transformer TRF 220/12-25 that is available upon separate order.

**Mounting examples**



VKO fan flat ventilation example

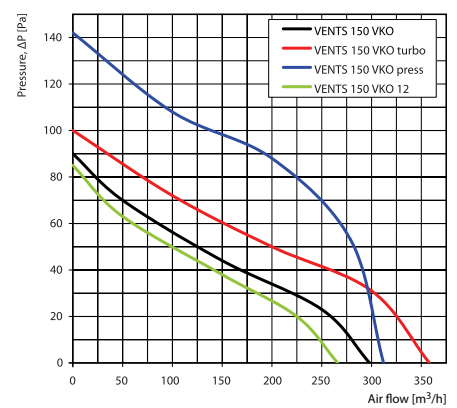
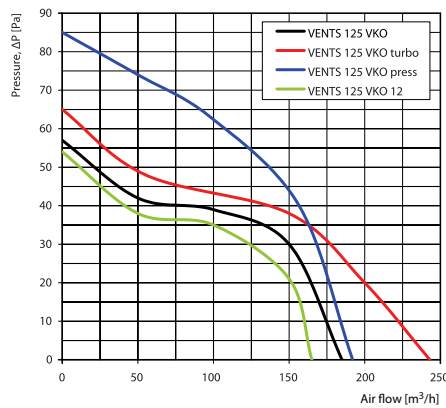
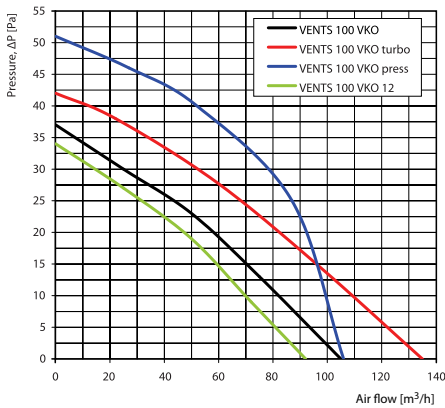


VKOK fan cottage ventilation example

**Accessories**



## Aerodynamic characteristics



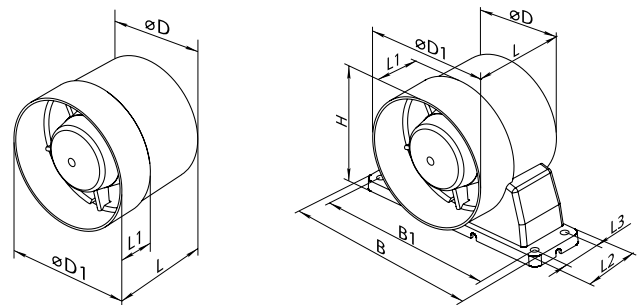
## Technical data

| Model                             | Frequency [Hz] | Voltage [V] | Power Consumption [W] | Current [A] | R.p.m. | Maximum air flow [m³/h] | Sound Pressure Level [dBA]* | Weight [kg] |
|-----------------------------------|----------------|-------------|-----------------------|-------------|--------|-------------------------|-----------------------------|-------------|
| VENTS 100 VKO                     | 50             | 220-240     | 14                    | 0.085       | 2300   | 105                     | 37                          | 0.41        |
| VENTS 100 VKO [220 V/60 Hz]       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 100 VKO turbo               | 50             | 220-240     | 16                    | 0.1         | 2300   | 135                     | 38                          | 0.41        |
| VENTS 100 VKO turbo [220 V/60 Hz] | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 100 VKO press               | 50             | 220-240     | 16                    | 0.1         | 2300   | 106                     | 39                          | 0.41        |
| VENTS 100 VKO press [220 V/60 Hz] | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 100 VKO 12                  | 50             | 12          | 14                    | 1.5         | 2200   | 92                      | 36                          | 0.40        |
| VENTS 125 VKO                     | 50             | 220-240     | 16                    | 0.1         | 2400   | 185                     | 38                          | 0.48        |
| VENTS 125 VKO [220 V/60 Hz]       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 125 VKO turbo               | 50             | 220-240     | 24                    | 0.105       | 2400   | 243                     | 39                          | 0.48        |
| VENTS 125 VKO turbo [220 V/60 Hz] | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 125 VKO press               | 50             | 220-240     | 24                    | 0.105       | 2400   | 192                     | 39                          | 0.48        |
| VENTS 125 VKO press [220 V/60 Hz] | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 125 VKO 12                  | 50             | 12          | 16                    | 1.33        | 2300   | 165                     | 37                          | 0.46        |
| VENTS 150 VKO                     | 50             | 220-240     | 24                    | 0.13        | 2400   | 298                     | 40                          | 0.80        |
| VENTS 150 VKO [220 V/60 Hz]       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 150 VKO press               | 50             | 220-240     | 29                    | 0.13        | 2400   | 312                     | 44                          | 0.80        |
| VENTS 150 VKO press [220 V/60 Hz] | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 150 VKO 12                  | 50             | 12          | 29                    | 2           | 2300   | 266                     | 39                          | 0.76        |

\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

## Overall dimensions

| Model          | Dimensions [mm] |      |     |     |     |     |    |    |    |
|----------------|-----------------|------|-----|-----|-----|-----|----|----|----|
|                | ∅ D             | ∅ D1 | B   | B1  | H   | L   | L1 | L2 | L3 |
| VENTS 100 VKO  | 100             | 104  | -   | -   | -   | 91  | 31 | -  | -  |
| VENTS 100 VKOk | 100             | 104  | 160 | 144 | 114 | 91  | 31 | 45 | 29 |
| VENTS 125 VKO  | 125             | 130  | -   | -   | -   | 92  | 31 | -  | -  |
| VENTS 125 VKOk | 125             | 130  | 185 | 169 | 139 | 92  | 31 | 45 | 29 |
| VENTS 150 VKO  | 150             | 154  | -   | -   | -   | 111 | 46 | -  | -  |
| VENTS 150 VKOk | 150             | 154  | 200 | 184 | 163 | 111 | 46 | 45 | 29 |

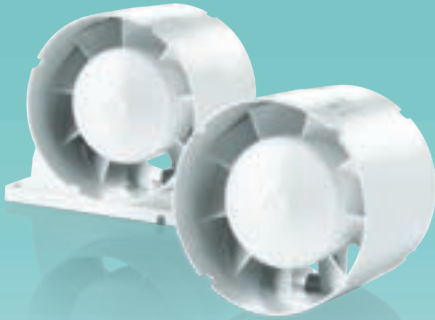


## Certificates



The fans meet the applicable safety and electromagnetic compatibility standards.

## VENTS VKO1 Series



Axial inline fans, for exhaust or supply ventilation with the capacity up to 365 m<sup>3</sup>/h

### Application

- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Exhaust or supply ventilation depending on the fan mounting type in the system.
- Designed for PVC ducting systems or flexible ducts.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100, 125 and 150 mm air ducts.

### Design

- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- Protection rating IPX4.

### Motor

- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

### Modifications and Options

**VKO1k** – fan with a fixing bracket for flat surface mounting.



**VKO1 L** – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.



**VKO1 turbo** – high-powered motor.



**VKO1 press** – 5-blade low-noise impeller with improved aerodynamics for higher fan capacity.



**VKO1 12** – modification with low-voltage motor. 12 V AC power supply.



**VKO1 T** – equipped with a regulated timer with the operating time from 2 to 30 minutes.

### Control

#### Manual:

- The fan is controlled by a room light switch. It is not included in the delivery package.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may be connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modification.

#### Automatic:

- By the electronic control unit **BU-1-60** (see Electrical Accessories). The control unit is supplied separately.
- By the timer **T** (the built-in turn-off delay timer enables the fan operation within 2 to 30 minutes after the fan switching off).

### Mounting features

- The fan is mounted into a matching duct size. Fastening with clamps in case of flexible duct connection.
- The mounting bracket enables fan installation on both horizontal and vertical flat surfaces (**VKO1k** model).
- Two fans can be installed in series for higher performance.
- For 12 V low-voltage motor fan connection to 220 V/50 Hz power mains use the step-down transformer TRF 220/12-25 that is available upon separate order.

### Mounting examples



VKO1k fan cottage ventilation example



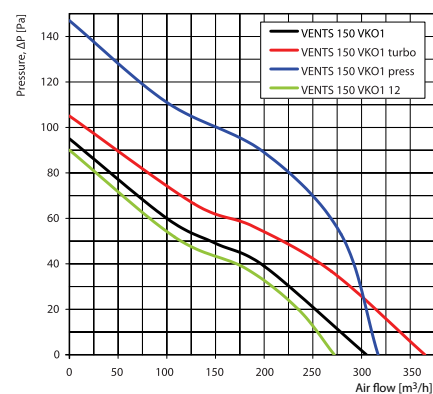
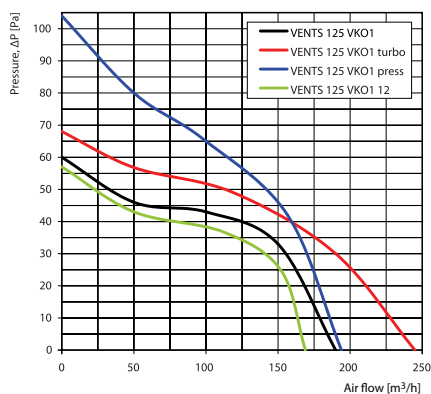
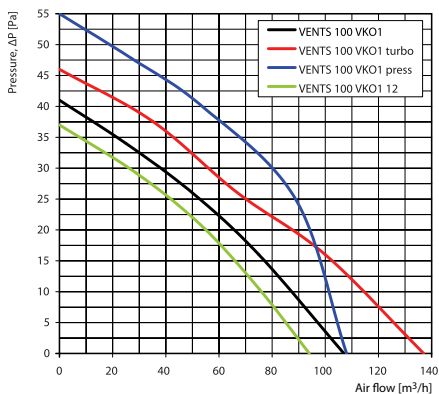
VKO1 fan flat ventilation example

### Accessories





## Aerodynamic characteristics



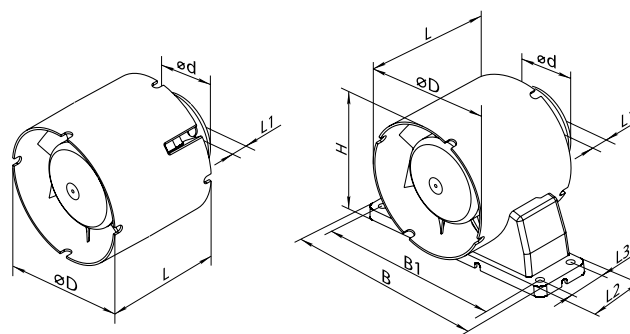
## Technical data

| Model                              | Frequency [Hz] | Voltage [V] | Power Consumption [W] | Current [A] | R.p.m. | Maximum air flow [m³/h] | Sound Pressure Level [dBA]* | Weight [kg] |
|------------------------------------|----------------|-------------|-----------------------|-------------|--------|-------------------------|-----------------------------|-------------|
| VENTS 100 VKO1                     | 50             | 220-240     | 14                    | 0.085       | 2300   | 107                     | 36                          | 0.41        |
| VENTS 100 VKO1 (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 100 VKO1 turbo               | 50             | 220-240     | 16                    | 0.1         | 2300   | 137                     | 37                          | 0.49        |
| VENTS 100 VKO1 turbo (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 100 VKO1 press               | 50             | 220-240     | 16                    | 0.1         | 2300   | 108                     | 39                          | 0.41        |
| VENTS 100 VKO1 press (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 100 VKO1 12                  | 50             | 12          | 14                    | 1.5         | 2200   | 94                      | 35                          | 0.40        |
| VENTS 125 VKO1                     | 50             | 220-240     | 16                    | 0.1         | 2400   | 190                     | 38                          | 0.43        |
| VENTS 125 VKO1 (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 125 VKO1 turbo               | 50             | 220-240     | 24                    | 0.105       | 2400   | 245                     | 39                          | 0.51        |
| VENTS 125 VKO1 turbo (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 125 VKO1 press               | 50             | 220-240     | 24                    | 0.105       | 2400   | 194                     | 39                          | 0.43        |
| VENTS 125 VKO1 press (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 125 VKO1 12                  | 50             | 12          | 16                    | 1.7         | 2300   | 169                     | 37                          | 0.41        |
| VENTS 150 VKO1                     | 50             | 220-240     | 29                    | 0.13        | 2400   | 305                     | 40                          | 0.80        |
| VENTS 150 VKO1 (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 150 VKO1 press               | 50             | 220-240     | 36                    | 0.16        | 2400   | 317                     | 42                          | 0.80        |
| VENTS 150 VKO1 press (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 150 VKO1 12                  | 50             | 12          | 24                    | 2           | 2300   | 272                     | 39                          | 0.76        |

\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

## Overall dimensions

| Model           | Dimensions [mm] |    |     |     |     |     |    |    |    |
|-----------------|-----------------|----|-----|-----|-----|-----|----|----|----|
|                 | ∅D              | ∅d | B   | B1  | H   | L   | L1 | L2 | L3 |
| VENTS 100 VKO1  | 100             | 59 | -   | -   | -   | 85  | 26 | -  | -  |
| VENTS 100 VKO1k | 100             | 59 | 160 | 144 | 110 | 85  | 26 | 45 | 29 |
| VENTS 125 VKO1  | 125             | 59 | -   | -   | -   | 90  | 28 | -  | -  |
| VENTS 125 VKO1k | 125             | 59 | 185 | 169 | 125 | 90  | 28 | 45 | 29 |
| VENTS 150 VKO1  | 150             | 59 | -   | -   | -   | 100 | 28 | -  | -  |
| VENTS 150 VKO1k | 150             | 59 | 200 | 184 | 162 | 100 | 28 | 45 | 29 |



## Certificates



The fans meet the applicable safety and electromagnetic compatibility standards.

# AXIAL WALL- AND CEILING-MOUNTED FANS

Axial fans for exhaust ventilation with the capacity up to 365 m<sup>3</sup>/h. Compatible with Ø 100, 125 or 150 mm air ducts. Some models are equipped with automatic or manual louver shutters. Wide range of designs and options.



## **Axial fans VENTS M Series**

Air flow up to 345 m<sup>3</sup>/h

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## **Axial fans VENTS M3 Series**

Air flow up to 345 m<sup>3</sup>/h

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## **Axial fans VENTS M1 Series**

Air flow up to 345 m<sup>3</sup>/h

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## **Axial fans with automatic louvre shutters VENTS MA Series**

Air flow up to 345 m<sup>3</sup>/h

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## **Axial fans VENTS X1 Series**

Air flow up to 365 m<sup>3</sup>/h

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## **Axial fans VENTS Simple Series**

Air flow up to 280 m<sup>3</sup>/h

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## **Axial fans VENTS F Series**

Air flow up to 232 m<sup>3</sup>/h

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**AXIAL FANS  
VENTS K Series**

Air flow up to 341 m<sup>3</sup>/h

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**AXIAL FANS  
VENTS K1 Series**

Air flow up to 226 m<sup>3</sup>/h

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**AXIAL FANS  
VENTS PF Series**

Air flow up to 342 m<sup>3</sup>/h

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**AXIAL FANS  
VENTS S Series**

Air flow up to 341 m<sup>3</sup>/h

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**AXIAL FANS  
VENTS D Series**

Air flow up to 341 m<sup>3</sup>/h

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**AXIAL FANS  
VENTS LP Series**

Air flow up to 94 m<sup>3</sup>/h

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## VENTS M Series



Axial fans for exhaust ventilation with the capacity up to 345 m<sup>3</sup>/h

### Application

- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100, 125 and 150 mm air ducts.

### Design

- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- Protection rating IP34.

### Motor

- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

### Modifications and Options



**M K** – fan is equipped with a backdraft damper for back flow preventing.



**M L** – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.



**M turbo** – high-powered motor.



**M press** – 5-blade low-noise impeller with improved aerodynamics for higher fan capacity.



**M 12** – modification with low-voltage motor. 12 V AC power supply.



**MT** – equipped with a regulated timer with the operating time from 2 to 30 minutes.



**MTH** – equipped with a timer with the operating time from 2 to 30 minutes and a humidity sensor with the threshold value from 60 to 90 %.



**MV** – equipped with a pull cord switch.



**MVT** – equipped with a pull cord switch and a regulated timer with the operating time adjustable from 2 to 30 minutes.



**MVTH** – equipped with a pull cord switch, regulated timer with the operating time adjustable from 2 to 30 minutes and a humidity sensor with the operating threshold range from 60 to 90 %.



**MTP** – equipped with a regulated timer and a motion sensor with the sensitivity area from 1 to 4 m and the detection angle up to 100°.

### Control

#### Manual:

- The fan is controlled by a room light switch. It is not included in the delivery package.
- The fan is controlled by the built-in pull cord switch **V**. Not applied in case of ceiling mounting.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may be connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modification.

#### Automatic:

- By the electronic control unit **BU-1-60** (see Electrical Accessories). The control unit is supplied separately.
- By the timer **T** (the built-in turn-off delay timer enables the fan operation within 2 to 30 minutes after the fan switching off).
- By the humidity sensor and timer **TH** (if the humidity level in the room exceeds the sensor threshold adjustable value within 60-90 % the fan switches automatically on and operates until the humidity level drops to the standard level, after that the fan continues operating within the time period according to the timer setting, then shuts down).
- By the motion sensor and the timer **TP** (in case of motion detection the fan switches automatically on and operates within the set time period from 2 to 30 minutes. The motion sensitivity area is up to 4 meters and the maximum detection angle is 100°).

### Mounting features

- The fan is mounted directly into the ventilation shaft or used for ceiling mounting with the connection to the duct.
- Flexible duct application is recommended in case of remote location of the ventilation shaft. The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to wall by self-tapping screws.
- For 12 V low-voltage motor fan connection to 220 V/50 Hz power mains use the step-down transformer TRF 220/12-25 that is available upon separate order.

### Accessories

Air ducts



Grilles and hoods



Backdraft damper



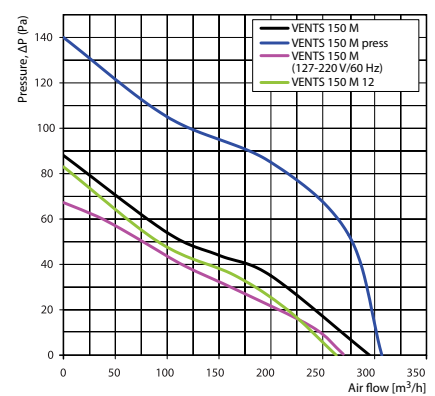
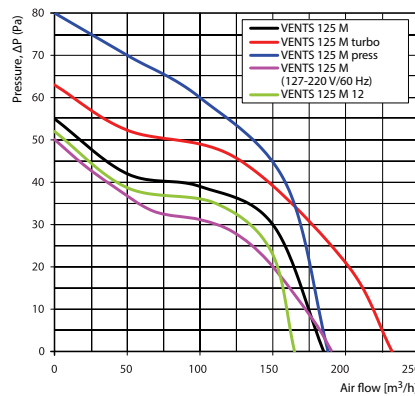
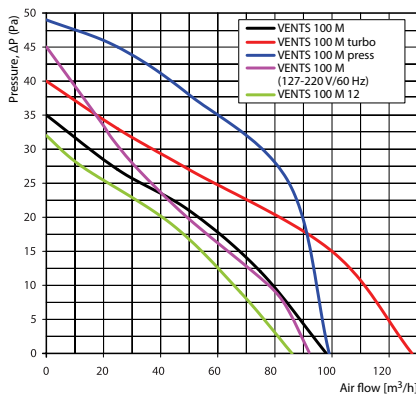
Speed controllers



Clamps



### Aerodynamic characteristics



### Technical data

| Model                           | Frequency [Hz] | Voltage [V] | Power Consumption [W] | Current [A] | R.p.m. | Maximum air flow [m³/h] | Sound Pressure Level [dBA]* | Weight [kg] |
|---------------------------------|----------------|-------------|-----------------------|-------------|--------|-------------------------|-----------------------------|-------------|
| VENTS 100 M                     | 50             | 220-240     |                       |             |        |                         |                             |             |
| VENTS 100 M (220 V/60 Hz)       | 60             | 220         | 14                    | 0.085       | 2300   | 98                      | 34                          | 0.55        |
| VENTS 100 M turbo               | 50             | 220-240     |                       |             |        |                         |                             |             |
| VENTS 100 M turbo (220 V/60 Hz) | 60             | 220         | 16                    | 0.1         | 2300   | 128                     | 37                          | 0.57        |
| VENTS 100 M press               | 50             | 220-240     |                       |             |        |                         |                             |             |
| VENTS 100 M press (220 V/60 Hz) | 60             | 220         | 16                    | 0.1         | 2300   | 99                      | 37                          | 0.65        |
| VENTS 100 M (127-220 V/60 Hz)   | 60             | 127         | 10                    | 0.115       | 2500   | 92                      | 34                          | 0.55        |
|                                 |                | 220         | 9                     | 0.054       |        |                         |                             |             |
| VENTS 100 M 12                  | 50             | 12          | 14                    | 1.5         | 2200   | 86                      | 33                          | 0.50        |
| VENTS 125 M                     | 50             | 220-240     |                       |             |        |                         |                             |             |
| VENTS 125 M (220 V/60 Hz)       | 60             | 220         | 16                    | 0.1         | 2400   | 185                     | 35                          | 0.70        |
| VENTS 125 M turbo               | 50             | 220-240     |                       |             |        |                         |                             |             |
| VENTS 125 M turbo (220 V/60 Hz) | 60             | 220         | 22                    | 0.105       | 2400   | 232                     | 37                          | 0.72        |
| VENTS 125 M press               | 50             | 220-240     |                       |             |        |                         |                             |             |
| VENTS 125 M press (220 V/60 Hz) | 60             | 220         | 22                    | 0.105       | 2400   | 188                     | 39                          | 0.81        |
| VENTS 125 M (127-220 V/60 Hz)   | 60             | 127         | 16                    | 0.119       | 2400   | 190                     | 36                          | 0.70        |
|                                 |                | 220         | 15                    | 0.102       |        |                         |                             |             |
| VENTS 125 M 12                  | 50             | 12          | 16                    | 1.7         | 2300   | 165                     | 34                          | 0.70        |
| VENTS 150 M                     | 50             | 220-240     |                       |             |        |                         |                             |             |
| VENTS 150 M (220 V/60 Hz)       | 60             | 220         | 24                    | 0.13        | 2400   | 295                     | 39                          | 0.89        |
| VENTS 150 M press               | 50             | 220-240     |                       |             |        |                         |                             |             |
| VENTS 150 M press (220 V/60 Hz) | 60             | 220         | 29                    | 0.13        | 2400   | 307                     | 41                          | 0.99        |
| VENTS 150 M (127-220 V/60 Hz)   | 60             | 127         | 25                    | 0.338       | 2350   | 270                     | 39                          | 0.89        |
|                                 |                | 220         | 25                    | 0.175       |        |                         |                             |             |
| VENTS 150 M 12                  | 50             | 12          | 29                    | 2           | 2300   | 263                     | 38                          | 0.89        |

\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

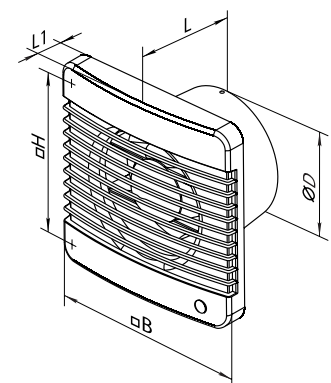
### Mounting example



M fan kitchen ventilation example

### Overall dimensions

| Model       | Dimensions [mm] |     |     |      |      |
|-------------|-----------------|-----|-----|------|------|
|             | Ø D             | B   | H   | L    | L1   |
| VENTS 100 M | 100             | 159 | 135 | 88.5 | 23   |
| VENTS 125 M | 125             | 180 | 150 | 94   | 25   |
| VENTS 150 M | 150             | 206 | 182 | 106  | 25.5 |



### Certificates



The fans meet the applicable safety and electromagnetic compatibility standards.



## VENTS M3 Series



Axial fans for exhaust ventilation with the capacity up to 345 m<sup>3</sup>/h

### Application

- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- For rectangular ventilation shafts.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100, 125 and 150 mm air ducts.

### Design

- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- Protection rating IP34.

### Motor

- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

### Modifications and Options



**M3 K** – fan is equipped with a backdraft damper for back flow preventing.



**M3 L** – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.



**M3 turbo** – high-powered motor.



**M3 press** – 5-blade low-noise impeller with improved aerodynamics for higher fan capacity.



**M3 12** – modification with low-voltage motor. 12 V AC power supply.



**M3T** – equipped with a regulated timer with the operating time from 2 to 30 minutes.



**M3TH** – equipped with a timer with the operating time from 2 to 30 minutes and a humidity sensor with the threshold value from 60 to 90 %.



**M3V** – equipped with a pull cord switch.



**M3VT** – equipped with a pull cord switch and a regulated timer with the operating time adjustable from 2 to 30 minutes.



**M3VTH** – equipped with a pull cord switch, regulated timer with the operating time adjustable from 2 to 30 minutes and a humidity sensor with the operating threshold range from 60 to 90 %.



**M3TP** – equipped with a regulated timer and a motion sensor with the sensitivity area from 1 to 4 m and the detection angle up to 100°.

### Control

#### Manual:

- The fan is controlled by a room light switch. It is not included in the delivery package.
- The fan is controlled by the built-in pull cord switch **V**. Not applied in case of ceiling mounting.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may be connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modification.

#### Automatic:

- By the electronic control unit **BU-1-60** (see Electrical Accessories). The control unit is supplied separately.
- By the timer **T** (the built-in turn-off delay timer enables the fan operation within 2 to 30 minutes after the fan switching off).
- By the humidity sensor and timer **TH** (if the humidity level in the room exceeds the sensor threshold adjustable value within 60-90 % the fan switches automatically on and operates until the humidity level drops to the standard level, after that the fan continues operating within the time period according to the timer setting, then shuts down).
- By the motion sensor and the timer **TP** (in case of motion detection the fan switches automatically on and operates within the set time period from 2 to 30 minutes. The motion sensitivity area is up to 4 meters and the maximum detection angle is 100°).

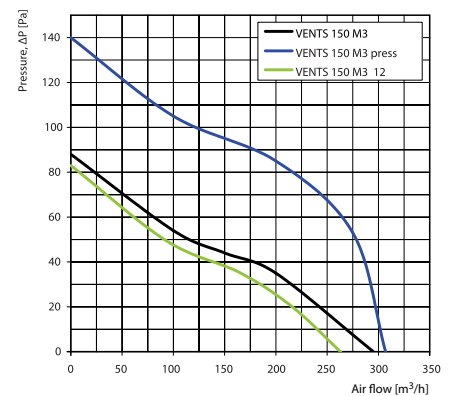
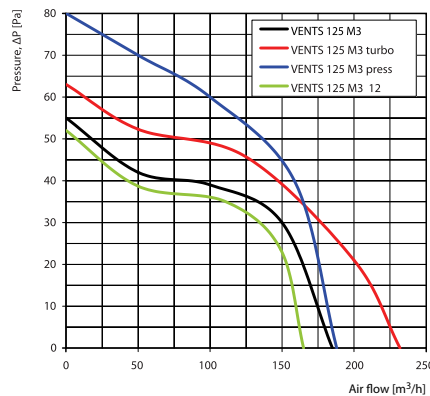
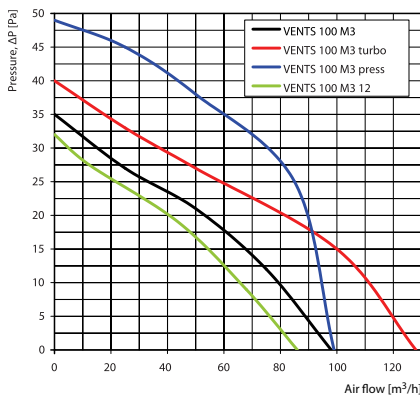
### Mounting features

- The fan is mounted directly into the ventilation shaft or wall mounted and connected to the air ducts.
- The enlarged front grille modification makes the fan suitable for mounting into rectangular ventilation shafts.
- Flexible duct application is recommended in case of remote location of the ventilation shaft. The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to wall by self-tapping screws.
- For 12 V low-voltage motor fan connection to 220 V/50 Hz power mains use the step-down transformer TRF 220/12-25 that is available upon separate order.

### Accessories



## Aerodynamic characteristics

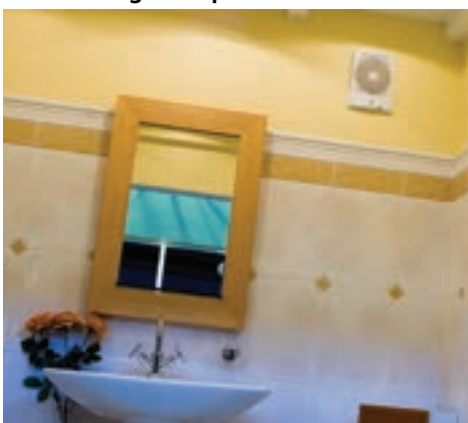


## Technical data

| Model                            | Frequency [Hz] | Voltage [V] | Power Consumption [W] | Current [A] | R.p.m. | Maximum air flow [m³/h] | Sound Pressure Level [dBA]* | Weight [kg] |
|----------------------------------|----------------|-------------|-----------------------|-------------|--------|-------------------------|-----------------------------|-------------|
| VENTS 100 M3                     | 50             | 220-240     | 14                    | 0.085       | 2300   | 98                      | 34                          | 0.61        |
| VENTS 100 M3 (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 100 M3 turbo               | 50             | 220-240     | 16                    | 0.1         | 2300   | 128                     | 37                          | 0.69        |
| VENTS 100 M3 turbo (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 100 M3 press               | 50             | 220-240     | 16                    | 0.1         | 2300   | 99                      | 37                          | 0.69        |
| VENTS 100 M3 press (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 100 M3 12                  | 50             | 12          | 14                    | 1.5         | 2200   | 86                      | 33                          | 0.60        |
| VENTS 125 M3                     | 50             | 220-240     | 16                    | 0.1         | 2400   | 185                     | 35                          | 0.80        |
| VENTS 125 M3 (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 125 M3 turbo               | 50             | 220-240     | 22                    | 0.105       | 2400   | 232                     | 40                          | 0.86        |
| VENTS 125 M3 turbo (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 125 M3 press               | 50             | 220-240     | 22                    | 0.105       | 2400   | 188                     | 39                          | 0.87        |
| VENTS 125 M3 press (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 125 M3 12                  | 50             | 12          | 16                    | 1.7         | 2300   | 165                     | 34                          | 0.78        |
| VENTS 150 M3                     | 50             | 220-240     | 24                    | 0.13        | 2400   | 295                     | 39                          | 0.95        |
| VENTS 150 M3 (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 150 M3 press               | 50             | 220-240     | 29                    | 0.13        | 2400   | 307                     | 41                          | 1.03        |
| VENTS 150 M3 press (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 150 M3 12                  | 50             | 12          | 29                    | 2           | 2300   | 263                     | 38                          | 0.91        |

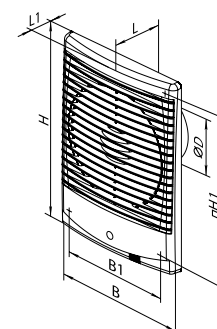
\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

## Mounting example



## Overall dimensions

| Model        | Dimensions [mm] |     |     |     |     |     |    |
|--------------|-----------------|-----|-----|-----|-----|-----|----|
|              | Ø D             | B   | B1  | H   | H1  | L   | L1 |
| VENTS 100 M3 | 100             | 185 | 155 | 256 | 226 | 86  | 30 |
| VENTS 125 M3 | 125             | 185 | 155 | 256 | 226 | 89  | 30 |
| VENTS 150 M3 | 150             | 185 | 155 | 256 | 226 | 114 | 30 |



## Certificates



The fans meet the applicable safety and electromagnetic compatibility standards.

## VENTS M1 Series



Axial fans for exhaust ventilation with the capacity up to 345 m<sup>3</sup>/h

### Application

- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100, 125 and 150 mm air ducts.

### Design

- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- Insect screen.
- Protection rating IP34.

### Motor

- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

### Modifications and Options



**M1K** – fan is equipped with a backdraft damper for back flow preventing.



**M1L** – The motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.



**M1 turbo** – high-powered motor.



**M1 press** – 5-blade low-noise impeller with improved aerodynamics for higher fan capacity.



**M1 12** – modification with low-voltage motor. 12 V AC power supply.



**M1T** – equipped with a regulated timer with the operating time from 2 to 30 minutes.



**M1TH** – equipped with a timer with the operating time from 2 to 30 minutes and a humidity sensor with the threshold value from 60 to 90 %.



**M1V** – equipped with a pull cord switch.



**M1VT** – equipped with a pull cord switch and a regulated timer with the operating time adjustable from 2 to 30 minutes.



**M1VTH** – equipped with a pull cord switch, regulated timer with the operating time adjustable from 2 to 30 minutes and a humidity sensor with the operating threshold range from 60 to 90 %.



**M1TP** – equipped with a regulated timer and a motion sensor with the sensitivity area from 1 to 4 m and the detection angle up to 100°.

### Control

#### Manual:

- The fan is controlled by a room light switch. It is not included in the delivery package.
- The fan is controlled by the built-in pull cord switch **V**. Not applied in case of ceiling mounting.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may be connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modification.

#### Automatic:

- By the electronic control unit **BU-1-60** (see Electrical Accessories). The control unit is supplied separately.
- By the timer **T** (the built-in turn-off delay timer enables the fan operation within 2 to 30 minutes after the fan switching off).
- By the humidity sensor and timer **TH** (if the humidity level in the room exceeds the sensor threshold adjustable value within 60-90 % the fan switches automatically on and operates until the humidity level drops to the standard level, after that the fan continues operating within the time period according to the timer setting, then shuts down).
- By the motion sensor and the timer **TP** (in case of motion detection the fan switches automatically on and operates within the set time period from 2 to 30 minutes. The motion sensitivity area is up to 4 meters and the maximum detection angle is 100°).

### Mounting features

- The fan is mounted directly into the ventilation shaft.
- Flexible duct application is recommended in case of remote location of the ventilation shaft. The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to wall by self-tapping screws.
- For 12 V low-voltage motor fan connection to 220 V/50 Hz power mains use the step-down transformer TRF 220/12-25 that is available upon separate order.

### Accessories



Air ducts

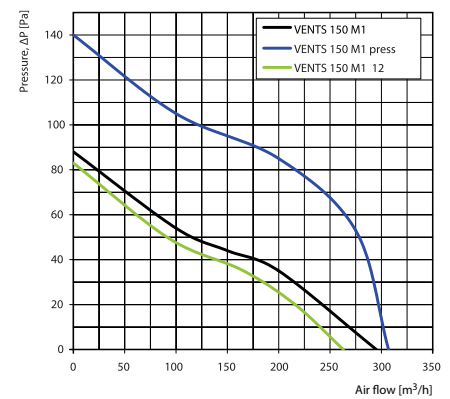
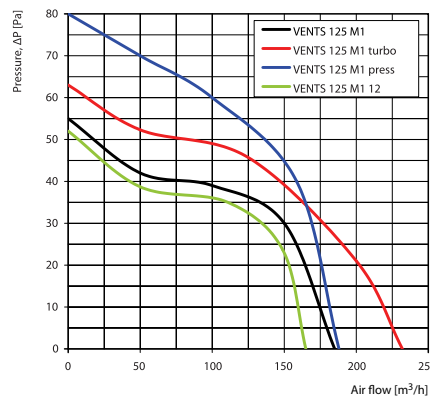
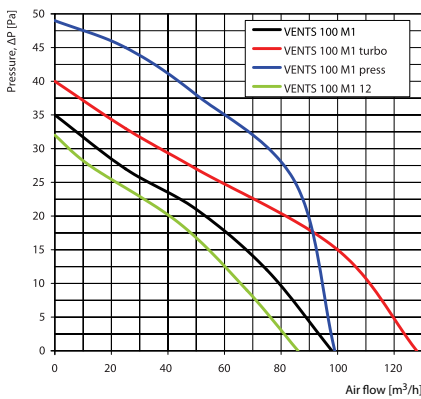
Grilles and hoods

Backdraft damper

Speed controllers

Clamps

### Aerodynamic characteristics



### Technical data

| Model                            | Frequency [Hz] | Voltage [V] | Power Consumption [W] | Current [A] | R.p.m. | Maximum air flow [m³/h] | Sound Pressure Level [dBA]* | Weight [kg] |
|----------------------------------|----------------|-------------|-----------------------|-------------|--------|-------------------------|-----------------------------|-------------|
| VENTS 100 M1                     | 50             | 220-240     | 14                    | 0.085       | 2300   | 98                      | 34                          | 0.51        |
| VENTS 100 M1 (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 100 M1 turbo               | 50             | 220-240     | 16                    | 0.1         | 2300   | 128                     | 37                          | 0.65        |
| VENTS 100 M1 turbo (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 100 M1 press               | 50             | 220-240     | 16                    | 0.1         | 2300   | 99                      | 37                          | 0.65        |
| VENTS 100 M1 press (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 100 M1 12                  | 50             | 12          | 14                    | 1.5         | 2200   | 86                      | 33                          | 0.51        |
| VENTS 125 M1                     | 50             | 220-240     | 16                    | 0.1         | 2400   | 185                     | 35                          | 0.68        |
| VENTS 125 M1 (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 125 M1 turbo               | 50             | 220-240     | 22                    | 0.105       | 2400   | 232                     | 40                          | 0.81        |
| VENTS 125 M1 turbo (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 125 M1 press               | 50             | 220-240     | 22                    | 0.105       | 2400   | 188                     | 39                          | 0.81        |
| VENTS 125 M1 press (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 125 M1 12                  | 50             | 12          | 16                    | 1.7         | 2300   | 165                     | 34                          | 0.68        |
| VENTS 150 M1                     | 50             | 220-240     | 24                    | 0.13        | 2400   | 295                     | 39                          | 0.80        |
| VENTS 150 M1 (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 150 M1 press               | 50             | 220-240     | 29                    | 0.13        | 2400   | 307                     | 41                          | 0.99        |
| VENTS 150 M1 press (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 150 M1 12                  | 50             | 12          | 29                    | 2           | 2300   | 262                     | 38                          | 0.76        |

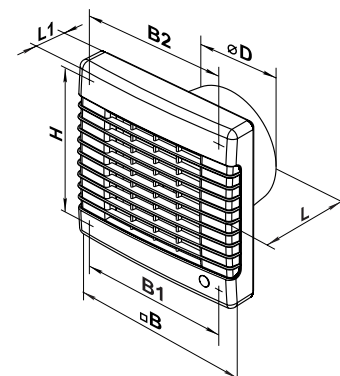
\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

### Mounting example



### Overall dimensions

| Model        | Dimensions [mm] |     |     |     |     |     |    |
|--------------|-----------------|-----|-----|-----|-----|-----|----|
|              | Ø D             | B   | B1  | B2  | H   | L   | L1 |
| VENTS 100 M1 | 100             | 165 | 150 | 150 | 150 | 92  | 32 |
| VENTS 125 M1 | 125             | 190 | 174 | 128 | 173 | 98  | 33 |
| VENTS 150 M1 | 150             | 212 | 196 | 150 | 195 | 114 | 33 |



### Certificates



The fans meet the applicable safety and electromagnetic compatibility standards.



## VENTS MA Series



Axial fans with automatic louver shutters for exhaust ventilation with the capacity up to 345 m<sup>3</sup>/h

### Application

- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100, 125 and 150 mm air ducts.



Fan OFF – louver shutters CLOSED



Fan ON – louver shutters OPEN

### Design

- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- Fan is equipped with a thermal actuator that provides smooth opening and shutting of automatic louver shutters for air back flow preventing.
- Protection rating IP24.

### Motor

- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

### Modifications and Options



**MA L** – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.



**MA turbo** – high-powered motor.



**MA press** – 5-blade low-noise impeller with improved aerodynamics for higher fan capacity.



**MA 12** – modification with low-voltage motor. 12 V AC power supply.



**MAT** – equipped with a regulated timer with the operating time from 2 to 30 minutes.



**MATH** – equipped with a timer with the operating time from 2 to 30 minutes and a humidity sensor with the threshold value from 60 to 90 %.



**MAV** – equipped with a pull cord switch.



**MAVT** – equipped with a pull cord switch and a regulated timer with the operating time adjustable from 2 to 30 minutes.



**MAVTH** – equipped with a pull cord switch, regulated timer with the operating time adjustable from 2 to 30 minutes and a humidity sensor with the operating threshold range from 60 to 90 %.



**MATP** – equipped with a regulated timer and a motion sensor with the sensitivity area from 1 to 4 m and the detection angle up to 100°.

### Control

#### Manual:

- The fan is controlled by a room light switch. It is not included in the delivery package.
- The fan is controlled by the built-in pull cord switch **V**. Not applied in case of ceiling mounting.

#### Automatic:

- By the electronic control unit **BU-1-60** (see Electrical Accessories). The control unit is supplied separately.
- By the timer **T** (the built-in turn-off delay timer enables the fan operation within 2 to 30 minutes after the fan switching off).
- By the humidity sensor and timer **TH** (if the humidity level in the room exceeds the sensor threshold adjustable value within 60-90 % the fan switches automatically on and operates until the humidity level drops to the standard level, after that the fan continues operating within the time period according to the timer setting, then shuts down).
- By the motion sensor and the timer **TP** (in case of motion detection the fan switches automatically on and operates within the set time period from 2 to 30 minutes. The motion sensitivity area is up to 4 meters and the maximum detection angle is 100°).

### Mounting features

- The fan is mounted directly into the ventilation shaft.
- Flexible duct application is recommended in case of remote location of the ventilation shaft. The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to wall by self-tapping screws.
- Suitable for ceiling mounting.
- Flange of 92 mm length for easy mounting into concrete walls and floor decks up to 100 mm thick.
- For 12 V low-voltage motor fan connection to 220 V/50 Hz power mains use the step-down transformer TRF 220/12-25 that is available upon separate order.

### Accessories

Air ducts



Grilles and hoods



Speed controllers

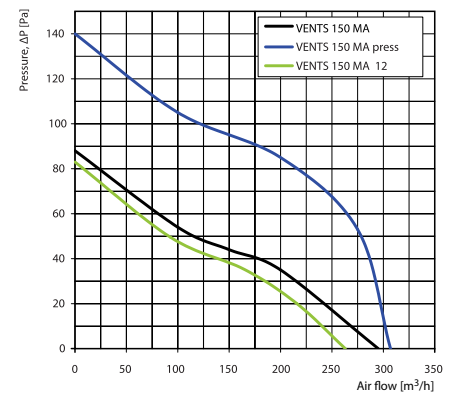
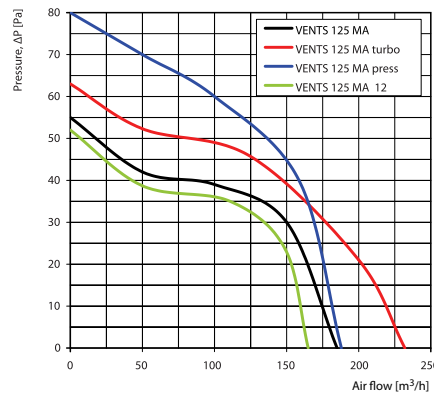
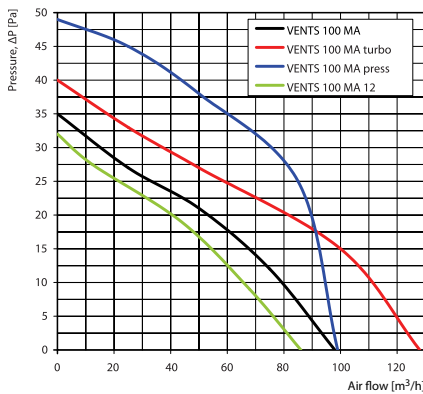


Clamps





### Aerodynamic characteristics



### Technical data

| Model                            | Frequency [Hz] | Voltage [V] | Power Consumption [W] | Current [A] | R.p.m. | Maximum air flow [m³/h] | Sound Pressure Level [dBA]* | Weight [kg] |
|----------------------------------|----------------|-------------|-----------------------|-------------|--------|-------------------------|-----------------------------|-------------|
| VENTS 100 MA                     | 50             | 220-240     | 18                    | 0.085       | 2300   | 98                      | 34                          | 0.65        |
| VENTS 100 MA (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 100 MA turbo               | 50             | 220-240     | 20                    | 0.1         | 2300   | 128                     | 37                          | 0.65        |
| VENTS 100 MA turbo (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 100 MA press               | 50             | 220-240     | 20                    | 0.1         | 2300   | 99                      | 37                          | 0.65        |
| VENTS 100 MA press (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 100 MA 12                  | 50             | 12          | 18                    | 1.5         | 2200   | 86                      | 33                          | 0.65        |
| VENTS 125 MA                     | 50             | 220-240     | 22                    | 0.1         | 2400   | 185                     | 35                          | 0.75        |
| VENTS 125 MA (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 125 MA turbo               | 50             | 220-240     | 29                    | 0.13        | 2400   | 232                     | 37                          | 0.81        |
| VENTS 125 MA turbo (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 125 MA press               | 50             | 220-240     | 29                    | 0.13        | 2400   | 188                     | 39                          | 0.81        |
| VENTS 125 MA press (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 125 MA 12                  | 50             | 12          | 22                    | 1.7         | 2300   | 165                     | 34                          | 0.75        |
| VENTS 150 MA                     | 50             | 220-240     | 26                    | 0.13        | 2400   | 295                     | 39                          | 1.02        |
| VENTS 150 MA (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 150 MA press               | 50             | 220-240     | 32                    | 0.14        | 2400   | 307                     | 41                          | 0.99        |
| VENTS 150 MA press (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 150 MA 12                  | 50             | 12          | 29                    | 2           | 2300   | 263                     | 38                          | 0.98        |

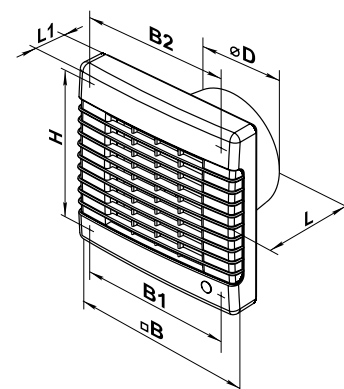
\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

### Mounting example



### Overall dimensions

| Model        | Dimensions [mm] |     |     |     |     |     |    |
|--------------|-----------------|-----|-----|-----|-----|-----|----|
|              | ∅D              | B   | B1  | B2  | H   | L   | L1 |
| VENTS 100 MA | 100             | 165 | 150 | 150 | 150 | 92  | 32 |
| VENTS 125 MA | 125             | 190 | 174 | 128 | 173 | 98  | 33 |
| VENTS 150 MA | 150             | 212 | 196 | 150 | 195 | 114 | 33 |



### Certificates

The fans meet the applicable safety and electromagnetic compatibility standards.

## VENTS X1 Series



Axial fans for exhaust ventilation with the capacity up to 345 m<sup>3</sup>/h

### Application

- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100, 120, 125 and 150 mm air ducts.



### Design

- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- Protection rating IP24.

### Motor

- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

### Modifications and Options



**X1 K** – fan is equipped with a backdraft damper for back flow preventing.



**X1 L** – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.



**X1 turbo** – high-powered motor.



**X1 12** – modification with low-voltage motor. 12 V AC power supply.



**X1T** – equipped with a regulated timer with the operating time from 2 to 30 minutes.



**X1TH** – equipped with a timer with the operating time from 2 to 30 minutes and a humidity sensor with the threshold value from 60 to 90 %.



**X1V** – equipped with a pull cord switch.



**X1VT** – equipped with a pull cord switch and a regulated timer with the operating time adjustable from 2 to 30 minutes.



**X1VTH** – equipped with a pull cord switch, regulated timer with the operating time adjustable from 2 to 30 minutes and a humidity sensor with the operating threshold range from 60 to 90 %.

### Control

#### Manual:

- The fan is controlled by a room light switch. It is not included in the delivery package.
- The fan is controlled by the built-in pull cord switch **V**. Not applied in case of ceiling mounting.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may be connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modification.

#### Automatic:

- By the electronic control unit **BU-1-60** (see Electrical Accessories). The control unit is supplied separately.
- By the timer **T** (the built-in turn-off delay timer enables the fan operation within 2 to 30 minutes after the fan switching off).
- By the humidity sensor and timer **TH** (if the humidity level in the room exceeds the sensor threshold adjustable value within 60-90 % the fan switches automatically on and operates until the humidity level drops to the standard level, after that the fan continues operating within the time period according to the timer setting, then shuts down).

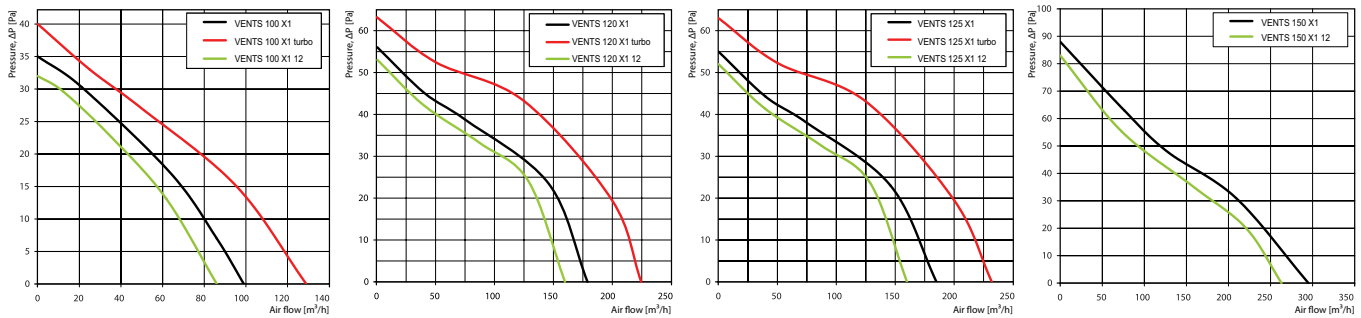
### Mounting features

- The fan is mounted directly into the ventilation shaft.
- Flexible duct application is recommended in case of remote location of the ventilation shaft. The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to wall by self-tapping screws.
- Suitable for ceiling mounting.
- For 12 V low-voltage motor fan connection to 220 V/50 Hz power mains use the step-down transformer TRF 220/12-25 that is available upon separate order.

### Accessories



## Aerodynamic characteristics



## Technical data

| Model                            | Frequency [Hz] | Voltage [V] | Power Consumption [W] | Current [A] | R.p.m. | Maximum air flow [m³/h] | Sound Pressure Level [dBA]* | Weight [kg] |
|----------------------------------|----------------|-------------|-----------------------|-------------|--------|-------------------------|-----------------------------|-------------|
| VENTS 100 X1                     | 50             | 220-240     | 14                    | 0.085       | 2300   | 99                      | 33                          | 0.60        |
| VENTS 100 X1 (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 100 X1 turbo               | 50             | 220-240     | 16                    | 0.1         | 2300   | 129                     | 37                          | 0.68        |
| VENTS 100 X1 turbo (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 100 X1 12                  | 50             | 12          | 14                    | 1.5         | 2200   | 86                      | 33                          | 0.59        |
| VENTS 120 X1                     | 50             | 220-240     | 17                    | 0.1         | 2400   | 179                     | 35                          | 0.73        |
| VENTS 120 X1 (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 120 X1 turbo               | 50             | 220-240     | 24                    | 0.105       | 2400   | 225                     | 37                          | 0.80        |
| VENTS 120 X1 turbo (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 120 X1 12                  | 50             | 12          | 16                    | 1.7         | 2300   | 160                     | 34                          | 0.71        |
| VENTS 125 X1                     | 50             | 220-240     | 16                    | 0.1         | 2400   | 185                     | 34                          | 0.73        |
| VENTS 125 X1 (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 125 X1 turbo               | 50             | 220-240     | 24                    | 0.105       | 2400   | 232                     | 37                          | 0.80        |
| VENTS 125 X1 turbo (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 125 X1 12                  | 50             | 12          | 16                    | 1.7         | 2300   | 160                     | 34                          | 0.71        |
| VENTS 150 X1                     | 50             | 220-240     | 24                    | 0.13        | 2400   | 295                     | 37                          | 0.92        |
| VENTS 150 X1 (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 150 X1 12                  | 50             | 12          | 29                    | 2           | 2300   | 263                     | 36                          | 0.88        |

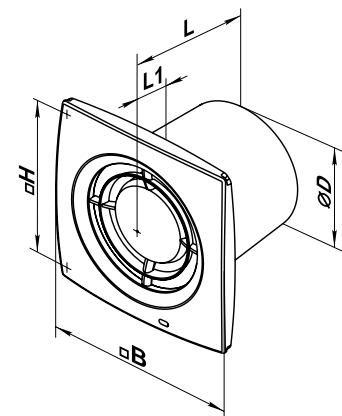
\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

## Mounting example



## Overall dimensions

| Model        | Dimensions [mm] |     |     |     |    |
|--------------|-----------------|-----|-----|-----|----|
|              | Ø D             | B   | H   | L   | L1 |
| VENTS 100 X1 | 100             | 152 | 120 | 108 | 12 |
| VENTS 120 X1 | 120             | 177 | 140 | 95  | 13 |
| VENTS 125 X1 | 125             | 177 | 140 | 114 | 13 |
| VENTS 150 X1 | 150             | 205 | 165 | 132 | 13 |



## Certificates

The fans meet the applicable safety and electromagnetic compatibility standards.

## VENTS Simple Series



Axial fans for exhaust ventilation with air capacity up to 280 m<sup>3</sup>/h

### Application

- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100, 120, 125 and 150 mm air ducts.

### Design

- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- Insect screen.
- Protection rating IP34.

### Motor

- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

### Modifications and Options



**Simple K** – fan is equipped with a backdraft damper for back flow preventing.



**Simple L** – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.



**Simple turbo** – high-powered motor.



**Simple T** – equipped with a regulated timer with the operating time from 2 to 30 minutes.



**Simple TH** – equipped with a timer with the operating time from 2 to 30 minutes and a humidity sensor with the threshold value from 60 to 90 %.



**Simple V** – equipped with a pull cord switch.



**Simple VT** – equipped with a pull cord switch and a regulated timer with the operating time adjustable from 2 to 30 minutes.



**Simple VTH** – equipped with a pull cord switch, regulated timer with the operating time adjustable from 2 to 30 minutes and a humidity sensor with the operating threshold range from 60 to 90 %.

### Control

#### Manual:

- The fan is controlled by a room light switch. It is not included in the delivery set.
- The fan is controlled by the built-in **V** pull cord switch. Not applied in case of ceiling mounting.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may be connected to the same controller. Speed controllers can not be connected to the fans with the T, TH, TP, VT, VTH modifications.

#### Automatic:

- By the **BU-1-60** electronic control unit (see Electrical Accessories). The control unit is supplied separately.
- By the **T** timer (the built-in turn-off delay timer enables the fan operation within 2 to 30 minutes after the fan switching off).
- By the humidity sensor and the **TH** timer (if the humidity level in the room exceeds the sensor threshold adjustable value within 60-90 %, the fan switches automatically on and operates until the humidity level drops to the standard level, after that the fan continues operating within the time period according to the timer setting, then shuts down).

### Mounting features

- The fan is mounted directly into the ventilation shaft.
- In case of remote location of the ventilation shaft flexible air ducts may be used. The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to the wall by means of screws.
- Can be ceiling mounted in case the fan is ordered with ball bearings (Simple L modification).

### Accessories



Air ducts

Grilles and hoods

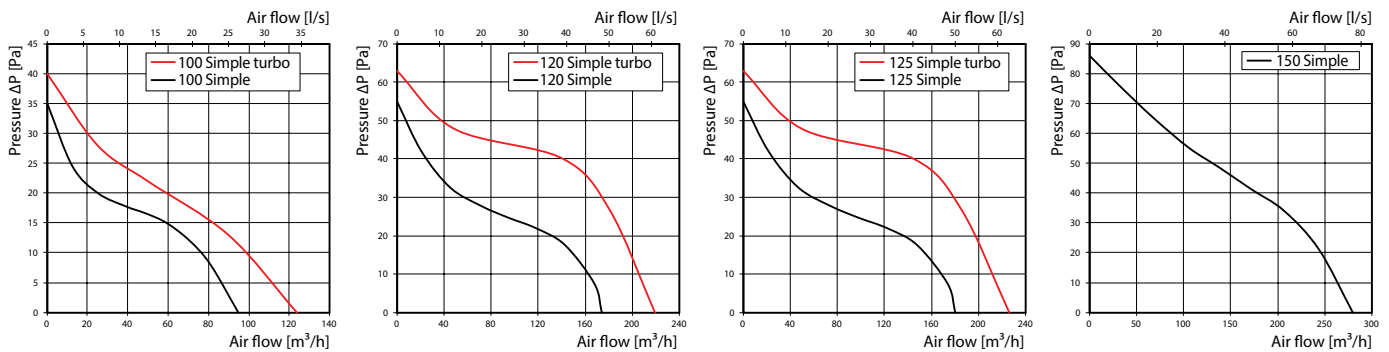
Backdraft damper

Speed controllers

Clamps



## Aerodynamic characteristics



## Technical data

| Model                  | Frequency | Voltage | Power Consumption | Current | Maximum Air Flow |       | Specific Power | Sound Pressure Level [dBA]* | Weight | IP   |
|------------------------|-----------|---------|-------------------|---------|------------------|-------|----------------|-----------------------------|--------|------|
|                        | [Hz]      | [V]     | [W]               | [A]     | [m³/h]           | [l/s] | [W/l/s]        | [dBA]                       | [kg]   |      |
| VENTS 100 Simple       | 50        | 220-240 | 14                | 0.09    | 95               | 26    | 0.53           | 34                          | 0.58   | IP34 |
|                        | 60        | 220     |                   |         |                  |       |                |                             |        |      |
| VENTS 100 Simple turbo | 50        | 220-240 | 16                | 0.01    | 124              | 34    | 0.46           | 37                          | 0.66   | IP34 |
|                        | 60        | 220     |                   |         |                  |       |                |                             |        |      |
| VENTS 120 Simple       | 50        | 220-240 | 16                | 0.09    | 174              | 48    | 0.33           | 35                          | 0.74   | IP34 |
|                        | 60        | 220     |                   |         |                  |       |                |                             |        |      |
| VENTS 120 Simple turbo | 50        | 220-240 | 24                | 0.1     | 219              | 61    | 0.39           | 37                          | 0.81   | IP34 |
|                        | 60        | 220     |                   |         |                  |       |                |                             |        |      |
| VENTS 125 Simple       | 50        | 220-240 | 16                | 0.1     | 180              | 50    | 0.32           | 35                          | 0.74   | IP34 |
|                        | 60        | 220     |                   |         |                  |       |                |                             |        |      |
| VENTS 125 Simple turbo | 50        | 220-240 | 24                | 0.105   | 226              | 63    | 0.38           | 37                          | 0.81   | IP34 |
|                        | 60        | 220     |                   |         |                  |       |                |                             |        |      |
| VENTS 150 Simple       | 50        | 220-240 | 25                | 0.17    | 280              | 78    | 0.32           | 34                          | 0.92   | IP34 |
|                        | 60        | 220     |                   |         |                  |       |                |                             |        |      |

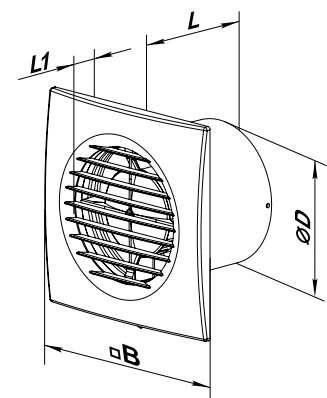
\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

## Mounting example



## Overall dimensions

| Model            | Dimensions [mm] |     |     |     |    |
|------------------|-----------------|-----|-----|-----|----|
|                  | Ø D             | B   | H   | L   | L1 |
| VENTS 100 Simple | 100             | 150 | 125 | 97  | 15 |
| VENTS 120 Simple | 120             | 175 | 140 | 94  | 15 |
| VENTS 125 Simple | 125             | 175 | 140 | 101 | 15 |
| VENTS 150 Simple | 150             | 205 | 165 | 117 | 15 |



## Certificates

The fans meet the applicable safety and electromagnetic compatibility standards.



## VENTS F Series



Axial fans for exhaust ventilation with the capacity up to 232 m<sup>3</sup>/h

### Application

- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- For rectangular ventilation shafts.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100 and 125 mm air ducts.

### Design

- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- The special front grille design enables natural ventilation of the premises without powering up the fan if required.
- Insect screen.
- Protection rating IP34.
- Ventilation grille for natural air exhaust for application in premises with gas stoves.

### Motor

- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

### Modifications and Options



**F L** – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.



**F turbo** – high-powered motor.



**F 12** – modification with low-voltage motor. 12 V AC power supply.

### Control

#### Manual:

- The fan is controlled by a room light switch. It is not included in the delivery package.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may be connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modification.

#### Automatic:

- By the electronic control unit **BU-1-60** (see Electrical Accessories). The control unit is supplied separately.

### Mounting features

- The fan is mounted directly into the ventilation shaft.
- Flexible duct application is recommended in case of remote location of the ventilation shaft. The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to wall by self-tapping screws.
- For 12 V low-voltage motor fan connection to 220 V/50 Hz power mains use the step-down transformer TRF 220/12-25 that is available upon separate order.

### Accessories



Air ducts

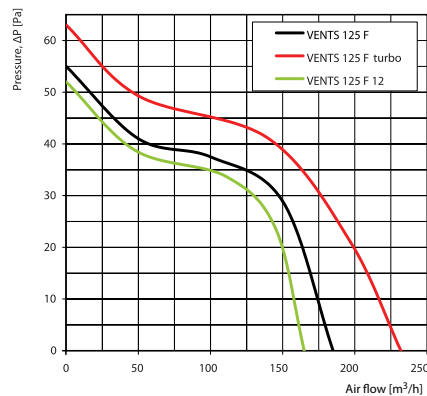
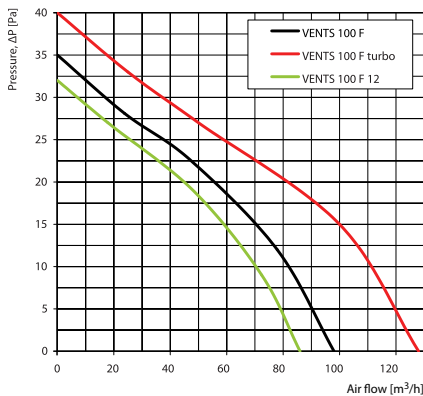
Grilles and hoods

Backdraft damper

Speed controllers

Clamps

## Aerodynamic characteristics



## Technical data

| Model                           | Frequency [Hz] | Voltage [V] | Power Consumption [W] | Current [A] | R.p.m. | Maximum air flow [m³/h] | Sound Pressure Level [dBA]* | Weight [kg] |
|---------------------------------|----------------|-------------|-----------------------|-------------|--------|-------------------------|-----------------------------|-------------|
| VENTS 100 F                     | 50             | 220-240     | 14                    | 0.085       | 2300   | 98                      | 34                          | 0.64        |
| VENTS 100 F (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 100 F turbo               | 50             | 220-240     | 16                    | 0.1         | 2300   | 128                     | 37                          | 0.72        |
| VENTS 100 F turbo (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 100 F 12                  | 50             | 12          | 14                    | 1.5         | 2200   | 86                      | 33                          | 0.63        |
| VENTS 125 F                     | 50             | 220-240     | 16                    | 0.1         | 2400   | 185                     | 35                          | 0.70        |
| VENTS 125 F (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 125 F turbo               | 50             | 220-240     | 24                    | 0.1         | 2400   | 232                     | 37                          | 0.77        |
| VENTS 125 F turbo (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 125 F 12                  | 50             | 12          | 16                    | 1.7         | 2300   | 165                     | 34                          | 0.68        |

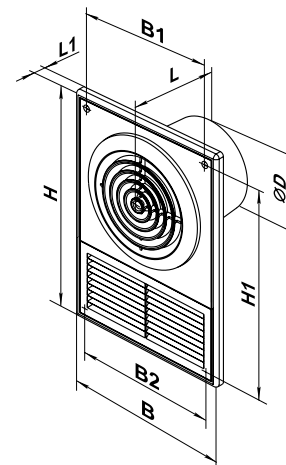
\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

## Mounting example



## Overall dimensions

| Model       | Dimensions [mm] |     |     |     |     |     |     |    |
|-------------|-----------------|-----|-----|-----|-----|-----|-----|----|
|             | Ø D             | B   | B1  | B2  | H   | H1  | L   | L1 |
| VENTS 100 F | 100             | 182 | 152 | 160 | 252 | 226 | 104 | 13 |
| VENTS 125 F | 125             | 182 | 152 | 160 | 252 | 226 | 110 | 15 |



## Certificates



The fans meet the applicable safety and electromagnetic compatibility standards.

## VENTS K Series



Axial fans for exhaust ventilation with the capacity up to 341 m<sup>3</sup>/h

### Application

- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100, 125 and 150 mm air ducts.

### Design

- Classic design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- Insect screen.
- Protection rating IP34.

### Motor

- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

### Modifications and Options



**K L** – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.



**K turbo** – high-powered motor.



**K 12** – modification with low-voltage motor. 12 V AC power supply.

### Control

#### Manual:

- The fan is controlled by a room light switch. It is not included in the delivery package.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may be connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modification.

#### Automatic:

- By the electronic control unit **BU-1-60** (see Electrical Accessories). The control unit is supplied separately.

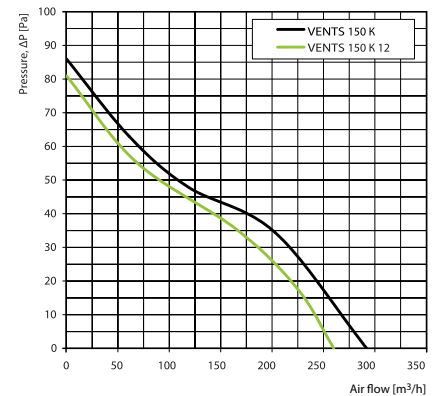
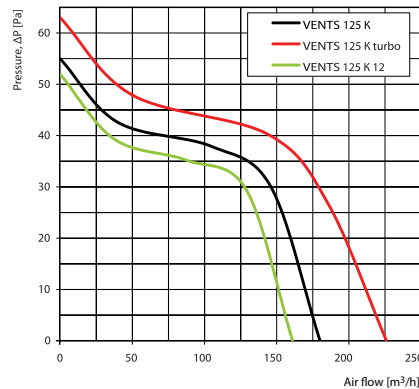
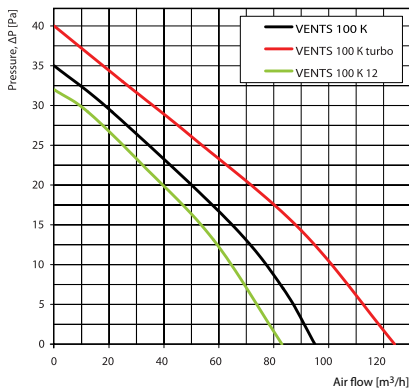
### Mounting features

- The fan is mounted directly into the ventilation shaft.
- Flexible duct application is recommended in case of remote location of the ventilation shaft. The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to wall by self-tapping screws.
- Suitable for ceiling mounting.
- For 12 V low-voltage motor fan connection to 220 V/50 Hz power mains use the step-down transformer TRF 220/12-25 that is available upon separate order.

### Accessories



## Aerodynamic characteristics



## Technical data

| Model                           | Frequency [Hz] | Voltage [V] | Power Consumption [W] | Current [A] | R.p.m. | Maximum air flow [m³/h] | Sound Pressure Level [dBA]* | Weight [kg] |
|---------------------------------|----------------|-------------|-----------------------|-------------|--------|-------------------------|-----------------------------|-------------|
| VENTS 100 K                     | 50             | 220-240     | 14                    | 0.085       | 2300   | 95                      | 34                          | 0.53        |
| VENTS 100 K (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 100 K turbo               | 50             | 220-240     | 16                    | 0.1         | 2300   | 124                     | 37                          | 0.61        |
| VENTS 100 K turbo (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 100 K 12                  | 50             | 12          | 14                    | 1.5         | 2200   | 83                      | 33                          | 0.52        |
| VENTS 125 K                     | 50             | 220-240     | 16                    | 0.1         | 2400   | 180                     | 35                          | 0.65        |
| VENTS 125 K (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 125 K turbo               | 50             | 220-240     | 24                    | 0.105       | 2400   | 226                     | 37                          | 0.72        |
| VENTS 125 K turbo (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 125 K 12                  | 50             | 12          | 16                    | 1.7         | 2300   | 161                     | 34                          | 0.63        |
| VENTS 150 K                     | 50             | 220-240     | 24                    | 0.13        | 2400   | 292                     | 38                          | 1.07        |
| VENTS 150 K (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 150 K 12                  | 50             | 12          | 29                    | 2           | 2300   | 260                     | 37                          | 1.03        |

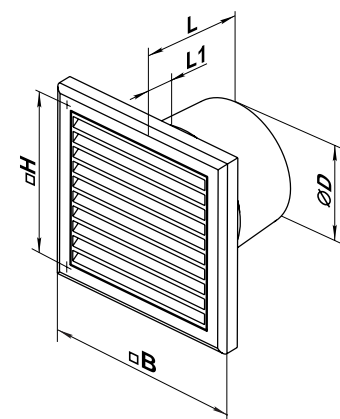
\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

## Mounting example



## Overall dimensions

| Model       | Dimensions [mm] |     |     |     |    |
|-------------|-----------------|-----|-----|-----|----|
|             | Ø D             | B   | H   | L   | L1 |
| VENTS 100 K | 100             | 154 | 110 | 105 | 15 |
| VENTS 125 K | 125             | 187 | 142 | 112 | 15 |
| VENTS 150 K | 150             | 250 | 214 | 127 | 15 |



## Certificates

The fans meet the applicable safety and electromagnetic compatibility standards.

## VENTS K1 Series



Axial fans for exhaust ventilation with the capacity up to 226 m<sup>3</sup>/h

### Application

- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100 and 125 mm air ducts.

### Design

- Classic design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- Insect screen.
- Protection rating IP34.

### Motor

- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

### Modifications and Options



**K1 L** – The motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.



**K1 turbo** – high-powered motor.



**K1 12** – modification with low-voltage motor. 12 V AC power supply.

### Control

#### Manual:

- The fan is controlled by a room light switch. It is not included in the delivery package.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may be connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modification.

#### Automatic:

- By the electronic control unit **BU-1-60** (see Electrical Accessories). The control unit is supplied separately.

### Mounting features

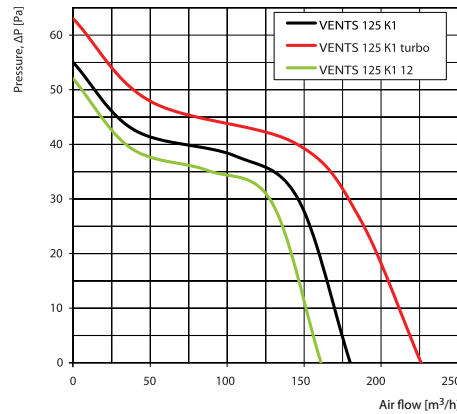
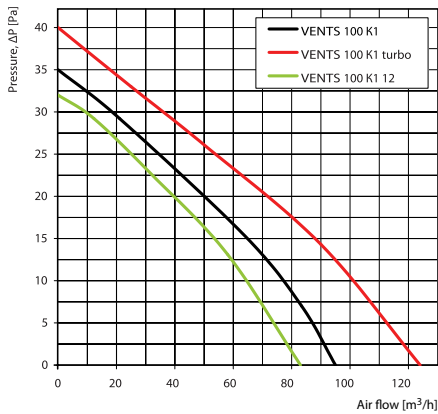
- The fan is mounted directly into the ventilation shaft.
- Flexible duct application is recommended in case of remote location of the ventilation shaft. The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to wall by self-tapping screws.
- Suitable for ceiling mounting.
- For 12 V low-voltage motor fan connection to 220 V/50 Hz power mains use the step-down transformer TRF 220/12-25 that is available upon separate order.

### Accessories





## Aerodynamic characteristics



## Technical data

| Model                            | Frequency [Hz] | Voltage [V] | Power Consumption [W] | Current [A] | R.p.m. | Maximum air flow [m³/h] | Sound Pressure Level [dBA]* | Weight [kg] |
|----------------------------------|----------------|-------------|-----------------------|-------------|--------|-------------------------|-----------------------------|-------------|
| VENTS 100 K1                     | 50             | 220-240     | 14                    | 0.085       | 2300   | 95                      | 34                          | 0.52        |
| VENTS 100 K1 (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 100 K1 turbo               | 50             | 220-240     | 16                    | 0.1         | 2300   | 124                     | 37                          | 0.60        |
| VENTS 100 K1 turbo (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 100 K1 12                  | 50             | 12          | 14                    | 1.5         | 2200   | 83                      | 33                          | 0.50        |
| VENTS 125 K1                     | 50             | 220-240     | 16                    | 0.1         | 2400   | 180                     | 35                          | 0.70        |
| VENTS 125 K1 (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 125 K1 turbo               | 50             | 220-240     | 24                    | 0.105       | 2400   | 226                     | 37                          | 0.77        |
| VENTS 125 K1 turbo (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 125 K1 12                  | 50             | 12          | 16                    | 1.7         | 2300   | 161                     | 34                          | 0.66        |

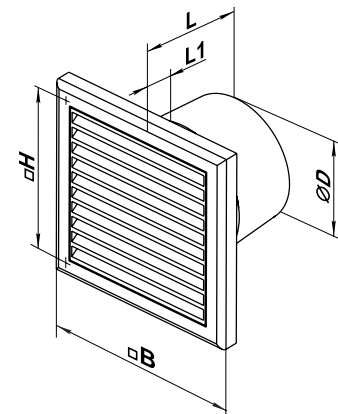
\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

## Mounting example



## Overall dimensions

| Model        | Dimensions [mm] |     |     |       |      |
|--------------|-----------------|-----|-----|-------|------|
|              | Ø D             | B   | H   | L     | L1   |
| VENTS 100 K1 | 100             | 154 | 110 | 108.5 | 18.5 |
| VENTS 125 K1 | 125             | 187 | 142 | 116   | 19   |



## Certificates



The fans meet the applicable safety and electromagnetic compatibility standards.

## VENTS PF Series



Axial fans for exhaust ventilation with air capacity up to 342 m<sup>3</sup>/h

### Application

- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100, 125 and 150 mm air ducts.

### Design

- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- Insect screen.
- Protection rating IP34.

### Motor

- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

### Modifications and Options



**PF L** – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.



**PF turbo** – high-powered motor.



**PF press** – 5-blade low-noise impeller with improved aerodynamics for higher fan capacity.



**PF 12** – modification with low-voltage motor. 12 V AC power supply.

### Control

#### Manual:

- The fan is controlled by a room light switch. It is not included in the delivery set.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may be connected to the same controller. Speed controllers can not be connected to the fans with the T, TH, TP, VT, VTH modifications.

#### Automatic:

- By the **BU-1-60** electronic control unit (see Electrical Accessories). The control unit is supplied separately.

### Mounting features

- The fan is mounted directly into the ventilation shaft.
- In case of remote location of the ventilation shaft flexible air ducts may be used. The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to wall by self-tapping screws.
- Suitable for ceiling mounting.
- To connect a fan with a 12 V low voltage motor to 220 V/50 Hz power mains, it is necessary to purchase a step-down transformer (e.g. the TRF 220/12-25 transformer).

### Accessories



Air ducts

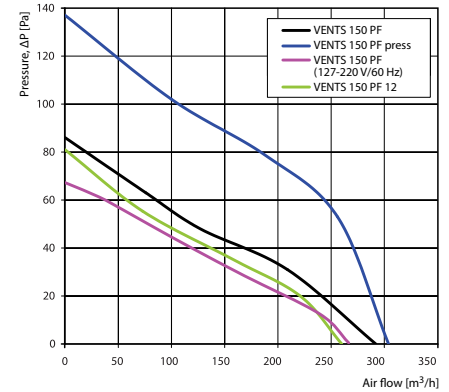
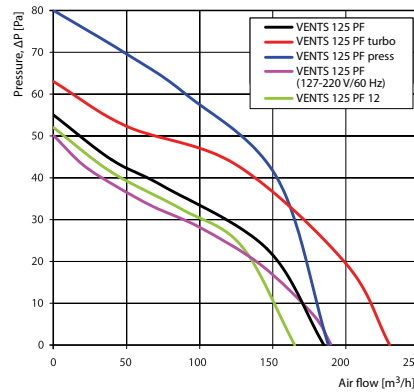
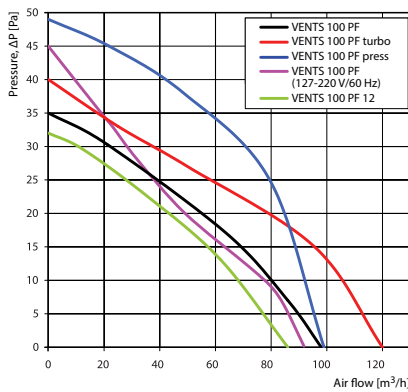
Grilles and hoods

Backdraft damper

Speed controllers

Clamps

### Aerodynamic characteristics



### Technical data

| Model                            | Frequency [Hz] | Voltage [V] | Power Consumption [W] | Current [A] | R.p.m. | Maximum air flow [m³/h] | Sound Pressure Level [dBA]* | Weight [kg] |
|----------------------------------|----------------|-------------|-----------------------|-------------|--------|-------------------------|-----------------------------|-------------|
| VENTS 100 PF                     | 50             | 220-240     | 14                    | 0.085       | 2300   | 98                      | 34                          | 0.47        |
| VENTS 100 PF (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 100 PF turbo               | 50             | 220-240     | 16                    | 0.1         | 2300   | 120                     | 40                          | 0.52        |
| VENTS 100 PF turbo (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 100 PF press               | 50             | 220-240     | 16                    | 0.1         | 2300   | 99                      | 38                          | 0.47        |
| VENTS 100 PF press (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 100 PF (127-220 V/60 Hz)   | 60             | 127         | 10                    | 0.115       | 2500   | 92                      | 34                          | 0.47        |
|                                  |                | 220         | 9                     | 0.054       |        |                         |                             |             |
| VENTS 100 PF 12                  | 50             | 12          | 14                    | 1.5         | 2200   | 86                      | 33                          | 0.46        |
| VENTS 125 PF                     | 50             | 220-240     | 16                    | 0.1         | 2400   | 185                     | 35                          | 0.58        |
| VENTS 125 PF (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 125 PF turbo               | 50             | 220-240     | 24                    | 0.1         | 2400   | 230                     | 42                          | 0.60        |
| VENTS 125 PF turbo (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 125 PF press               | 50             | 220-240     | 24                    | 0.105       | 2400   | 188                     | 39                          | 0.58        |
| VENTS 125 PF press (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 125 PF (127-220 V/60 Hz)   | 60             | 127         | 16                    | 0.119       | 2400   | 190                     | 36                          | 0.58        |
|                                  |                | 220         | 15                    | 0.102       |        |                         |                             |             |
| VENTS 125 PF 12                  | 50             | 12          | 16                    | 1.7         | 2300   | 165                     | 34                          | 0.56        |
| VENTS 150 PF                     | 50             | 220-240     | 24                    | 0.13        | 2400   | 292                     | 38                          | 0.90        |
| VENTS 150 PF (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 150 PF press               | 50             | 220-240     | 29                    | 0.13        | 2400   | 304                     | 40                          | 0.90        |
| VENTS 150 PF press (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 150 PF (127-220 V/60 Hz)   | 60             | 127         | 25                    | 0.338       | 2350   | 267                     | 38                          | 0.90        |
|                                  |                | 220         | 25                    | 0.175       |        |                         |                             |             |
| VENTS 150 PF 12                  | 50             | 12          | 29                    | 2           | 2300   | 260                     | 37                          | 0.74        |

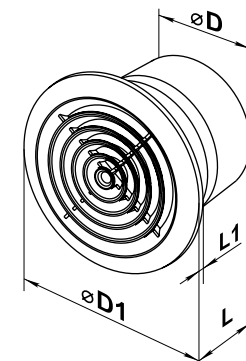
\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

### Mounting example



### Overall dimensions

| Model        | Dimensions [mm] |      |     |    |
|--------------|-----------------|------|-----|----|
|              | Ø D             | Ø D1 | L   | L1 |
| VENTS 100 PF | 100             | 141  | 104 | 13 |
| VENTS 125 PF | 125             | 166  | 110 | 15 |
| VENTS 150 PF | 150             | 188  | 125 | 15 |



### Certificates



The fans meet the applicable safety and electromagnetic compatibility standards.

## VENTS S Series



Axial fans for exhaust ventilation with the capacity up to 341 m<sup>3</sup>/h

### Application

- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100, 120, 125 and 150 mm air ducts.



### Design

- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- Ultra thin front panel.
- Insect screen.
- Protection rating IP34.

### Motor

- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

### Modifications and Options

**S1** – shortened flange model.



**S K** – fan is equipped with a backdraft damper for back flow preventing.



**S L** – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.



**S turbo** – high-powered motor.



**S 12** – modification with low-voltage motor. 12 V AC power supply.



**ST** – equipped with a regulated timer with the operating time from 2 to 30 minutes.



**STH** – equipped with a timer with the operating time from 2 to 30 minutes and a humidity sensor with the threshold value from 60 to 90 %.



**SV** – equipped with a pull cord switch.



**SVT** – equipped with a pull cord switch and a regulated timer with the operating time adjustable from 2 to 30 minutes.



**SVTH** – equipped with a pull cord switch, regulated timer with the operating time adjustable from 2 to 30 minutes and a humidity sensor with the operating threshold range from 60 to 90 %.

### Control

#### Manual:

- The fan is controlled by a room light switch. It is not included in the delivery package.
- The fan is controlled by the built-in pull cord switch **V**. Not applied in case of ceiling mounting.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may be connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modification.

#### Automatic:

- By the electronic control unit **BU-1-60** (see Electrical Accessories). The control unit is supplied separately.
- By the timer **T** (the built-in turn-off delay timer enables the fan operation within 2 to 30 minutes after the fan switching off).
- By the humidity sensor and timer **TH** (if the humidity level in the room exceeds the sensor threshold adjustable value within 60-90 % the fan switches automatically on and operates until the humidity level drops to the standard level, after that the fan continues operating within the time period according to the timer setting, then shuts down).

### Mounting features

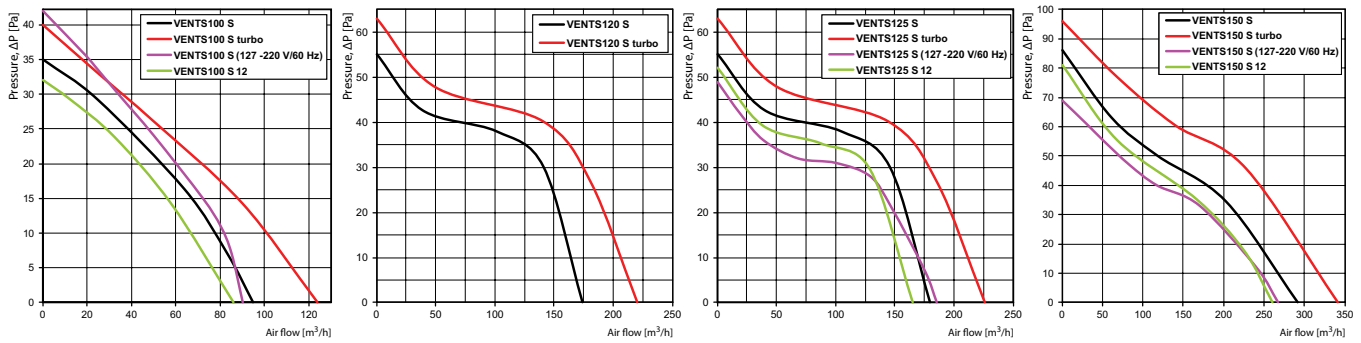
- The fan is mounted directly into the ventilation shaft.
- Flexible duct application is recommended in case of remote location of the ventilation shaft. The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to wall by self-tapping screws.
- Suitable for ceiling mounting.
- For 12 V low-voltage motor fan connection to 220 V/50 Hz power mains use the step-down transformer TRF 220/12-25 that is available upon separate order.

### Accessories





## Aerodynamic characteristics



## Technical data

| Model                           | Frequency [Hz] | Voltage [V] | Power Consumption [W] | Current [A] | R.p.m. | Maximum air flow [m³/h] | Sound Pressure Level [dBA]* | Weight [kg] |
|---------------------------------|----------------|-------------|-----------------------|-------------|--------|-------------------------|-----------------------------|-------------|
| VENTS 100 S                     | 50             | 220-240     | 14                    | 0.085       | 2300   | 95                      | 34                          | 0.58        |
| VENTS 100 S (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 100 S turbo               | 50             | 220-240     | 16                    | 0.1         | 2300   | 124                     | 37                          | 0.66        |
| VENTS 100 S turbo (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 100 S (127-220 V/60 Hz)   | 60             | 127         | 10                    | 0.115       | 2500   | 90                      | 34                          | 0.59        |
|                                 |                | 220         | 9                     | 0.054       |        |                         |                             |             |
| VENTS 100 S 12                  | 50             | 12          | 14                    | 1.5         | 2200   | 86                      | 33                          | 0.60        |
| VENTS 120 S                     | 50             | 220-240     | 17                    | 0.1         | 2400   | 174                     | 36                          | 0.74        |
| VENTS 120 S (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 120 S turbo               | 50             | 220-240     | 24                    | 0.105       | 2400   | 220                     | 37                          | 0.81        |
| VENTS 120 S turbo (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 125 S                     | 50             | 220-240     | 16                    | 0.1         | 2400   | 180                     | 35                          | 0.75        |
| VENTS 125 S (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 125 S turbo               | 50             | 220-240     | 24                    | 0.105       | 2400   | 226                     | 37                          | 0.78        |
|                                 |                |             |                       |             |        |                         |                             |             |
| VENTS 125 S (127-220 V/60 Hz)   | 60             | 127         | 16                    | 0.119       | 2400   | 185                     | 36                          | 0.76        |
|                                 |                | 220         | 15                    | 0.102       |        |                         |                             |             |
| VENTS 125 S 12                  | 50             | 12          | 16                    | 1.7         | 2300   | 165                     | 34                          | 0.78        |
| VENTS 150 S                     | 50             | 220-240     | 24                    | 0.13        | 2400   | 292                     | 38                          | 1.13        |
| VENTS 150 S (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 150 S (127-220 V/60 Hz)   | 60             | 127         | 25                    | 0.388       | 2350   | 267                     | 38                          | 1.13        |
|                                 |                | 220         | 25                    | 0.175       |        |                         |                             |             |
| VENTS 150 S 12                  | 50             | 12          | 24                    | 2           | 2300   | 260                     | 37                          | 1.13        |

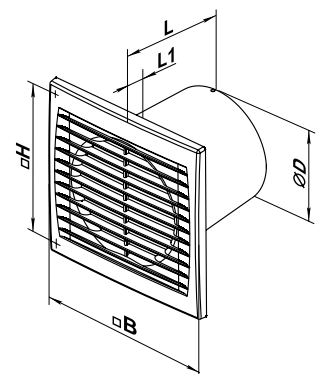
\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

## Mounting example



## Overall dimensions

| Model        | Dimensions [mm] |     |     |     |    |
|--------------|-----------------|-----|-----|-----|----|
|              | ØD              | B   | H   | L   | L1 |
| VENTS 100 S  | 100             | 150 | 120 | 108 | 12 |
| VENTS 100 S1 | 100             | 150 | 120 | 93  | 12 |
| VENTS 120 S  | 120             | 177 | 140 | 108 | 13 |
| VENTS 125 S  | 125             | 176 | 140 | 114 | 13 |
| VENTS 125 S1 | 125             | 176 | 140 | 96  | 13 |
| VENTS 150 S  | 150             | 205 | 165 | 132 | 14 |



## Certificates

The fans meet the applicable safety and electromagnetic compatibility standards.



## VENTS D Series



Axial fans for exhaust ventilation with air capacity up to 341 m<sup>3</sup>/h

### Application

- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100, 120, 125 and 150 mm air ducts.



### Design

- Ultra slim front panel – only 6.5 mm.
- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- Insect screen.
- Protection rating IP34.

### Motor

- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

### Modifications and Options

**D1** – shortened spigot model.



**DK** – fan is equipped with a backdraft damper for back flow preventing.



**DL** – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.



**D turbo** – high-powered motor.



**D 12** – modification with low-voltage motor. 12 V AC power supply.



**DT** – equipped with a regulated timer with the operating time from 2 to 30 minutes.



**DTH** – equipped with a timer with the operating time from 2 to 30 minutes and a humidity sensor with the threshold value from 60 to 90 %.



**DV** – equipped with a pull cord switch.



**DVT** – equipped with a pull cord switch and a regulated timer with the operating time adjustable from 2 to 30 minutes.



**DVTH** – equipped with a pull cord switch, regulated timer with the operating time adjustable from 2 to 30 minutes and a humidity sensor with the operating threshold range from 60 to 90 %.

### Control

#### Manual:

- The fan is controlled by a room light switch. It is not included in the delivery set.
- The fan is controlled by the built-in **V** pull cord switch. Not applied in case of ceiling mounting.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may be connected to the same controller. Speed controllers can not be connected to the fans with the T, TH, TP, VT, VTH modifications.

#### Automatic:

- By the **BU-1-60** electronic control unit (see Electrical Accessories). The control unit is supplied separately.
- By the **T** timer (the built-in turn-off delay timer enables the fan operation within 2 to 30 minutes after the fan switching off).
- By the humidity sensor and the **TH** timer (if the humidity level in the room exceeds the sensor threshold adjustable value within 60-90 %, the fan switches automatically on and operates until the humidity level drops to the standard level, after that the fan continues operating within the time period according to the timer setting, then shuts down).

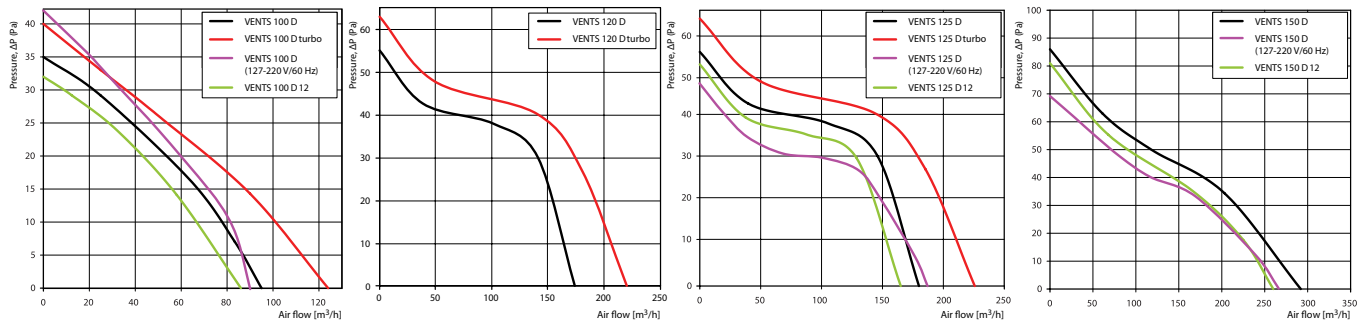
### Mounting features

- The fan is mounted directly into the ventilation shaft.
- In case of remote location of the ventilation shaft flexible air ducts may be used. The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to the wall by means of screws.
- Suitable for ceiling mounting.
- To connect a fan with a 12 V low voltage motor to 220 V/50 Hz power mains, it is necessary to purchase a step-down transformer (e.g. the TRF 220/12-25 transformer).

### Accessories



## Aerodynamic characteristics



## Technical data

| Model                           | Frequency [Hz] | Voltage [V] | Power Consumption [W] | Current [A]    | R.p.m. | Maximum air flow [m³/h] | Sound Pressure Level [dBA]* | Weight [kg] |
|---------------------------------|----------------|-------------|-----------------------|----------------|--------|-------------------------|-----------------------------|-------------|
| VENTS 100 D                     | 50             | 220-240     | 14                    | 0.085          | 2300   | 95                      | 34                          | 0.58        |
| VENTS 100 D (220 V/60 Hz)       | 60             | 220         |                       |                |        |                         |                             |             |
| VENTS 100 D turbo               | 50             | 220-240     | 16                    | 0.1            | 2300   | 124                     | 37                          | 0.66        |
| VENTS 100 D turbo (220 V/60 Hz) | 60             | 220         |                       |                |        |                         |                             |             |
| VENTS 100 D (127-220 V/60 Hz)   | 60             | 127<br>220  | 10<br>9               | 0.115<br>0.054 | 2500   | 90                      | 34                          | 0.59        |
| VENTS 100 D 12                  | 50             | 12          | 14                    | 1.5            | 2200   | 86                      | 33                          | 0.60        |
| VENTS 120 D                     | 50             | 220-240     | 17                    | 0.1            | 2400   | 174                     | 36                          | 0.74        |
| VENTS 120 D (220 V/60 Hz)       | 60             | 220         |                       |                |        |                         |                             |             |
| VENTS 120 D turbo               | 50             | 220-240     | 24                    | 0.105          | 2400   | 220                     | 37                          | 0.81        |
| VENTS 120 D turbo (220 V/60 Hz) | 60             | 220         |                       |                |        |                         |                             |             |
| VENTS 125 D                     | 50             | 220-240     | 16                    | 0.1            | 2400   | 180                     | 35                          | 0.74        |
| VENTS 125 D (220 V/60 Hz)       | 60             | 220         |                       |                |        |                         |                             |             |
| VENTS 125 D turbo               | 50             | 220-240     | 24                    | 0.105          | 2400   | 226                     | 37                          | 0.81        |
| VENTS 125 D turbo (220 V/60 Hz) | 60             | 220         |                       |                |        |                         |                             |             |
| VENTS 125 D (127-220 V/60 Hz)   | 60             | 127<br>220  | 16<br>15              | 0.119<br>0.102 | 2400   | 185                     | 36                          | 0.75        |
| VENTS 125 D 12                  | 50             | 12          | 16                    | 1.7            | 2300   | 165                     | 34                          | 0.69        |
| VENTS 150 D                     | 50             | 220-240     | 24                    | 0.13           | 2400   | 292                     | 38                          | 0.92        |
| VENTS 150 D (220 V/60 Hz)       | 60             | 220         |                       |                |        |                         |                             |             |
| VENTS 150 D (127-220 V/60 Hz)   | 60             | 127<br>220  | 25<br>25              | 0.338<br>0.175 | 2350   | 267                     | 38                          | 0.93        |
| VENTS 150 D 12                  | 50             | 12          | 29                    | 2              | 2300   | 260                     | 37                          | 0.88        |

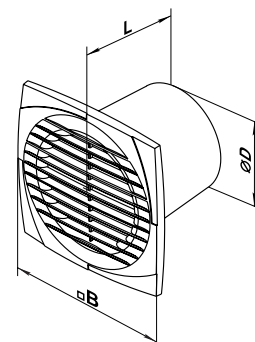
\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

## Mounting example



## Overall dimensions

| Model        | Dimensions [mm] |     |     |
|--------------|-----------------|-----|-----|
|              | Ø D             | B   | L   |
| VENTS 100 D  | 100             | 150 | 109 |
| VENTS 100 D1 | 100             | 150 | 95  |
| VENTS 120 D  | 117             | 176 | 107 |
| VENTS 125 D  | 125             | 176 | 113 |
| VENTS 125 D1 | 125             | 176 | 96  |
| VENTS 150 D  | 150             | 205 | 132 |



## Certificates

The fans meet the applicable safety and electromagnetic compatibility standards.

## VENTS LP Series



Axial decorative fans with a short air duct 50 mm long for exhaust ventilation with air flow up to 94 m<sup>3</sup>/h

### Application

- Continuous or periodic exhaust ventilation of bathrooms, showers, kitchens, and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100 mm air ducts.

### Design

- Modern design and aesthetic look.
- The front panel is made of high-quality durable ABS plastic, UV resistant. The casing and the impeller are made of polypropylene.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- Protection rating IP24.

### Motor

- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

### Modifications and options



**LP K** – the fan is equipped with a backdraft damper for back flow preventing.



**LP L** – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.



**LP T** – equipped with a regulated timer with the operating time from 2 to 30 minutes.



**LP TH** – equipped with a timer with the operating time from 2 to 30 minutes and a humidity sensor with the threshold range from 60 to 90 %.



**LP V** – equipped with a pull cord switch.



**LP VT** – equipped with a pull cord switch and a regulated timer with the operating time adjustable from 2 to 30 minutes.



**LP VTH** – equipped with a pull cord switch, regulated timer with the operating time adjustable from 2 to 30 minutes and a humidity sensor with the operating threshold range from 60 to 90 %.

### Control

#### Manual:

- The fan is controlled by a room light switch. It is not included in the delivery set.
- The fan is controlled by a built-in pull cord switch **V**. Not applied in case of ceiling mounting.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may be connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modifications.

#### Automatic:

- By a **BU-1-60** electronic control unit (see Electrical Accessories). The control unit is supplied separately.
- By a **T** timer (the built-in turn-off delay timer enables the fan operation within 2 to 30 minutes after the fan switching off).
- By a humidity sensor and a **TH** timer (if the humidity level in the room exceeds the sensor threshold value adjustable within 60-90 %, the fan switches automatically on and operates until the humidity level drops to the standard level, after that the fan continues operating within the time period according to the timer setting, then it shuts down).

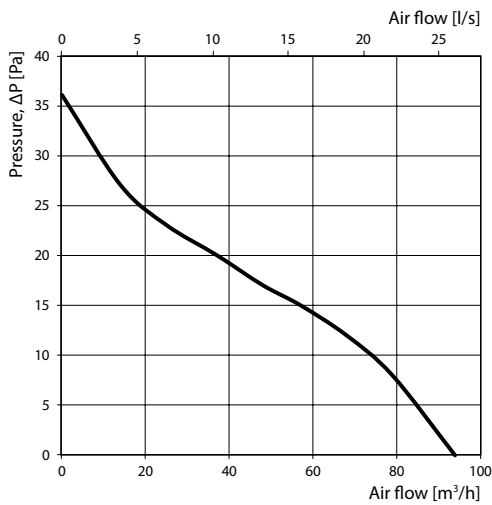
### Mounting features

- The fan is mounted directly into the ventilation shaft.
- In case of remote location of the ventilation shaft, flexible air ducts may be used. The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to the wall by means of screws.
- Can be ceiling mounted in case the fan is ordered with ball bearings (L modification).

### Accessories



### Aerodynamic characteristics



### Technical data

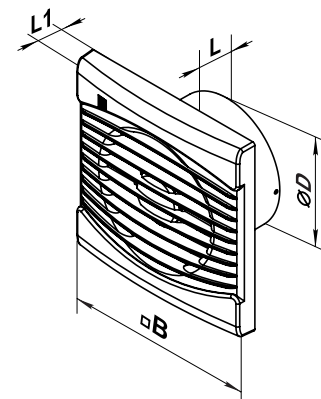
| Model                      | Frequency [Hz] | Voltage [V] | Power consumption [W] | Current [A] | RPM  | Maximum air flow [m³/h] | Sound pressure level at 3 m [dBA] | Weight [kg] |
|----------------------------|----------------|-------------|-----------------------|-------------|------|-------------------------|-----------------------------------|-------------|
| VENTS 100 LP               | 50             | 220-240     | 14                    | 0.097       | 2400 | 94                      | 36                                | 0.55        |
| VENTS 100 LP (220 V/60 Hz) | 60             | 220         |                       |             |      |                         |                                   |             |

### Mounting example



### Overall dimensions

| Model        | Dimensions [mm] |     |    |    |
|--------------|-----------------|-----|----|----|
|              | Ø D             | B   | L  | L1 |
| VENTS LP 100 | 100             | 154 | 50 | 22 |



### Certificates

The fans meet the applicable safety and electromagnetic compatibility standards.





# AXIAL DECORATIVE FANS







**Axial decorative fans**  
**VENTS LD, VENTS LD Auto, VENTS LD light Series**

Air flow up to 310 m<sup>3</sup>/h

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**Axial decorative fans**  
**VENTS LD Fresh Time Series**

Air flow up to 310 m<sup>3</sup>/h

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**Axial decorative fans**  
**VENTS X Series, VENTS X Star Series**

Air flow up to 116 m<sup>3</sup>/h

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**Axial decorative fans**  
**VENTS Lumis Series**

Air flow up to 115 m<sup>3</sup>/h

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## VENTS LD Series



Axial decorative fans for exhaust ventilation with air capacity up to 310 m<sup>3</sup>/h

### Application

- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100, 120, 125 and 150 mm air ducts.



LDA



LDA chrome



LD alumat

### Design

- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- Various decorative plates for the front panel of the natural aluminum.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- Protection rating IP34.

### Motor

- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

### Modifications and Options

**LDA** – the fan with a ground aluminium front panel.

**LDA chrome** – the fan with a mirror finish aluminium front panel.

**LD alumat** – the fan with a front panel painted silver (matt).

**LD1** – shortened branch pipe model.



**LD K** – fan is equipped with a backdraft damper for back flow preventing.



**LD L** – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.



**LD turbo** – high-powered motor.



**LD 12** – modification with low-voltage motor. 12 V AC power supply.



**LDT** – equipped with a regulated timer with the operating time from 2 to 30 minutes.



**LDTH** – equipped with a timer with the operating time from 2 to 30 minutes and a humidity sensor with the threshold value from 60 to 90 %.



**LDV** – equipped with a pull cord switch.



**LDVT** – equipped with a pull cord switch and a regulated timer with the operating time adjustable from 2 to 30 minutes.



**LDVTH** – equipped with a pull cord switch, regulated timer with the operating time adjustable from 2 to 30 minutes and a humidity sensor with the operating threshold range from 60 to 90 %.

### Control

#### Manual:

- The fan is controlled by a room light switch. It is not included in the delivery set.
- The fan is controlled by the built-in pull cord switch **V**. Not applied in case of ceiling mounting.

• Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may be connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modifications.

#### Automatic:

- By the **BU-1-60** electronic control unit (see Electrical Accessories). The control unit is supplied separately.
- By the **T** timer (the built-in turn-off delay timer enables the fan operation within 2 to 30 minutes after the fan switching off).
- By the humidity sensor and the **TH** timer (if the humidity level in the room exceeds the sensor threshold adjustable value within 60-90 % the fan switches automatically on and operates until the humidity level drops to the standard level, after that the fan continues operating within the time period according to the timer setting, then shuts down).

### Mounting features

- The fan is mounted directly into the ventilation shaft.
- In case of remote location of the ventilation shaft flexible air ducts may be used. The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to the wall by means of screws.
- Suitable for ceiling mounting.
- To connect a fan with a 12 V low voltage motor to 220 V/50 Hz power mains, it is necessary to purchase a step-down transformer (e.g. the TRF 220/12-25 transformer).

### Accessories

Air ducts



Grilles and hoods



Backdraft damper



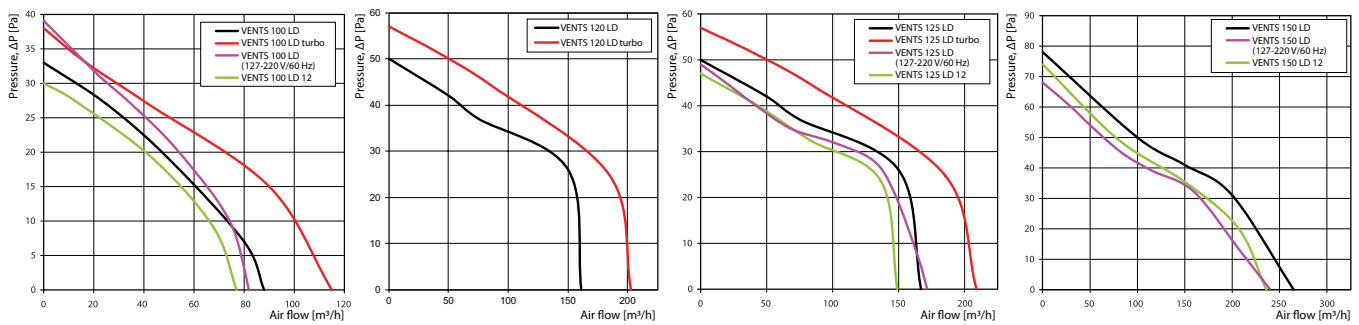
Speed controllers



Clamps



## Aerodynamic characteristics



## Technical data

| Model                            | Frequency [Hz] | Voltage [V] | Power Consumption [W] | Current [A] | R.p.m. | Maximum air flow [m³/h] | Sound Pressure Level [dBA]* | Weight [kg] |
|----------------------------------|----------------|-------------|-----------------------|-------------|--------|-------------------------|-----------------------------|-------------|
| VENTS 100 LD                     | 50             | 220-240     | 14                    | 0.085       | 2300   | 88                      | 33                          | 0.60        |
| VENTS 100 LD (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 100 LD turbo               | 50             | 220-240     | 16                    | 0.1         | 2300   | 115                     | 36                          | 0.68        |
| VENTS 100 LD turbo (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 100 LD (127-220 V/60 Hz)   | 60             | 127         | 10                    | 0.115       | 2500   | 82                      | 33                          | 0.60        |
|                                  |                | 220         | 9                     | 0.054       |        |                         |                             |             |
| VENTS 100 LD 12                  | 50             | 12          | 14                    | 1.5         | 2200   | 77                      | 32                          | 0.59        |
| VENTS 120 LD                     | 50             | 220-240     | 16                    | 0.1         | 2400   | 161                     | 34                          | 0.74        |
| VENTS 120 LD (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 120 LD turbo               | 50             | 220-240     | 24                    | 0.105       | 2400   | 203                     | 36                          | 0.84        |
| VENTS 120 LD turbo (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 125 LD                     | 50             | 220-240     | 16                    | 0.1         | 2400   | 167                     | 34                          | 0.74        |
| VENTS 125 LD (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 125 LD turbo               | 50             | 220-240     | 24                    | 0.105       | 2400   | 209                     | 36                          | 0.84        |
| VENTS 125 LD turbo (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 125 LD (127-220 V/60 Hz)   | 60             | 127         | 16                    | 0.119       | 2400   | 172                     | 35                          | 0.74        |
|                                  |                | 220         | 15                    | 0.102       |        |                         |                             |             |
| VENTS 125 LD 12                  | 50             | 12          | 16                    | 1.7         | 2300   | 149                     | 33                          | 0.72        |
| VENTS 150 LD                     | 50             | 220-240     | 24                    | 0.13        | 2400   | 265                     | 37                          | 0.96        |
| VENTS 150 LD (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 150 LD (127-220 V/60 Hz)   | 60             | 127         | 25                    | 0.338       | 2350   | 240                     | 37                          | 0.96        |
|                                  |                | 220         | 25                    | 0.175       |        |                         |                             |             |
| VENTS 150 LD 12                  | 50             | 12          | 29                    | 2           | 2300   | 236                     | 36                          | 0.92        |

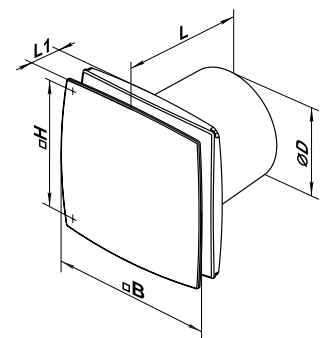
\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

## Mounting example



## Overall dimensions

| Model         | Dimensions [mm] |     |     |     |    |
|---------------|-----------------|-----|-----|-----|----|
|               | Ø D             | B   | H   | L   | L1 |
| VENTS 100 LD  | 100             | 152 | 120 | 126 | 30 |
| VENTS 100 LD1 | 100             | 152 | 120 | 111 | 30 |
| VENTS 120 LD  | 120             | 177 | 140 | 129 | 34 |
| VENTS 125 LD  | 125             | 177 | 140 | 135 | 34 |
| VENTS 125 LD1 | 125             | 177 | 140 | 116 | 34 |
| VENTS 150 LD  | 150             | 206 | 165 | 154 | 36 |



## Certificates



The fans meet the applicable safety and electromagnetic compatibility standards.

## VENTS LD Auto Series



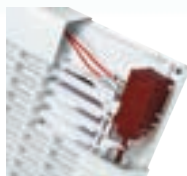
Exhaust axial decorative fans with automatic louvre shutters with air flow up to 128 m<sup>3</sup>/h

### Application

- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100 mm air ducts.



Fan off – louvre shutters CLOSED



Fan on – louvre shutters OPEN

### Design

- Modern design and aesthetic look.
- The casing, impeller and front panel are made of high-quality and durable UV-resistant ABS plastic.
- Various decorative natural aluminium plates.
- The thermal actuator provides smooth opening and closing of the automatic louvre shutters that prevent air back drafting.
- The impeller design enhances the fan efficiency and prolongs the motor service life.
- Protection rating IP24.

### Motor

- Reliable motor with low energy demand
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

### Modifications and options



**LD Auto L** – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.



**LD Auto turbo** – high-powered motor.



**LD Auto press** – 5-blade low-noise impeller with improved aerodynamics for higher fan capacity.



**LD Auto 12** – equipped with a reliable low-voltage motor, 12 V.



**LD Auto T** – equipped with a turn-off delay timer adjustable from 2 to 30 minutes.



**LD Auto TH** – equipped with a turn-off delay timer adjustable from 2 to 30 minutes and a humidity sensor adjustable from 60 to 90 %.



**LD Auto V** – equipped with a pull cord switch.



**LD Auto VT** – equipped with a pull cord switch and a turn-off delay timer adjustable from 2 to 30 minutes.



**LD Auto VTH** – equipped with a pull cord switch, turn-off delay timer adjustable from 2 to 30 minutes and a humidity sensor adjustable from 60 to 90 %.

### Control

#### Manual:

- The fan is controlled with a room light switch (not included into delivery set).
- The fan is controlled with a built-in pull cord switch "V". This option is not applicable for ceiling mounting.

#### Automatic:

- Speed control with a an electronic control unit **BU-1-60**, refer Electric accessories. The control unit is available upon separate order.
- Fan control with a turn-off delay timer "T" that enables fan running from 2 to 30 minutes after turning the fan off.
- Fan control with a humidity sensor and turn-off delay timer "TH" that enables fan switching on and running until the indoor humidity drops below the set point adjustable from 60 to 90 % and subsequent fan running within the set time before turning off.

### Mounting features

- The fan is mounted directly into the ventilation shaft.
- Flexible duct connection is recommended in case of the remote ventilation shaft location. The air duct is connected to the fan exhaust flange through a clamp.
- Fixing with screws.
- Suitable for ceiling mounting.
- The step-down transformer (TRF 220/12-25) enables connection of a low-voltage fan 12 V/50 Hz to 220 V/50 Hz power mains. Available upon separate order.

### Accessories

Air ducts



Grilles and hoods



Back valves



Speed controllers



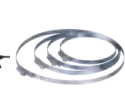
Control unit



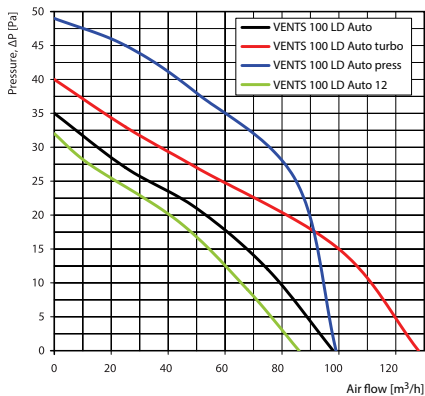
Transformer



Clamps



## Aerodynamic characteristics



## Technical data

| Model                                 | Frequency [Hz] | Voltage [V] | Power Consumption [W] | Current [A] | R.p.m. | Maximum air flow [m³/h] | Sound Pressure Level [dBA]* | Weight [kg] |
|---------------------------------------|----------------|-------------|-----------------------|-------------|--------|-------------------------|-----------------------------|-------------|
| VENTS 100 LD Auto                     | 50             | 220-240     | 18                    | 0.085       | 2300   | 98                      | 34                          | 0.73        |
| VENTS 100 LD Auto (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 100 LD Auto turbo               | 50             | 220-240     | 20                    | 0.1         | 2300   | 128                     | 37                          | 0.79        |
| VENTS 100 LD Auto turbo (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 100 LD Auto press               | 50             | 220-240     | 20                    | 0.1         | 2300   | 99                      | 37                          | 0.73        |
| VENTS 100 LD Auto press (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 100 LD Auto 12                  | 50/60          | 12          | 18                    | 1.5         | 2200   | 86                      | 33                          | 0.72        |

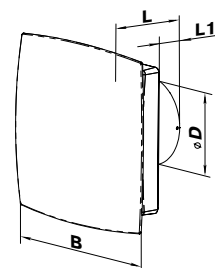
\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

## Mounting example



## Overall dimensions

| Model             | Dimensions [mm] |     |     |    |
|-------------------|-----------------|-----|-----|----|
|                   | Ø D             | B   | L   | L1 |
| VENTS 100 LD Auto | 99.5            | 205 | 110 | 60 |



## Certificates

The fans meet the applicable safety and electromagnetic compatibility standards.



## VENTS LD light Series



Exhaust axial decorative fans with air flow up to 310 m<sup>3</sup>/h

### Application

- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100, 125 and 150 mm air ducts.



LD Light blue



LD Light red

### Design

- Modern design and original look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- Front panel edge is made of transparent plexiglass with LED illumination of various colours (blue, red, green).
- The impeller design enhances the fan efficiency and prolongs the motor service life.
- Protection rating IP34.

### Motor

- Reliable motor with low energy demand.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

### Modifications and options



**LD Light K** – the fan is equipped with a back valve to prevent air backdrafting.



**LD Light L** – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.



**LD Light turbo** – high-powered motor.



**LD Light T** – equipped with a turn-off delay timer adjustable from 2 to 30 minutes.



**LD Light TH** – equipped with a turn-off delay timer adjustable from 2 to 30 minutes and a humidity sensor adjustable from 60 to 90 %.



**LD Light V** – equipped with a pull cord switch.



**LD Light VT** – equipped with a pull cord switch and a turn-off delay timer adjustable from 2 to 30 minutes.



**LD Light VTH** – equipped with a pull cord switch, turn-off delay timer adjustable from 2 to 30 minutes and a humidity sensor adjustable from 60 to 90 %.

### Control

#### Manual:

- The fan is controlled with a room light switch (not included into delivery set).
- The fan is controlled with a built-in pull cord switch "V". This option is not applicable for ceiling mounting.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may be connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modification.

#### Automatic:

- Speed control with a an electronic control unit **BU-1-60**, refer the Electric accessories. The control unit is available upon separate order.
- Fan control with a turn-off delay timer "T" that enables fan running from 2 to 30 minutes after turning the fan off.
- Fan control with a humidity sensor and turn-off delay timer "TH" that enables fan switching on and running until the indoor humidity drops below the set point adjustable from 60 to 90 % and subsequent fan running within the set time before turning off.

### Mounting features

- The fan is mounted directly into the ventilation shaft.
- Flexible duct connection is recommended in case of the remote ventilation shaft location. The air duct is connected to the fan exhaust flange through a clamp.
- Fixing to wall with screws.
- Suitable for ceiling mounting.

### Accessories

Air ducts



Grilles and hoods



Back valves



Speed controllers



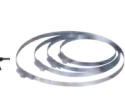
Control unit



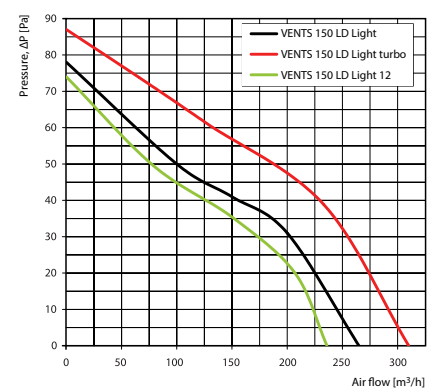
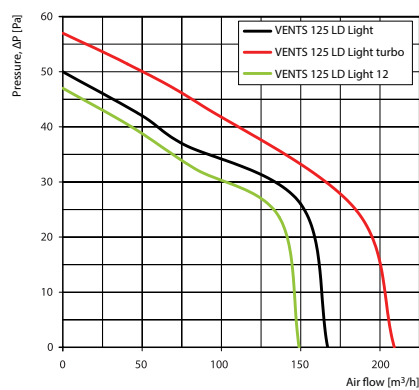
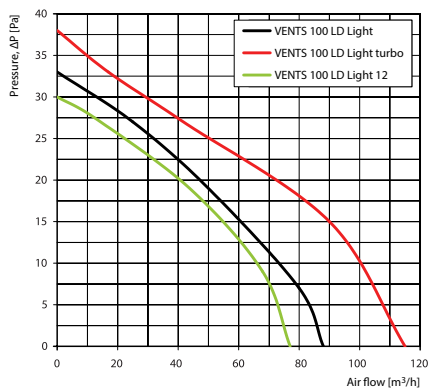
Transformer



Clamps



## Aerodynamic characteristics



## Technical data

| Model                                  | Frequency [Hz] | Voltage [V] | Power Consumption [W] | Current [A] | R.p.m. | Maximum air flow [m³/h] | Sound Pressure Level [dBA]* | Weight [kg] |
|--|----------------|-------------|-----------------------|-------------|--------|-------------------------|-----------------------------|-------------|
| VENTS 100 LD Light                     | 50             | 220-240     | 14                    | 0.085       | 2300   | 88                      | 33                          | 0.73        |
| VENTS 100 LD Light (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 100 LD Light turbo               | 50             | 220-240     | 16                    | 0.1         | 2300   | 115                     | 36                          | 0.81        |
| VENTS 100 LD Light turbo (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 125 LD Light                     | 50             | 220-240     | 16                    | 0.1         | 2400   | 167                     | 34                          | 0.89        |
| VENTS 125 LD Light (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 125 LD Light turbo               | 50             | 220-240     | 24                    | 0.105       | 2400   | 209                     | 36                          | 0.99        |
| VENTS 125 LD Light turbo (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 150 LD Light                     | 50             | 220-240     | 24                    | 0.13        | 2400   | 265                     | 37                          | 1.14        |
| VENTS 150 LD Light (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 150 LD Light turbo               | 50             | 220-240     | 29                    | 0.13        | 2400   | 310                     | 39                          | 1.28        |
| VENTS 150 LD Light turbo (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |

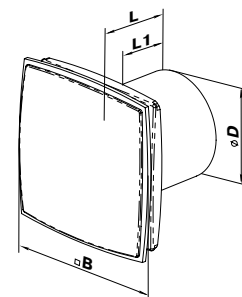
\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

## Mounting example



## Overall dimensions

| Model              | Overall dimensions [mm] |     |     |     |
|--------------------|-------------------------|-----|-----|-----|
|                    | Ø D                     | B   | L   | L1  |
| VENTS 100 LD Light | 100                     | 160 | 126 | 96  |
| VENTS 125 LD Light | 125                     | 187 | 135 | 101 |
| VENTS 150 LD Light | 150                     | 216 | 154 | 118 |



## Certificates

The fans meet the applicable safety and electromagnetic compatibility standards.

## VENTS LD Fresh time Series



Axial fans for exhaust ventilation with a built-in clock and capacity up to 310 m<sup>3</sup>/h

### Application

- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100, 125, 150 mm air ducts.

### Design

- A battery-powered quartz clock is built into the fan casing.
- Both Arabic and Roman hour plates are available on the front panel.
- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- Protection rating IP34.

### Motor

- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

### Modifications and Options

**LD Fresh time R** – fan with a Roman hour plate.



**LD Fresh time K** – fan is equipped with a backdraft damper for back flow preventing.



**LD Fresh time L** – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.



**LD Fresh time turbo** – high-powered motor.



**LD Fresh time 12** – modification with low-voltage motor. 12 V AC power supply.



**LDT Fresh time** – equipped with a regulated timer with the operating time from 2 to 30 minutes.



**LDTH Fresh time** – equipped with a timer with the operating time from 2 to 30 minutes and a humidity sensor with the threshold value from 60 to 90 %.



**LDV Fresh time** – equipped with a pull cord switch.



**LDVT Fresh time** – equipped with a pull cord switch and a regulated timer with the operating time adjustable from 2 to 30 minutes.



**LDVTH Fresh time** – equipped with a pull cord switch, regulated timer with the operating time adjustable from 2 to 30 minutes and a humidity sensor with the operating threshold range from 60 to 90 %.

### Control

#### Manual:

- The fan is controlled by a room light switch. It is not included in the delivery package.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may be connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modification.

#### Automatic:

- By the electronic control unit **BU-1-60** (see Electrical Accessories). The control unit is supplied separately.
- By the timer **T** (the built-in turn-off delay timer enables the fan operation within 2 to 30 minutes after the fan switching off).
- By the humidity sensor and timer **TH** (if the humidity level in the room exceeds the sensor threshold adjustable value within 60-90 % the fan switches automatically on and operates until the humidity level drops to the standard level, after that the fan continues operating within the time period according to the timer setting, then shuts down).

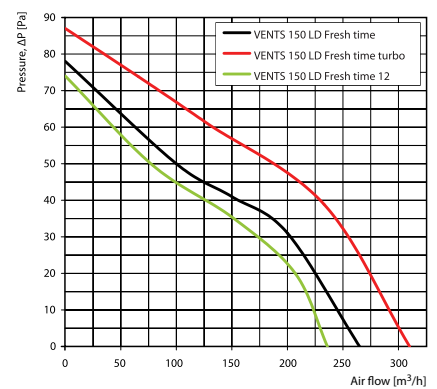
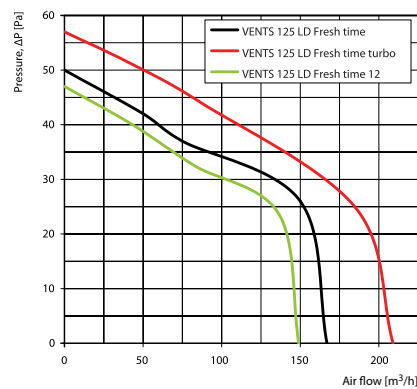
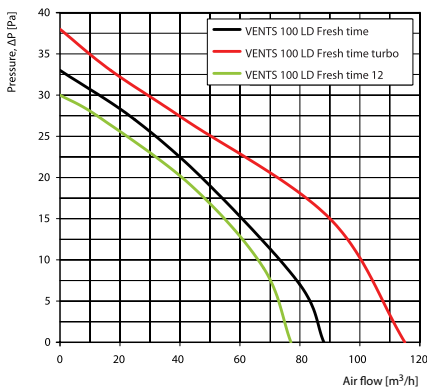
### Mounting features

- The fan is mounted directly into the ventilation shaft.
- Flexible duct application is recommended in case of remote location of the ventilation shaft. The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to wall by self-tapping screws.
- For 12 V low-voltage motor fan connection to 220 V/50 Hz power mains use the step-down transformer TRF 220/12-25 that is available upon separate order.

### Accessories



## Aerodynamic characteristics



## Technical data

| Model                                       | Frequency [Hz] | Voltage [V] | Power Consumption [W] | Current [A] | R.p.m. | Maximum air flow [m³/h] | Sound Pressure Level [dBA]* | Weight [kg] |
|---|----------------|-------------|-----------------------|-------------|--------|-------------------------|-----------------------------|-------------|
| VENTS 100 LD Fresh time                     | 50             | 220-240     | 14                    | 0.085       | 2300   | 88                      | 33                          | 0.60        |
| VENTS 100 LD Fresh time (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 100 LD Fresh time turbo               | 50             | 220-240     | 16                    | 0.1         | 2300   | 115                     | 36                          | 0.68        |
| VENTS 100 LD Fresh time turbo (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 100 LD Fresh time 12                  | 50/60          | 12          | 14                    | 1.5         | 2200   | 77                      | 32                          | 0.59        |
| VENTS 125 LD Fresh time                     | 50             | 220-240     | 16                    | 0.1         | 2400   | 167                     | 34                          | 0.74        |
| VENTS 125 LD Fresh time (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 125 LD Fresh time turbo               | 50             | 220-240     | 24                    | 0.105       | 2400   | 209                     | 36                          | 0.84        |
| VENTS 125 LD Fresh time turbo (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 125 LD Fresh time 12                  | 50/60          | 12          | 16                    | 1.7         | 2300   | 149                     | 33                          | 0.72        |
| VENTS 150 LD Fresh time                     | 50             | 220-240     | 24                    | 0.13        | 2400   | 265                     | 37                          | 0.96        |
| VENTS 150 LD Fresh time (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 150 LD Fresh time turbo               | 50             | 220-240     | 30                    | 0.13        | 2400   | 310                     | 39                          | 1.10        |
| VENTS 150 LD Fresh time turbo (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 150 LD Fresh time 12                  | 50             | 12          | 29                    | 2           | 2300   | 236                     | 36                          | 0.92        |

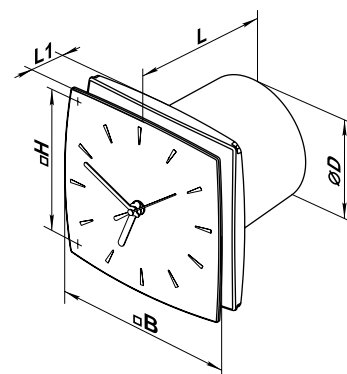
\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

## Mounting example



## Overall dimensions

| Model                   | Dimensions [mm] |     |     |     |    |
|-------------------------|-----------------|-----|-----|-----|----|
|                         | Ø D             | B   | H   | L   | L1 |
| VENTS 100 LD Fresh time | 100             | 152 | 120 | 135 | 40 |
| VENTS 125 LD Fresh time | 125             | 175 | 140 | 145 | 44 |
| VENTS 150 LD Fresh time | 150             | 205 | 165 | 164 | 46 |



## Certificates

The fans meet the applicable safety and electromagnetic compatibility standards.



## VENTS X Series



Axial decorative fans for exhaust ventilation with the capacity up to 116 m<sup>3</sup>/h

### Application

- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100 mm air ducts.

### Design

- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- Decorative replaceable colour covers: light blue, bright green, yellow and pink.
- Protection rating IP24.

### Motor

- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

### Modifications and Options

**X alumat** – fan with a matt gray painted front plate.

**X K** – fan is equipped with a backdraft damper for back flow preventing.

**XL** – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.

**X turbo** – high-powered motor.

**X 12** – modification with low-voltage motor. 12 V AC power supply.

**X T** – equipped with a regulated timer with the operating time from 2 to 30 minutes.

**XTH** – equipped with a timer with the operating time from 2 to 30 minutes and a humidity sensor with the threshold value from 60 to 90 %.

**XV** – equipped with a pull cord switch.

**XVT** – equipped with a pull cord switch and a regulated timer with the operating time adjustable from 2 to 30 minutes.



**XVTH** – equipped with a pull cord switch, regulated timer with the operating time adjustable from 2 to 30 minutes and a humidity sensor with the operating threshold range from 60 to 90 %.

### Control

#### Manual:

- The fan is controlled by a room light switch. It is not included in the delivery package.
- The fan is controlled by the built-in pull cord switch **V**. Not applied in case of ceiling mounting.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may be connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modification.

#### Automatic:

- By the electronic control unit **BU-1-60** (see Electrical Accessories). The control unit is supplied separately.
- By the timer **T** (the built-in turn-off delay timer enables the fan operation within 2 to 30 minutes after the fan switching off).
- By the humidity sensor and timer **TH** (if the humidity level in the room exceeds the sensor threshold adjustable value within 60-90 % the fan switches automatically on and operates until the humidity level drops to the standard level, after that the fan continues operating within the time period according to the timer setting, then shuts down).

### Mounting features

- The fan is mounted directly into the ventilation shaft.
- Flexible duct application is recommended in case of remote location of the ventilation shaft. The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to wall by self-tapping screws.
- Suitable for ceiling mounting.
- For 12 V low-voltage motor fan connection to 220 V/50 Hz power mains use the step-down transformer TRF 220/12-25 that is available upon separate order.

### Accessories

Air ducts



Grilles and hoods



Backdraft damper



Speed controllers

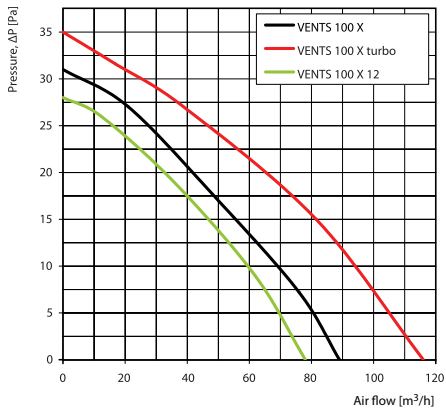


Clamps





### Aerodynamic characteristics

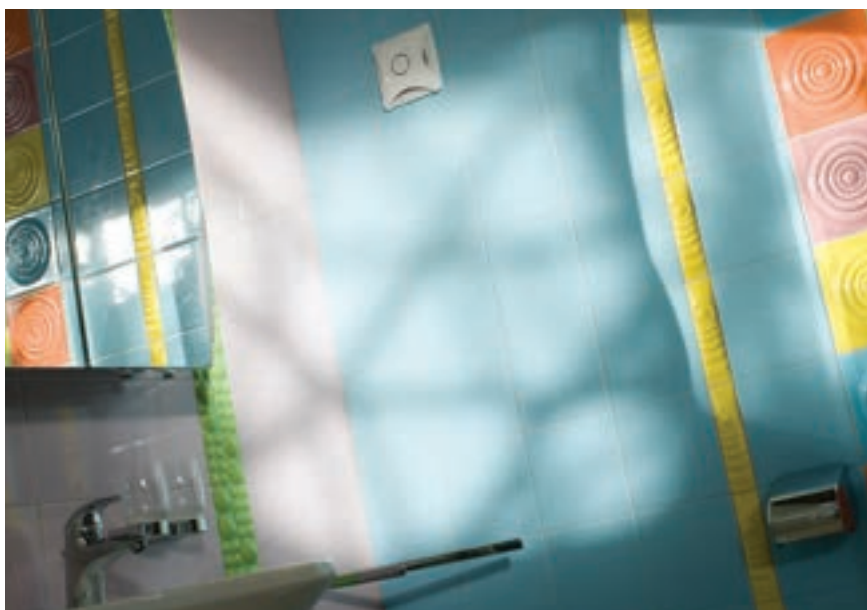


### Technical data

| Model                           | Frequency [Hz] | Voltage [V] | Power Consumption [W] | Current [A] | R.p.m. | Maximum air flow [m³/h] | Sound Pressure Level [dBA]* | Weight [kg] |
|---------------------------------|----------------|-------------|-----------------------|-------------|--------|-------------------------|-----------------------------|-------------|
| VENTS 100 X                     | 50             | 220-240     | 14                    | 0.085       | 2300   | 89                      | 33                          | 0.61        |
| VENTS 100 X (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 100 X turbo               | 50             | 220-240     | 16                    | 0.1         | 2300   | 116                     | 36                          | 0.69        |
| VENTS 100 X turbo (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 100 X 12                  | 50/60          | 12          | 14                    | 1.5         | 2200   | 78                      | 32                          | 0.60        |

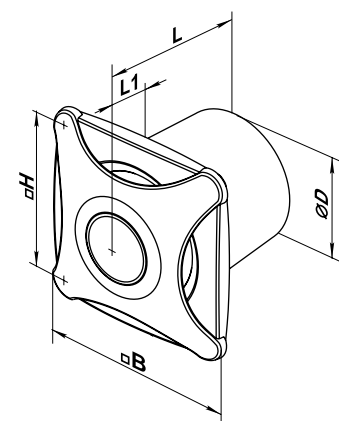
\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

### Mounting example



### Overall dimensions

| Model       | Dimensions [mm] |     |     |     |    |
|-------------|-----------------|-----|-----|-----|----|
|             | Ø D             | B   | H   | L   | L1 |
| VENTS 100 X | 100             | 152 | 120 | 125 | 30 |



### Certificates

The fans meet the applicable safety and electromagnetic compatibility standards.

## VENTS X star Series



Axial decorative fans for exhaust ventilation with the capacity up to 116 m<sup>3</sup>/h

### Application

- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100 mm air ducts.

### Design

- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- A 2 W LED lamp is integrated into the fan casing.
- Protection rating IP24.

### Motor

- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

### Modifications and Options

**X star alumat** – fan with a matt gray painted front plate.



**X star K** – fan is equipped with a backdraft damper for back flow preventing.



**X star L** – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.



**X star turbo** – high-powered motor.



**X star 12** – modification with low-voltage motor. 12 V AC power supply.

### Control

#### Manual:

- The fan is controlled by a room light switch. It is not included in the delivery package.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may be connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modification.

#### Automatic:

- By the electronic control unit **BU-1-60** (see Electrical Accessories). The control unit is supplied separately.

### Mounting features

- The fan is mounted directly into the ventilation shaft.
- Flexible duct application is recommended in case of remote location of the ventilation shaft. The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to wall by self-tapping screws.
- Suitable for ceiling mounting.
- Both parallel or separate switching of the fan and the built-in lamp (refer wiring diagrams).
- For 12 V low-voltage motor fan connection to 220 V/50 Hz power mains use the step-down transformer TRF 220/12-25 that is available upon separate order.



Vents X star alumat



LED lamp, 2 W

### Accessories

Air ducts



Grilles and hoods



Backdraft damper



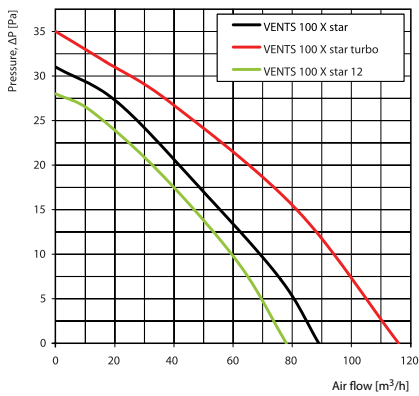
Speed controllers



Clamps



### Aerodynamic characteristics



### Technical data

| Model                                | Frequency [Hz] | Voltage [V] | Power Consumption [W] | Current [A] | R.p.m. | Maximum air flow [m³/h] | Sound Pressure Level [dBA]* | Weight [kg] |
|--------------------------------------|----------------|-------------|-----------------------|-------------|--------|-------------------------|-----------------------------|-------------|
| VENTS 100 X star                     | 50             | 220-240     | 16                    | 0.085       | 2300   | 89                      | 33                          | 0.61        |
| VENTS 100 X star (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 100 X star turbo               | 50             | 220-240     | 16                    | 0.1         | 2300   | 116                     | 36                          | 0.69        |
| VENTS 100 X star turbo (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS 100 X star 12                  | 50/60          | 12          | 14                    | 1.5         | 2200   | 78                      | 32                          | 0.60        |

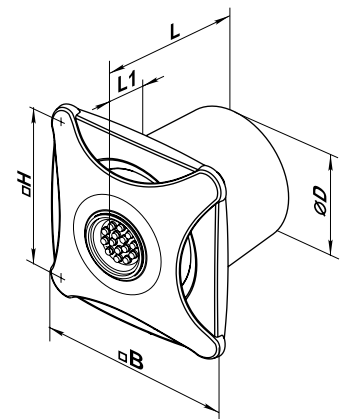
\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

### Mounting example



### Overall dimensions

| Model            | Dimensions [mm] |     |     |     |    |
|------------------|-----------------|-----|-----|-----|----|
|                  | Ø D             | B   | H   | L   | L1 |
| VENTS 100 X star | 100             | 152 | 120 | 131 | 36 |



### Certificates

The fans meet the applicable safety and electromagnetic compatibility standards.

## VENTS Lumis Series



Exhaust axial fan  
with integrated light source.  
Air flow  
up to 115 m<sup>3</sup>/h

### Application

- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Low to medium air flow motion for short distances at low air resistance.
- Compatible with Ø 100 mm air ducts.

### Design

- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The impeller design enhances the fan efficiency and prolongs the motor service life.
- The 10 watt LED backlight lamp is integrated in the casing with a working life of 40 000 hours.
- The lamp colour temperature is 3000 K (warm light).
- Protection rating IP24.

### Motor

- Reliable motor with low energy demand.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

### Modifications and options



**Lumis 100 K** – the fan is equipped with a back valve to prevent air back drafting.



**Lumis 100 L** – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.



**Lumis 100 turbo** – high-powered motor.

### Control

#### Manual:

- The fan is controlled with a room light switch (not included in the delivery).
- Speed control with a thyristor speed controller, refer to the Electric accessories. Several fans may be connected to one controller.

#### Automatic:

- Speed control with a an electronic control unit BU-1-60, refer to the Electric accessories. The control unit is available upon separate order.

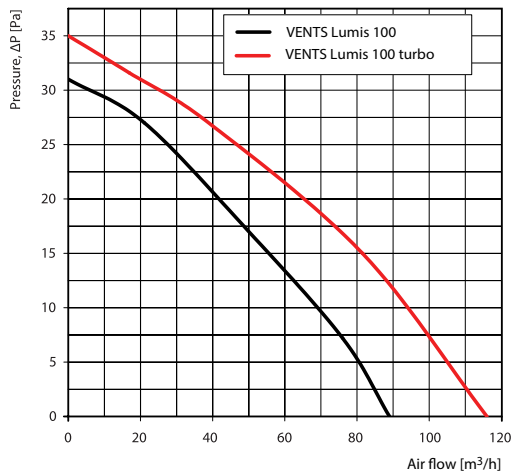
### Mounting features

- The fan is mounted directly into the ventilation shaft.
- Flexible duct connection is recommended in case of the remote ventilation shaft location. The air duct is connected to the fan exhaust flange through a clamp.
- Fixing to wall with screws.
- Suitable for ceiling mounting.

### Accessories



### Aerodynamic characteristics



### Technical data

| Model                               | Frequency [Hz] | Voltage [V] | Power Consumption [W] | Current [A] | R.p.m. | Maximum air flow [m³/h] | Sound Pressure Level [dBA]* | Weight [kg] |
|-------------------------------------|----------------|-------------|-----------------------|-------------|--------|-------------------------|-----------------------------|-------------|
| VENTS Lumis 100                     | 50             | 220-240     | 24                    | 0.135       | 2410   | 92                      | 33                          | 0.79        |
| VENTS Lumis 100 (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |             |
| VENTS Lumis 100 turbo               | 50             | 220-240     | 26                    | 0.15        | 2400   | 115                     | 37                          | 0.87        |
| VENTS Lumis 100 turbo (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |             |

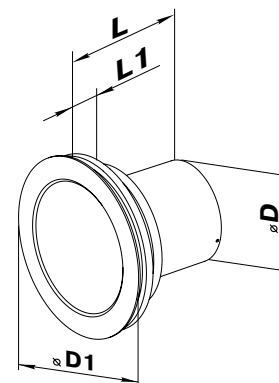
\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

### Mounting example



### Overall dimensions

| Model                 | Dimensions [mm] |      |       |    |
|-----------------------|-----------------|------|-------|----|
|                       | Ø D1            | Ø D  | L     | L1 |
| VENTS Lumis 100       | 178             | 99.4 | 133.5 | 46 |
| VENTS Lumis 100 turbo | 178             | 99.4 | 133.5 | 46 |



### Certificates

The fans meet the applicable safety and electromagnetic compatibility standards.



# AXIAL WINDOW FANS

## ▶ VENTS MAO1



Axial window fan with automatic louver shutters for exhaust ventilation with the capacity up to 295 m<sup>3</sup>/h.

## ▶ VENTS VV Series



Axial window fan with automatic louver shutters for exhaust ventilation with the capacity up to 455 m<sup>3</sup>/h. Flange mounting sizes 180 mm and 230 mm.

## ▶ VENTS VVR Series



Axial window fan with automatic louver shutters and reversing motor for exhaust or supply ventilation with the capacity up to 455 m<sup>3</sup>/h. Flange mounting sizes 180 mm and 230 mm.



**Axial window fans  
VENTS MAO1 Series**

Air flow up to 295 m<sup>3</sup>/h

page  
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**Axial window fans  
VENTS VV Series**

Air flow up to 455 m<sup>3</sup>/h

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**Axial window fans  
VENTS VVR Series**

Air flow up to 455 m<sup>3</sup>/h

page  
132

## VENTS MAO1 Series



Axial window fans for exhaust ventilation with the capacity up to 295 m<sup>3</sup>/h

### Application

- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- For mounting in windows.

### Design

- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- The fan and motor are specially designed for silent operation.
- Fan is equipped with a thermal actuator that provides smooth opening and shutting of automatic louver shutters for air back flow preventing.
- Protection rating IP24.

### Motor

- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

### Modifications and Options



**MAO1 L** – the motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and fan mounting at any angle. The bearings are maintenance-free and contain enough grease for the entire operating period.



**MAO1 turbo** – high-powered motor.



**MAO1 12** – modification with low-voltage motor. 12 V AC power supply.



**MAO1 T** – equipped with a regulated timer with the operating time from 2 to 30 minutes.



**MAO1 V** – equipped with a pull cord switch.



**MAO1 VT** – equipped with a pull cord switch and a regulated timer with the operating time adjustable from 2 to 30 minutes.

### Control

#### Manual:

- The fan is controlled by a room light switch. It is not included in the delivery package.
- The fan is controlled by the built-in pull cord switch **V**.

#### Automatic:

- By the electronic control unit **BU-1-60** (see Electrical Accessories). The control unit is supplied separately.
- By the timer **T** (the built-in turn-off delay timer enables the fan operation within 2 to 30 minutes after the fan switching off).

### Mounting features

- The fan is mounted directly into the window opening.
- For 12 V low-voltage motor fan connection to 220 V/50 Hz power mains use the step-down transformer TRF 220/12-25 that is available upon separate order.



Fan OFF – louver shutters CLOSED



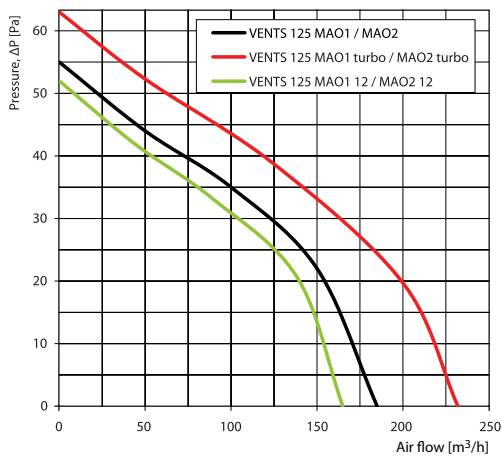
Fan ON – louver shutters OPEN

### Accessories

#### Speed controllers



### Aerodynamic characteristics



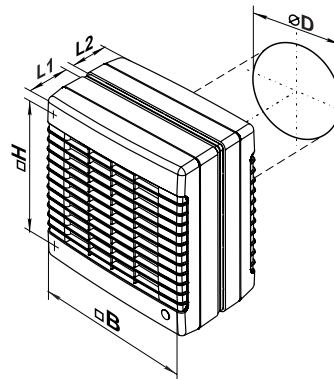
### Technical data

| Model                              | Frequency [Hz] | Voltage [V] | Power Consumption [W] | Current [A] | R.p.m. | Maximum air flow [m³/h] | Sound Pressure Level [dBA]* | SEC class | Weight [kg] |
|------------------------------------|----------------|-------------|-----------------------|-------------|--------|-------------------------|-----------------------------|-----------|-------------|
| VENTS 125 MAO1                     | 50             | 220-240     | 22                    | 0.1         | 2400   | 185                     | 35                          | E         | 1.15        |
| VENTS 125 MAO1 (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |           |             |
| VENTS 125 MAO1 turbo               | 50             | 220-240     | 24                    | 0.105       | 2400   | 232                     | 37                          | E         | 1.31        |
| VENTS 125 MAO1 turbo (220 V/60 Hz) | 60             | 220         |                       |             |        |                         |                             |           |             |
| VENTS 125 MAO1 12                  | 50/60          | 12          | 16                    | 1.7         | 2300   | 165                     | 34                          | E         | 1.13        |
| VENTS 150 MAO1                     | 50             | 220-240     | 26                    | 0.13        | 2400   | 295                     | 41                          | E         | 1.53        |
| VENTS 150 MAO1 (220 V/60 Hz)       | 60             | 220         |                       |             |        |                         |                             |           |             |
| VENTS 150 MAO1 12                  | 50             | 12          | 29                    | 2           | 2300   | 263                     | 40                          | E         | 1.49        |

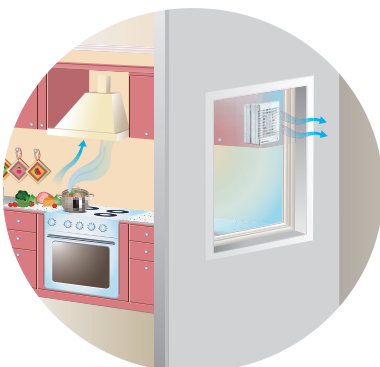
\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

### Overall dimensions

| Model          | Dimensions [mm] |     |     |    |    |    |
|----------------|-----------------|-----|-----|----|----|----|
|                | Ø D             | B   | H   | H1 | L1 | L2 |
| VENTS 125 MAO1 | 125             | 190 | 173 | -  | 58 | 53 |
| VENTS 150 MAO1 | 150             | 212 | 195 | -  | 66 | 60 |



### Mounting examples



### Certificates

The fans meet the applicable safety and electromagnetic compatibility standards.

## VENTS VV Series



Axial window fan with automatic louver shutters for exhaust ventilation with the capacity up to 455 m<sup>3</sup>/h

## VENTS VVR Series



Axial window fan with automatic louver shutters and reversing motor for exhaust and supply ventilation with the capacity up to 455 m<sup>3</sup>/h

### Application

- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- For mounting in windows.

### Design

- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The intellectual impeller design makes the fan efficiency high and the service life long.
- The fan and motor are specially designed for silent operation.
- Equipped with automatic louver shutter for air back flow prevention.
- Protection rating IPX4.

### Motor

- Reliable and low-watt electric motor.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.
- **VVR** series fans are equipped with a reversing motor for combination of air exhaust and air supply functions.

### Control

#### Manual:

- The fan is controlled by a room light switch. It is not included in the delivery package.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may be connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modification.

#### Automatic:

- By the electronic control unit BU-1-60 (see Electrical Accessories). The control unit is supplied separately.

### Mounting features

- The fan is mounted directly into the window opening.



Fan ON – louver shutters OPEN



Fan OFF – louver shutters CLOSED

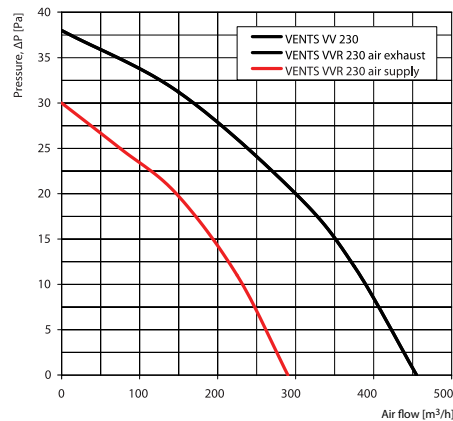
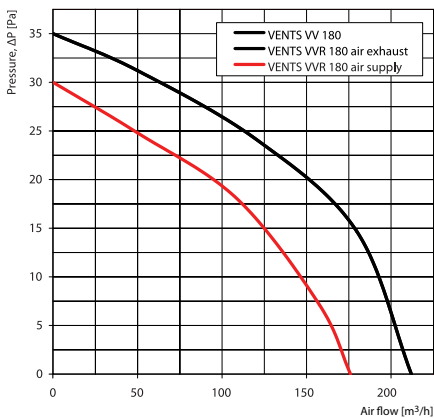
## Accessories

Speed controllers





## Aerodynamic characteristics



## Technical data

| Model                    | Frequency [Hz] | Voltage [V] | Power Consumption [W] | Current [A] | R.p.m. | Maximum air flow [m³/h] | Sound Pressure Level [dBA]* | Weight [kg] |
|--------------------------|----------------|-------------|-----------------------|-------------|--------|-------------------------|-----------------------------|-------------|
| VENTS VV 180 air exhaust | 50/60          | 220-240     | 25                    | 0.10        | 1400   | 212                     | 31                          | 1.6         |
| VENTS VVR 180            | air exhaust    | 50/60       | 220-240               | 25          | 0.10   | 1400                    | 31                          | 1.6         |
|                          | air supply     |             |                       |             |        |                         | 176                         |             |
| VENTS VV 230 air exhaust | 50/60          | 220-240     | 29                    | 0.13        | 1300   | 455                     | 32                          | 2.2         |
| VENTS VVR 230            | air exhaust    | 50/60       | 220-240               | 29          | 0.13   | 1300                    | 32                          | 2.2         |
|                          | air supply     |             |                       |             |        |                         | 290                         |             |

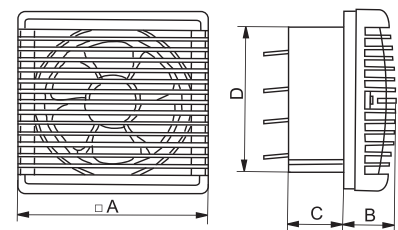
\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

## Mounting example



## Overall dimensions

| Model         | Dimensions [mm] |    |    |     |
|---------------|-----------------|----|----|-----|
|               | A               | B  | C  | D   |
| VENTS VV 180  | 230             | 65 | 87 | 177 |
| VENTS VVR 180 | 230             | 65 | 87 | 177 |
| VENTS VV 230  | 295             | 74 | 85 | 237 |
| VENTS VV 230  | 295             | 74 | 85 | 237 |



## Certificates

The fans meet the applicable safety and electromagnetic compatibility standards.

# CENTRIFUGAL FANS

## ▶ VENTS CF Series



Centrifugal single-speed fans with a built-in filter for exhaust ventilation with the air flow of up to 122 m<sup>3</sup>/h. Compatible with Ø 100 mm air ducts.



**Centrifugal fans  
VENTS CF Series**

Air flow up to 122 m<sup>3</sup>/h

page  
136

## VENTS CF Series



Centrifugal fans for exhaust ventilation with the capacity up to 122 m<sup>3</sup>/h

### Application

- Continuous or periodic exhaust ventilation of bathroom, showers, kitchens and other utility spaces.
- Ventilation shaft mounting or duct connection.
- Designed for high-resistance ventilation duct systems.
- Compatible with Ø 100 mm air ducts.

### Design

- Modern design and aesthetic look.
- The casing and the impeller are made of high-quality durable ABS plastic, UV resistant.
- The easy to use removable grille with a filter element protects the fan internal components against grease and dust penetration and makes it suitable for kitchen exhaust ventilation.
- The basic CF fan modification includes a dust filter. Aluminium grease filter configurations are also available (CFA model).
- The centrifugal fan impeller has forward-curved blades for high pressure and low noise levels.
- The centrifugal fan impeller has forward-curved blades for high pressure and low noise levels.
- Protection rating IP24.

### Motor

- Reliable and low-watt single-phase electric motor.
- The basic motor modification includes plain bearings.
- The „turbo“ modification includes the motor equipped with ball bearings mounted on specially designed vibration dampers.
- Designed for continuous operation and requires no maintenance.
- Equipped with overheating protection.

### Modifications and Options

CFA – fan with an aluminium grease filter.



**CF 100 turbo** – high-powered motor. The motor is equipped with ball bearings for long service life (appr. 40 thousand hours) and mounted on specially designed vibration mounting. The bearings are maintenance-free and contain enough grease for the entire operating period.



**CF 100 T** – equipped with a regulated timer with the operating time from 2 to 30 minutes.



**CF 100 TH** – equipped with a timer with the operating time from 2 to 30 minutes and a humidity sensor with the threshold value from 60 to 90 %.



**CF 100 V** – equipped with a pull cord switch.



**CF 100 VT** – equipped with a pull cord switch and a regulated timer with the operating time adjustable from 2 to 30 minutes.



**CF 100 VTH** – equipped with a pull cord switch, regulated timer with the operating time adjustable from 2 to 30 minutes and a humidity sensor with the operating threshold range from 60 to 90 %.



**CF 100 TP** – equipped with a regulated timer and a motion sensor with the sensitivity area from 1 to 4 m and the detection angle up to 100°.



**CF 100 12** – modification with low-voltage motor. 12 V AC power supply.

### Control

#### Manual:

- The fan is controlled by a room light switch. It is not included in the delivery package.
- The fan is controlled by the built-in pull cord switch **V**. Not applied in case of ceiling mounting.
- Speed control is possible through a thyristor speed controller (see Electrical Accessories). Several fans may be connected to the same controller. Speed controllers can not be connected to the fans with T, TH, TP, VT, VTH modification.

#### Automatic:

- By the electronic control unit **BU-1-60** (see Electrical Accessories). The control unit is supplied separately.

### Mounting features

- Suitable for external or built-in mounting.
- Flexible duct application is recommended in case of remote location of the ventilation shaft. The air duct is connected to the fan exhaust flange through a clamp.
- Fixed to wall by self-tapping screws or fixing brackets.
- Suitable for ceiling mounting.
- For 12 V low-voltage motor fan connection to 220 V/50 Hz power mains use the step-down transformer TRF 220/12-25 that is available upon separate order.

### Accessories

Air ducts



Grilles and hoods



Speed controllers



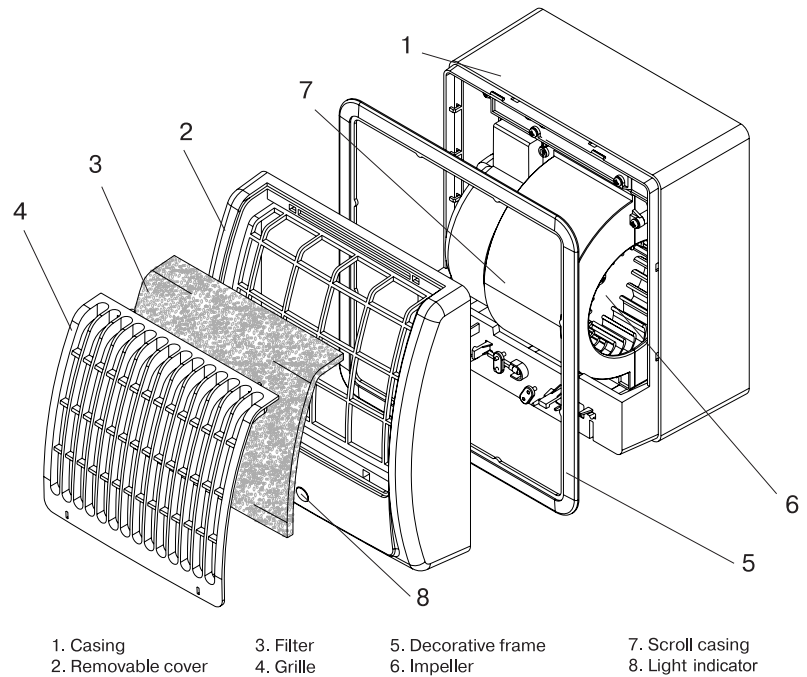
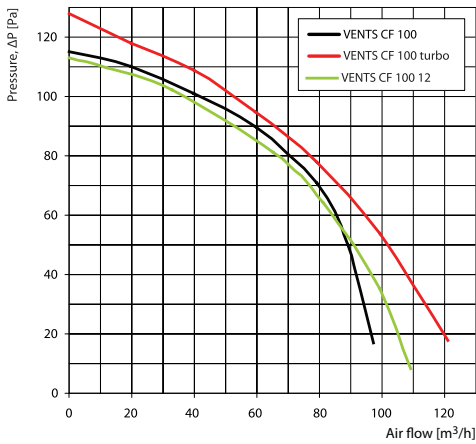
Clamps



Replaceable filters



### Aerodynamic characteristics



### Technical data

| Model              | Frequency [Hz] | Voltage [V] | Power Consumption [W] | Current [A] | R.p.m. | Maximum air flow [m³/h] | Sound Pressure Level [dBA]* | Weight [kg] |
|--------------------|----------------|-------------|-----------------------|-------------|--------|-------------------------|-----------------------------|-------------|
| VENTS CF 100       | 50             | 220-240     | 16                    | 0.12        | 2250   | 98                      | 36                          | 1.20        |
| VENTS CF 100 turbo | 50             | 220-240     | 29                    | 0.170       | 2500   | 122                     | 38                          | 1.30        |
| VENTS CF 100 12    | 50             | 12          | 24                    | 3.00        | 2300   | 110                     | 37                          | 1.2         |

\*Sound pressure level measured in free space at a distance of 3 meters from the fan.

### Mounting examples



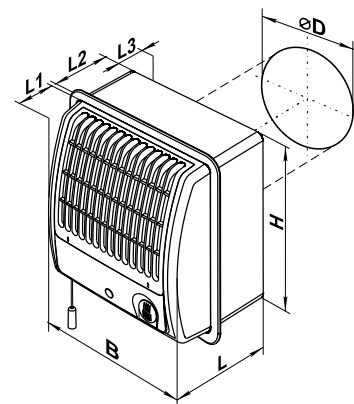
Wall surface mounting



Wall flush mounting

### Overall dimensions

| Model        | Dimensions [mm] |     |     |     |    |    |    |
|--------------|-----------------|-----|-----|-----|----|----|----|
|              | ∅ D             | B   | H   | L   | L1 | L2 | L3 |
| VENTS CF 100 | 100             | 180 | 195 | 132 | 59 | 73 | 26 |



### Certificates

The fans meet the applicable safety and electromagnetic compatibility standards.



## Back valve KO series



### Application

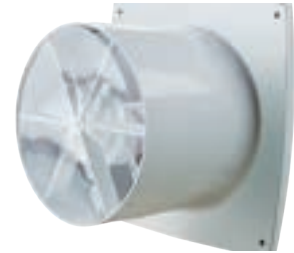
- To prevent air back drafting.
- Does not disturb passive indoor ventilation.
- For domestic fan series VENTS M, M1, D, S, M3, X, X1, LD, LD Fresh time, Silenta-M, Silenta-S, Modern, Vitro star, Z star, X star.
- Designed for connection to  $\varnothing$  100, 125 and 150 mm air ducts.

### Design

- Casing made of ABS plastic and the membrane is made of special light polymer.

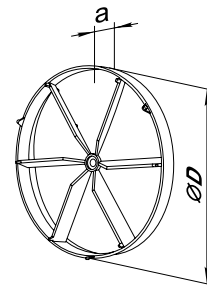
### Mounting

- Back valve is mounted on a fan with special fasteners provided on the fan spigot.



### Overall dimensions

| Model  | Dimensions [mm] |    |
|--------|-----------------|----|
|        | $\varnothing$ D | a  |
| KO 100 | 100             | 14 |
| KO 120 | 120             | 14 |
| KO 125 | 125             | 14 |
| KO 150 | 150             | 14 |



## Window flange FO Series



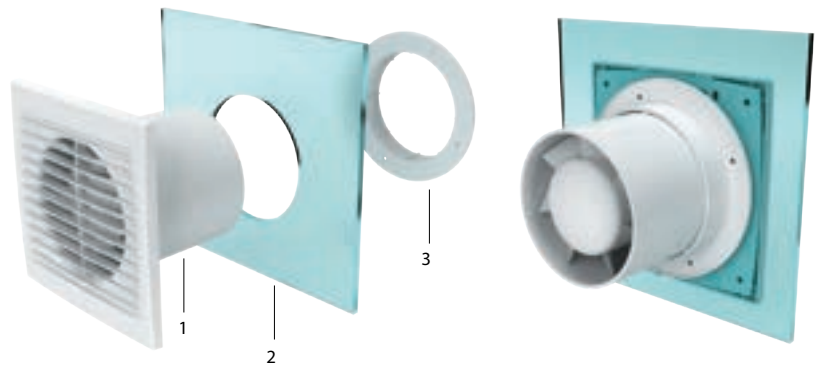
### Application

- The window flange is designed for mounting of the fans in the window single-thickness sheet glass, 3-4 mm thick.
- Connecting diameters: 100, 125 and 150 mm.

- Connection to the fan spigot by means of mounting ribs provides reliable fixation of the fan.
- Applicable for all VENTS fans except for VKO, VKO1, iFan, Quiet, MAO, CF.

### Mounting

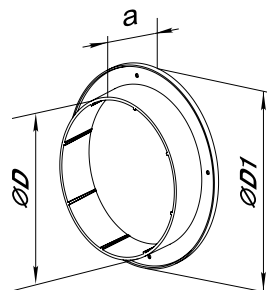
- Fan installation in the window sheet glass.



1. Fan.
2. Single window glass.
3. Window flange.

Inner side view.

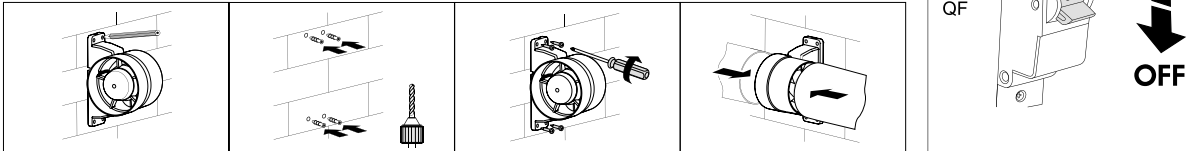
### Overall dimensions



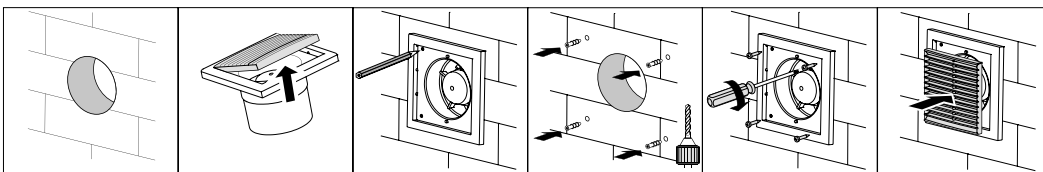
| Model  | Dimensions [mm] |      |    |
|--------|-----------------|------|----|
|        | Ø D             | Ø D1 | a  |
| FO 100 | 100             | 120  | 25 |
| FO 125 | 125             | 147  | 25 |
| FO 150 | 150             | 172  | 25 |

## ■ Various mounting options for various design features

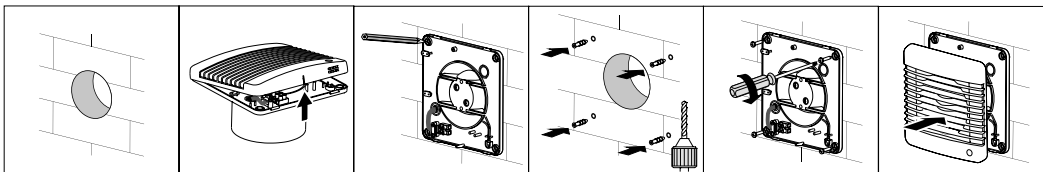
### ● VKO and VKO1 Series



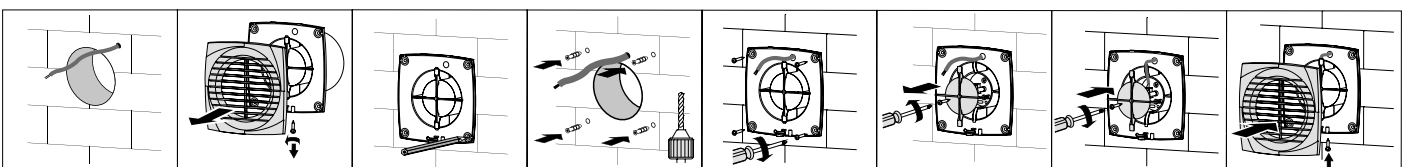
### ● K, K1, PF, PF1, F and F1 Series



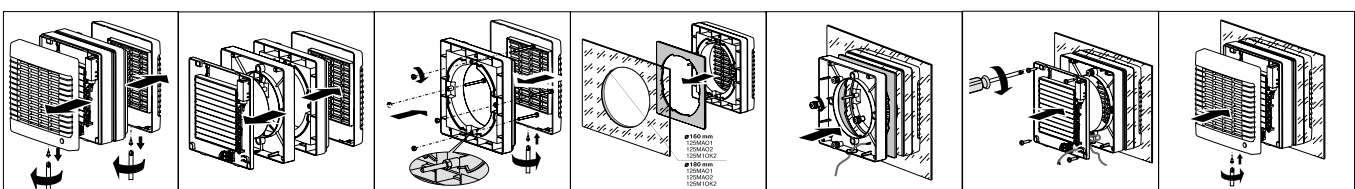
### ● M, M3, MA and MA1 Series



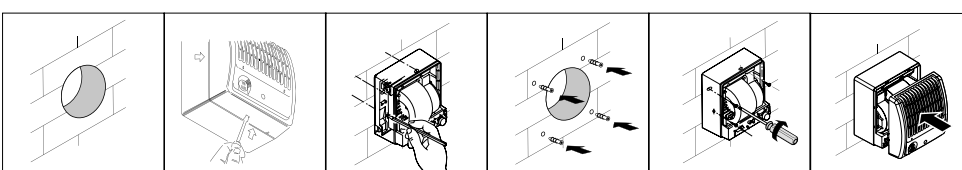
### ● D, LD, S, X, X1, X Star Series



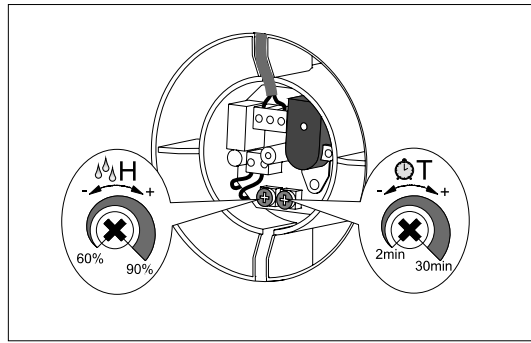
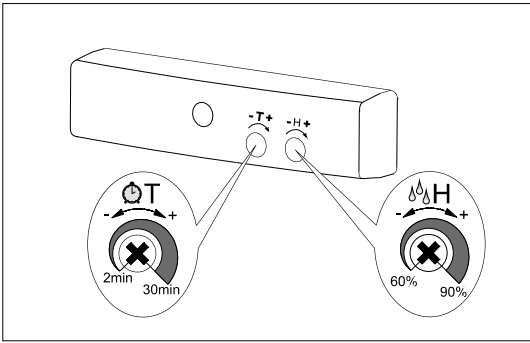
### ● MAO Series



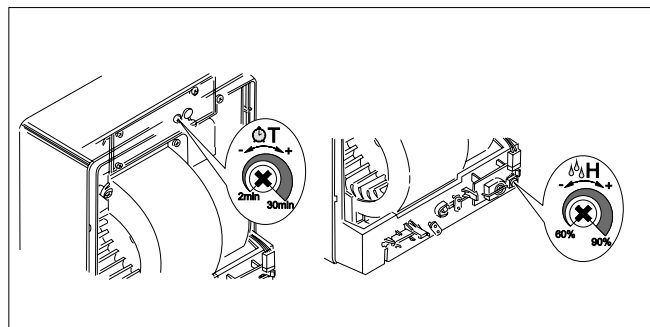
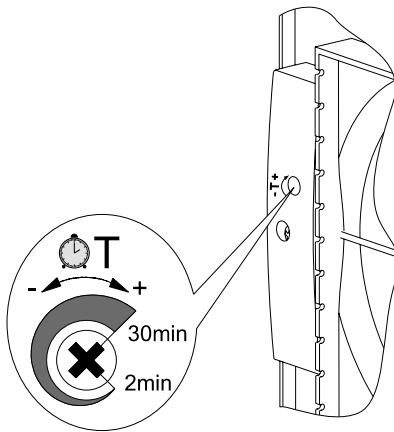
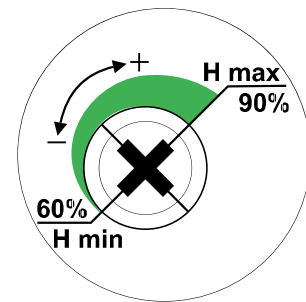
### ● CF Series



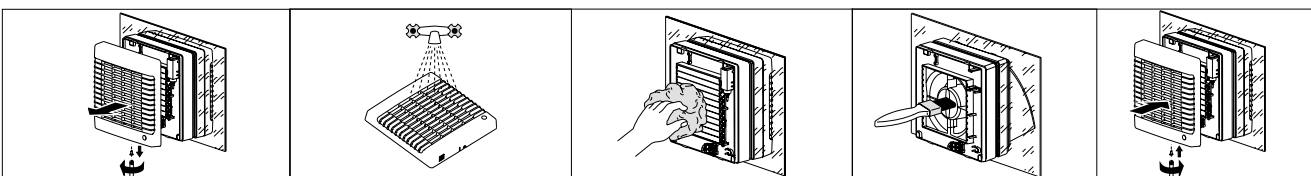
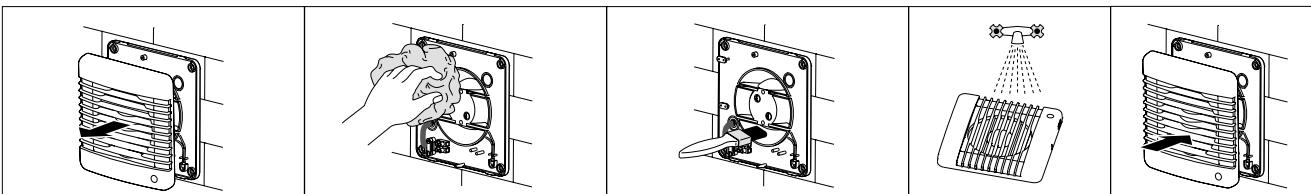
## ■ Control of built-in fan functions



- Humidity sensor threshold value is adjusted with potentiometer **H** by turning its control knob clockwise to increase or counter-clockwise to decrease the humidity threshold value.



## ■ Fan maintenance and cleaning

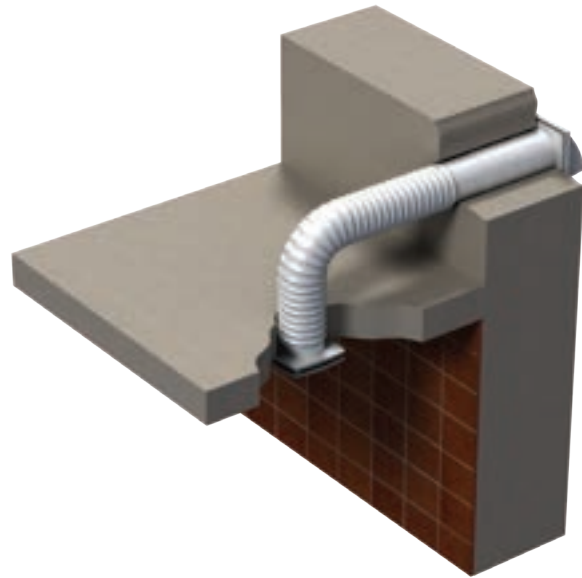


Wall surface mounting



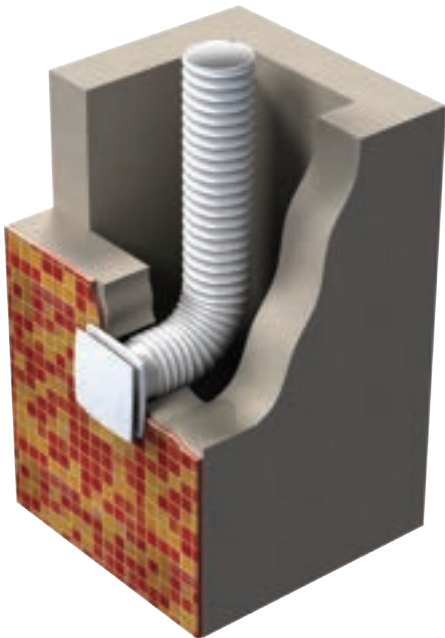
Direct air exhaust through the wall

Ceiling mounting



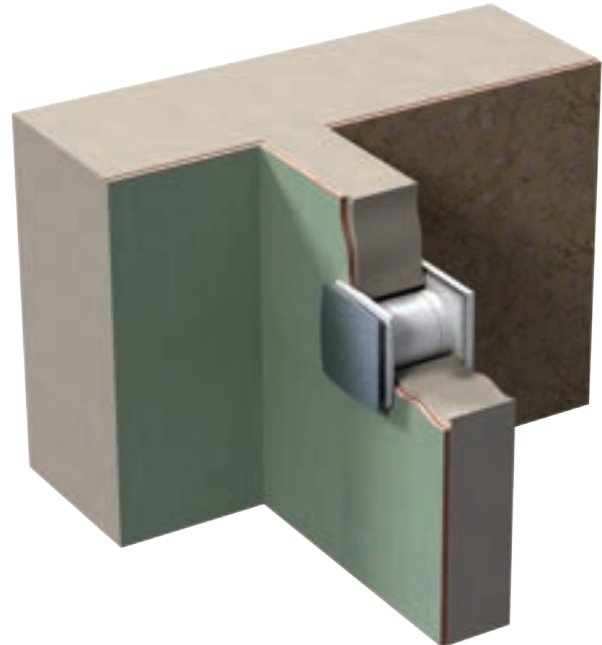
Exhaust ventilation through the ceiling and wall

Wall surface mounting



Air exhaust through the ventilation shaft

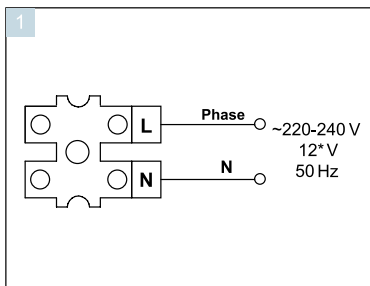
Wall surface mounting



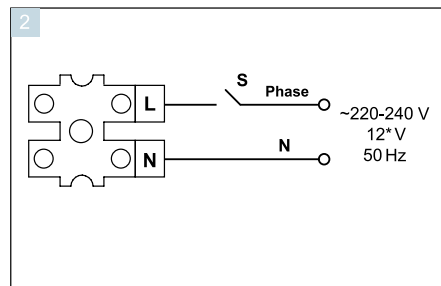
Air exhaust through the wall. For warm air distribution from a room with a fireplace to adjacent premises



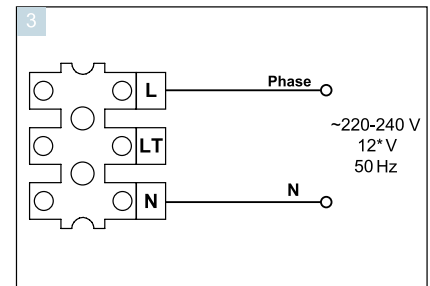
Wiring diagram for the fans equipped with a built-in switch



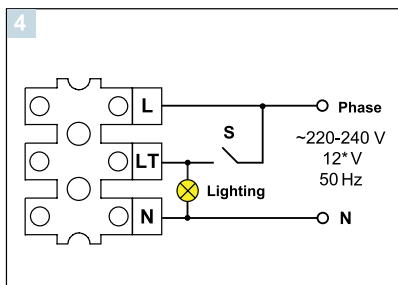
Wiring diagram for the fans without built-in switch



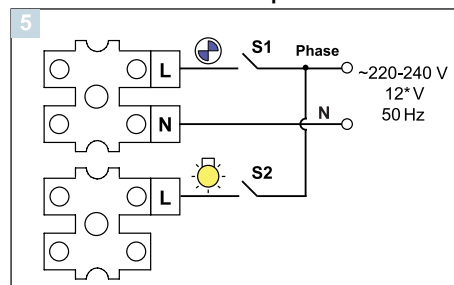
Wiring diagram for the fans equipped with a timer / timer, humidity sensor and a built-in switch



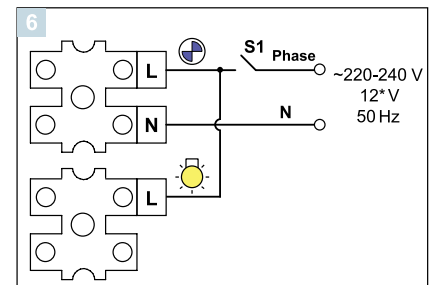
Wiring diagram for the fans equipped with a timer / timer with a humidity sensor without built-in switch



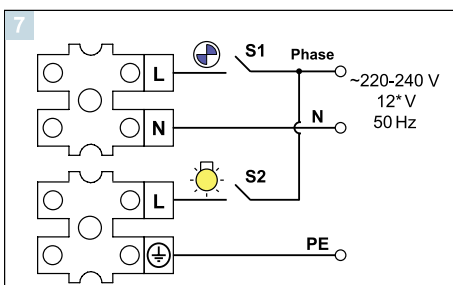
Wiring diagram for the fans with a light lamp. Separate activation of the fan and the built-in lamp.



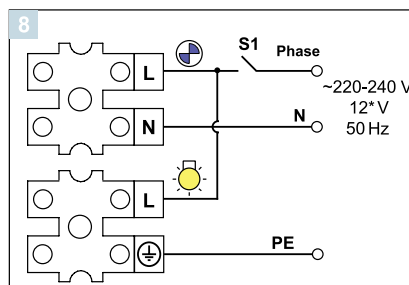
Wiring diagram for the fans with a light lamp. Parallel activation of the fan and the built-in lamp.



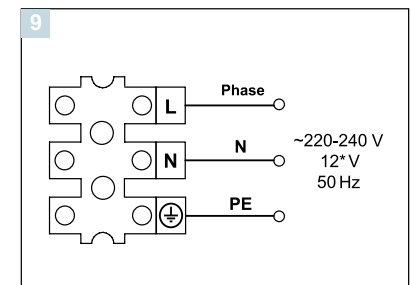
Wiring diagram for the fans with an light lamp and grounding. Separate activation of the fan and the built-in lamp.



Wiring diagram for the fans with a light lamp and grounding. Parallel switching of the fan and the built-in lamp.



Wiring diagram for the fans with grounding



\* – only for fans designed for 12 V rated voltage (specified on the fan casing and packing).

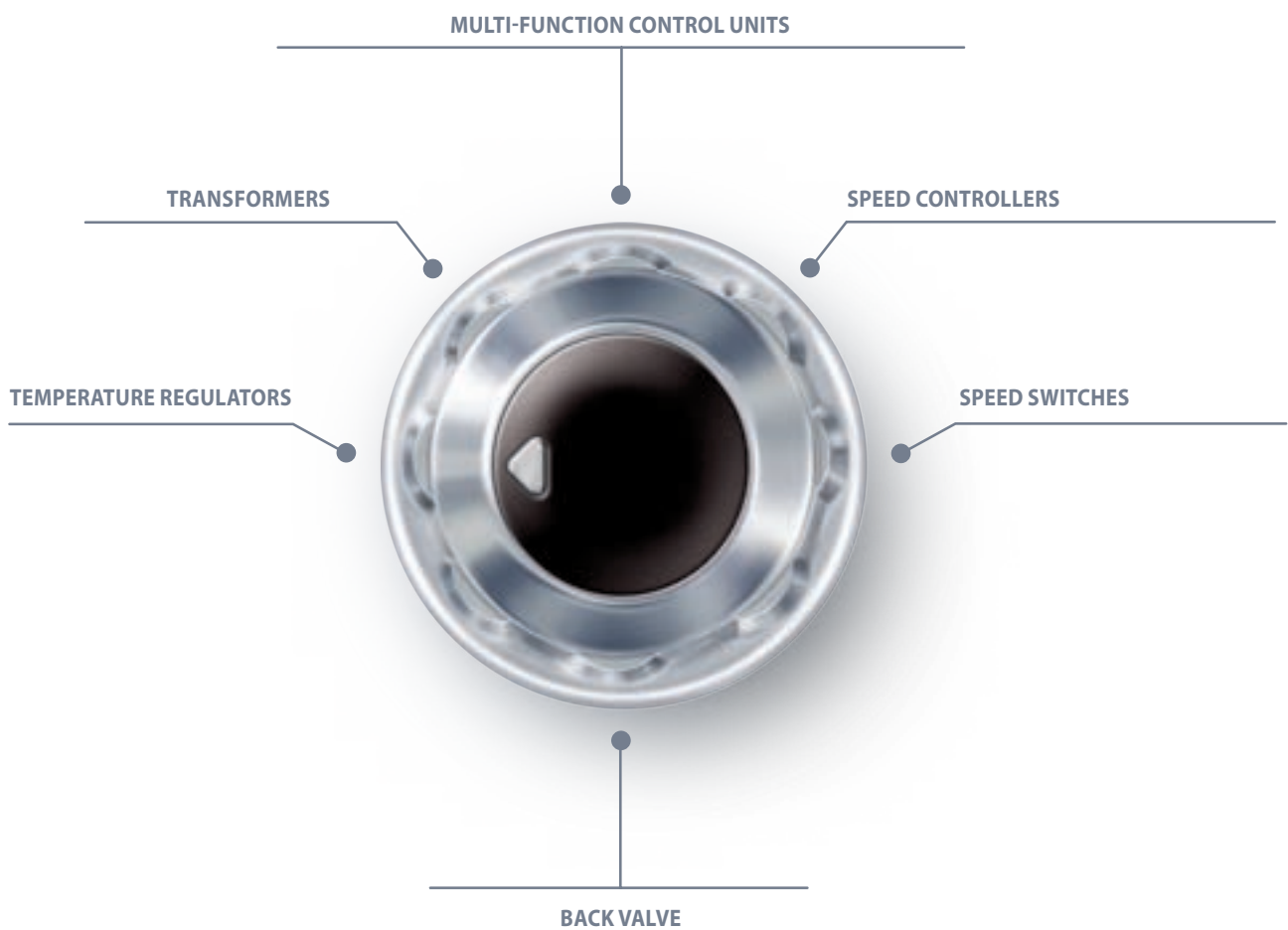
S, S1, S2 – external switches.

#### Operating logic of the fans with optional equipment

- The fan equipped with a **timer** is activated by the control voltage supplied to LT input. After the control voltage is disconnected the fan continues operating within the time period within 2 to 30 minutes according to the timer settings. The turn-off delay time is adjusted by turning the respective potentiometer T control knob clockwise to increase and counter-clockwise to reduce it.
- The fan equipped with a **timer and humidity sensor** is activated by the control voltage supplied to LT input or in case of exceeding the preset humidity threshold value adjustable from ~60 % to ~90 %. After the control voltage is disconnected or as the humidity level H drops below the set threshold the fan continues operating within the time period within 2 to 30 minutes according to the timer settings. The turn-off delay time and the threshold humidity level are adjusted by turning the control knob of the respective potentiometer T for timer and H for humidity sensor clockwise to increase and counter-clockwise to reduce the set value. To set the maximum humidity level (90 %) set the potentiometer control knob for H max position.
- The fan equipped with a **timer and motion sensor** is activated in case of the moving detection at the distance from 1 m to 4 m with 100° detection angle. After motion is off the fan continues operating within the time period within 2 to 30 minutes according to the timer settings. The turn-off delay time is adjusted by turning the respective potentiometer T control knob clockwise to increase and counter-clockwise to reduce it.
- Wiring diagram for connection of the light lamp to the fan timer operated by the common switch is shown on diagram 4. Upon the light lamp disconnection the fan continues operating according to the timer setting within the set time period.



# ELECTRIC ACCESSORIES





**Control unit**

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**Thyristor speed controllers**

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**Autotransformer speed controller**

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**Speed switches for multiple-speed fans**

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**Temperature regulators**

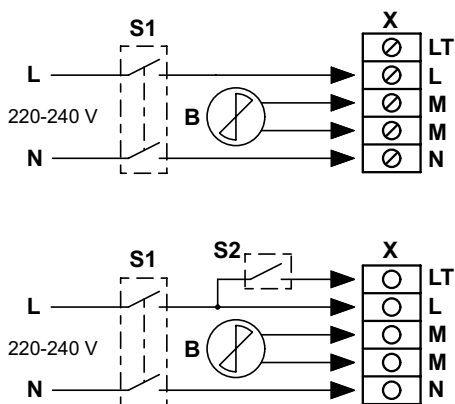
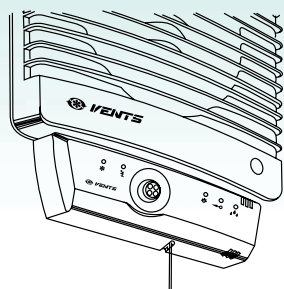
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**Transformers**

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## Control unit BU-1-60



Wiring diagram of the control unit

B – fan;  
S1 – automatic circuit breaker;  
S2 – external switch;  
X – input terminal block BU.

### Application

Automation and control of residential fan operation. It includes automatic controls as timer, humidity sensor, photosensor and motion sensor. All these options can be used in any combination.

### Design

- The control unit casing is made of high-quality plastic.
- The front panel is equipped with light indicators that display the current operating mode.
- Automatic operation with selected mode is possible. The switches are used to activate required operation modes depending on a specific application. The control units are available in several modifications:
  - Turn-off delay timer keeps the fan running for a set time period after turning the built-in or external switch off that provides extra ventilation in the premise. The control unit switches the fan off from 5 sec to 30 minutes.
  - Cyclic timer operation: the cyclic operation mode allows switching the fan on and off with set time intervals. Operation or standstill duration is adjusted from 5 sec to 30 min. The fan switches on and operates within pre-set time period followed by a pause according to timer settings. After that the cycle is renewed.
  - Humidity sensor switches the fan on as the humidity level in the premise increases above the set threshold. As it drops back the control unit switches the fan off. Humidity threshold is user-adjustable.
  - Built-in photosensor is sensitive to illumination in the room and switches the fan automatically on.

- «Dark mode»: The control unit switches the fan on after the light is off. The operation duration is adjustable from 5 sec to 30 min and the photosensor threshold is set by the regulator.

- «Light mode»: The control unit switches the fan on after the light is on. As light is off the fan continues operating and turns off as the turn-off delay timer requires from 5 sec to 30 min. If the light is on more than 60 minutes the fan switches off. The photosensor threshold is set by the control unit.

- The motion sensor responds to human motion in the sensitivity area and switches the fan automatically on. When motion is not registered the control unit switches the fan off as the turn-off delay timer requires from 5 sec to 30 min. Use of the motion sensor makes the fan control easy and is especially suitable for periodically visited premises. The sensitivity area is 4 m max. and the detection angle up to 100°.

### Mounting

- The control unit is designed for indoor installation, both close to the fan and remote. The installation place is selected with respect to the furniture location and walking routes.

| Model              | Options |       |                 |               |             |
|--------------------|---------|-------|-----------------|---------------|-------------|
|                    | switch  | timer | humidity sensor | motion sensor | photosensor |
| VENTS BU-1-60      | ●       | ●     | ●               | ●             | ●           |
| VENTS BU-1-60 TF   |         | ●     |                 |               | ●           |
| VENTS BU-1-60 THF  |         | ●     | ●               |               | ●           |
| VENTS BU-1-60 THPF |         | ●     | ●               | ●             | ●           |

### Technical data

|                                  | BU-1-60   |
|----------------------------------|-----------|
| Voltage [V] at 50 Hz             | 1~ 230    |
| Max. load power [W]              | 60        |
| Maximum load current [A]         | 0.3       |
| Overall dimensions LxBxH [mm]    | 151x46x27 |
| Maximum ambient temperature [°C] | +40       |
| Protection                       | IP34      |
| Weight [kg]                      | 0.075     |

### Sensor speed controller SRS-1



#### Application

- Applied in ventilation systems for turning the fans on/off and speed control of single-phase voltage controlled fan motors. Several fans can be connected to one speed controller if their total current does not exceed the maximum controller current.

#### Design

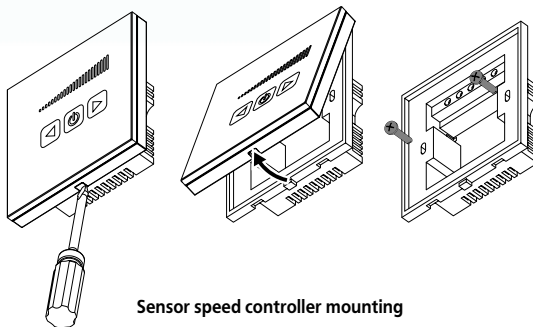
- The casing is made of plastic and the sensor panel is made of hardened glass. The sensor panel has On/Off button for speed control from minimum to maximum. The set speed level is displayed on the LED display. The speed controller has high control accuracy.

#### Mounting

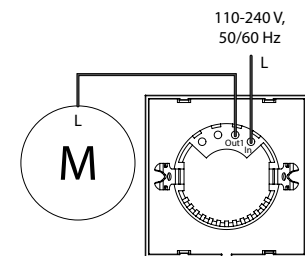
- The controller is designed for indoor mounting into standard round electric junction boxes.

#### Technical data:

|                          | SRS-1                            |
|--------------------------|----------------------------------|
| Voltage [V/50/60 Hz]     | 230                              |
| Maximum load current [A] | 1                                |
| Cable cross section      | 0.35 up to 1 mm <sup>2</sup>     |
| Temperature range [°C]   | from -10 up to +45               |
| Humidity range           | 5 % up to 80 % (no condensation) |
| Service life             | 100 000 switching operations     |
| Ingress Protection       | IP30                             |
| Weight [g]               | 138                              |



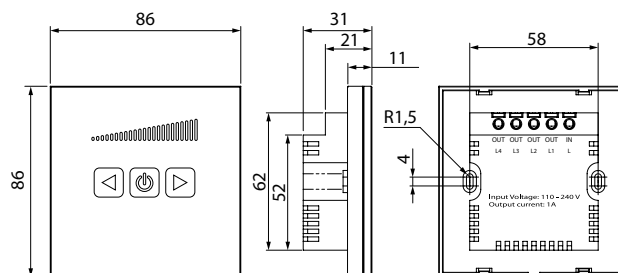
Sensor speed controller mounting



M – ventilation equipment motor

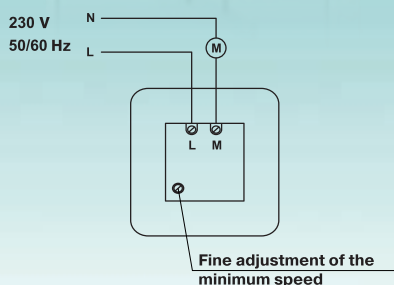
Wiring diagram

#### Overall dimensions:





## Speed controller RS-1-300



Controller wiring diagram

### Application

- Used in ventilation systems for switching on/off and speed control of single-phase fan motors with voltage control.
- Several fans can be controlled from the same unit in case the total consumption current does not exceed the permissible controller current value.

### Design and control

- The casing is made of plastic.
- The controller is featured with high efficiency and control accuracy.
- Turn to maximum speed by rotating the control knob.

- Regulation starts from the minimum to the maximum voltage value. The maximum speed produces the smoothest rotation.

- The minimum speed value is set by a variable resistor located at the controller control panel.

### Protection

- For overload protection the controller is equipped with a replaceable melting fuse.

### Mounting

- The controller is designed for indoor mounting into special flush mounting junction box MKV-2 (under separate order) or into standard round electric junction boxes.

### Technical data

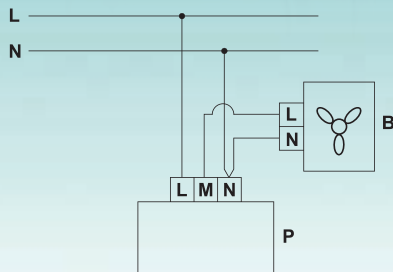
|                                  | RS-1-300 |
|----------------------------------|----------|
| Voltage [V] at 50 Hz             | 1~ 230   |
| Rated current [A]                | 1.5      |
| Overall dimensions LxBxH [mm]    | 95x85x60 |
| Maximum ambient temperature [°C] | 40       |
| Protection                       | IP40     |
| Weight [kg]                      | 0.11     |

### FLUSH MOUNTING JUNCTION BOX



MKV-2

Speed controller  
**RS-1-400**



Controller wiring diagram

**Application**

- Used in ventilation systems for switching on/off and speed control of single-phase fan motors with voltage control.
- Several fans can be controlled from the same unit in case the total consumption current does not exceed the permissible controller current value.

**Design and control**

- The casing is made of plastic.
- The controller is featured with high efficiency and control accuracy.
- Turn to maximum speed by rotating the control knob.
- Regulation starts from the minimum to the maximum voltage value. The maximum speed produces the smoothest rotation.

- The minimum speed value is set by a variable resistor located at the controller circuit board.

**Protection**

- The input circuit of the speed controller is equipped with a fuse for overload protection.
- The controller is equipped with a transient filter.

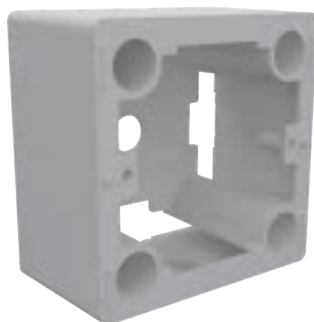
**Mounting**

- The controller is designed for indoor mounting into special flush mounting (MKN-3) or surface mounting (MKV-4) junction box (under separate order) or into standard round electric junction boxes.

**Technical data**

|                                  |          |
|----------------------------------|----------|
|                                  | RS-1-400 |
| Voltage 50/60 Hz [V]             | 1~ 230   |
| Rated current [A]                | 1.8      |
| Overall dimensions LxBxH [mm]    | 78x78x63 |
| Maximum ambient temperature [°C] | 35       |
| Protection                       | IP40     |
| Weight [kg]                      | 0.11     |

MOUNTING JUNCTION BOX

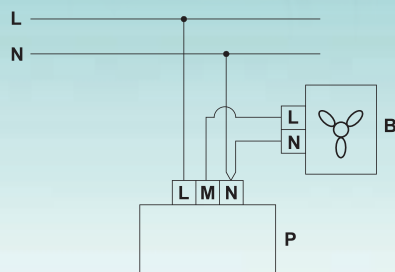


MKN-3 (for surface mounting)



MKV-3 (for flush mounting)

## Speed controller RS-1-0,5



Controller wiring diagram

### Application

- Used in ventilation systems for switching on/off and speed control of single-phase fan motors with voltage control.
- Several fans can be controlled from the same unit in case the total consumption current does not exceed the permissible controller current value.

### Design and control

- The casing is made of plastic.
- The controller is featured with high efficiency and control accuracy.
- Turn to maximum speed by rotating the control knob.
- Regulation starts from the minimum to the maximum voltage value. The maximum speed produces the smoothest rotation.
- The minimum speed value is set by a variable resistor located at the controller circuit board.

### Modifications

- **RS-1-0,5** – a speed controller without a mounting junction box.
- **RS-1-0,5 N** – a speed controller, completed with a surface mounting junction box.
- **RS-1-0,5 V** – a speed controller, completed with a flush mounting junction box.
- **RS-1-0,5 NV** – a speed controller, completed with surface and flush mounting junction boxes.

### Protection

- The input circuit of the speed controller is equipped with a fuse for overload protection.
- The controller is equipped with a transient filter.

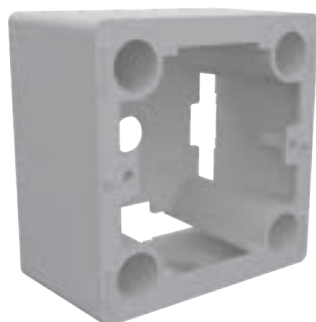
### Mounting

- The controller is designed for indoor mounting into special surface mounting (MKN-3) or flush mounting (MKV-4) junction box (under separate order) or into standard round electric junction boxes.

### Technical data

|                                  |          |
|----------------------------------|----------|
|                                  | RS-1-0,5 |
| Voltage 50/60 Hz [V]             | 1~ 230   |
| Rated current [A]                | 0.5      |
| Overall dimensions LxBxH [mm]    | 78x78x63 |
| Maximum ambient temperature [°C] | 35       |
| Protection                       | IP40     |
| Weight [kg]                      | 0.11     |

### MOUNTING JUNCTION BOX

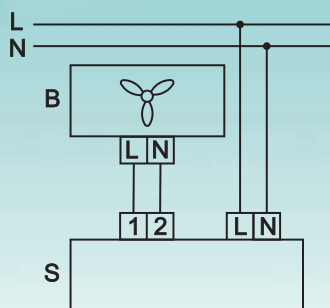


MKN-3 (for surface mounting)



MKV-4 (for flush mounting)

## Speed controller RS-...N (V)



Controller wiring diagram

### Application

- Used in ventilation systems for switching on/off and speed control of single-phase fan motors with voltage control.
- Several fans can be controlled from the same unit in case the total consumption current does not exceed the permissible controller current value.

### Design and control

- The controller casing is made of plastic and on/off button with light indicator.
- The controller is featured with high efficiency and control accuracy.
- Regulation starts from the minimum to the maximum voltage value. The maximum speed produces the smoothest rotation.

- The minimum speed value is set by a variable resistor located at the controller circuit board.

### Protection

- The input circuit of the speed controller is equipped with a melting fuse for overload protection.
- The controller is equipped with a transient filter.

### Mounting

- The regulator is designed for indoor installation.
- The casing design allows mounting the controller on the wall (N modification) or inside the wall (V modification).

### Technical data

|                                  | RS-1 N (V) | RS-1.5 N (V) | RS-2 N (V) | RS-2,5 N (V) |
|----------------------------------|------------|--------------|------------|--------------|
| Voltage [V] at 50 Hz             | 1~ 230     | 1~ 230       | 1~ 230     | 1~ 230       |
| Rated current [A]                | 1.0        | 1.5          | 2.0        | 2.5          |
| Overall dimensions LxBxH [mm]    | 162x80x70  | 162x80x70    | 162x80x70  | 162x80x70    |
| Maximum ambient temperature [°C] | 40         | 40           | 40         | 40           |
| Protection                       | IP30       | IP30         | IP30       | IP30         |
| Weight [kg]                      | 0.3        | 0.3          | 0.3        | 0.3          |

## Speed controller RS...PS



### Application

- Used in ventilation systems for switching on/off and speed control of single-phase fan motors with voltage control.
- Several fans can be controlled from the same unit in case the total consumption current does not exceed the permissible controller current value.

### Design and control

- The casing is made of plastic.
- Equipped with a light indication of the controller operating status.
- The controller is featured with high efficiency and control accuracy.
- Start the controller by pressing the button.
- Regulation starts from the minimum to the maximum voltage value. The maximum speed produces the smoothest rotation.

- The minimum speed value is set by a variable resistor located at the controller circuit board.
- The controller has an additional terminal (230 V) for connecting external equipment.

### Protection

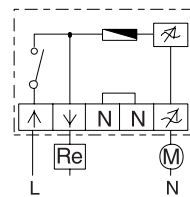
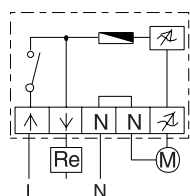
- The input circuit of the speed controller has overload protection.
- Controller is equipped with a transient filter.

### Mounting

- The controller is suitable for indoor installation on the wall.
- The versatile casing design allows fan mounting on the wall or inside the wall.
- Suitable for installation inside the round junction boxes.

### Technical data

|                                  | RS-0,5-PS | RS-1,5-PS | RS-2,5-PS | RS-4,0-PS |
|----------------------------------|-----------|-----------|-----------|-----------|
| Voltage [V] at 50 Hz             | 1~ 230    | 1~ 230    | 1~ 230    | 1~ 230    |
| Minimum current [A]              | 0.05      | 0.1       | 0.2       | 0.4       |
| Maximum current [A]              | 0.5       | 1.5       | 2.5       | 4.0       |
| Overall dimensions LxBxH [mm]    | 82x82x65  | 82x82x65  | 82x82x65  | 82x82x65  |
| Maximum ambient temperature [°C] | 35        | 35        | 35        | 35        |
| Protection                       | IP44      | IP44      | IP44      | IP44      |
| Weight [kg]                      | 0.16      | 0.19      | 0.19      | 0.26      |



Controller wiring diagram



## Speed controller RSA-0,3



### Application

RSA speed controller is used for air flow control of single-speed fans with low power consumption by step speed control of electric motors. Several fans can be controlled from the same unit in case the total consumption current does not exceed the permissible controller current value.

### Design

The controller casing is made of high-quality plastic.

Speed controller has four speeds with output frequency 160 V – 180 V – 200 V – 230 V. Speed controller is equipped with on/off light indicator and control knob for speed switch.

### Protection

For overload protection the controller is equipped with a replaceable melting fuse.

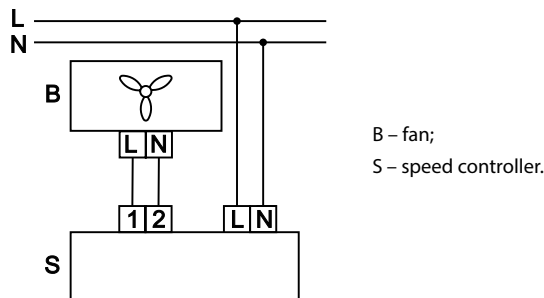
### Mounting

Transformer speed controller is designed for indoor installation. Provide sufficient air circulation for cooling of the internal circuits and do not install the speed controller above heating equipment.

### Technical data

|                                  | RSA-0,3   |
|----------------------------------|-----------|
| Voltage [V] at 50 Hz             | 1~ 230    |
| Output power, no more [VA]       | 60        |
| Maximum load current [A]         | 0.3       |
| Overall dimensions LxBxH [mm]    | 162x80x70 |
| Maximum ambient temperature [°C] | +40       |
| Protection                       | IP30      |
| Weight [kg]                      | 0.65      |

Speed control provides not only the best ventilation mode for periodically visited premises but considerable reduction of energy consumption.



## Sensor speed switch SP3-1



### Application

- Applied in ventilation systems for turning the fans on/off and speed switch of multi-speed fan motors.

### Design and control

- The casing is made of plastic and is equipped with a sensor panel made of hardened glass. The sensor panel has three speed switch buttons. Press a respective speed button to activate a required speed of a connected ventilation unit. Press an acti-

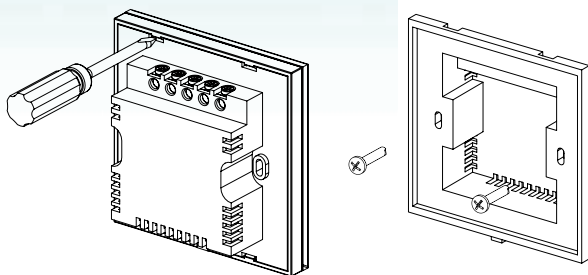
vated speed button to turn the ventilation unit off. The activated speed button glows blue.

### Mounting

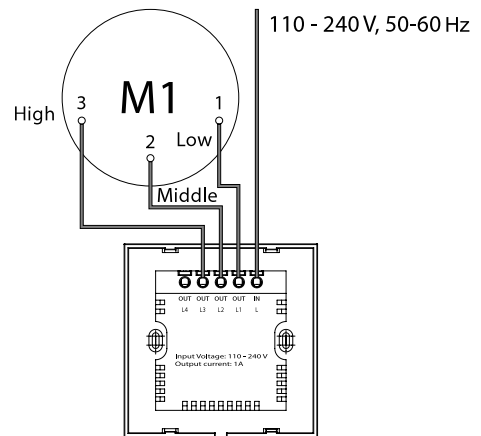
- The speed switch is designed for indoor mounting into special surface mounting box MKN-5 (upon special order) or flush mounting junction box MKV-1 (included).

### Technical data

|                          | SP3-1                            |
|--------------------------|----------------------------------|
| Voltage [V/50/60 Hz]     | 110-240                          |
| Maximum load current [A] | 1                                |
| Cable cross section      | 0.35 up to 1 mm <sup>2</sup>     |
| Temperature range [°C]   | from -10 up to +45               |
| Humidity range           | 5 % up to 80 % (no condensation) |
| Service life             | 100 000 switching operations     |
| Ingress Protection       | IP30                             |
| Weight [g]               | 138                              |

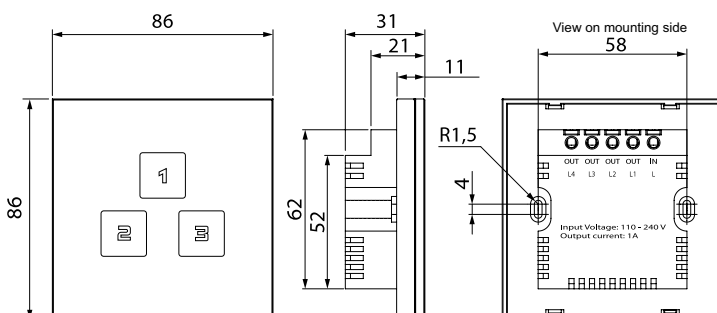


Sensor speed switch mounting



Sensor speed switch mounting

### Overall dimensions:



### SURFACE MOUNTING JUNCTION BOX



MKN-5

Speed switch

P2-1-300

P3-1-300



Application

- Used for switching the fan on/off and speed selection for the fans with multiple-stage fans.

Design and control

- The switch casing is made of plastic.
- Both direct speed switching (wiring diagram 1 and 3) and fan switching and speed control in parallel with light in the room (wiring diagrams 2 and 4).

Mounting

- The speed switch is designed for indoor installation on the wall inside a flush junction mounting box.
- Suitable for installation inside the round junction boxes.

Technical data

|                                  | P2-1-300 | P3-1-300 |
|----------------------------------|----------|----------|
| Voltage [V] at 50 Hz             | 1~ 230   | 1~ 230   |
| Rated current [A]                | 3.0      | 3.0      |
| Number of speeds                 | 2        | 3        |
| Overall dimensions LxBxH [mm]    | 88x88x51 | 88x88x51 |
| Maximum ambient temperature [°C] | 40       | 40       |
| Protection                       | IP40     | IP40     |
| Weight [kg]                      | 0.13     | 0.13     |

SWITCH CONNECTION OPTIONS

diagram 1

The fan can be manually switched ON to one of the three required speeds or switched OFF by means of external speed switch as P3-1-300.

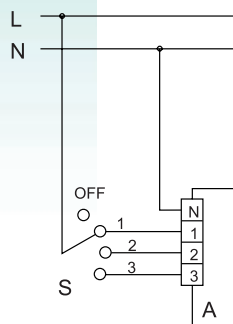


diagram 4

The fan can be manually switched ON to one of three speeds by means of the external S speed switch as P2-1-300. When switching the fan ON the light is switched in parallel ON. The fan can be switched OFF with parallel switching the light OFF. The fan operates both with light or without it.

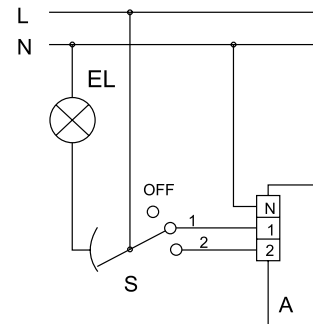


diagram 2

The fan can be manually switched ON to one of three speeds by means of such external S speed switch as P3-1-300. When switching the fan ON the light is switched in parallel ON. The fan can be switched OFF with parallel switching the light OFF. The fan operates both with light or without it.

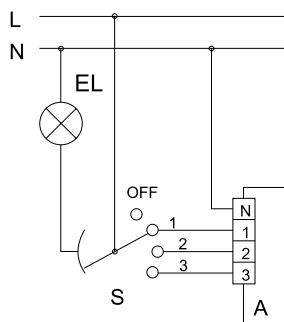
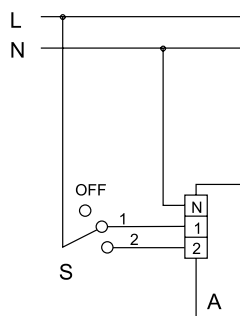


diagram 3

The fan can be manually switched ON to one of the two required speeds or switched OFF by means of the external speed switch as P2-1-300.



FLUSH MOUNTING JUNCTION BOX



MKV-2

## Speed switch P2-5,0 N(V) P3-5,0 N(V) P5-5,0 N(V)



### Application

- Used for switching the fan on/off and speed selection for the fans with multiple-stage fans.

### Design and control

- The switch casing is made of plastic and equipped with on/off button and operation light indicator.
- Speed switch is used either for local speed switch by rotating a control knob or can be used as a remote wire control panel connected

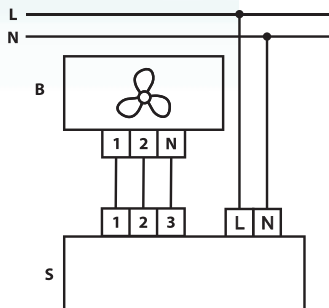
with multi-speed transformer speed controllers. P5-5,0 speed switch can be connected to transformer speed controller.

### Mounting

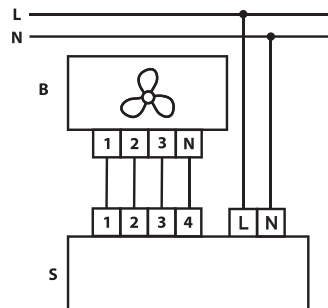
- The speed switch is designed for indoor installation.
- The casing design allows mounting on the wall (N modification) or inside the wall (V modification).

### Technical data

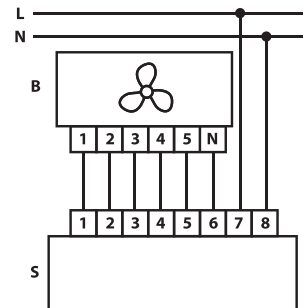
|                                  | P2-5,0    | P3-5,0    | P5-5,0    |
|----------------------------------|-----------|-----------|-----------|
| Voltage [V] at 50 Hz             | 1~ 230    | 1~ 230    | 1~ 230    |
| Rated current [A]                | 5.0       | 5.0       | 5.0       |
| Number of speeds                 | 2         | 3         | 5         |
| Overall dimensions LxBxH [mm]    | 162x80x70 | 162x80x70 | 162x80x70 |
| Maximum ambient temperature [°C] | 40        | 40        | 40        |
| Protection                       | IP30      | IP30      | IP30      |
| Weight [kg]                      | 0.25      | 0.25      | 0.25      |



P2-5,0 N(V)



P3-5,0 N(V)



P5-5,0 N(V)

B – fan  
S – switch

Speed switch connections

Temperature regulator  
RT-10



**Application**

- Used for temperature control in the room and control of ventilation, heating and conditioning systems.

**Design and control**

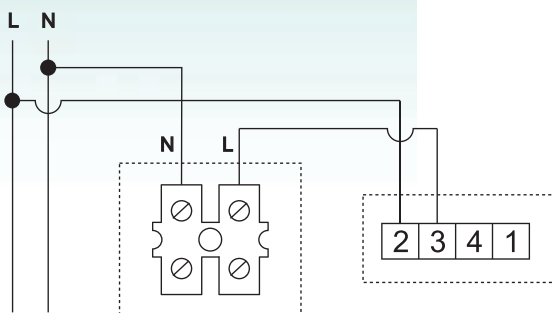
- The casing is made of durable casing.
- As the temperature decreases or increases the thermostat can break or close the contacts. The operation mode is selected while connection.
- Temperature range from +10 °C to +30 °C.

**Mounting**

- Thermostat is designed for indoor wall mounting.
- The recommended installation height is 1.5 m from the floor.
- Do not install the thermostat close to windows, doors and heating equipment.

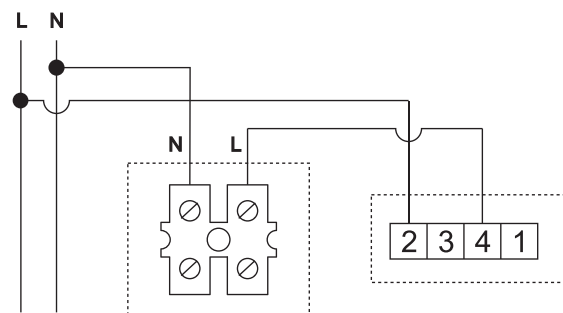
**Technical data**

|                                  | RT-10      |
|----------------------------------|------------|
| Voltage 50/60 Hz [V]             | 1~ 220-240 |
| Overall dimensions LxBxH [mm]    | 84x84x35   |
| Maximum ambient temperature [°C] | 40         |
| Protection                       | IP40       |



Fan operates until it reaches the pre-set temperature threshold

fig. 1



Fan starts operation as the temperature reaches the threshold value set by the thermostat.

fig. 2

Regulator connections

**For wiring diagram fig. 1**

- maximum active load current no more 10A
- maximum inductive load current no more 3A

**For wiring diagram fig. 2**

- maximum active load current no more 6 A
- maximum inductive load current no more 2 A



## Temperature controller RTS-1-400 RTSD-1-400



### Application

- Temperature control in ventilation, heating and air conditioning systems.
- Compatible with fans and fan coil valves, air heating units equipped with three-speed 230 V fans.
- Automatic control of heating/cooling capacity.

### Design and control

- Plastic casing with a built-in temperature sensor.
- The front panel incorporates an integrated LCD display and control buttons.
- The display shows current and set indoor air temperature, set speed and a selected operation mode. The temperature controller may be set for cooling, heating or auto mode.
- The fan speed is set manually by pressing the control buttons.
- Automatic control of low/medium/high speed, depending on indoor air temperature.

- Due to illuminated LCD display the temperature controller is suitable for use in bad light conditions.
- Temperature control accuracy up to 1 °C.
- Saving of user setting saving in case of power outage.
- RTSD-1-400 is available with a remote control.
- Night operation mode. For details, refer to the night operation mode diagram.

### Mounting

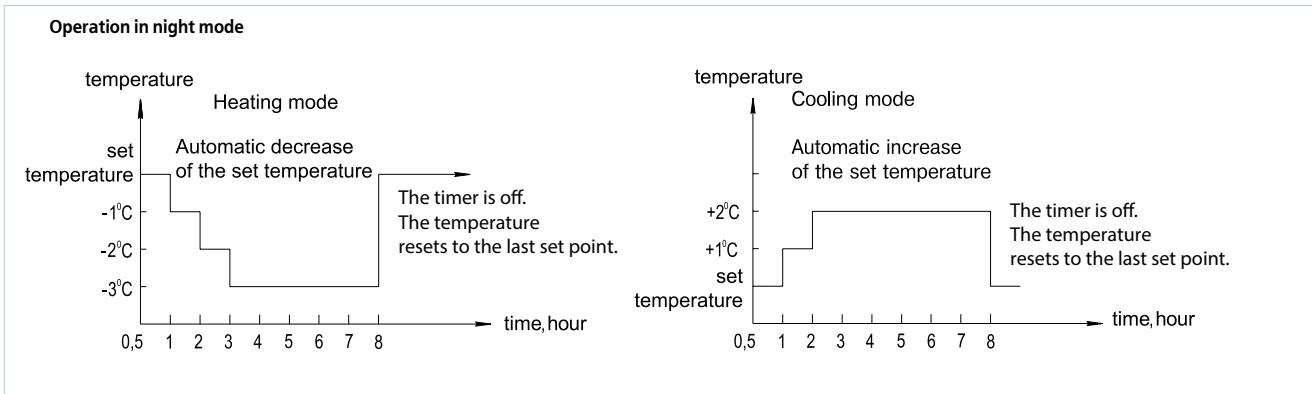
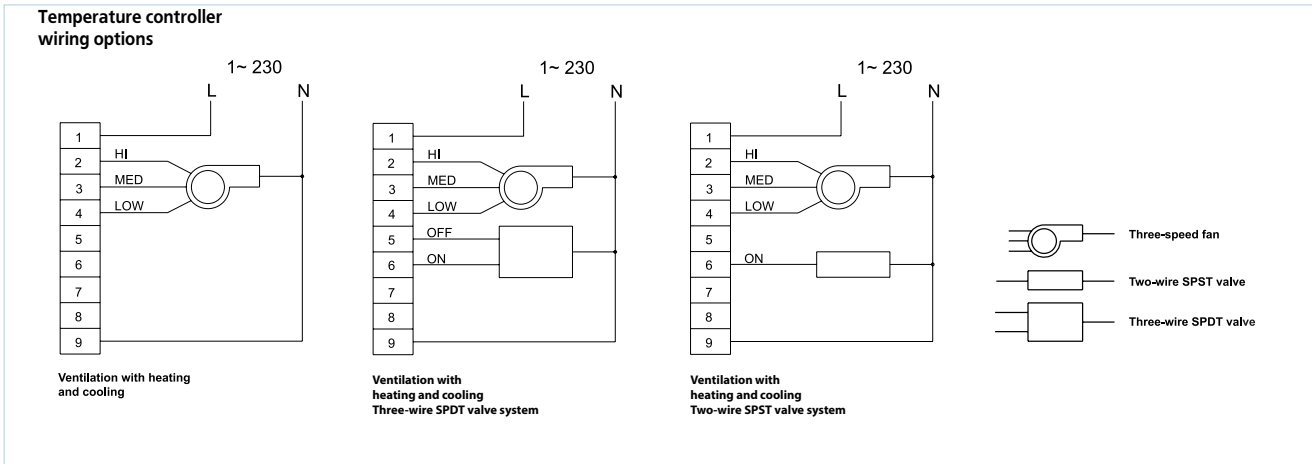
- The temperature controller is designed for indoor wall flush mounting.
- The recommended installation height is 1.5 m above the floor level.
- The installation place must not be close to windows, doors and heating or cooling equipment.
- Wall flush mounting in the junction box MKV-1 (available upon separate order).

### Technical data

|                                  | RTS-1-400 | RTSD-1-400 |
|----------------------------------|-----------|------------|
| Voltage [V] at 50 Hz             | 1~ 230    | 1~ 230     |
| Rated current [A]                | 2.0       | 2.0        |
| Number of speeds                 | 3         | 3          |
| Temperature range °C             | +10...+30 | +10...+30  |
| Overall dimensions LxBxH [mm]    | 88x88x51  | 88x88x51   |
| Maximum ambient temperature [°C] | 40        | 40         |
| Protection                       | IP40      | IP40       |
| Remote control                   | no        | yes        |

### Night mode operation

- **Operation in heating mode:** 30 minutes after activation of the night mode the indoor air temperature drops by 1 °C and by one more 1 °C in the next hour. In the next hour the air temperature drops by 1 °C more and remains constant for the next 5 hours. After turning the timer off the air temperature reaches the initial value.
- **Operation in cooling mode:** 30 minutes after activation of the night mode the indoor air temperature increases by 1 °C and by one more 1 °C in the next hour and remains constant for the next 6 hours. After turning the timer off the air temperature drops down to the initial value.



**JUNCTION BOX FOR WALL FLUSH MOUNTING**



**MKV-1**

## Insulating transformer TRF-220/12-25



### Application

- Low-voltage step-down transformers are used in humid premises as bathroom and kitchen with low-voltage (12 V) safety requirements. TRF transformers are used to provide safe power voltage 12 V/ 50 Hz for the domestic fans not more than 16 W (25VA) with current load up to 2 A.

### Design

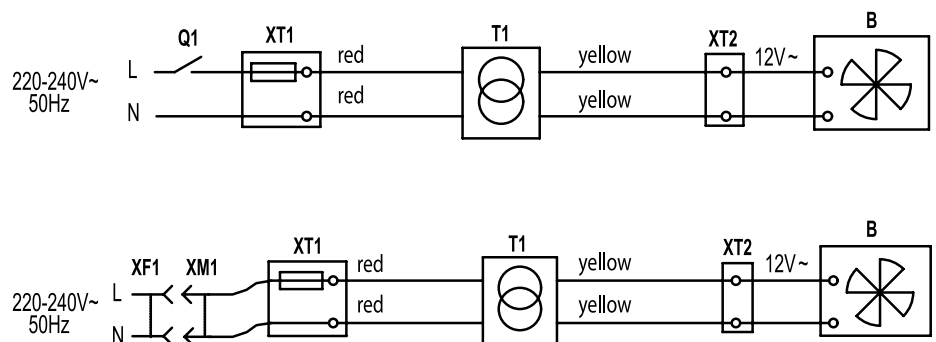
- Transformer for flush mounting. The transformer casing is made of plastic and supplied with a protective terminal box. Electrical connection of the fan with the safe voltage 12 V is done through the output terminal block.
- For overload protection the transformer is equipped with a replaceable melting fuse built in the input terminal board.
- Protection rating (except terminal blocks) IP40.

### Mounting

- Transformer is designed for indoor installation in areas not subjected to high humidity and temperature influence.
- Transformer is designed for ceiling flush mounting or recess wall mounting. In case of installation into a junction box provide sufficient air ventilation to prevent the device overheating.
- Observe the applicable fire safety requirements while installation and operation. Do not install transformers above heating equipment.

### Technical data

|                                  | TRF-220/12-25                                  |
|----------------------------------|--|
| Voltage [V] at 50 Hz             | 1~ 230   |
| Output voltage [V] / 50 Hz       | 12   |
| Max. load power, no more         | 16 (25 VA)                                     |
| Maximum load current [A]         | 2.0  |
| Overall dimensions LxBxH [mm]    | Transformer 91x58x62<br>Terminal box 110x40x40 |
| Maximum ambient temperature [°C] | +40  |
| Protection                       | IP40   |
| Weight [kg]                      | 0.8  |



Transformer wiring diagrams

- Q1 – external switch integrated into fixed wiring system;
- XT1 – input terminal block with built-in fuse in the protecting terminal box;
- XF1 – socket integrated into fixed wiring system;
- XM1 – standard wall plug;
- T1 – transformer;
- XT2 – output terminal block for connection of 12 V fan.
- B – low voltage fan, 12 V.

Insulating transformer  
**TRF-220/12-25 K**  
**TRF-220/12-25 KV**



**Application**

• Low-voltage step-down transformers are used in humid premises as bathroom and kitchen with low-voltage (12 V) safety requirements. TRF transformers are used to provide safe power voltage 12 V/ 50 Hz for the domestic fans not more than 16 W (25VA) with current load up to 2 A.

**Design**

- TRF-220/12-25 K transformer in plastic casing for wall mounting.
- TRF-220/12-25 KV transformer in plastic casing for wall mounting with a built-in switch. The casing is equipped with a light indicator.
- For overload protection the transformer is equipped with a replaceable melting fuse.

**Modifications and options**



**KV** – equipped with a pull cord switch.



**KT** – equipped with a regulated timer with the operating time from 2 to 30 minutes.



**KTH** – equipped with a timer with the operating time from 2 to 30 minutes and a humidity sensor with the threshold value from 60 to 90 %.



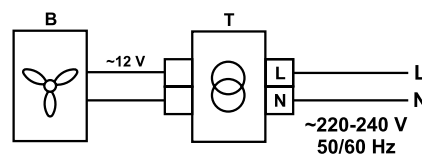
**KTP** – equipped with a regulated timer and a motion sensor with the sensitivity area from 1 to 4 m and the detection angle up to 100°.

**Mounting**

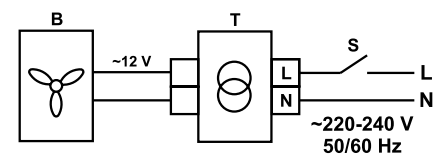
- Transformer is designed for indoor installation in areas not subjected to high humidity and temperature influence.
- Transformer is designed for wall mounting. Provide sufficient air circulation for cooling of the internal circuits.
- Observe the applicable fire safety requirements while installation and operation. Do not install transformers above heating equipment.

**Technical data**

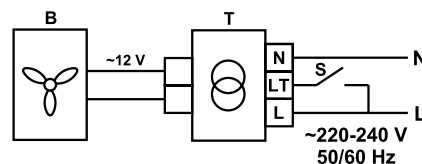
|                                  | TRF-220/12-25 K |
|----------------------------------|-----------------|
| Voltage [V] at 50 Hz             | 1~ 230          |
| Output voltage [V] / 50 Hz       | 12              |
| Max. load power, no more         | 16 (25VA)       |
| Maximum load current [A]         | 2.0             |
| Overall dimensions LxBxH [mm]    | 80x162x63       |
| Maximum ambient temperature [°C] | +40             |
| Protection                       | IP30            |
| Weight [kg]                      | 0.85            |



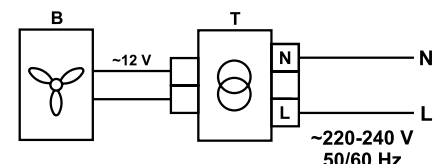
TRF-220/12-25 K



TRF-220/12-25 KV



TRF-220/12-25 KT / KTH



TRF-220/12-25 KTP






**Transformer wiring diagrams**










B – low voltage fan, 12 V;  
 T – protective transformer;  
 S – external switch.

# AIR DISTRIBUTION UNITS





|   |  |                     |
|---|--|---------------------|
|    | <p><b>SUPPLY AND EXHAUST GRILLES</b><br/>Art-Deco Flora Series</p>   | <p>page<br/>166</p> |
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|   |   |             |
|---|---|-------------|
|    | <b>SUPPLY AND EXHAUST GRILLES</b><br>MV 150, MV 150-1 Series                                  | page<br>182 |
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|    | <b>SUPPLY AND EXHAUST GRILLES</b><br>MV 170 Series  | page<br>185 |
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|   |   |             |
|---|---|-------------|
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|    | <b>SUPPLY AND EXHAUST HOODS</b><br>MV 102, MV 122, MV 152 Series                  | page<br>196 |
|   | <b>EXHAUST GRILLES</b><br>MV 100 J Series   | page<br>198 |
|  | <b>EXHAUST GRILLES</b><br>MV 120 J, MV 150 VJ Series                              | page<br>199 |
|  | <b>EXHAUST GRILLES</b><br>MV 160 J Series   | page<br>200 |
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|  | <b>EXHAUST GRILLES</b><br>MV 100 KV, MV 120 KV, MV 125 KV Series                  | page<br>203 |

## Art-Deco Flora Series



### Application

- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- Used for correct air flow distribution in premises.
- Wall or ceiling mounting.

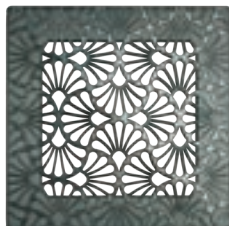
### Design

- Made of high quality and durable ABS-plastic.
- Fastening with magnets.

### Colour modifications



Art-Deco Flora 200x200  
white



Art-Deco Flora 200x200  
gray shine



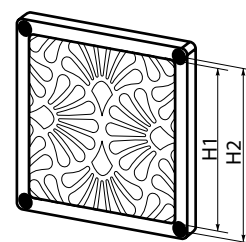
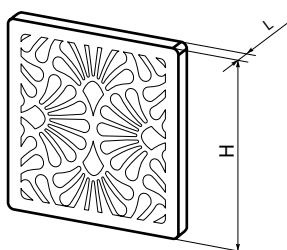
Art-Deco Flora 200x200  
black shine



Art-Deco Flora 200x200  
ivory shine

### Overall dimensions

| Model          | Dimensions [mm] |      |      |    |
|----------------|-----------------|------|------|----|
|                | □ H             | □ H1 | □ H2 | L  |
| Art-Deco Flora | 200             | 155  | 175  | 10 |



■ Mounting example





## MV 100 Series



### Application

- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- Used for correct air flow distribution in premises.
- Wall or ceiling mounting.

### Design

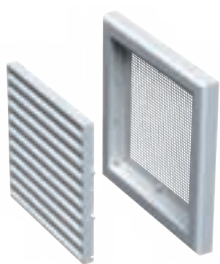
- Made of quality and durable plastic.
- Multi-element structure. The internal part is fixed to the base with latches for easy cleaning without dismantling.
- Screw fixing.
- The grille has slanted vanes.

### Colour modifications



### Modifications

#### MV 100 – basic modification



- Wall or ceiling mounting.
- **MV 100 s** – model with a protecting insect screen.



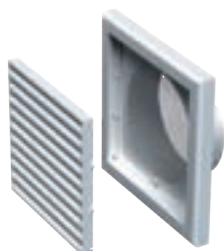
#### MV 100 R – model with air flow regulator (R)



- Equipped with a movable flap for air flow regulation.
- Air pass is regulated with a tilt wand or pull cords.
- **MV 100 Rs** – model with air flow regulator and a protecting insect screen.



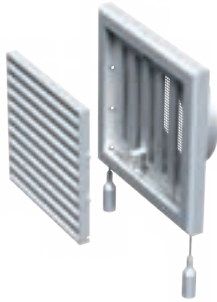
#### MV 100 V – model with a round flange (V)



- Fitted with a round connecting flange for mounting with  $\varnothing$  100 mm air duct.
- Suitable for direct mounting with VENTS VKO 100 fan.
- **MV 100 Vs** – model with a round flange and a protecting insect screen.



### MV 100 VR – model with a round flange and air flow regulator (VR)



- Fitted with a round connecting flange for mounting with Ø100 mm air duct.
- Equipped with a movable flap for air flow regulation.
- Air pass is regulated with a tilt wand or pull cords.
- Suitable for direct mounting with VENTS VKO 100 fan.
- **MV 100 VRs** – model with a round flange, air flow regulator and a protecting insect screen.



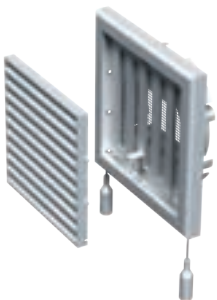
### MV 100 VU – model with a multi-section flange (VU)



- Equipped with a multi-section connecting flange for mounting with Ø100, 125 mm or 55x110 mm air duct.
- **MV 100 VUs** – model with a multi-section flange and a protecting insect screen.



### MV 100 VUR – model with a multi-section flange and air flow regulator (VUR)



- Equipped with a multi-section connecting flange for mounting with Ø100, 125 mm or 55x110 mm air duct.
- Equipped with a movable flap for air flow regulation.
- Air pass is regulated with a tilt wand or pull cords.
- **MV 100 VURs** – model with a multi-section flange, air flow regulator and a protecting insect screen.



### Overall dimensions

| Model      | Dimensions [mm] |     |    |    |                  | Air pass, [m <sup>2</sup> ] | Fig. no. |
|------------|-----------------|-----|----|----|------------------|-----------------------------|----------|
|            | □B              | □H  | L  | L1 | Flange (D)       |                             |          |
| MV 100     | 154             | 110 | 15 | –  | –                | 0.0067                      | 1, 2     |
| MV 100 R   | 154             | 110 | 15 | –  | –                | 0.0049                      | 1, 2     |
| MV 100 V   | 154             | 110 | 15 | 45 | 100              | 0.004                       | 1, 3     |
| MV 100 VR  | 154             | 110 | 15 | 45 | 100              | 0.0037                      | 1, 3     |
| MV 100 VU  | 154             | 110 | 15 | 39 | 100, 125, 55x110 | 0.0067                      | 1, 4     |
| MV 100 VUR | 154             | 110 | 15 | 39 | 100, 125, 55x110 | 0.0049                      | 1, 4     |

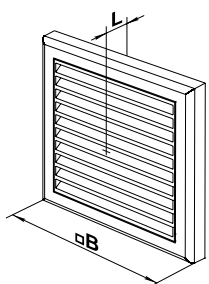


Fig. 1

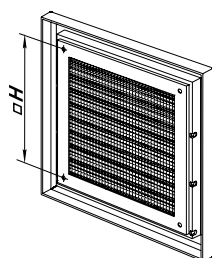


Fig. 2

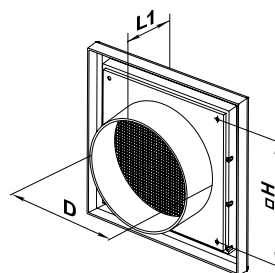


Fig. 3

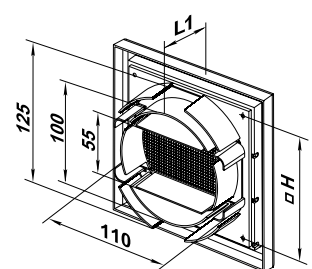


Fig. 4

## MV 101 Series



### Application

- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- Used for correct air flow distribution in premises.
- Wall or ceiling mounting.

### Design

- Made of quality and durable plastic.
- Multi-element structure. The internal part is fixed to the base with latches for easy cleaning without dismantling.
- Screw fixing.
- The grille has straight vanes to increase air pass.

### Colour modifications



### Modifications

#### MV 101 – basic modification



- Wall or ceiling mounting
- **MV 101 s** – model with a protecting insect screen.



#### MV 101 R – model with an air flow regulator (R)



- Equipped with a movable flap for air flow regulation.
- Air pass is regulated with a tilt wand or pull cords.
- **MV 101 Rs** – model with air flow regulator and a protecting insect screen.



#### MV 101 V – model with a round flange (V)



- Fitted with a round connecting flange for mounting with Ø 100 mm air duct.
- Suitable for direct mounting with VENTS VKO 100 fan.
- **MV 101 Vs** – model with a round flange and a protecting insect screen.



### MV 101 VR – model with a round flange and air flow regulator (VR)



- Fitted with a round connecting flange for mounting with  $\varnothing 100$  mm air duct.
- Equipped with a movable flap for air flow regulation.
- Air pass is regulated with a tilt wand or pull cords.
- Suitable for direct mounting with VENTS VKO 100 fan.
- **MV 101 VRs** – model with a round flange, air flow regulator and a protecting insect screen.



### MV 101 VU – model with a multi-section flange (VU)



- Equipped with a multi-section connecting flange for mounting with  $\varnothing 100, 125$  mm or  $55 \times 110$  mm air duct.
- **MV 101 VUs** – model with a multi-section flange and a protecting insect screen.



### MV 101 VUR – model with a multi-section flange and air flow regulator (VUR)



- Equipped with a multi-section connecting flange for mounting with  $\varnothing 100, 125$  mm or  $55 \times 110$  mm air duct.
- Equipped with a movable flap for air flow regulation.
- Air pass is regulated with a tilt wand or pull cords.
- **MV 101 VURs** – model with a multi-section flange, air flow regulator and a protecting insect screen.



### Overall dimensions

| Model      | Dimensions [mm] |     |    |    |                  | Air pass, [m <sup>2</sup> ] | Fig. no. |
|------------|-----------------|-----|----|----|------------------|-----------------------------|----------|
|            | □B              | □H  | L  | L1 | Flange (D)       |                             |          |
| MV 101     | 154             | 110 | 19 | –  | –                | 0.0089                      | 1, 2     |
| MV 101 R   | 154             | 110 | 19 | –  | –                | 0.005                       | 1, 2     |
| MV 101 V   | 154             | 110 | 19 | 49 | 100              | 0.0079                      | 1, 3     |
| MV 101 VR  | 154             | 110 | 19 | 49 | 100              | 0.0044                      | 1, 3     |
| MV 101 VU  | 154             | 110 | 19 | 43 | 100, 125, 55x110 | 0.0089                      | 1, 4     |
| MV 101 VUR | 154             | 110 | 19 | 43 | 100, 125, 55x110 | 0.005                       | 1, 4     |

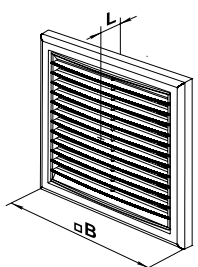


Fig. 1

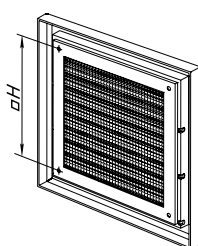


Fig. 2

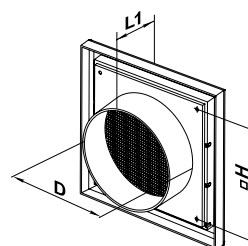


Fig. 3

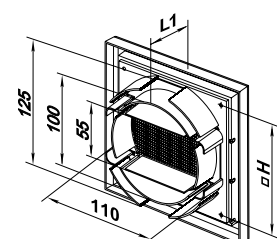


Fig. 4

## MV 120 Series



### Application

- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- Used for correct air flow distribution in premises.
- Wall or ceiling mounting.

### Design

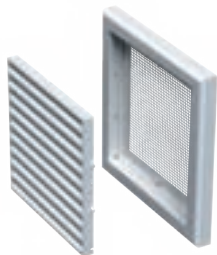
- Made of quality and durable plastic.
- Multi-element structure. The internal part is fixed to the base with latches for easy cleaning without dismantling.
- Screw fixing.
- The grille has slanted vanes.

### Colour modifications



### Modifications

#### MV 120 – basic modification



- Wall or ceiling mounting.
- **MV 120 s** – model with a protecting insect screen.



#### MV 120 R – model with an air flow regulator (R)



- Equipped with a movable flap for air flow regulation.
- Air pass is regulated with a tilt wand or pull cords.
- **MV 120 Rs** – model with air flow regulator and a protecting insect screen.



#### MV 120 V – model with a round flange (V)



- Fitted with a round connecting flange for mounting with Ø 125 mm air duct.
- Suitable for direct mounting with VENTS VKO 125 fan.
- **MV 120 Vs** – model with a round flange and a protecting insect screen.





### MV 120 VR – model with a round flange and air flow regulator (VR)



- Fitted with a round connecting flange for mounting with  $\varnothing$  125 mm air duct.
- Equipped with a movable flap for air flow regulation.
- Air pass is regulated with a tilt wand or pull cords.
- Suitable for direct mounting with VENTS VKO 125 fan.
- **MV 120 VRs** – model with a round flange, air flow regulator and a protecting insect screen.



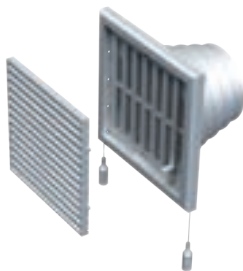
### MV 120 VN – model with a flange with various diameters (VN)



- Fitted with a round connecting flange for mounting with  $\varnothing$  100/110/120/130/150 mm air duct.
- MV 120 VNs – model with a round flange with various diameters and a protecting insect screen.



### MV 120 VNR – model with a flange with various diameters and air flow regulator (VNR)



- Fitted with a round connecting flange for mounting with  $\varnothing$  100/110/120/130/150 mm air duct.
- Equipped with a movable flap for air flow regulation.
- Air pass is regulated with a tilt wand or pull cords.
- MV 120 VNRs – model with a round variable diameter flange, air flow regulator and a protecting insect screen.



### Overall dimensions

| Model      | Dimensions [mm] |     |    |     |         | Air pass, [m <sup>2</sup> ] | Fig. no. |
|------------|-----------------|-----|----|-----|---------|-----------------------------|----------|
|            | □B              | □H  | L  | L1  | D       |                             |          |
| MV 120     | 186             | 142 | 15 | –   | –       | 0.0115                      | 1, 2     |
| MV 120 R   | 186             | 142 | 15 | –   | –       | 0.0062                      | 1, 2     |
| MV 120 V   | 186             | 142 | 15 | 45  | 125     | 0.0083                      | 1, 3     |
| MV 120 VR  | 186             | 142 | 15 | 45  | 125     | 0.0044                      | 1, 3     |
| MV 120 VN  | 186             | 142 | 15 | 115 | 100-150 | 0.009                       | 1, 4     |
| MV 120 VNR | 186             | 142 | 15 | 115 | 100-150 | 0.0051                      | 1, 4     |

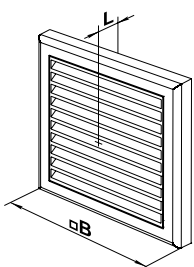


Fig. 1

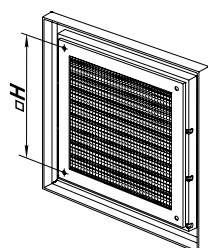


Fig. 2

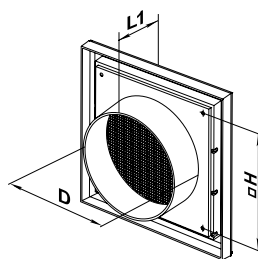


Fig. 3

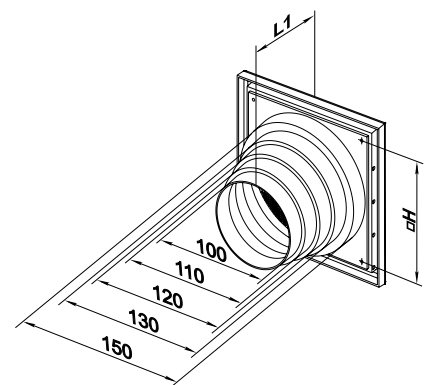


Fig. 4

## MV 121 Series



### Application

- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- Used for correct air flow distribution in premises.
- Wall or ceiling mounting.

### Design

- Made of quality and durable plastic.
- Multi-element structure. The internal part is fixed to the base with latches for easy cleaning without dismantling.
- Screw fixing.
- The grille has straight vanes to increase air pass.

### Colour modifications



### Modifications

#### MV 121 – basic modification



- Wall or ceiling mounting.
- **MV 121 s** – model with a protecting insect screen.



#### MV 121 R – model with an air flow regulator (R)



- Equipped with a movable flap for air flow regulation.
- Air pass is regulated with a tilt wand or pull cords.
- **MV 121 Rs** – model with air flow regulator and a protecting insect screen.



#### MV 121 V – model with a round flange (V)



- Fitted with a round connecting flange for mounting with  $\varnothing$  125 mm air duct.
- Suitable for direct mounting with VENTS VKO 125 fan.
- **MV 121 Vs** – model with a round flange and a protecting insect screen.



### MV 121 VR – model with a round flange and air flow regulator (VR)



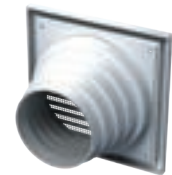
- Fitted with a round connecting flange for mounting with  $\varnothing$  125 mm air duct.
- Equipped with a movable flap for air flow regulation.
- Air pass is regulated with a tilt wand or pull cords.
- Suitable for direct mounting with VENTS VKO 125 fan.
- **MV 121 VRs** – model with a round flange, air flow regulator and a protecting insect screen.



### MV 121 VN – model with a flange with various diameters (VN)



- Fitted with a round connecting flange with various diameters for mounting with  $\varnothing$  100/110/120/130/150 mm air duct.
- **MV 121 VNs** – model with a round flange with various diameters and a protecting insect screen.



### MV 121 VNR – model with a flange with various diameters and air flow regulator (VNR)



- Fitted with a round connecting flange with various diameters for mounting with  $\varnothing$  100/110/120/130/150 mm air duct.
- Equipped with a movable flap for air flow regulation.
- Air pass is regulated with a tilt wand or pull cords.
- **MV 121 VNRs** – model with a round flange with various diameters, air flow regulator and a protecting insect screen.



### Overall dimensions

| Model      | Dimensions [mm] |     |    |     |         | Air pass, [m <sup>2</sup> ] | Fig. no. |
|------------|-----------------|-----|----|-----|---------|-----------------------------|----------|
|            | □B              | □H  | L  | L1  | D       |                             |          |
| MV 121     | 186             | 142 | 19 | –   | –       | 0.0155                      | 1, 2     |
| MV 121 R   | 186             | 142 | 19 | –   | –       | 0.0083                      | 1, 2     |
| MV 121 V   | 186             | 142 | 19 | 49  | 125     | 0.0123                      | 1, 3     |
| MV 121 VR  | 186             | 142 | 19 | 49  | 125     | 0.0066                      | 1, 3     |
| MV 121 VN  | 186             | 142 | 19 | 119 | 100-150 | 0.0123                      | 1, 4     |
| MV 121 VNR | 186             | 142 | 19 | 119 | 100-150 | 0.0066                      | 1, 4     |

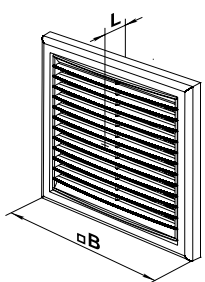


Fig. 1

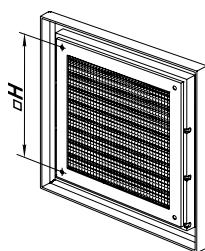


Fig. 2

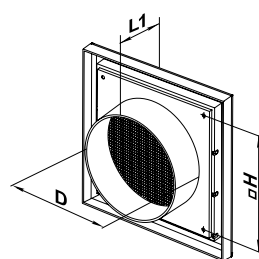


Fig. 3

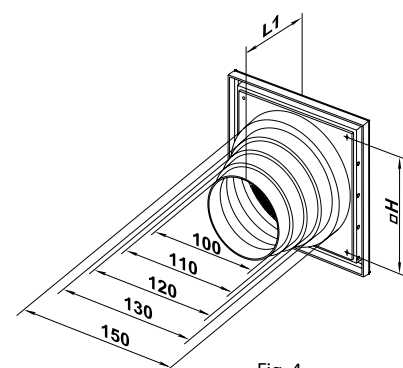


Fig. 4

## MV 125 Series



### Application

- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- Used for correct air flow distribution in premises.
- Wall or ceiling mounting.

### Design

- Made of quality and durable plastic.
- Multi-element structure. The internal part is fixed to the base with latches for easy cleaning without dismantling.
- Fixing with screw or lugs depending on modification.

### Colour modifications



### Modifications

#### MV 125 – basic modification



- Screw fixing.
- **MV 125 s** – model with a protecting screen and screw fixing.
- **MV 125 M** – model with fixing lugs.
- **MV 125 Ms** – model with fixing lugs and a protecting insect screen.



#### MV 125 VD – model with four-element connecting flange (VD)



- Screw fixing.
- Equipped with four-element connecting flange with adjustable diameter for connection to Ø 100-150 mm round air duct.
- **MV 125 VDS** – grille model with screw fixing and a protecting insect screen.
- **MV 125 VDM** – grille model with fixing lugs.
- **MV 125 VDMs** – grille model with fixing lugs and a protecting insect screen.



### Overall dimensions

| Model     | Dimensions [mm] |     |    |    |     |     |         | Air pass, [m <sup>2</sup> ] | Fig. no. |
|-----------|-----------------|-----|----|----|-----|-----|---------|-----------------------------|----------|
|           | H               | B   | L  | L1 | H1  | B1  | D       |                             |          |
| MV 125    | 251             | 182 | 16 | –  | 226 | 157 | –       | 0.0127                      | 1, 2     |
| MV 125 VD | 251             | 182 | 16 | 41 | 226 | 157 | 100-150 | 0.0127                      | 1, 3     |

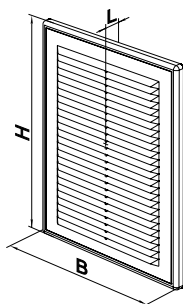


Fig. 1

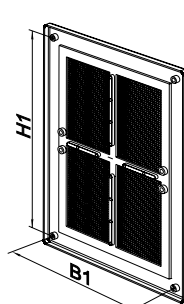


Fig. 2

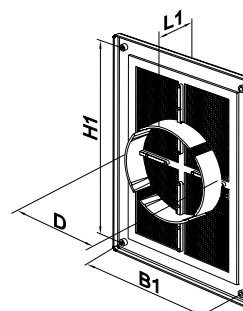


Fig. 3

**MV 125-1  
Series**



**Application**

- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- Used for correct air flow distribution in premises.
- Wall or ceiling mounting.

**Design**

- Made of quality and durable plastic.
- Single-element structure. Modification may include a protecting insect screen.
- Fixing with glue or silicon.

**Colour modifications**



**Modifications**

**MV 125-1 – single-element model**

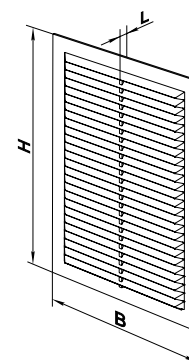


- Wall or ceiling mounting.
- Fixing with glue or silicon.
- **MV 125-1 s** – model with a protecting insect screen.



**Overall dimensions**

| Model    | Dimensions [mm] |     |   | Air pass, [m <sup>2</sup> ] |
|----------|-----------------|-----|---|-----------------------------|
|          | H               | B   | L |                             |
| MV 125-1 | 238             | 170 | 8 | 0.0127                      |





## MV 126 Series



### Application

- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- Used for correct air flow distribution in premises.
- Wall or ceiling mounting.

### Design

- Made of quality and durable plastic.
- Multi-element structure. The internal part is fixed to the base with latches for easy cleaning without dismantling.
- Fixing with screws or lugs depending on grille modification.

### Colour modifications



### Modifications

#### MV 126 – basic modification



- Screw fixing.
- **MV 126 s** – model with screw fixing and a protecting insect screen.
- **MV 126 M** – model with fixing lugs.
- **MV 126 Ms** – model with fixing lugs and a protecting insect screen.



#### MV 126 VD – model with four-element connecting flange (VD)



- Screw fixing.
- Equipped with four-element connecting flange with adjustable diameter for connection to Ø 100-150 mm round air duct.
- **MV 126 VDs** – model with screw fixing and a protecting insect screen.
- **MV 126 VDM** – model with fixing lugs.
- **MV 126 VDMs** – model with fixing lugs and a protecting insect screen.



### Overall dimensions

| Model     | Dimensions [mm] |     |      |    |     |     |         | Air pass, [m <sup>2</sup> ] | Fig. no. |
|-----------|-----------------|-----|------|----|-----|-----|---------|-----------------------------|----------|
|           | H               | B   | L    | L1 | H1  | B1  | D       |                             |          |
| MV 126    | 251             | 182 | 19.5 | –  | 226 | 157 | –       | 0.018                       | 1, 2     |
| MV 126 VD | 251             | 182 | 19.5 | 45 | 226 | 157 | 100-150 | 0.018                       | 1, 3     |

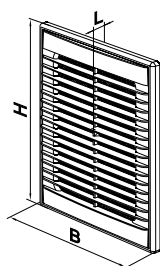


Fig. 1

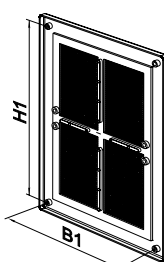


Fig. 2

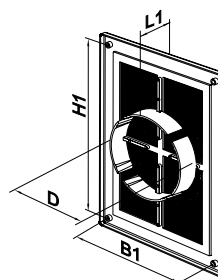
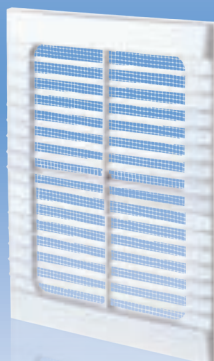


Fig. 3

**MV 126-1**  
Series



**Application**

- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- Used for correct air flow distribution in premises.
- Wall or ceiling mounting.

**Design**

- Made of quality and durable plastic.
- Single-element structure. Modification may include a protecting insect screen.
- Fixing with glue or silicon.

**Colour modifications**



**Modifications**

**MV 126-1 – single-element structure**

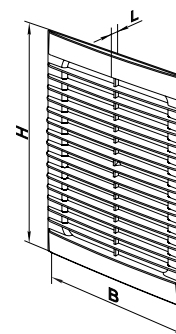


- Wall or ceiling mounting.
- Fixing with glue or silicon.
- **MV 126-1 s** – model with a protecting insect screen.



**Overall dimensions**

| Model    | Dimensions [mm] |     |      | Air pass, [m <sup>2</sup> ] |
|----------|-----------------|-----|------|-----------------------------|
|          | H               | B   | L    |                             |
| MV 126-1 | 238             | 170 | 13.5 | 0.018                       |



## MV 150 V Series



### Modifications

#### Application

- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- Used for correct air flow distribution in premises.
- Wall or ceiling mounting.

#### Design

- Made of quality and durable plastic.
- Multi-element structure. The internal part is fixed to the base with latches for easy cleaning without dismantling.
- Screw fixing.
- The grille has slanted vanes.

#### Colour modifications



### MV 150 V – model with a round flange (V)



- Fitted with a round connecting flange for mounting with Ø 150 mm air duct.
- Suitable for direct mounting with VENTS VKO 150 fan.
- **MV 150 Vs** – model with a round flange and a protecting insect screen.



### MV 150 VR – model with a round flange and air flow regulator (VR)



- Fitted with a round connecting flange for mounting with Ø 150 mm air duct.
- Equipped with a movable flap for air flow regulation.
- Air pass is regulated with a tilt wand or pull cords.
- Suitable for direct mounting with VENTS VKO 150 fan.
- **MV 150 VRs** – model with a round flange, air flow regulator and a protecting insect screen.



### Overall dimensions

| Model     | Dimensions [mm] |     |    |    |     | Air pass, [m <sup>2</sup> ] | Fig. no. |
|-----------|-----------------|-----|----|----|-----|-----------------------------|----------|
|           | □B              | □H  | L  | L1 | D   |                             |          |
| MV 150 V  | 186             | 142 | 15 | 50 | 150 | 0.0083                      | 1, 2     |
| MV 150 VR | 186             | 142 | 15 | 50 | 150 | 0.0044                      | 1, 2     |

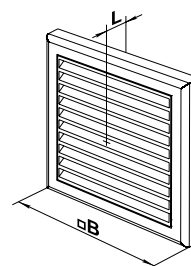


Fig. 1

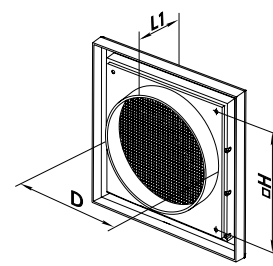


Fig. 2

**MV 151 V**  
Series



**Modifications**

**Application**

- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- Used for correct air flow distribution in premises.
- Wall or ceiling mounting.

**Design**

- Made of quality and durable plastic.
- Multi-element structure. The internal part is fixed to the base with latches for easy cleaning without dismantling.
- Screw fixing.
- The grille has straight vanes to increase air pass.

**Colour modifications**



**MV 151 V – model with a round flange (V)**



- Fitted with a round connecting flange for mounting with  $\varnothing$  150 mm air duct.
- Suitable for direct mounting with VENTS VKO 150 fan.
- **MV 151 Vs** – model with a round flange and a protecting insect screen.



**MV 151 VR – model with a round flange and air flow regulator (VR)**



- Fitted with a round connecting flange for mounting with  $\varnothing$  150 mm air duct.
- Equipped with a movable flap for air flow regulation.
- Air pass is regulated with a tilt wand or pull cords.
- Suitable for direct mounting with VENTS VKO 150 fan.
- **MV 151 VRs** – model with a round flange, air flow regulator and a protecting insect screen.



**Overall dimensions**

| Model     | Dimensions [mm] |     |    |    |     | Air pass, [m <sup>2</sup> ] | Fig. no. |
|-----------|-----------------|-----|----|----|-----|-----------------------------|----------|
|           | □B              | □H  | L  | L1 | D   |                             |          |
| MV 151 V  | 186             | 142 | 19 | 54 | 150 | 0.0123                      | 1, 2     |
| MV 151 VR | 186             | 142 | 19 | 54 | 150 | 0.0066                      | 1, 2     |

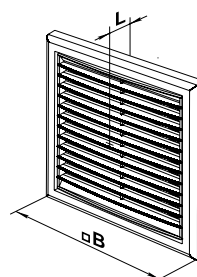


Fig. 1

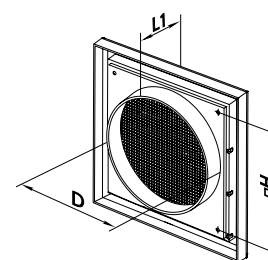


Fig. 2

## MV 150 Series



### Application

- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- Used for correct air flow distribution in premises.
- Wall or ceiling mounting.

### Design

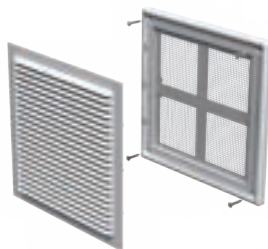
- Made of quality and durable plastic.
- Multi-element structure. The internal part is fixed to the base with latches for easy cleaning without dismantling.
- Fixing with screws or lugs depending on grille modification.

### Colour modifications

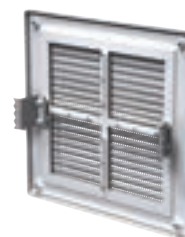


### Modifications

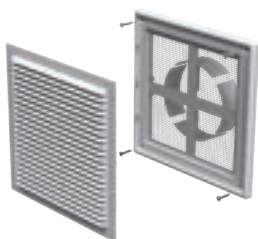
#### MV 150 – basic modification



- Screw fixing.
- **MV 150 s** – model with a protecting insect screen and screw fixing.
- **MV 150 M** – model with fixing lugs.
- **MV 150 Ms** – model with fixing lugs and a protecting insect screen.



#### MV 150 VD – model with four-element connecting flange



- Screw fixing.
- Equipped with four-element connecting flange with adjustable diameter for connection to  $\varnothing$  100-150 mm round air duct.
- **MV 150 VDs** – model with four-element connecting flange, screw fixing and a protecting insect screen.
- **MV 150 VDM** – model with four-element connecting flange and fixing lugs.
- **MV 150 VDMs** – model with four-element connecting flange, fixing lugs and a protecting insect screen.



### Overall dimensions

| Model     | Dimensions [mm] |     |    |    |         | Air pass, [m <sup>2</sup> ] | Fig. no |
|-----------|-----------------|-----|----|----|---------|-----------------------------|---------|
|           | B               | H   | L  | L1 | D       |                             |         |
| MV 150    | 204             | 179 | 16 | –  | –       | 0.0092                      | 1, 2    |
| MV 150 VD | 204             | 179 | 16 | 41 | 100-150 | 0.0092                      | 1, 3    |

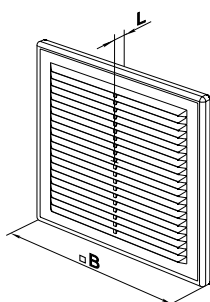


Fig. 1

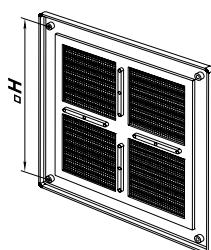


Fig. 2

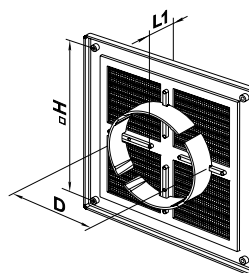


Fig. 3



**MV 150-1  
Series**



**Application**

- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- Used for correct air flow distribution in premises.
- Wall or ceiling mounting.

**Design**

- Made of quality and durable plastic.
- Multi-element structure. The internal part is fixed to the base with latches for easy cleaning without dismantling.
- Fixing with glue or silicon.

**Colour modifications**



**Modifications**

**MV 150-1 – single-element model**

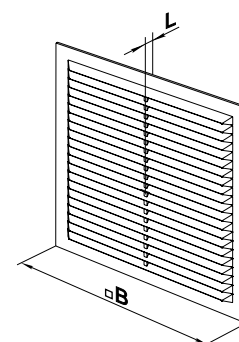


- Wall or ceiling mounting.
- Fixing with glue or silicon.
- **MV 150-1 s** – model with a protecting insect screen.



**Overall dimensions**

| Model    | Dimensions [mm] |   | Air pass, [m <sup>2</sup> ] |
|----------|-----------------|---|-----------------------------|
|          | B               | L |                             |
| MV 150-1 | 192             | 8 | 0.0092                      |



## MV 160 Series



### Application

- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- Used for correct air flow distribution in premises.
- Wall or ceiling mounting.

### Design

- Made of quality and durable plastic.
- Multi-element structure. The internal part is fixed to the base with latches for easy cleaning without dismantling.
- Fixing with screws or lugs depending on grille modification.

### Colour modifications



### Modifications

#### MV 160 – basic modification



- Screw fixing.
- **MV 160 s** – model with a protecting insect screen and screw fixing.
- **MV 160 M** – model with fixing lugs.
- **MV 160 Ms** – model with fixing lugs and a protecting insect screen.



#### MV 160 VD – model with four-element connecting flange (VD)



- Screw fixing.
- Equipped with four-element connecting flange with adjustable diameter for connection to Ø 100-150 mm round air duct.
- **MV 160 VDs** – model with four-element connecting flange and a protecting insect screen.
- **MV 160 VDM** – model with four-element connecting flange and fixing lugs.
- **MV 160 VDMs** – model with four-element connecting flange, fixing lugs and a protecting insect screen.



### Overall dimensions

| Model     | Dimensions [mm] |     |    |    |     |     |         | Air pass, [m <sup>2</sup> ] | Fig. no. |
|-----------|-----------------|-----|----|----|-----|-----|---------|-----------------------------|----------|
|           | H               | B   | L  | L1 | H1  | B1  | D       |                             |          |
| MV 160    | 299             | 221 | 15 | –  | 283 | 205 | –       | 0.026                       | 1, 2     |
| MV 160 VD | 299             | 221 | 15 | 42 | 283 | 205 | 100-150 | 0.026                       | 1, 3     |

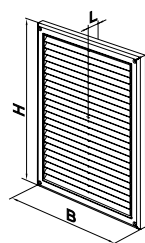


Fig. 1

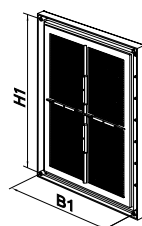


Fig. 2

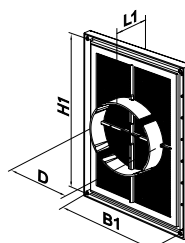


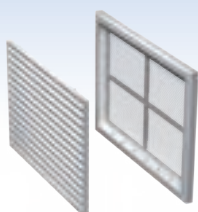
Fig. 3

## MV 170 Series



### Modifications

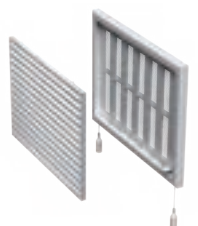
#### MV 170 – basic modification



- Wall or ceiling mounting.
- **MV 170 s** – model with a protecting insect screen.



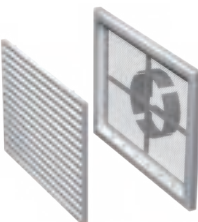
#### MV 170 R – model with an air flow regulator (R)



- Equipped with a movable flap for air flow regulation.
- Air pass is regulated with a tilt wand or pull cords.
- **MV 170 Rs** – model with air flow regulator and a protecting insect screen.



#### MV 170 VD – model with four-element connecting flange (VD)



- Equipped with four-element connecting flange with adjustable diameter for connection to Ø 100-150 mm round air duct.
- **MV 170 VDs** – model with four-element connecting flange and a protecting insect screen.



#### MV 170 VDR – model with four-element connecting flange and air flow regulator



- Equipped with four-element connecting flange with adjustable diameter for connection to Ø 100-150 mm round air duct.
- Equipped with a movable flap for air flow regulation.
- Air pass is regulated with a tilt wand or pull cords.
- **MV 170 VDRs** – model with four-element connecting flange, air flow regulator and a protecting insect screen.



### Overall dimensions

| Model     | Dimensions [mm] |     |    |    |     |     |         | Air pass, [m <sup>2</sup> ] | Fig. no. |
|-----------|-----------------|-----|----|----|-----|-----|---------|-----------------------------|----------|
|           | H               | B   | L  | L1 | H1  | B1  | D       |                             |          |
| MV 170    | 221             | 299 | 15 | –  | 205 | 283 | –       | 0.0237                      | 1        |
| MV 170VD  | 221             | 299 | 15 | 42 | 205 | 283 | 100-150 | 0.018                       | 1, 2     |
| MV 170 R  | 221             | 299 | 15 | –  | 205 | 283 | –       | 0.012                       | 1        |
| MV 170VDR | 221             | 299 | 15 | 42 | 205 | 283 | 100-150 | 0.088                       | 1, 2     |

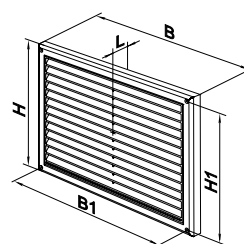


Fig. 1

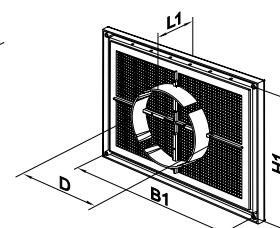


Fig. 2

## MV 250 Series



### Application

- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- Used for correct air flow distribution in premises.
- Wall or ceiling mounting.

### Design

- Made of quality and durable plastic.
- Multi-element structure. The internal part is fixed to the base with latches for easy cleaning without dismantling.
- Fixing with screws or lugs depending on grille modification.

### Colour modifications



### Modifications

#### MV 250 – basic modification



- Screw fixing.
- **MV 250 s** – model with a protecting insect screen and screw fixing.
- **MV 250 M** – model with fixing lugs.
- **MV 250 Ms** – model with fixing lugs and a protecting insect screen.



#### MV 250 R – model with an air flow regulator (R)



- Equipped with a movable flap for air flow regulation.
- Air pass is regulated with a tilt wand or pull cords.
- **MV 250 Rs** – model with air flow regulator and a protecting insect screen.



#### MV 250/150 V – model with a round Ø 150 mm flange



- Wall or ceiling mounting.
- Fitted with a round connecting flange for mounting with Ø 150 mm air duct.
- Suitable for direct mounting with VENTS VKO 150 fan.
- Screw fixing.
- **MV 250/150 Vs** – model with a round flange and a protecting insect screen.



#### MV 250/200 V – model with a round Ø 200 mm flange



- Fitted with a round connecting flange for mounting with Ø 200 mm air duct.
- Screw fixing.
- **MV 250/200 Vs** – model with a round flange and a protecting insect screen.





### MV 250/150 VR – model with a round Ø 150 mm flange and air flow regulator (VR)



- Fitted with a round connecting flange for mounting with Ø 150 mm air duct.
- Equipped with a movable flap for air flow regulation.
- Air pass is regulated with a tilt wand or pull cords.
- Suitable for direct mounting with VENTS VKO 150 fan.
- **MV 250/150 VRs** – model with a round flange, air flow regulator and a protecting insect screen.



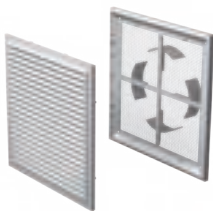
### MV 250/200 VR – model with a round Ø 200 mm flange and air flow regulator (VR)



- Fitted with a round connecting flange for mounting with Ø 200 mm air duct.
- Equipped with a movable flap for air flow regulation.
- Air pass is regulated with a tilt wand or pull cords.
- Screw fixing.
- **MV 250/200 VRs** – model with a round flange, air flow regulator and a protecting insect screen.



### MV 250 VD – model with four-element connecting flange



- Equipped with four-element connecting flange with adjustable diameter for connection to Ø 100-150 mm round air duct.
- Screw fixing.
- MV 250 VDs – model with four-element flange and a protecting insect screen.



### MV 250 VDR – model with four-element flange and air flow regulator (VDR)



- Equipped with four-element connecting flange with adjustable diameter for connection to Ø 100-150 mm round air duct.
- Equipped with a movable flap for air flow regulation.
- Air pass is regulated with a tilt wand or pull cords.
- Screw fixing.
- MV 250 VDRs – model with four-element flange, air flow regulator and a protecting insect screen.



## Overall dimensions

| Model         | Dimensions [mm] |     |    |    |         | Air pass, [m <sup>2</sup> ] | Fig. no. |
|---------------|-----------------|-----|----|----|---------|-----------------------------|----------|
|               | □H              | □B  | L  | L1 | D       |                             |          |
| MV 250        | 250             | 214 | 14 | –  | –       | 0.02                        | 1, 2     |
| MV 250 R      | 250             | 214 | 14 | –  | –       | 0.01                        | 1, 2     |
| MV 250/150 V  | 250             | 214 | 14 | 44 | 150     | 0.02                        | 1, 3     |
| MV 250/200 V  | 250             | 214 | 14 | 44 | 200     | 0.02                        | 1, 3     |
| MV 250/150 VR | 250             | 214 | 14 | 44 | 150     | 0.01                        | 1, 3     |
| MV 250/200 VR | 250             | 214 | 14 | 44 | 200     | 0.01                        | 1, 3     |
| MV 250 VD     | 250             | 214 | 14 | 42 | 100-150 | 0.02                        | 1, 4     |
| MV 250 VDR    | 250             | 214 | 14 | 42 | 100-150 | 0.01                        | 1, 4     |

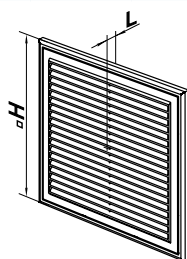


Fig. 1

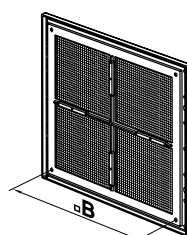


Fig. 2

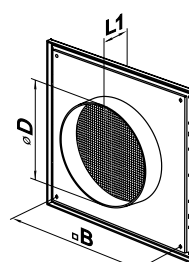


Fig. 3

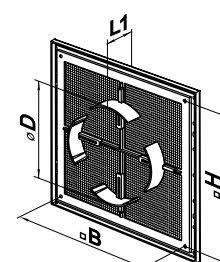


Fig. 4



# SUPPLY AND EXHAUST PLASTIC GRILLES

## MV 250-1 Series



### Application

- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- Used for correct air flow distribution in premises.
- Wall or ceiling mounting.

### Design

- Made of quality and durable plastic.
- Multi-element structure. The internal part is fixed to the base with latches for easy cleaning without dismantling.
- Fixing with glue or silicon.
- Modifications with a protecting insect screen are available.

### Colour modifications



### Modifications

#### MV 250-1 – basic modification

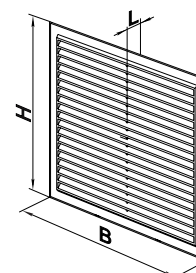


- Wall or ceiling mounting.
- **MV 250-1 s** – model with a protecting insect screen.
- Fixing with glue or silicon.

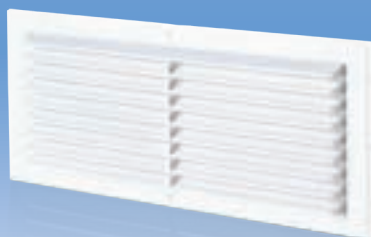


### Overall dimensions

| Model    | Dimensions [mm] |     |   | Air pass, [m <sup>2</sup> ] |
|----------|-----------------|-----|---|-----------------------------|
|          | H               | B   | L |                             |
| MV 250-1 | 230             | 230 | 8 | 0.02                        |



## MV 80-1 Series



### Application

- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- Used for correct air flow distribution in premises.
- Wall or ceiling mounting.

### Design

- Made of quality and durable plastic.
- Multi-element structure. The internal part is fixed to the base with latches for easy cleaning without dismantling.
- Fixing with glue or silicon.
- Modifications with a protecting insect screen are available.

### Colour modifications



### Modifications

#### MV 80-1 – basic modification

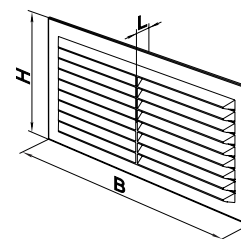


- Wall or ceiling mounting.
- **MV 80-1 s** – model with a protecting insect screen.
- Fixing with glue or silicon.



### Overall dimensions

| Model   | Dimensions [mm] |     |   | Air pass, [m <sup>2</sup> ] |
|---------|-----------------|-----|---|-----------------------------|
|         | H               | B   | L |                             |
| MV 80-1 | 80              | 170 | 7 | 0.0039                      |



## MV Series single-element



### Application

- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- Used for correct air flow distribution in premises.
- Wall or ceiling mounting.

### Design

- Made of quality and durable plastic.
- Single-element structure.
- Various fixing modifications depending on the model type: screws, lugs or glue (silicon).
- Grille modifications with an insect screen.

### Colour modifications

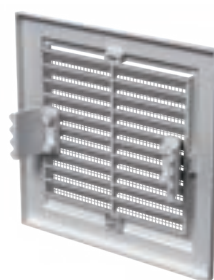
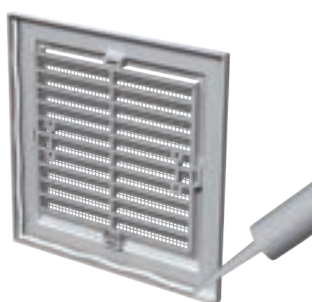


### Fixation options

Glue (silicone): **MV**

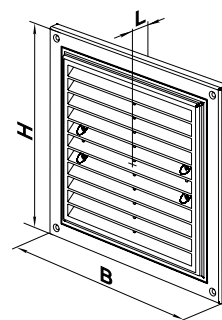
Screws: **MV**

Fixing lugs: **MV...M**



### Overall dimensions

| Model      | Dimensions [mm] |     |    | Air pass, [m <sup>2</sup> ] |
|------------|-----------------|-----|----|-----------------------------|
|            | H               | B   | L  |                             |
| MV 150x150 | 150             | 150 | 11 | 0.0058                      |
| MV 175x175 | 175             | 175 | 11 | 0.0089                      |
| MV 205x205 | 205             | 205 | 11 | 0.0135                      |
| MV 215x175 | 215             | 175 | 11 | 0.0115                      |
| MV 250x180 | 250             | 180 | 11 | 0.0141                      |
| MV 250x250 | 250             | 250 | 11 | 0.0213                      |
| MV 295x160 | 295             | 160 | 11 | 0.0147                      |
| MV 300x205 | 300             | 205 | 11 | 0.0207                      |
| MV 300x300 | 300             | 300 | 11 | 0.0302                      |
| MV 350x350 | 350             | 350 | 11 | 0.0432                      |



**MV 50 bV**  
Series



**MV 51 bV**  
Series



■ **Application**

- Suitable for installation in furniture, bathroom and kitchen door leaves, etc.
- Used to arrange correct air circulation in premises.

■ **Design**

- Made of quality and durable plastic.
- Fixed with mounting ribs or glue.

■ **Colour modifications**



■ **Modifications**

**MV 50 bV – round model with a flange (bV)**



- Round model with  $\varnothing$  47 mm flange.
- Minimum door leaf thickness is 28 mm
- **MV 50 bVs** – model with a protecting insect screen.



**MV 51 bV – round model with a flange (bV)**



- Round model with  $\varnothing$  47 mm flange.
- Minimum door leaf thickness is 28 mm
- **MV 51 bVs** – model with a protecting insect screen.



■ **Overall dimensions**

| Model    | Dimensions [mm] |    |    |     |      | Air pass, [m <sup>2</sup> ] | Fig.no. |
|----------|-----------------|----|----|-----|------|-----------------------------|---------|
|          | D               | D1 | D2 | L   | L1   |                             |         |
| MV 50 bV | 59              | 47 | –  | 3.5 | 16.5 | 0.00078                     | 1       |
| MV 51 bV | 59              | 47 | –  | 3   | 16   | 0.00078                     | 2       |

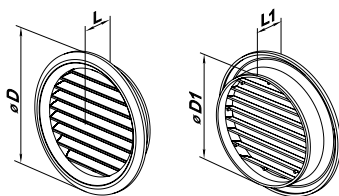


Fig. 1

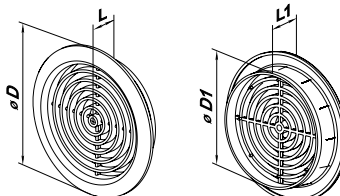


Fig. 2

## MV 52 bV Series



### Application

- Suitable for installation in furniture, bathroom and kitchen door leaves, etc.
- Used to arrange correct air circulation in premises.

### Design

- Made of quality and durable plastic.
- Fixed with mounting ribs or glue.

### Colour modifications



### Modifications

#### MV 52 bV – round model with a flange (bV)

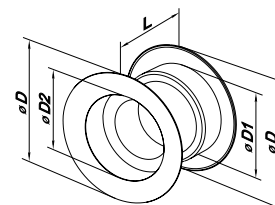


- Round model with  $\varnothing 41$  mm flange.
- Minimum door leaf thickness is 37 mm.
- The complete set includes two items.
- The grilles are connected with slots.



### Overall dimensions

| Model    | Dimensions [mm] |    |    |      |    | Air pass, [m <sup>2</sup> ] |
|----------|-----------------|----|----|------|----|-----------------------------|
|          | D               | D1 | D2 | L    | L1 |                             |
| MV 52 bV | 56              | 40 | 26 | 41.5 | –  | 0.00053                     |





**MV 80 bV**  
Series



**MV 81 bV**  
Series



**Application**

- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- Wall or ceiling mounting.
- Suitable for installation in furniture, bathroom and kitchen door leaves, etc.

**Design**

- Made of quality and durable plastic.
- Fixed with mounting ribs or glue.

**Colour modifications**



**Modifications**

**MV 80 bV – model with a round flange (bV)**



- Equipped with a round flange for connection with Ø 80 mm air duct.
- MV 80 bVs – model with a protecting insect screen.



**MV 81 bV – round model with a flange**



- Equipped with a round flange for connection with Ø 80 mm air duct.
- MV 81 bVs – model with a protecting insect screen.



**Overall dimensions**

| Model    | Dimensions [mm] |    |   |    | Air pass, [m <sup>2</sup> ] | Fig. no. |
|----------|-----------------|----|---|----|-----------------------------|----------|
|          | D               | D1 | L | L1 |                             |          |
| MV 80 bV | 100             | 80 | 5 | 19 | 0.0035                      | 1        |
| MV 81 bV | 100             | 80 | 5 | 19 | 0.0035                      | 2        |

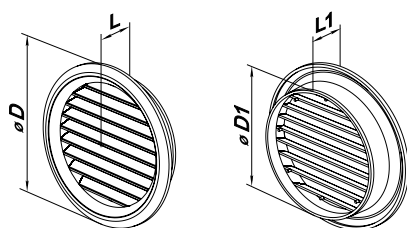


Fig. 1

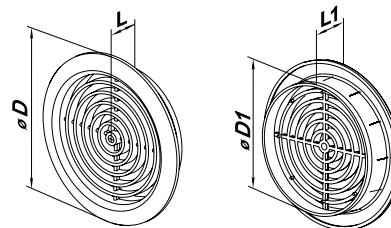


Fig. 2

## MV 100 bV MV 125 bV MV 150 bV Series



### Application

- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- Used for correct air flow distribution in premises.
- Wall or ceiling mounting.

### Design

- Made of quality and durable plastic.
- Fixing with screws or glue.
- Modifications with air flow regulator and a protecting insect screen are available.

### Colour modifications



### Modifications

#### MV 100 bV, MV 125 bV, MV 150 bV – round grilles with a flange (bV)



- Fitted with a round connecting flange for mounting to  $\varnothing$  100 mm (MV 100 bV),  $\varnothing$  125 mm (MV 125 bV) or  $\varnothing$  150 mm (MV 150 bV) air ducts.
- MV 100 bVs, MV 125 bVs, MV 150 bVs – models with a protecting insect screen.



#### MV 100 bVR, MV 125 bVR, MV 150 bVR – models with a round flange and air flow regulator (bVR)



- Fitted with a round connecting flange for mounting to  $\varnothing$  100 mm (MV 100 bVR),  $\varnothing$  125 mm (MV 125 bVR) or  $\varnothing$  150 mm (MV 150 bVR) air ducts.
- Equipped with a movable flap for air flow regulation with a slider.



#### MV 125 bVRD, MV 150 bVRD – models with air flow regulator and four-element connecting flange (bVRD)



- Equipped with four-element connecting flange with adjustable diameter for connection to  $\varnothing$  100-125 mm (MV 125 bVRD) and  $\varnothing$  100-150 mm (MV 150 bVRD) round air ducts.
- Equipped with a movable flap for air flow regulation with a slider.



### Overall dimensions

| Model       | Dimensions [mm] |     |         |     | Air pass, [m <sup>2</sup> ] | Fig. no. |
|-------------|-----------------|-----|---------|-----|-----------------------------|----------|
|             | L               | B   | D1      | D   |                             |          |
| MV 100 bV   | 29              | 118 | 100     | 128 | 0.004                       | 1, 2     |
| MV 100 bVR  | 29              | 118 | 100     | 128 | 0.005                       | 1, 3     |
| MV 125 bV   | 29              | 148 | 125     | 160 | 0.0065                      | 1, 2     |
| MV 125 bVR  | 29              | 148 | 125     | 160 | 0.005                       | 1, 3     |
| MV 125 bVRD | 45              | 148 | 100-125 | 160 | 0.005                       | 1, 4     |
| MV 150 bV   | 29              | 176 | 150     | 200 | 0.01                        | 1, 2     |
| MV 150 bVR  | 29              | 176 | 150     | 200 | 0.005                       | 1, 3     |
| MV 150 bVRD | 45              | 176 | 100-150 | 200 | 0.005                       | 1, 4     |

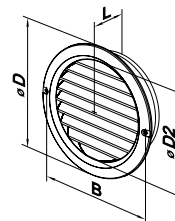


Fig. 1

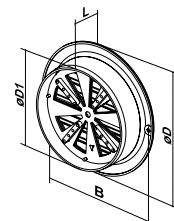


Fig. 3

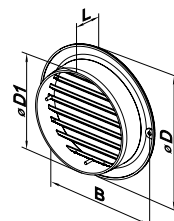


Fig. 2

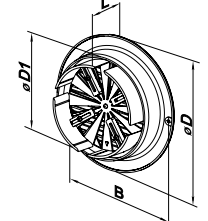


Fig. 4

Outer ventilation hood  
**MVVM 162**  
 Mounting from inside

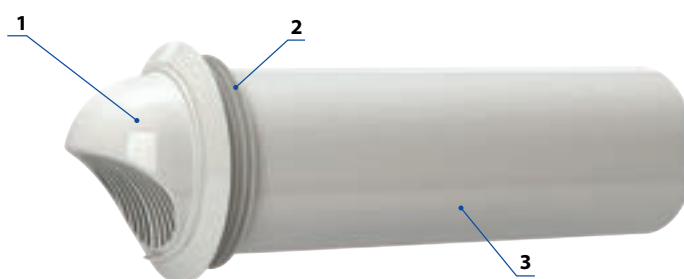


■ **Application**

- The outer hood is designed to prevent ingress of water and large objects into the ventilation equipment from outside.
- Pre-installed with a hood the air duct is mounted in a core hole drilled in the wall. The installation is done from inside.
- Special design allows installation of the hood by the operator on a wall of high-rise buildings and enables airtight sealing of the air duct in the core hole.

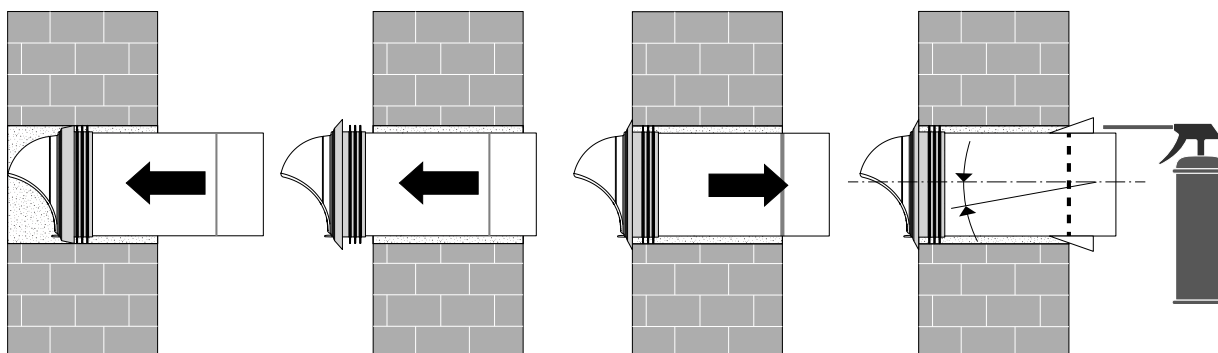
■ **Design**

- Made of high-quality incombustible ultraviolet resistant plastic.
- Fixation at the end of the air duct with latches.
- The air duct with diameter of 160 mm is made of high-quality PVC plastic.
- The ventilation hood [1] is equipped with a silicone sealing ring [2] that provides high sealing integrity of the air duct [3] in the core hole in the wall.

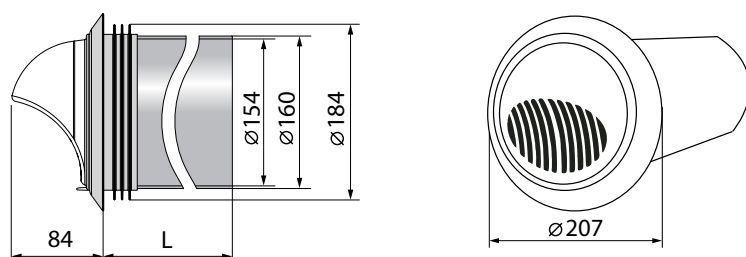


■ **Mounting**

- Drill a core hole with a diameter of 180 mm in the wall.
- Insert the hood into the wall core hole and push it until the sealing ring appears on the outer side.
- Pull the hood in the opposite direction so the silicone sealing ring provides tight seal between the hood and the wall.
- The air duct must be fixed in the wall core hole using mounting foam.



■ **Overall dimensions**



| Model       | L   | Air pass, [m <sup>2</sup> ] |
|-------------|-----|-----------------------------|
|             | mm  |                             |
| MVVM 162    | -   |                             |
| MVVM 162 03 | 300 |                             |
| MVVM 162 05 | 500 | 0.0078                      |
| MVVM 162 07 | 700 |                             |
| MVVM 162 08 | 800 |                             |

## MV 102 MV 122 MV 152 Series



### Application

- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- External wall mounting.

### Design

- Made of quality and durable plastic.
- Two-element structure for easy maintenance.
- Screw fixing.
- Equipped with a protecting grille against birds and rodents.

### Colour modifications



### Modifications

#### MV 102, MV 122 – basic modifications



- Supply and exhaust hoods for wall mounting.
- Screw fixing.



#### MV 102 V, MV 122 V, MV 152 V – models with a round flange



- Supply and exhaust hoods for wall mounting.
- Equipped with a round connecting flange for mounting to Ø 100 mm (MV 102 V), Ø 125 mm (MV 122 V), Ø 150 mm (MV 125 V) air ducts.



#### MV 102 VU – model with a multi-section flange (VU)



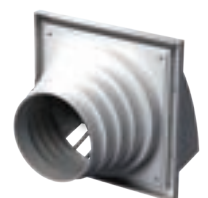
- Supply and exhaust hood for wall mounting.
- Equipped with a connecting flange for mounting to Ø 100, 125 or 55x110 mm air ducts.



#### MV 122 VN – model with a flange with various diameters



- Supply and exhaust hood for wall mounting.
- Equipped with a round connecting flange with various diameters for mounting to Ø 100/110/120/130/150 mm air ducts.



**MV 102 K and MV 122 K – models with a backdraft damper**

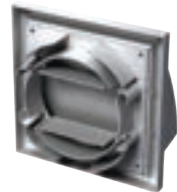

- Exhaust hoods for wall mounting.
- Fitted with a gravity backdraft damper for back flow prevention.


**MV 102 VK, MV 122 VK, MV 152 VK – models with a round flange and a backdraft damper**

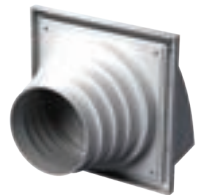

- Exhaust hoods for wall mounting.
- Fitted with a gravity backdraft damper for back flow prevention.
- Equipped with a round connecting flange for mounting with  $\varnothing$  100 mm (MV 102 VK),  $\varnothing$  125 mm (MV 122 VK),  $\varnothing$  150 mm (MV 152 VK) air ducts.


**MV 102 VUK – model with a multi-section flange (VU)**


- Exhaust hood for wall mounting.
- Fitted with a gravity backdraft damper for back flow prevention.
- Equipped with a multi-section flange for mounting with  $\varnothing$  100, 125 mm or 55x110 mm air duct.


**MV 122 VNK – model with a flange with various diameters (VN)**


- Exhaust hood for wall mounting.
- Equipped with a round connecting flange with various diameters for mounting with  $\varnothing$  100/110/120/130/150 mm air ducts.
- Fitted with a gravity backdraft damper for back flow prevention.


**Overall dimensions**

| Model                  | Dimensions [mm] |     |    |     |     |                         | Air pass, [m <sup>2</sup> ] | Fig. no. |
|------------------------|-----------------|-----|----|-----|-----|-------------------------|-----------------------------|----------|
|                        | □B              | □H  | L  | L1  | L2  | Flange (D)              |                             |          |
| MV 102 / MV 102 K      | 154             | 110 | 15 | –   | 87  | –                       | 0.008                       | 1        |
| MV 102 V / MV 102 VK   | 154             | 110 | 15 | 45  | 87  | 100                     | 0.008                       | 1, 2     |
| MV 102 VU / MV 102 VUK | 154             | 110 | 15 | 39  | 87  | 100, 125, 55*110        | 0.008                       | 1, 3     |
| MV 122 / MV 122 K      | 186             | 142 | 15 | –   | 101 | –                       | 0.012                       | 1        |
| MV 122 V / MV 122 VK   | 186             | 142 | 15 | 45  | 101 | 125                     | 0.012                       | 1, 2     |
| MV 122 VN / MV 122 VNK | 186             | 142 | 15 | 115 | 101 | 100, 110, 120, 130, 150 | 0.012                       | 1.4      |
| MV 152 V / MV 152 VK   | 186             | 142 | 15 | 50  | 101 | 150                     | 0.012                       | 1.2      |

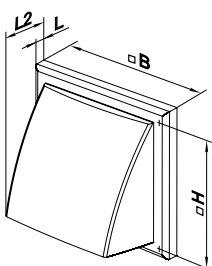


Fig. 1

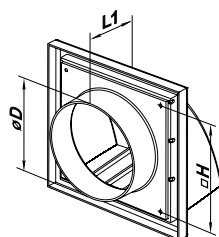


Fig. 2

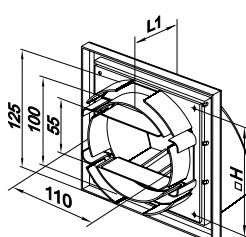


Fig. 3

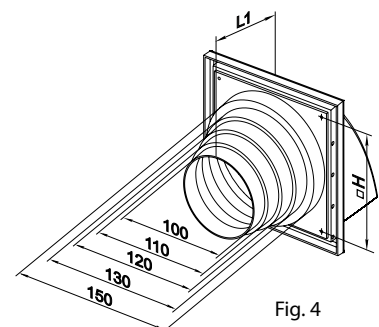


Fig. 4



## MV 100 J Series



### Application

- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- External wall mounting.

### Design

- Made of quality and durable plastic.
- Multi-element structure.
- Fitted with louvre shutters for back flow prevention.
- Screw fixing.

### Colour modifications



### Modifications

#### MV 100 J – basic model with gravity louvre shutters (J)



- Exhaust grille for wall mounting.
- Fitted with louvre shutters for back flow prevention.



#### MV 100 VJ – model with a round flange and gravity louvre shutters (VJ)



- Exhaust grille for wall mounting.
- Fitted with louvre shutters.
- Fitted with a round connecting flange for connection to  $\varnothing$  100 mm air duct.



#### MV 100 VUJ – model with a multi-section flange and gravity louvre shutters (VUJ)



- Exhaust grille for wall mounting.
- Fitted with louvre shutters.
- Equipped with a connecting multi-section flange for connection to  $\varnothing$  100, 125 mm or 55x110 mm air duct.



### Overall dimensions

| Model      | Dimensions [mm] |     |    |    |                  | Air pass, [m <sup>2</sup> ] | Fig. no. |
|------------|-----------------|-----|----|----|------------------|-----------------------------|----------|
|            | □B              | □H  | L  | L1 | Flange (D)       |                             |          |
| MV 100 J   | 154             | 110 | 15 | –  | –                | 0.0096                      | 1, 2     |
| MV 100 VJ  | 154             | 110 | 15 | 45 | 100              | 0.0075                      | 1, 3     |
| MV 100 VUJ | 154             | 110 | 15 | 39 | 100, 125, 55x110 | 0.0096                      | 1, 4     |

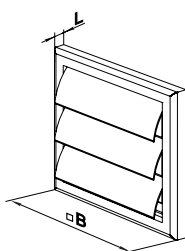


Fig. 1

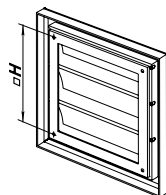


Fig. 2

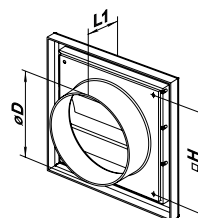


Fig. 3

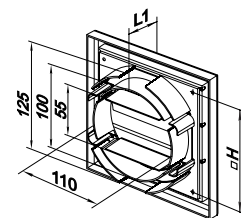


Fig. 4

**MV 120 J  
MV 150 VJ  
Series**



**Application**

- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- External wall mounting.

**Design**

- Made of quality and durable plastic.
- Multi-element structure.
- Fitted with louvre shutters for back flow prevention.
- Screw fixing.

**Colour modifications**



**Modifications**

**MV 120 J – basic model with gravity louvre shutters (J)**



- Exhaust grille for wall mounting.
- Fitted with louvre shutters for back flow prevention.



**MV 120 VJ, MV 150 VJ – models with a round flange and louvre shutters (VJ)**



- Exhaust grille for wall mounting.
- Fitted with louvre shutters.
- Fitted with a round connecting flange for mounting with  $\varnothing$  125 mm air duct (MV 120 J) and 150 mm air duct (MV 150 VJ).



**MV 120 VNJ – model with a flange with various diameters and louvre shutters (VNJ)**



- Exhaust grille for wall mounting.
- Fitted with louvre shutters.
- Fitted with a round connecting flange for mounting with  $\varnothing$  100/110/120/130/150 mm air duct.



**Overall dimensions**

| Model      | Dimensions [mm] |     |    |     |                         | Air pass, [m <sup>2</sup> ] | Fig. no. |
|------------|-----------------|-----|----|-----|-------------------------|-----------------------------|----------|
|            | □B              | □H  | L  | L1  | Flange (D)              |                             |          |
| MV 120 J   | 186             | 142 | 15 | –   | –                       | 0.016                       | 1, 2     |
| MV 120 VJ  | 186             | 142 | 15 | 45  | 125                     | 0.0113                      | 1, 3     |
| MV 120 VNJ | 186             | 142 | 15 | 115 | 100, 110, 120, 130, 150 | 0.012                       | 1, 4     |
| MV 150 VJ  | 186             | 142 | 15 | 50  | 150                     | 0.0113                      | 1.3      |

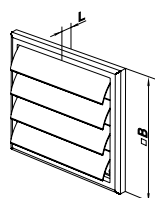


Fig. 1

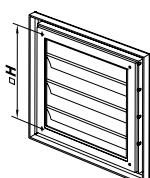


Fig. 2

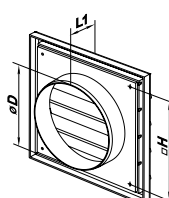


Fig. 3

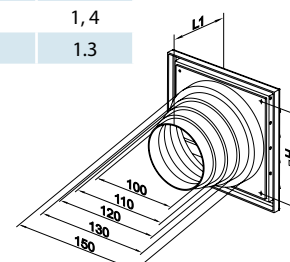


Fig. 4

## MV 160 J Series



### ■ Modifications

### ■ Application

- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- External wall mounting.

### ■ Design

- Made of quality and durable plastic.
- Multi-element structure.
- Fitted with louvre shutters for back flow prevention.
- Screw fixing.

### ■ Colour modifications



## MV 160 J – basic model with gravity louvre shutters (J)



- Exhaust grille for wall mounting.
- Fitted with louvre shutters for back flow prevention.



## MV 160 VJD – model with four-element flange and louvre shutters (VJD)



- Exhaust grille for wall mounting.
- Fitted with louvre shutters.
- Equipped with four-element connecting duct flange with adjustable diameter for connection to  $\varnothing$  100-150 mm round air duct.



### ■ Overall dimensions

| Model      | Overall Dimensions [mm] |     |     |     |         |    |    | Air pass, [m <sup>2</sup> ] | Fig. no. |
|------------|-------------------------|-----|-----|-----|---------|----|----|-----------------------------|----------|
|            | B                       | H   | B1  | H1  | D       | L  | L1 |                             |          |
| MV 160 J   | 221                     | 299 | 205 | 283 | –       | 15 | –  | 0.034                       | 1, 2     |
| MV 160 VJD | 221                     | 299 | 205 | 283 | 100-150 | 15 | 42 | 0.034                       | 1, 3     |

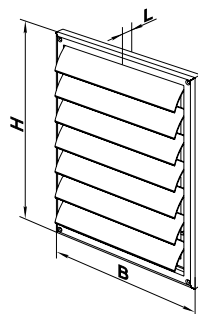


Fig. 1

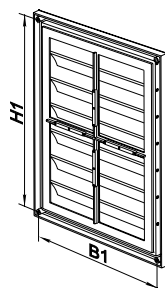


Fig. 2

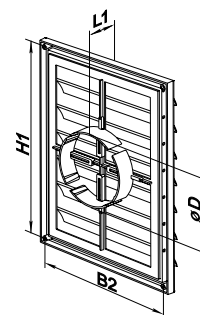


Fig. 3

**MV 250 J  
Series**



**Application**

- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- External wall mounting.

**Design**

- Made of quality and durable plastic.
- Multi-element structure.
- Fitted with louvre shutters for back flow prevention.
- Screw fixing.

**Colour modifications**



**Modifications**

**MV 250 J – basic model with gravity louvre shutters (J)**



- Exhaust grille for wall mounting.
- Fitted with louvre shutters for back flow prevention.



**MV 250/150 VJ, MV 250/200 VJ – models with a round flange and louvre shutters**



- Fitted with a round connecting flange for mounting with  $\varnothing$  150 mm (MV 250/150 VJ) or  $\varnothing$  200 mm (MV 250/200 VJ) air ducts.
- Fitted with louvre shutters for back flow prevention.



**MV 250 VJD – model with four-element flange and louvre shutters**



- Equipped with four-element connecting flange with adjustable diameter for connection to  $\varnothing$  100-150 mm round air duct.
- Fitted with louvre shutters.



**Overall dimensions**

| Model         | Dimensions [mm] |     |         |    |    | Air pass, [m <sup>2</sup> ] | Fig. no. |
|---------------|-----------------|-----|---------|----|----|-----------------------------|----------|
|               | □B              | □H  | D       | L  | L1 |                             |          |
| MV 250 J      | 250             | 214 | –       | 15 | –  | 0.0177-0.056                | 1, 2     |
| MV 250 VJD    | 250             | 214 | 100-150 | 15 | 41 | 0.0177-0.056                | 1, 3     |
| MV 250/150 VJ | 250             | 214 | 150     | 15 | 41 | 0.0177-0.056                | 1, 4     |
| MV 250/200 VJ | 250             | 214 | 200     | 15 | 41 | 0.0177-0.056                | 1, 5     |

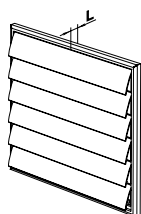


Fig. 1

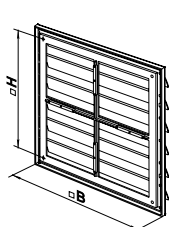


Fig. 2

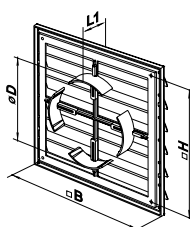


Fig. 3

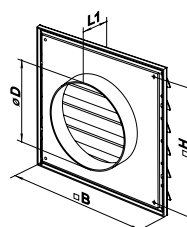


Fig. 4

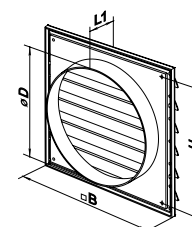


Fig. 5

## MV 100 K MV 125 K Series



### Application

- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- External wall mounting.

### Design

- Made of quality and durable plastic.
- Designed for mounting with rigid air ducts.
- Extra ventilation grille is provided to arrange natural ventilation in premises with a gas stove.
- Equipped with deviators for back air flow prevention through the bottom ventilation grille.
- Screw fixing.
- The grille has a removable bottom part for easy cleaning.

### Colour modifications



### Modifications

#### MV 100 K, MV 125 K – basic modifications

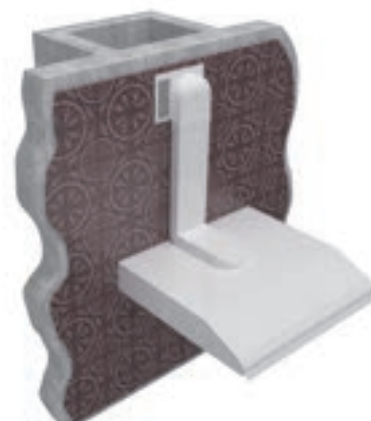
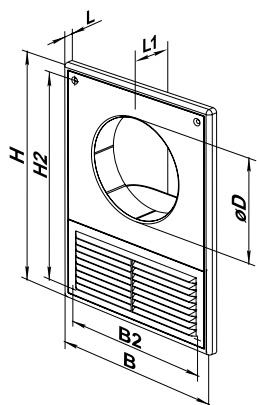


- For mounting with rigid  $\varnothing$  100 mm (MV 100 K) or  $\varnothing$  125 mm (MV 125 K) air ducts.
- **MV 100 Ks, MV 125 Ks** – models with a protecting insect screen.



### Overall dimensions

| Model    | Dimensions [mm] |     |     |     |     |    |    | Air pass, [m <sup>2</sup> ] |
|----------|-----------------|-----|-----|-----|-----|----|----|-----------------------------|
|          | B               | H   | B2  | H2  | D   | L  | L1 |                             |
| MV 100 K | 182             | 252 | 160 | 226 | 100 | 10 | 45 | 0.0039                      |
| MV 125 K | 182             | 252 | 160 | 226 | 125 | 10 | 45 | 0.0039                      |





**MV 100 KV  
MV 120 KV  
MV 125 KV  
Series**



**Application**

- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- Wall mounting.

**Design**

- Made of quality and durable plastic.
- Suitable for mounting with flexible air ducts.
- Equipped with deviators for back air flow prevention through the bottom ventilation grille.
- Extra ventilation grille is provided to arrange natural ventilation in premises with a gas stove.
- Screw fixing.
- The grille has a removable bottom part for easy cleaning.

**Colour modifications**



**Modifications**

**MV 100 KV, MV 120 KV, MV 125 KV – models with a round flange (KV)**

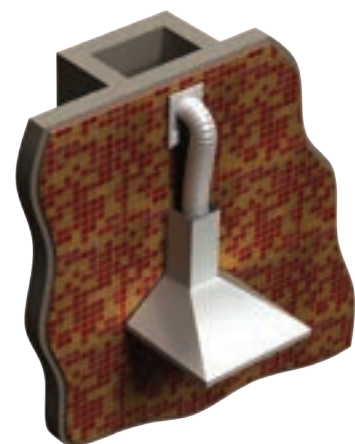
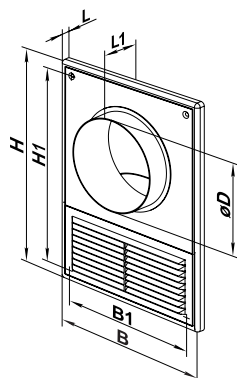


- Equipped with a round flange for connection to  $\varnothing$  100 mm (**MV 100 KV**),  $\varnothing$  120 mm (**MV 120 KV**),  $\varnothing$  125 mm (**MV 125 KV**) air ducts.
- **MV 100 KVs, MV 120 KVs, MV 125 Ks** – models with a protecting insect screen.



**Overall dimensions**

| Model     | Dimensions [mm] |     |     |     |     |    |    | Air pass, [m <sup>2</sup> ] |
|-----------|-----------------|-----|-----|-----|-----|----|----|-----------------------------|
|           | B               | H   | B1  | H1  | D   | L1 | L  |                             |
| MV 100 KV | 182             | 252 | 160 | 226 | 100 | 75 | 10 | 0.0039                      |
| MV 120 KV | 182             | 252 | 160 | 226 | 120 | 75 | 10 | 0.0039                      |
| MV 125 KV | 182             | 252 | 160 | 226 | 125 | 75 | 10 | 0.0039                      |



# ASA PLASTIC VENTILATION GRILLES

## ▶ External ventilation grilles made of weather-resistant ASA plastic.

ASA (Acrylonitrile Styrene Acrylate) plastic is a 3-D polystyrene-copolymer with butadiene rubber, an updated version of ABS plastic.

Due to the specially selected balance of mechanical and physical features the material is the ideal option for external plastic products. ASA plastic is UV- and weather-resistant, durable and long-lasting.

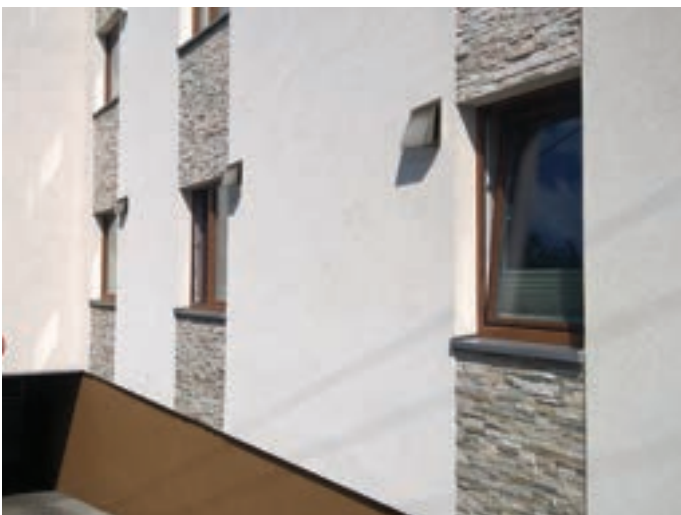
ASA und ABS polymers have a similar chemical structure. Acrylonitrile and styrene ensure water resistance, elasticity and hardness. Butadiene rubber adds higher density for ASA plastic and improves its chemical composition. The products made of ASA plastic have numerous benefits:

- high UV-resistance (due to single covalent bonds ASA plastic is less prone to oxidation and UV exposure)
- high temperature resistance (thermal deformation temperature is +91 °C)
- excellent flexibility and high ultimate resistance (changing of plasticity index does not exceed 2 %)
- fire resistance
- weather resistance (no loss of mechanical properties and deterioration of exterior caused by negative weather impact)

## ▶ ASA plastic application

ASA polymers are used in ventilation and car industry (xenon headlamps, car spoilers, radiator grilles, bodies for rear-view mirror). Owing to high performance features of ASA plastic it is used for manufacture of window profiles, plastic roofs, external ventilation parts.

Therefore you can shop ASA plastic ventilation grilles by VENTS with entire confidence that they will reliably serve and retain their visual appeal for years to come. The external grilles are available in white, brown and beige colour modifications.



► Benefits of ASA plastic products



UV-resistant

High mechanical toughness and UV-resistance.



Reliable

Reliability. Long-term retention of basic characteristics.



High light resistant

Heat-ageing resistance. The colours remain bright and clear even after many years of weather exposure.



Chemical resistant

Resistant to sulphuric acid, alkali, ammonia, diesel fuel and engine oil, ethanol and ethylene glycol.



Temperature resistant

High heat and frost resistance means no deformation and no cracks during outer temperature and humidity drops.



Impact resistant

Improved impact resistance.

► Contents

Supply and exhaust grilles



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MV 250 ASA series

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Round supply and exhaust grilles



MV 100 bV ASA, MV 125 bV ASA, MV 150 bV ASA series

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Supply and exhaust ventilation hoods



MV 102 V ASA, MV 122 V ASA, MV 152 V ASA series

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Exhaust grilles



MV 100 J ASA series

page 212



MV 120 J ASA, MV 150 VJ ASA series

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MV 250 J ASA series

page 214

## MV 100 V ASA Series



### Modifications

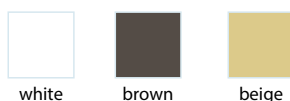
#### Application

- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- Used for correct air flow distribution in premises.
- Wall or ceiling mounting.

#### Design

- Made of quality and durable plastic.
- Multi-element structure. The internal part is fixed to the base with latches for easy cleaning without dismantling.
- Screw fixing.
- The grille has slanted vanes.

#### Colour modifications



### MV 100 V ASA – model with a round flange (V)



- Fitted with a round connecting flange for mounting with  $\varnothing$  100 mm air duct.
- Suitable for direct mounting with VENTS VKO 100 fan.
- **MV 100 Vs ASA** – model with a round flange and a protecting insect screen.



### MV 100 VU ASA – model with a multi-section flange (VU)



- Equipped with a multi-section connecting flange for mounting with  $\varnothing$ 100, 125 mm or 55x110 mm air duct.
- **MV 100 VUs ASA** – model with a multi-section flange and a protecting insect screen.



### Overall dimensions

| Model         | Dimensions [mm] |     |    |    |                  | Air pass, [m <sup>2</sup> ] | Fig. no. |
|---------------|-----------------|-----|----|----|------------------|-----------------------------|----------|
|               | □B              | □H  | L  | L1 | Flange (D)       |                             |          |
| MV 100 V ASA  | 154             | 110 | 15 | 45 | 100              | 0.004                       | 1, 2     |
| MV 100 VU ASA | 154             | 110 | 15 | 39 | 100, 125, 55x110 | 0.0067                      | 1, 3     |

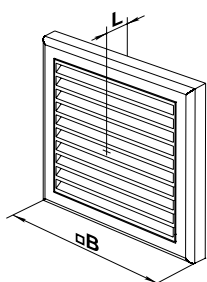


Fig. 1

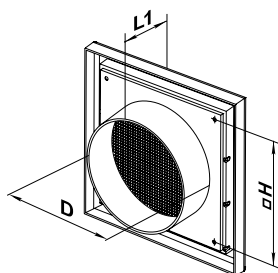


Fig. 2

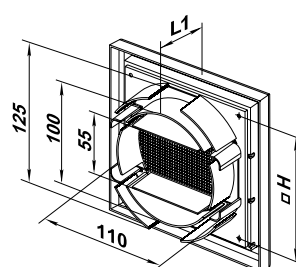


Fig. 3

## MV 120 V ASA Series



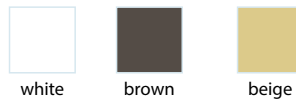
### Application

- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- Used for correct air flow distribution in premises.
- Wall or ceiling mounting.

### Design

- Made of quality and durable plastic.
- Multi-element structure. The internal part is fixed to the base with latches for easy cleaning without dismantling.
- Screw fixing.
- The grille has slanted vanes.

### Colour modifications



### Modifications

#### MV 120 V ASA – model with a round flange (V)



- Fitted with a round connecting flange for mounting with  $\varnothing$  125 mm air duct.
- Suitable for direct mounting with VENTS VKO 125 fan.
- **MV 120 Vs ASA** – model with a round flange and a protecting insect screen.



### Overall dimensions

| Model        | Dimensions [mm] |     |    |    |            | Air pass, [m <sup>2</sup> ] | Fig. no. |
|--------------|-----------------|-----|----|----|------------|-----------------------------|----------|
|              | □B              | □H  | L  | L1 | Flange (D) |                             |          |
| MV 120 V ASA | 186             | 142 | 15 | 45 | 125        | 0.0083                      | 1, 2     |

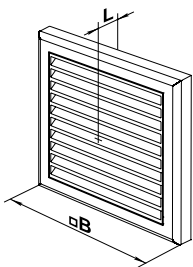


Fig. 1

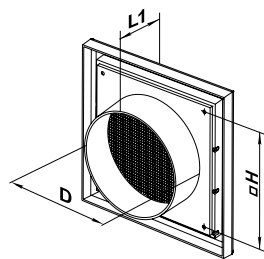


Fig. 2



## MV 150 V ASA Series



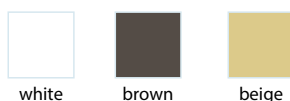
### Application

- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- Used for correct air flow distribution in premises.
- Wall or ceiling mounting.

### Design

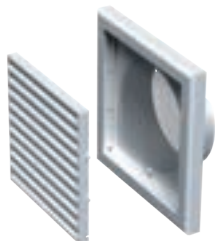
- Made of quality and durable plastic.
- Multi-element structure. The internal part is fixed to the base with latches for easy cleaning without dismantling.
- Screw fixing.
- The grille has slanted vanes.

### Colour modifications



### Modifications

#### MV 150 V ASA – model with a round flange (V)



- Fitted with a round connecting flange for mounting with  $\varnothing$  150 mm air duct.
- Suitable for direct mounting with VENTS VKO 150 fan.
- **MV 150 Vs ASA** – model with a round flange and a protecting insect screen.



### Overall dimensions

| Model        | Dimensions [mm] |     |    |    |            | Air pass, [m <sup>2</sup> ] | Fig. no. |
|--------------|-----------------|-----|----|----|------------|-----------------------------|----------|
|              | □B              | □H  | L  | L1 | Flange (D) |                             |          |
| MV 150 V ASA | 186             | 142 | 15 | 50 | 150        | 0.0083                      | 1, 2     |

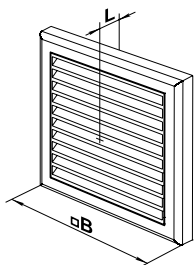


Fig. 1

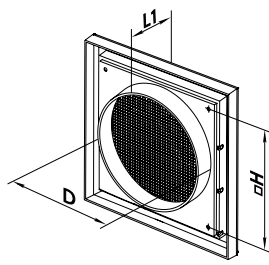


Fig. 2

## MV 250 ASA Series



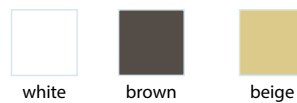
### Application

- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- Used for correct air flow distribution in premises.
- Wall or ceiling mounting.

### Design

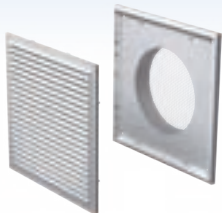
- Made of quality and durable plastic.
- Multi-element structure. The internal part is fixed to the base with latches for easy cleaning without dismantling.
- Fixing with screws or lugs depending on grille modification.

### Colour modifications



### Modifications

#### MV 250/150 V ASA – model with a round Ø 150 mm flange



- Wall or ceiling mounting.
- Fitted with a round connecting flange for mounting with Ø 150 mm air duct.
- Suitable for direct mounting with VENTS VKO 150 fan.
- Screw fixing.
- **MV 250/150 Vs ASA** – model with a round flange and a protecting insect screen.



#### MV 250/200 V ASA – model with a round Ø 200 mm flange



- Fitted with a round connecting flange for mounting with Ø 200 mm air duct.
- Screw fixing.
- **MV 250/200 Vs ASA** – model with a round flange and a protecting insect screen.



#### MV 250 VD ASA – model with four-element connecting flange



- Equipped with four-element connecting flange with adjustable diameter for connection to Ø 100-150 mm round air duct.
- Screw fixing.
- **MV 250 VDs ASA** – model with four-element flange and a protecting insect screen.



### Overall dimensions

| Model            | Dimensions [mm] |     |    |    |            | Air pass, [m <sup>2</sup> ] | Fig. no. |
|------------------|-----------------|-----|----|----|------------|-----------------------------|----------|
|                  | □B              | □H  | L  | L1 | Flange (D) |                             |          |
| MV 250/150 V ASA | 250             | 214 | 14 | 44 | 150        | 0.02                        | 1, 2     |
| MV 250/200 V ASA | 250             | 214 | 14 | 44 | 200        | 0.02                        | 1, 2     |
| MV 250 VD ASA    | 250             | 214 | 14 | 42 | 100-150    | 0.02                        | 1, 3     |

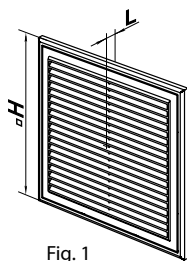


Fig. 1

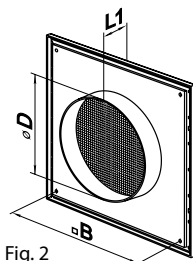


Fig. 2

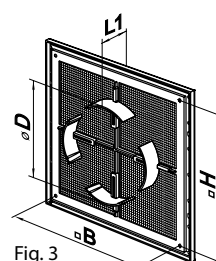


Fig. 3

## MV 100 bV ASA MV 125 bV ASA MV 150 bV ASA Series



### Application

- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- Used for correct air flow distribution in premises.
- Wall or ceiling mounting.

### Design

- Made of quality and durable plastic.
- Fixing with screws or glue.
- Modifications with air flow regulator and a protecting insect screen are available.

### Colour modifications



### Modifications

#### MV 100 bV ASA, MV 125 bV ASA, MV 150 bV ASA – round grilles with a flange (bV)



- Fitted with a round connecting flange for mounting to  $\varnothing$  100 mm (MV 100 bV ASA),  $\varnothing$  125 mm (MV 125 bV ASA) or  $\varnothing$  150 mm (MV 150 bV ASA) air ducts.
- MV 100 bVs ASA, MV 125 bVs ASA, MV 150 bVs ASA – models with a protecting insect screen.



#### MV 100 bVR ASA – models with a round flange and air flow regulator (bVR)



- Fitted with a round connecting flange for mounting to  $\varnothing$  100 mm.
- Equipped with a movable flap for air flow regulation with a slider.
- MV 100 bVRs ASA – with a protecting insect screen.



#### MV 125 bVRD ASA, MV 150 bVRD ASA – models with air flow regulator and four-element connecting flange (bVRD)



- Equipped with four-element connecting flange with adjustable diameter for connection to  $\varnothing$  100-125 mm (MV 125 bVRD ASA) and  $\varnothing$  100-150 mm (MV 150 bVRD ASA) round air ducts.
- Equipped with a movable flap for air flow regulation with a slider.



### Overall dimensions

| Model           | Dimensions [mm] |     |         |     | Air pass, [m <sup>2</sup> ] | Fig. no. |
|-----------------|-----------------|-----|---------|-----|-----------------------------|----------|
|                 | L               | B   | D1      | D   |                             |          |
| MV 100 bV ASA   | 29              | 118 | 100     | 128 | 0.004                       | 1, 2     |
| MV 100 bVR ASA  | 29              | 118 | 100     | 128 | 0.005                       | 1, 3     |
| MV 125 bV ASA   | 29              | 148 | 125     | 160 | 0.0065                      | 1, 2     |
| MV 125 bVRD ASA | 45              | 148 | 100-125 | 160 | 0.005                       | 1, 4     |
| MV 150 bV ASA   | 29              | 176 | 150     | 200 | 0.01                        | 1, 2     |
| MV 150 bVRD ASA | 45              | 176 | 100-150 | 200 | 0.005                       | 1, 4     |

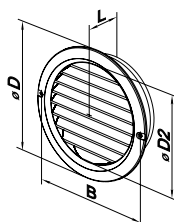


Fig. 1

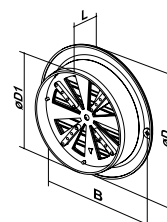


Fig. 3

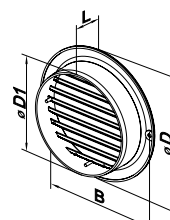


Fig. 2

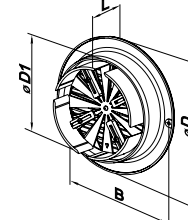


Fig. 4

## MV 102 V ASA MV 122 V ASA MV 152 V ASA Series



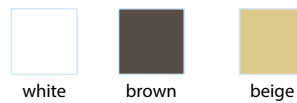
### Application

- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- External wall mounting.

### Design

- Made of quality and durable plastic.
- Two-element structure for easy maintenance.
- Screw fixing.
- Equipped with a protecting grille against birds and rodents.

### Colour modifications



### Modifications

#### MV 102 VK ASA, MV 122 VK ASA, MV 152 VK ASA – models with a round flange and a backdraft damper



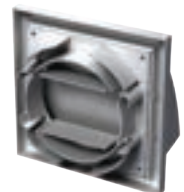
- Exhaust hoods for wall mounting.
- Fitted with a gravity backdraft damper for back flow prevention.
- Equipped with a round connecting flange for mounting with  $\varnothing$  100 mm (MV 102 VK ASA),  $\varnothing$  125 mm (MV 122 VK ASA),  $\varnothing$  150 mm (MV 152 VK ASA) air ducts.



#### MV 102 VUK ASA – model with a multi-section flange (VU)



- Exhaust hood for wall mounting.
- Fitted with a gravity backdraft damper for back flow prevention.
- Equipped with a multi-section flange for mounting with  $\varnothing$  100, 125 mm or 55x110 mm air duct.



### Overall dimensions

| Model          | Dimensions [mm] |     |    |    |     |                  | Air pass, [m <sup>2</sup> ] | Fig. no. |
|----------------|-----------------|-----|----|----|-----|------------------|-----------------------------|----------|
|                | □B              | □H  | L  | L1 | L2  | Flange (D)       |                             |          |
| MV 102 VK ASA  | 154             | 110 | 15 | 45 | 87  | 100              | 0.008                       | 1, 2     |
| MV 102 VUK ASA | 154             | 110 | 15 | 39 | 87  | 100, 125, 55*110 | 0.008                       | 1, 3     |
| MV 122 VK ASA  | 186             | 142 | 15 | 45 | 101 | 125              | 0.012                       | 1, 2     |
| MV 152 VK ASA  | 186             | 142 | 15 | 50 | 101 | 150              | 0.012                       | 1.2      |

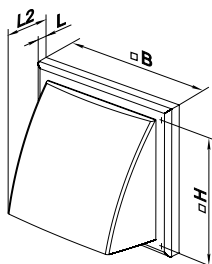


Fig. 1

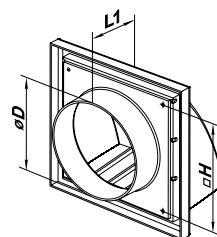


Fig. 2

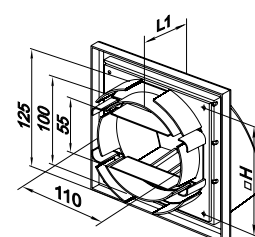


Fig. 3

## MV 100 J ASA Series



### Application

- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- External wall mounting.

### Design

- Made of quality and durable plastic.
- Multi-element structure.
- Fitted with louvre shutters for back flow prevention.
- Screw fixing.

### Colour modifications



### Modifications

#### MV 100 VJ ASA – model with a round flange and gravity louvre shutters (VJ)



- Exhaust grille for wall mounting.
- Fitted with louvre shutters.
- Fitted with a round connecting flange for connection to Ø 100 mm air duct.



#### MV 100 VUJ ASA – model with a multi-section flange and gravity louvre shutters (VUJ)



- Exhaust grille for wall mounting.
- Fitted with louvre shutters.
- Equipped with a connecting multi-section flange for connection to Ø 100, 125 mm or 55x110 mm air duct.



### Overall dimensions

| Model          | Dimensions [mm] |     |    |    |                  | Air pass, [m <sup>2</sup> ] | Fig. no. |
|----------------|-----------------|-----|----|----|------------------|-----------------------------|----------|
|                | □B              | □H  | L  | L1 | Flange (D)       |                             |          |
| MV 100 VJ ASA  | 154             | 110 | 15 | 45 | 100              | 0.0075                      | 1, 2     |
| MV 100 VUJ ASA | 154             | 110 | 15 | 39 | 100, 125, 55x110 | 0.0096                      | 1, 3     |

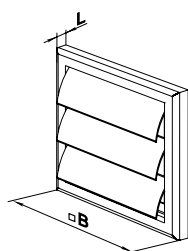


Fig. 1

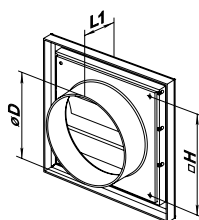


Fig. 2

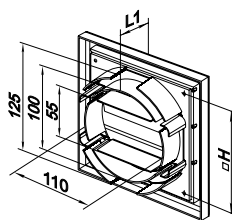


Fig. 3



## MV 120 VJ ASA MV 150 VJ ASA Series



### Application

- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- External wall mounting.

### Design

- Made of quality and durable plastic.
- Multi-element structure.
- Fitted with louvre shutters for back flow prevention.
- Screw fixing.

### Colour modifications



### Modifications

#### MV 120 VJ ASA, MV 150 VJ ASA – models with a round flange and louvre shutters (VJ)



- Exhaust grille for wall mounting.
- Fitted with louvre shutters.
- Fitted with a round connecting flange for mounting with  $\varnothing$  125 mm air duct (MV 120 VJ ASA) and 150 mm air duct (MV 150 VJ ASA).



### Overall dimensions

| Model         | Dimensions [mm] |     |    |    |            | Air pass, [m <sup>2</sup> ] | Fig. no. |
|---------------|-----------------|-----|----|----|------------|-----------------------------|----------|
|               | □B              | □H  | L  | L1 | Flange (D) |                             |          |
| MV 120 VJ ASA | 186             | 142 | 15 | 45 | 125        | 0.0113                      | 1, 2     |
| MV 150 VJ ASA | 186             | 142 | 15 | 50 | 150        | 0.0113                      | 1, 2     |

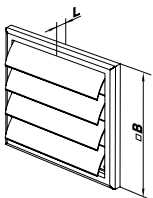


Fig. 1

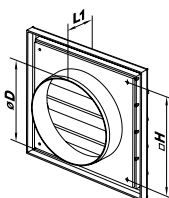


Fig. 2

## MV 250 J ASA Series



### Application

- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- External wall mounting.

### Design

- Made of quality and durable plastic.
- Multi-element structure.
- Fitted with louvre shutters for back flow prevention.
- Screw fixing.

### Colour modifications



### Modifications

#### MV 250/150 VJ ASA, MV 250/200 VJ ASA – models with a round flange and louvre shutters



- Fitted with a round connecting flange for mounting with  $\varnothing$  150 mm (MV 250/150 VJ ASA) or  $\varnothing$  200 mm (MV 250/200 VJ ASA) air ducts.
- Fitted with louvre shutters for back flow prevention.



#### MV 250 VJD ASA – model with four-element flange and louvre shutters



- Equipped with four-element connecting flange with adjustable diameter for connection to  $\varnothing$  100-150 mm round air duct.
- Fitted with louvre shutters.



### Overall dimensions

| Model             | Dimensions [mm] |     |         |    |    | Air pass, [m <sup>2</sup> ] | Fig. no. |
|-------------------|-----------------|-----|---------|----|----|-----------------------------|----------|
|                   | □B              | □H  | D       | L  | L1 |                             |          |
| MV 250 VJD ASA    | 250             | 214 | 100-150 | 15 | 41 | 0.0177-0.056                | 1, 2     |
| MV 250/150 VJ ASA | 250             | 214 | 150     | 15 | 41 | 0.0177-0.056                | 1, 3     |
| MV 250/200 VJ ASA | 250             | 214 | 200     | 15 | 41 | 0.0177-0.056                | 1, 4     |

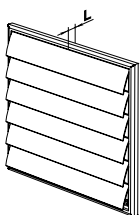


Fig. 1

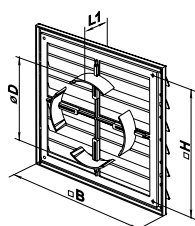


Fig. 2

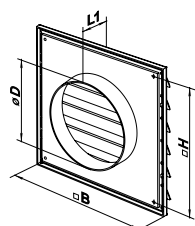


Fig. 3

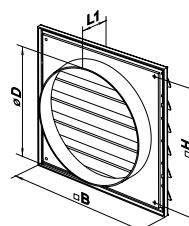


Fig. 4


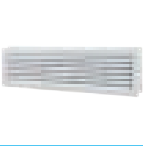











# DOOR PLASTIC GRILLES





|   |   |             |
|---|---|-------------|
|    | <b>Supply and exhaust door grille</b><br>MV 350 Series    | page<br>218 |
|   | <b>Supply and exhaust door grille</b><br>MV 350/2 Series  | page<br>219 |
|  | <b>Supply and exhaust door grille</b><br>MV 450 Series    | page<br>220 |
|  | <b>Supply and exhaust door grille</b><br>MV 450/2 Series  | page<br>221 |
|  | <b>Supply and exhaust door grille</b><br>MV 380 Series    | page<br>222 |
|  | <b>Supply and exhaust door grille</b><br>MV 380/2 Series  | page<br>223 |
|  | <b>Supply and exhaust door grille</b><br>MV 430/2 Series  | page<br>224 |
|  | <b>Supply and exhaust door grille</b><br>MV 440/2 Series  | page<br>225 |
|  | <b>Supply and exhaust door grille</b><br>MV 240x60 Series | page<br>226 |



## MV 350 Series



### Application

- Mounting in door leaves of bathrooms, kitchens, etc.
- Suitable for installation into window sills for correct warm air distribution from radiators.
- Used to arrange correct air circulation in premises.

### Design

- Made of high quality plastic.
- Available in various colour modifications.
- Fixing with screws directly to a door leaf or to window sills.
- Modifications with a protecting insect screen or a movable flap for air flow regulation are available.

### Colour modifications



### Modifications

#### MV 350 – basic modification



- Mounting in door leaves of bathrooms, kitchens, etc.
- Minimum door leaf thickness is 32 mm.
- Required cutout area in door leaf is 95x334 mm.
- **MV 350 s** – model with a protecting insect screen.

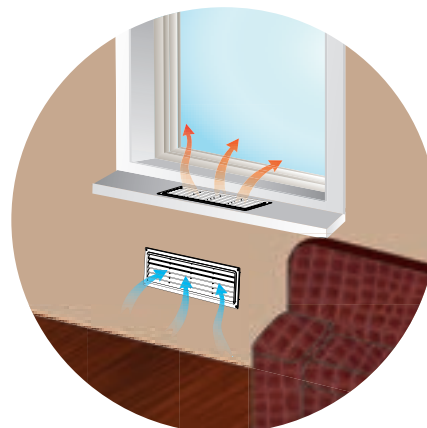
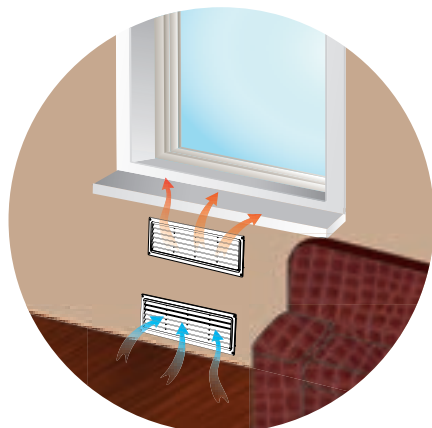
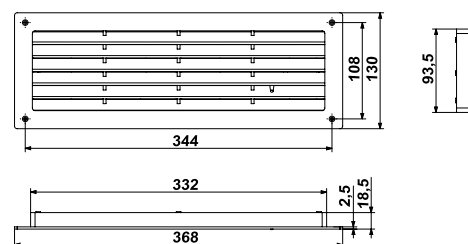
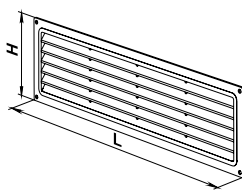
#### MV 350 R – model with an air flow regulator (R)



- Mounting in door leaves of bathrooms, kitchens, etc.
- Minimum door leaf thickness is 32 mm.
- Required cutout area in door leaf for **MV 350 R** model is 95x334 mm.
- **MV 350 Rs** – model with a movable flap for air flow regulation and a protecting insect screen.

### Overall dimensions

| Model    | Dimensions [mm] |     | Air pass, [m <sup>2</sup> ] |
|----------|-----------------|-----|-----------------------------|
|          | H               | L   |                             |
| MV 350   | 130             | 368 | 0.014                       |
| MV 350 R | 130             | 368 | 0.0095                      |



**MV 350/2  
Series**



**Application**

- Mounting in door leaves of bathrooms, kitchens, etc.
- Used to arrange correct air circulation in premises.

**Design**

- The grille consists of two parts.
- Made of high quality plastic.
- Available in various colour modifications.
- Fixing with screws directly to a door leaf.
- Modifications with a protecting insect screen or a movable flap for air flow regulation are available.

**Colour modifications**



**MV 350/2 – basic modification**



- Mounting in door leaves of bathrooms, kitchens, etc.
- Minimum door leaf thickness is 32 mm.
- Required cutout area in door leaf for **MV 350/2** model is 95x334 mm.
- **MV 350/2s** – model with a protecting insect screen.

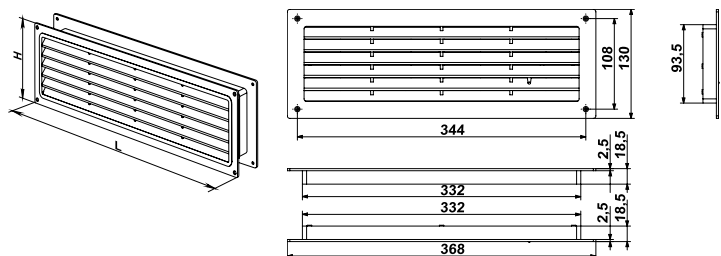
**MV 350 R/2 – model with an air flow regulator (R)**



- Mounting in door leaves of bathrooms, kitchens, etc.
- Minimum door leaf thickness is 32 mm.
- Required cutout area in door leaf for **MV 350 R/2** model is 95x334 mm.
- **MV 350 R/2s** – model with a protecting insect screen.

**Overall dimensions**

| Model      | Dimensions [mm] |     | Air pass, [m <sup>2</sup> ] |
|------------|-----------------|-----|-----------------------------|
|            | H               | L   |                             |
| MV 350/2   | 130             | 368 | 0.014                       |
| MV 350 R/2 | 130             | 368 | 0.0065                      |



## MV 450 Series



### Modifications

#### Application

- Mounting in door leaves of bathrooms, kitchens, etc.
- Suitable for installation into window sills for correct warm air distribution from radiators.
- Used to arrange correct air circulation in premises.

#### Design

- Made of high quality plastic.
- Available in various colour modifications.
- Fixing with screws directly to a door leaf or to window sills.
- Modifications with a protecting insect screen or a movable flap for air flow regulation are available.

#### Colour modifications



### MV 450 – basic modification



- Mounting in door leaves of bathrooms, kitchens, etc.
- Minimum door leaf thickness is 32 mm.
- Required cutout area in door leaf for **MV 450** model is 95x432 mm.
- **MV 450 s** – model with a protecting insect screen.

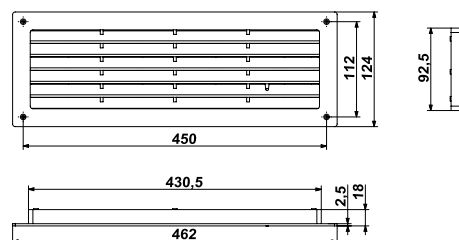
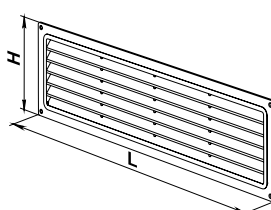
### MV 450 R – model with air flow regulator (R)



- Mounting in door leaves of bathrooms, kitchens, etc.
- Minimum door leaf thickness is 32 mm.
- Required cutout area in door leaf for **MV 450 R** model is 95x432 mm.
- **MV 450 Rs** – model with a movable flap and a protecting insect screen.

### Overall dimensions

| Model    | Dimensions [mm] |     | Air pass, [m <sup>2</sup> ] |
|----------|-----------------|-----|-----------------------------|
|          | H               | L   |                             |
| MV 450   | 124             | 462 | 0.019                       |
| MV 450 R | 124             | 462 | 0.015                       |



## MV 450/2 Series



### Application

- Mounting in door leaves of bathrooms, kitchens, etc.
- Used to arrange correct air circulation in premises.

### Design

- The grille consists of two parts.
- Made of high quality plastic.
- Available in various colour modifications.
- Fixing with screws directly to a door leaf.
- Modifications with an insect screen or a movable flap for air flow regulation are available.

### Colour modifications



### Modifications

#### MV 450/2 – double grille models



- Mounting in door leaves of bathrooms, kitchens, etc.
- Minimum door leaf thickness is 32 mm.
- Required cutout area in door leaf for **MV 420/2** model is 95x432 mm.
- **MV 450/2s** – model with a protecting insect screen.

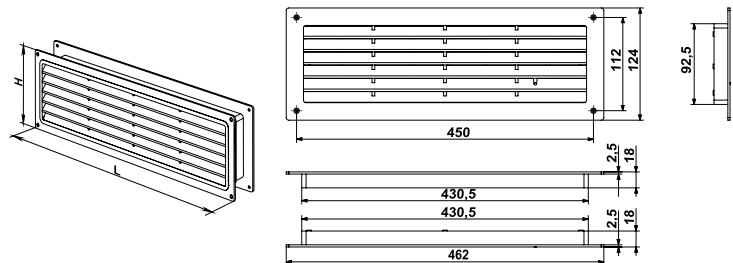
#### MV 450 R/2 – double models with air flow regulator (R)



- Mounting in door leaves of bathrooms, kitchens, etc.
- Minimum door leaf thickness is 32 mm.
- Required cutout area in door leaf for **MV 450 R/2** model is 95x432 mm.
- **MV 450 R/2s** – models with a protecting insect screen.

### Overall dimensions

| Model      | Dimensions [mm] |     | Air pass, [m <sup>2</sup> ] |
|------------|-----------------|-----|-----------------------------|
|            | H               | L   |                             |
| MV 450/2   | 124             | 462 | 0.019                       |
| MV 450 R/2 | 124             | 462 | 0.015                       |



# SUPPLY AND EXHAUST DOOR GRILLES

## MV 380 Series

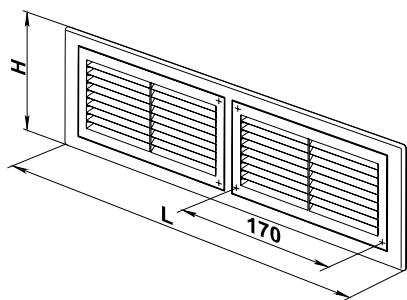


### Modifications

- **MV 380 s** – model with a protecting insect screen.

### Overall dimensions

| Model  | Dimensions [mm] |     | Air pass, [m <sup>2</sup> ] |
|--------|-----------------|-----|-----------------------------|
|        | H               | L   |                             |
| MV 380 | 104             | 382 | 0.0078                      |



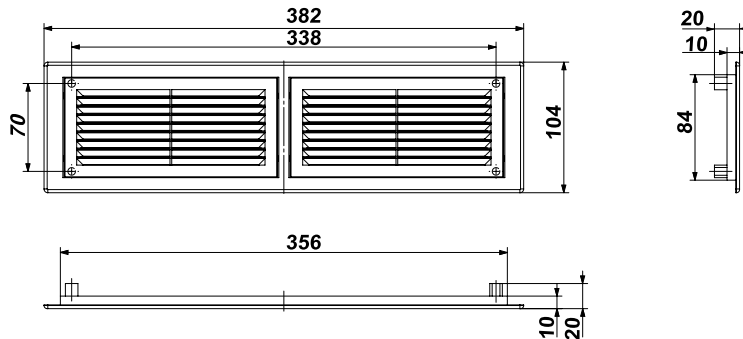
### Application

- Mounting in door leaves of bathrooms, kitchens, etc.
- Suitable for installation into window sills for correct warm air distribution from radiators.
- Used to arrange correct air circulation in premises.

### Design

- Made of high quality plastic.
- Available in various colour modifications.
- Fixing with screws directly to a door leaf or to window sills.
- Modifications with a protecting insect screen or a movable flap for air flow regulation are available.

### Colour modifications





**MV 380/2**  
Series



**Application**

- Mounting in door leaves of bathrooms, kitchens, etc.
- Used to arrange correct air circulation in premises.

**Design**

- Two-section grille.
- Made of high quality plastic.
- Available in various colour modifications.
- The mating grille parts are connected by slots and fixed with screws.
- Minimum door leaf thickness is 29 mm.
- Required cutout area in door leaf is 86x358 mm.
- Modifications with a protecting insect screen are available.

**Colour modifications**

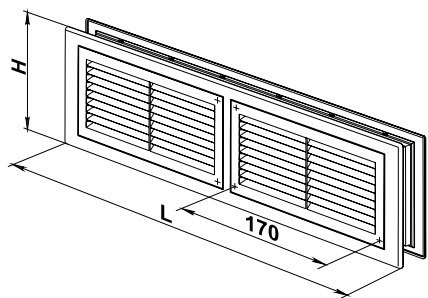
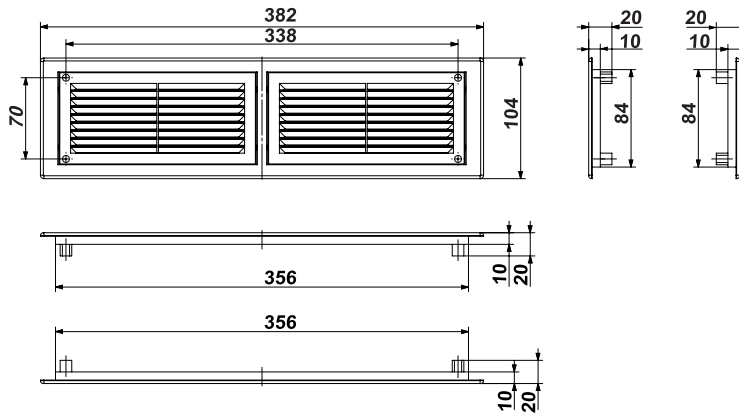


**Modifications**

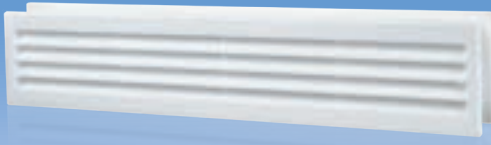
- **MV 380/2 s** – model with a protecting insect screen.

**Overall dimensions**

| Model    | Dimensions [mm] |     | Air pass, [m <sup>2</sup> ] |
|----------|-----------------|-----|-----------------------------|
|          | H               | L   |                             |
| MV 380/2 | 104             | 382 | 0.0078                      |



## MV 430/2 Series

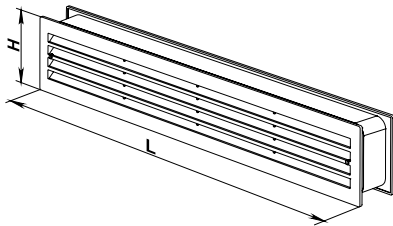


### Modifications

- **MV 430/2 s** – model with a protecting insect screen.

### Overall dimensions

| Model    | Dimensions [mm] |     | Air pass, [m <sup>2</sup> ] |
|----------|-----------------|-----|-----------------------------|
|          | H               | L   |                             |
| MV 430/2 | 91              | 453 | 0.0152                      |



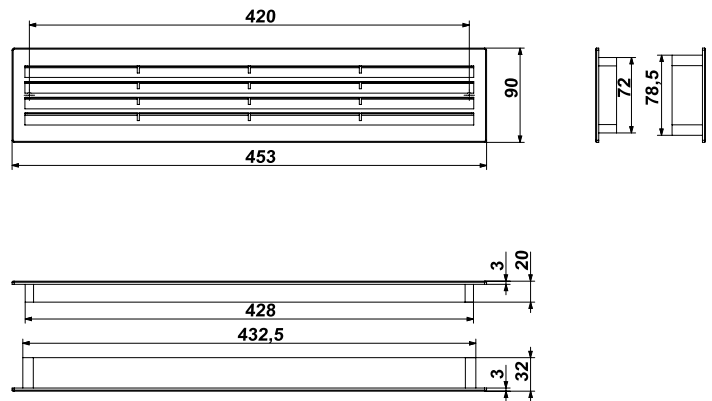
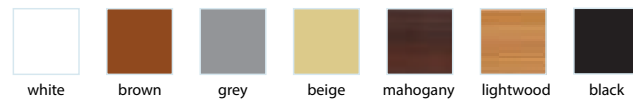
### Application

- Mounting in door leaves of bathrooms, kitchens, etc.
- Used to arrange correct air circulation in premises.

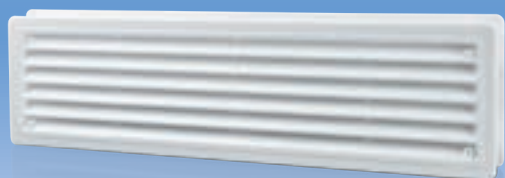
### Design

- The grille consists of two parts.
- Made of high quality plastic.
- Available in various colour modifications.
- The mating grille parts are connected by slots and fixed with screws.
- Required cutout area in door leaf for is 80x434 mm.
- Minimum door leaf thickness is 30 mm.
- Modifications with a protecting insect screen are available.

### Colour modifications



**MV 440/2**  
Series



**Application**

- Mounting in door leaves of bathrooms, kitchens, etc.
- Used to arrange correct air circulation in premises.

**Design**

- The grille consists of two parts.
- Made of high quality white plastic.
- Available in various colour modifications.
- The mating grille parts are connected by slots and fixed with screws.
- Minimum door leaf thickness is 32 mm.
- Required cutout area in door leaf is 99x435 mm.
- Modifications with a protecting insect screen are available.

**Colour modifications**

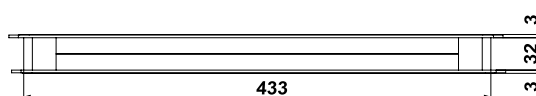
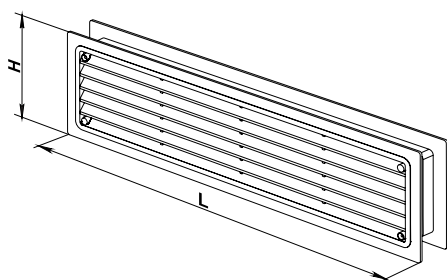
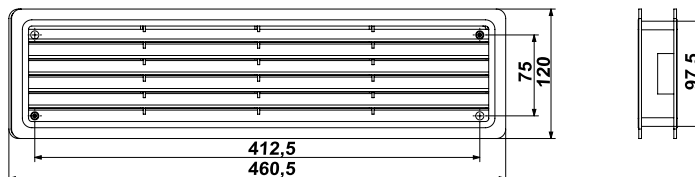


**Modifications**

- **MV 440/2 s** – model with a protecting insect screen.

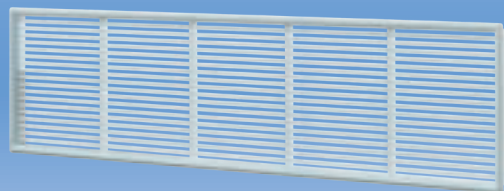
**Overall dimensions**

| Model    | Dimensions [mm] |     | Air pass, [m <sup>2</sup> ] |
|----------|-----------------|-----|-----------------------------|
|          | H               | L   |                             |
| MV 440/2 | 120             | 460 | 0.0152                      |



# SUPPLY AND EXHAUST DOOR GRILLES (FURNITURE)

## MV 240x60 Series



### Application

- Mounting in door leaves of bathrooms, kitchens, etc.
- It is also designed for mounting in various pieces of furniture in order to ventilate them.
- Suitable for installation into windowsills for correct warm air distribution from radiators.

### Design

- Made of high quality plastic.
- Available in various colour modifications.
- Fixing to surfaces with glue (not included in the delivery set).

### Colour modifications



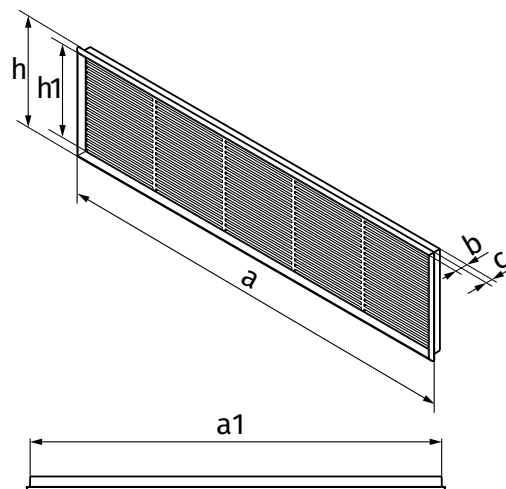
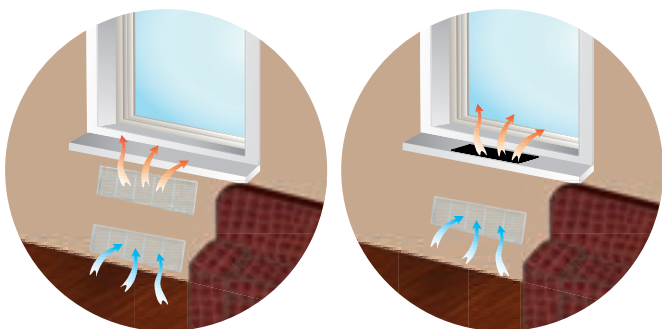
white



brown

### Overall dimensions

| Model     | Dimensions [mm] |    |     |     |   |   |
|-----------|-----------------|----|-----|-----|---|---|
|           | h               | h1 | a   | a1  | b | c |
| MV 240x60 | 64              | 60 | 242 | 238 | 8 | 6 |







# SUPPLY AND EXHAUST AIR DISK VALVES



|   |   |             |
|---|---|-------------|
|    | <b>Supply and exhaust plastic air disk valves</b><br>A...VR Series        | page<br>230 |
|    | <b>Supply and exhaust plastic air disk valves</b><br>A...VRF Series       | page<br>232 |
|    | <b>Supply plastic air disk valves</b><br>A...PR Series                    | page<br>234 |
|   | <b>Supply plastic air disk valves</b><br>A...PRF Series                   | page<br>236 |
|  | <b>Supply metal air disk valves</b><br>AM...PRF Series                    | page<br>238 |
|  | <b>Supply and exhaust metal air disk valves</b><br>AM...VRF Series        | page<br>240 |
|  | <b>Supply and exhaust metal air disk valves</b><br>AM...VRF N Series      | page<br>242 |
|  | <b>Supply and exhaust plastic diffusers</b><br>MV...PF Series             | page<br>243 |
|  | <b>Supply and exhaust plastic diffusers with light</b><br>FL 100 Series   | page<br>244 |
|  | <b>Supply and exhaust plastic diffusers with light</b><br>FL-2 100 Series | page<br>246 |

## A...VR Series



### Application

- For supply and exhaust ventilation, air conditioning and heating.
- Mounting in false ceilings or walls.
- Used to arrange correct air circulation in premises.

### Design

- Made of high quality plastic (ABS plastic or polystyrene).
- Special aerodynamic disk valve design ensures uniform air distribution.
- Smooth air pass regulation due to rotation of central part of the damper.
- Easy mounting with fixing lugs.
- The internal part has a sealing ring for more tight fit.

### Grille modifications

#### A 80 VR, A 100 VR, A 125 VR, A 150 VR, A 200 R – basic modifications



- Equipped with fixing lugs for easy connection to  $\varnothing$  80/100/125/150/200 mm round air ducts.
- Modification may include **F 80 – F 200** flange (available upon separate order).



#### A 200 VR – two-element model



- Equipped with fixing lugs for easy connection to  $\varnothing$  200 mm round air ducts.
- Two regulating elements for more perfect air flow distribution.
- Modification may include **F 200** flange (available upon separate order).



### Overall dimensions

| Model    | Dimensions [mm] |       |     |     |       |    |    |                         | Air pass, [m <sup>2</sup> ] | Fig. no. |
|----------|-----------------|-------|-----|-----|-------|----|----|-------------------------|-----------------------------|----------|
|          | D               | D1    | D2  | D3  | H max | H1 | H2 | Damper normal pitch, mm |                             |          |
| A 80 VR  | 80              | 64    | 90  | 132 | 50    | 34 | 16 | 0...8                   | 0...0.002                   | 1        |
| A 100 VR | 100             | 84    | 90  | 148 | 65    | 44 | 26 | 0...20                  | 0...0.006                   | 1        |
| A 125 VR | 125             | 105   | 110 | 166 | 70    | 40 | 20 | 0...22                  | 0...0.008                   | 1        |
| A 150 VR | 150             | 125   | 128 | 200 | 80    | 50 | 30 | 0...23                  | 0...0.009                   | 1        |
| A 200 R  | 200             | 177.6 | 183 | 246 | 80    | 53 | 33 | 0...16                  | 0...0.009                   | 1        |
| A 200 VR | 200             | 177.6 | 128 | 246 | 80    | 53 | 33 | 0...19                  | 0.001...0.008               | 2        |

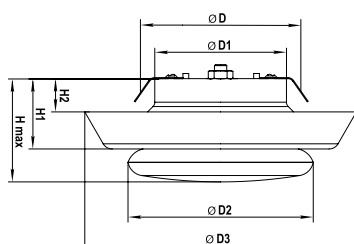


Fig. 1

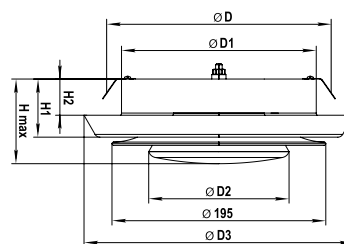


Fig. 2

■ Technical parameters

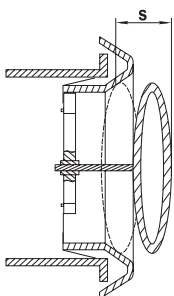
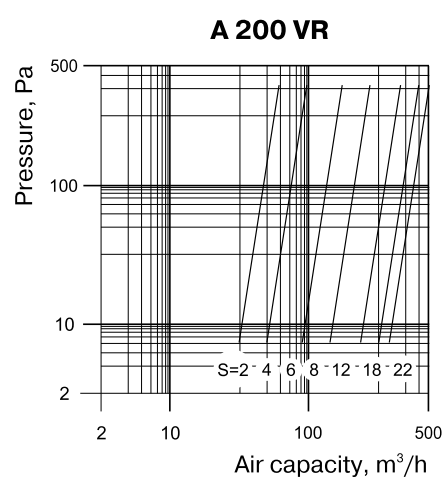
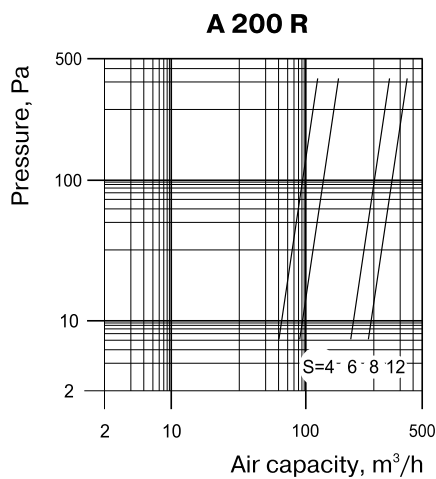
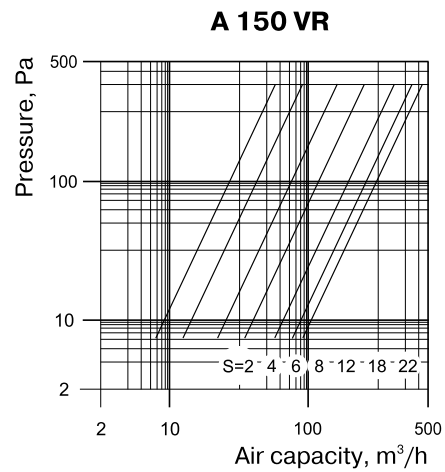
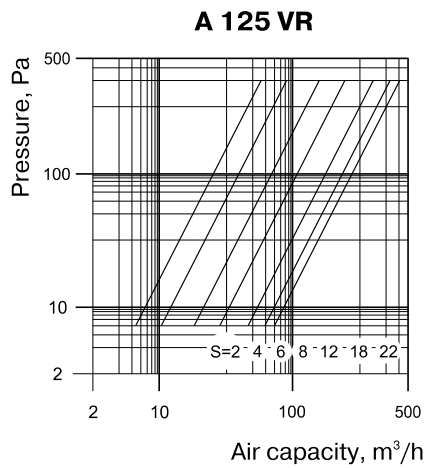
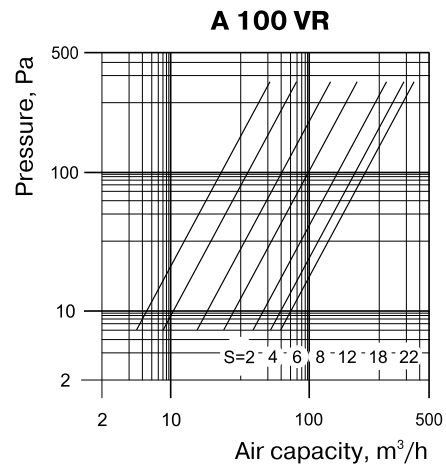
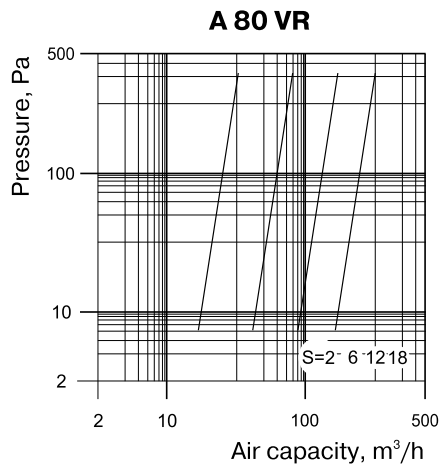


Fig. 3

The internal part of the air disk valve is pulled out to ensure the required clearance S (mm) (fig. 3) to provide required air flow according to the diagram.



## A...VRF Series



### ■ Application

- For supply and exhaust ventilation, air conditioning and heating.
- Mounting in false ceilings or walls.
- Used to arrange correct air circulation in premises.

### ■ Design

- Made of high quality plastic (ABS plastic or polystyrene).
- Special aerodynamic disk valve design ensures uniform air distribution.
- Smooth air pass regulation due to rotation of central part of the damper.
- Easy installation with fixing lugs and a mounting flange with a lock ring.
- The internal part has a sealing ring for more tight fit.

### ■ Grille modifications

#### A 80 VRF, A 100 VRF, A 125 VRF, A 150 VRF, A 200 RF – models with a mounting flange



- Equipped with a mounting flange and a lock ring for easy connection to round Ø 80/100/125 /150/200 mm air ducts.
- Mounting flange is fixed to false ceiling with screws.
- Lock ring provides easy fixing of the flexible air duct on a mounting flange.



#### A 200 VRF – double model with Ø 200 mm mounting flange



- Two regulating elements for more perfect air flow distribution.
- Equipped with a mounting flange and a lock ring for easy connection to round Ø 200 mm air ducts.
- Mounting flange is fixed to false ceiling with screws.
- Lock ring provides easy fixing of the flexible air duct on a mounting flange.



#### A 200/150 VRF – two-element model with a mounting flange



- Two regulating elements for more perfect air flow distribution.
- Equipped with a mounting reducing flange and a lock ring for easy connection to round Ø 150 mm air ducts.
- Mounting flange is fixed to false ceiling with screws.
- Lock ring provides easy fixing of the flexible air duct on a mounting flange.





## Overall dimensions

| Model         | Dimensions [mm] |     |     |    |    | Air pass, [m <sup>2</sup> ] | Damper normal pitch, mm | Fig. no. |
|---------------|-----------------|-----|-----|----|----|-----------------------------|-------------------------|----------|
|               | D               | D1  | D2  | H  | H1 |                             |                         |          |
| A 80 VRF      | 80              | 90  | 132 | 58 | 18 | 0...0.002                   | 0...8                   | 1        |
| A 100 VRF     | 100             | 90  | 148 | 58 | 28 | 0...0.006                   | 0...20                  | 1        |
| A 125 VRF     | 125             | 110 | 166 | 58 | 20 | 0...0.008                   | 0...22                  | 1        |
| A 150 VRF     | 150             | 128 | 200 | 58 | 20 | 0...0.009                   | 0...23                  | 1        |
| A 200 RF      | 200             | 183 | 246 | 58 | 20 | 0...0.009                   | 0...16                  | 1        |
| A 200 VRF     | 200             | 128 | 246 | 58 | 20 | 0.001...0.008               | 0...19                  | 2        |
| A 200/150 VRF | 150             | 128 | 246 | 82 | 20 | 0.001...0.008               | 0...19                  | 3        |

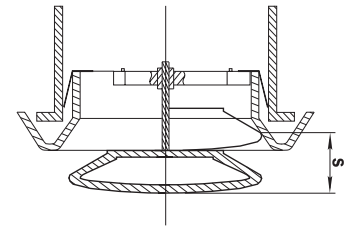


Fig. 4

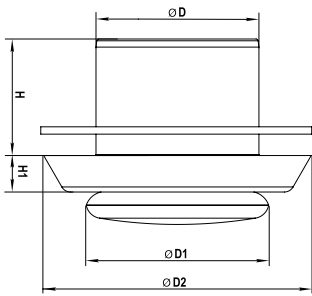


Fig. 1

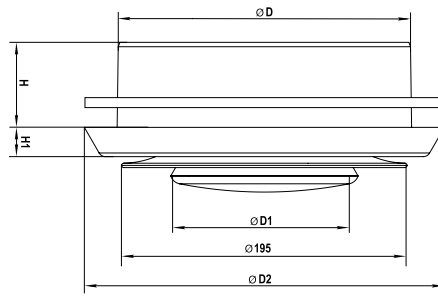


Fig. 2

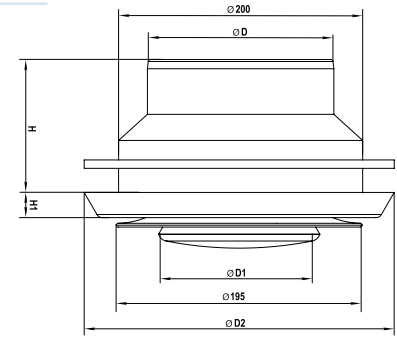
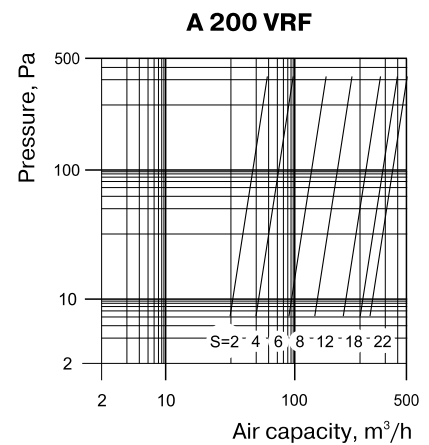
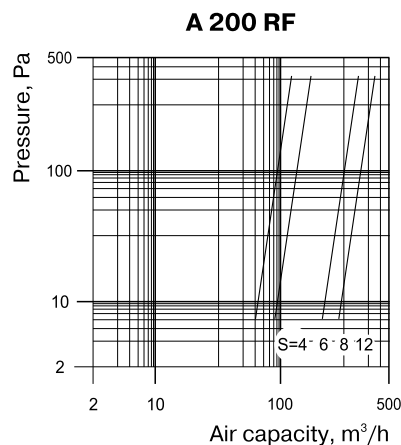
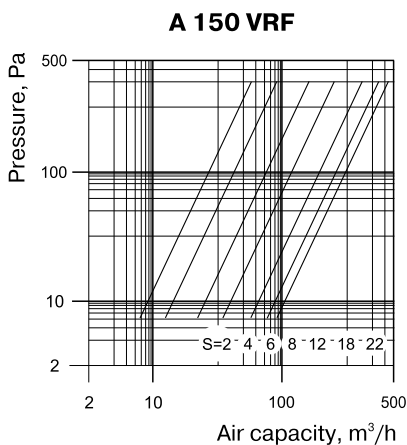
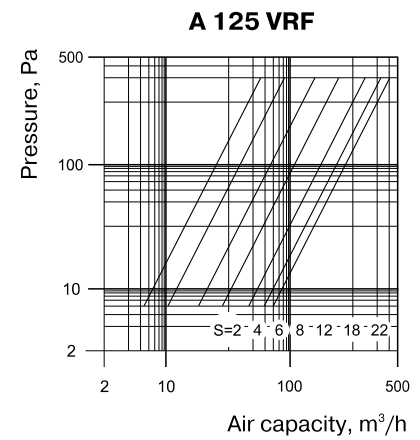
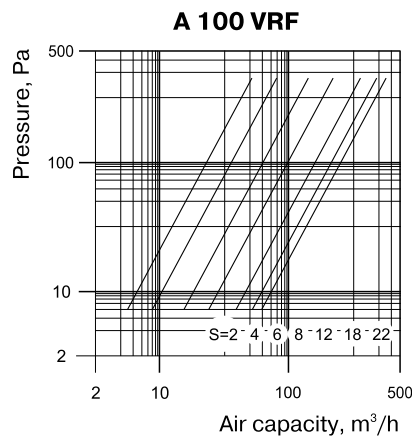
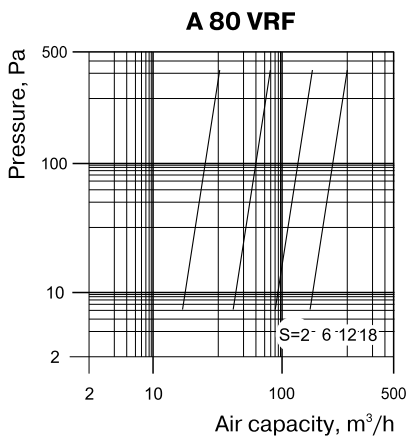


Fig. 3

## Technical parameters



The internal part of the air disk valve is pulled out to ensure the required clearance  $S$  mm (fig. 4) to provide required air flow according to the diagram.

## A...PR Series



### ■ Application

- For supply ventilation, air conditioning and heating.
- Designed for wall mounting or installation into false ceiling.
- Used to arrange correct air supply and circulation in premises.

### ■ Design

- Made of high quality plastic (ABS plastic or polystyrene).
- Special aerodynamic disk valve design ensures uniform air distribution.
- Smooth air pass regulation due to rotation of central part of the damper.
- Easy mounting with fixing lugs.
- The internal part has a sealing ring for more tight fit.

### ■ Grille modifications

#### A 150 PR – basic modification



- Equipped with fixing lugs for easy connection with Ø 150 mm round air ducts.
- Modification may include **F 150** flange (available upon separate order).



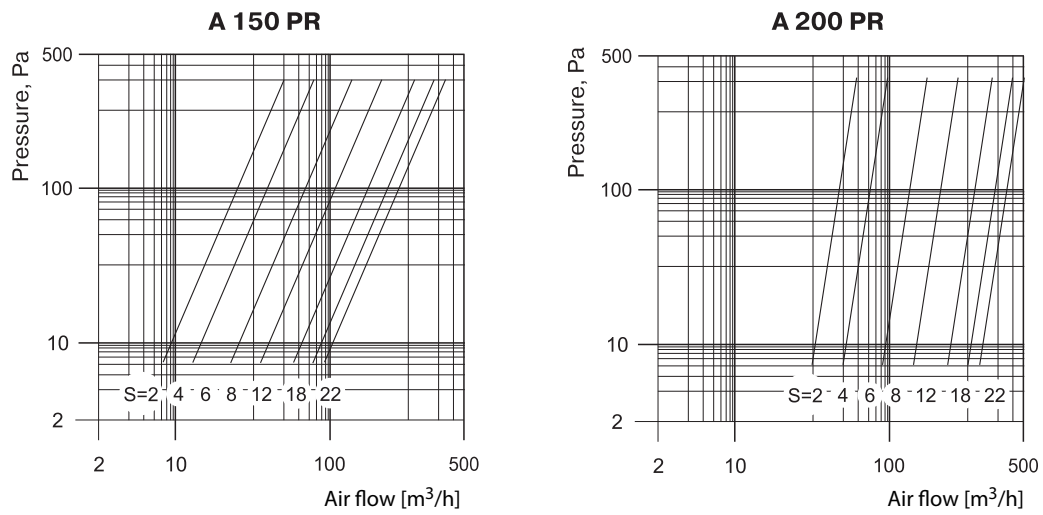
#### A 200 PR – two-element models



- Equipped with fixing lugs for easy connection with Ø 200 mm round air ducts.
- Two regulating elements for more perfect air flow distribution.
- Modification may include **F 200** flange (available upon separate order).



### ■ Technical parameters



The internal part of the air disk valve is pulled out to ensure the required clearance  $S$  (mm) to provide required air flow according to the diagram.

### ■ Overall dimensions

| Model    | Dimensions [mm] |       |     |     |       |    |    | Air pass, [m <sup>2</sup> ] | Damper normal pitch, [mm] | Fig. no. |
|----------|-----------------|-------|-----|-----|-------|----|----|-----------------------------|---------------------------|----------|
|          | D               | D1    | D2  | D3  | H max | H1 | H2 |                             |                           |          |
| A 150 PR | 150             | 125   | 155 | 200 | 80.5  | 50 | 30 | 0...0.011                   | 0...21                    | 1        |
| A 200 PR | 200             | 177.6 | 155 | 246 | 80.5  | 53 | 33 | 0...0.012                   | 0...21                    | 2        |

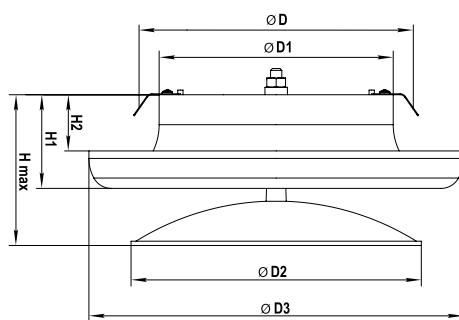


Fig. 1

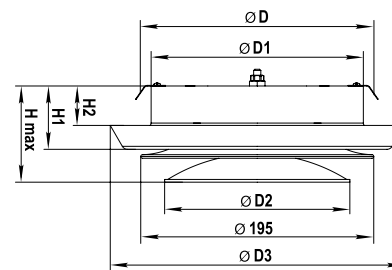


Fig. 2

## A...PRF Series



### Application

- For supply ventilation, air conditioning and heating.
- Designed for wall mounting or installation into false ceiling.
- Used to arrange correct air supply and circulation in premises.

### Design

- Made of high quality plastic (ABS plastic or polystyrene).
- Special aerodynamic disk valve design ensures uniform air distribution.
- Smooth air pass regulation due to rotation of central part of the damper.
- Easy mounting with fixing lugs.
- The internal part has a sealing ring for more tight fit.

### Grille modifications

#### A 150 PRF – models with a mounting flange



- Equipped with a mounting flange and a lock ring for easy connection to round Ø 150 mm air ducts.
- Mounting flange is fixed to false ceiling with screws.
- Lock ring provides easy fixing of the flexible air duct on a mounting flange.



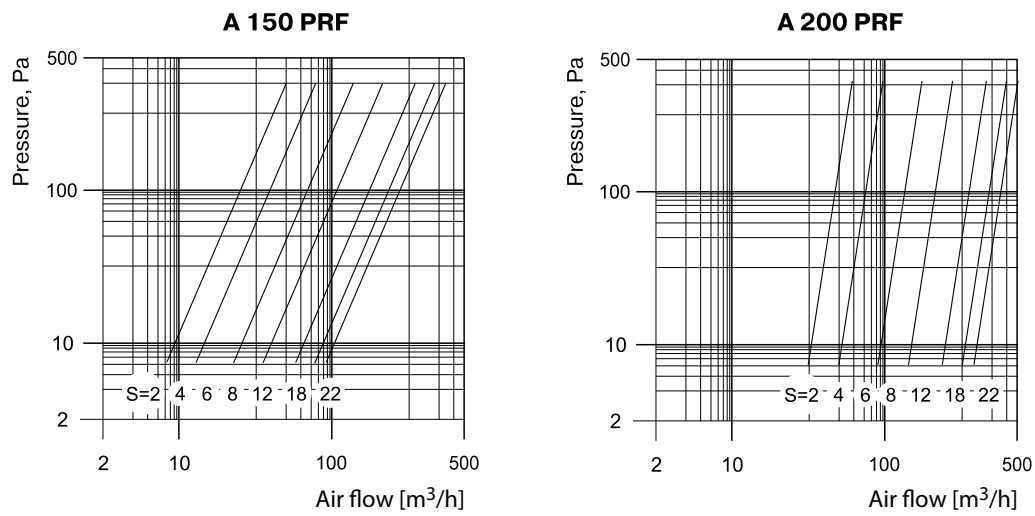
#### A 200 PRF – models with a mounting flange



- Equipped with a mounting flange and lock ring for easy connection to round Ø 200 mm air ducts.
- Two regulating elements for more perfect air flow distribution.
- Mounting flange is fixed to false ceiling with screws.
- Lock ring provides easy fixing of the flexible air duct on a mounting flange.



## ■ Technical parameters



The internal part of the air disk valve is pulled out to ensure the required clearance S (mm) to provide required air flow according to the diagram.

## ■ Overall dimensions

| Model     | Dimensions [mm] |     |     |       |    |    | Damper normal pitch, [mm] | Air pass, [m²] | Fig. no. |
|-----------|-----------------|-----|-----|-------|----|----|---------------------------|----------------|----------|
|           | D               | D1  | D2  | H max | H1 | H2 |                           |                |          |
| A 150 PRF | 150             | 155 | 200 | 80.5  | 78 | 58 | 0...21                    | 0...0.011      | 1        |
| A 200 PRF | 200             | 155 | 246 | 80.5  | 78 | 58 | 0...22                    | 0...0.012      | 2        |

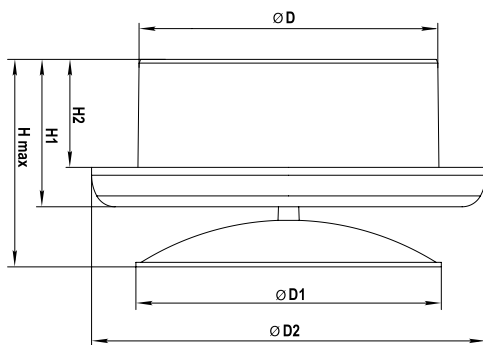


Fig. 1

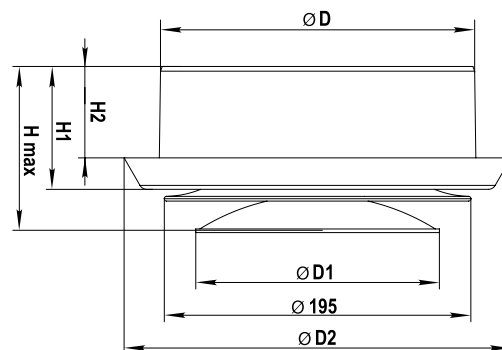


Fig. 2



## AM...PRF Series



### Application

- For supply ventilation, air conditioning and heating.
- Designed for wall mounting or installation into false ceiling.
- Used to arrange correct air supply circulation in premises.

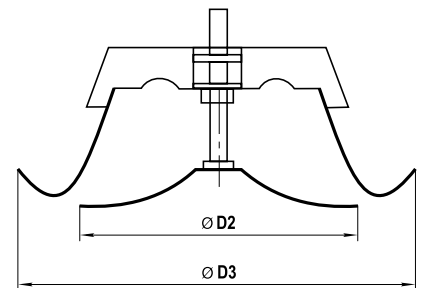
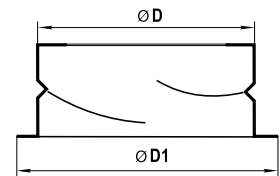
### Design

- Made of polymer-coated steel.
- Special aerodynamic disk valve design ensures uniform air distribution.
- Smooth air pass regulation due to rotation of central part of the damper.
- Equipped with a mounting flange for easy connection to round  $\varnothing$  100-200 mm air ducts.
- Mounting flange is fixed to false ceiling with screws.
- The internal part has a sealing ring for more tight fit.



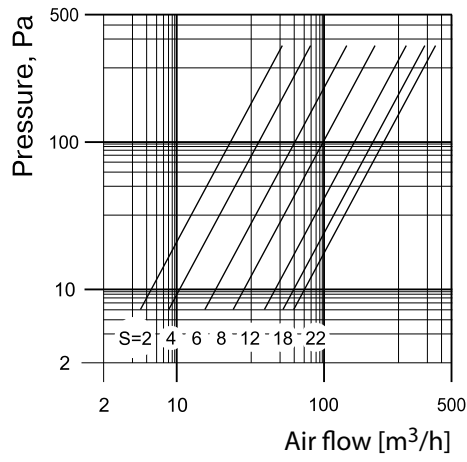
### Overall dimensions

| Model      | Dimensions [mm] |     |     |     |
|------------|-----------------|-----|-----|-----|
|            | D               | D1  | D2  | D3  |
| AM 100 PRF | 99              | 125 | 88  | 138 |
| AM 125 PRF | 124             | 150 | 112 | 167 |
| AM 150 PRF | 149             | 175 | 144 | 199 |
| AM 200 PRF | 199             | 225 | 200 | 249 |

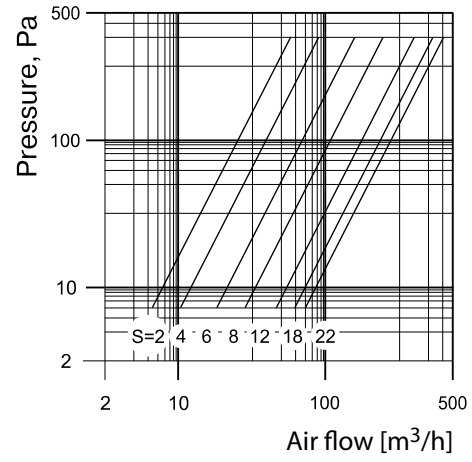


■ Technical parameters

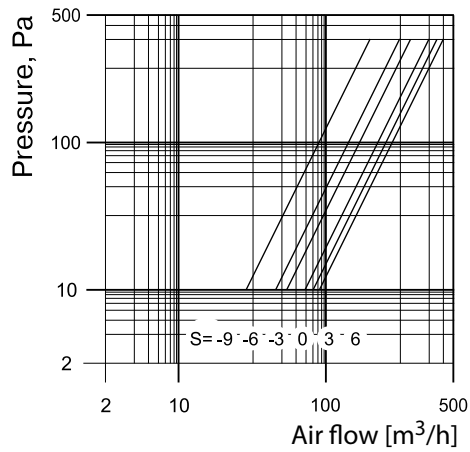
**AM 100 PRF**



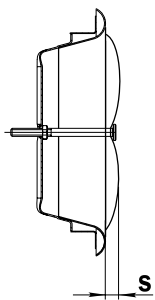
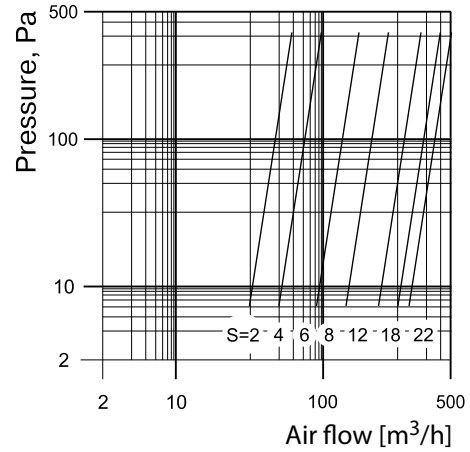
**AM 125 PRF**



**AM 150 PRF**



**AM 200 PRF**



The internal part of the air disk valve is pulled out to ensure the required clearance S (mm) to provide required air flow according to the diagram.

# SUPPLY AND EXHAUST METAL AIR DISK VALVES

## AM...VRF Series



### Application

- For supply and exhaust ventilation, air conditioning and heating.
- Mounting in false ceilings or walls.
- Used to arrange correct air circulation in premises.

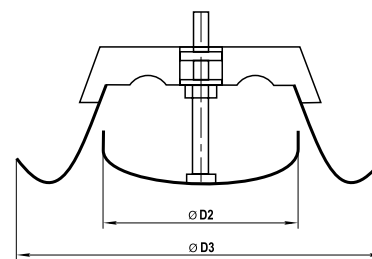
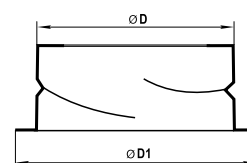
### Design

- Made of polymer-coated steel.
- Special aerodynamic disk valve design ensures uniform air distribution.
- Smooth air pass regulation due to rotation of central part of the damper.
- Equipped with a mounting flange for easy connection to round  $\varnothing$  100-200 mm air ducts.
- Mounting flange is fixed to false ceiling with screws.
- The internal part has a sealing ring for more tight fit.



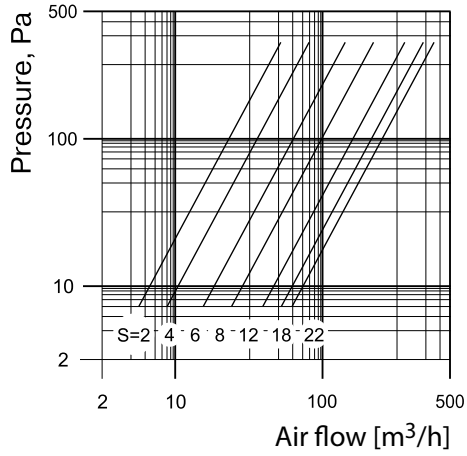
### Overall dimensions

| Model      | Dimensions [mm] |     |     |     |
|------------|-----------------|-----|-----|-----|
|            | D               | D1  | D2  | D3  |
| AM 100 VRF | 99              | 123 | 75  | 128 |
| AM 125 VRF | 124             | 152 | 100 | 154 |
| AM 150 VRF | 149             | 173 | 128 | 184 |
| AM 200 VRF | 199             | 225 | 178 | 235 |

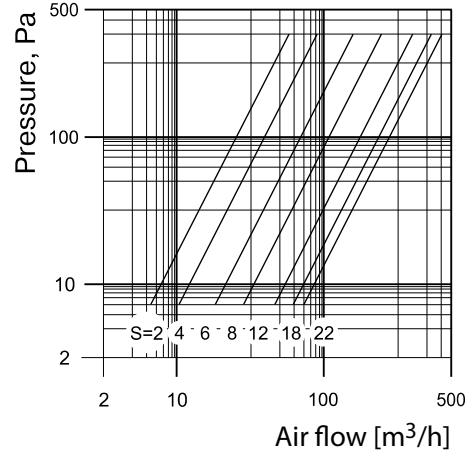


■ Technical parameters

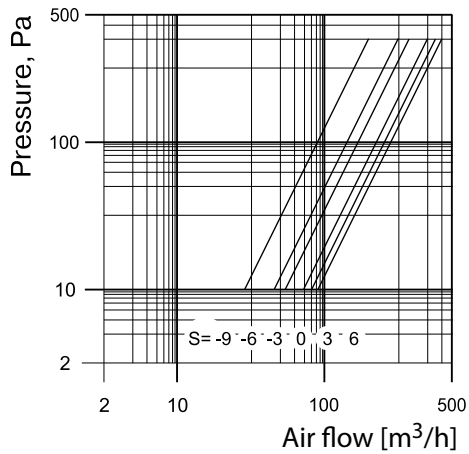
**AM 100 VRF**



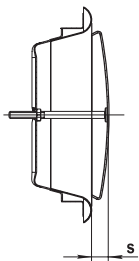
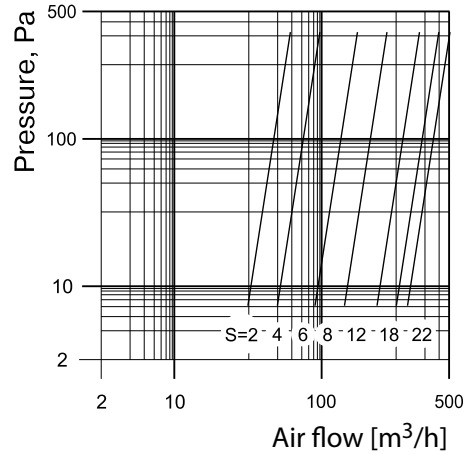
**AM 125 VRF**



**AM 150 VRF**



**AM 200 VRF**



The internal part of the air disk valve is pulled out to ensure the required clearance S (mm) to provide required air flow according to the diagram.

## AM...VRF N Series



### Application

- For supply and exhaust ventilation, air conditioning and heating.
- Mounting in false ceilings or walls.
- Used to arrange correct air circulation in premises.

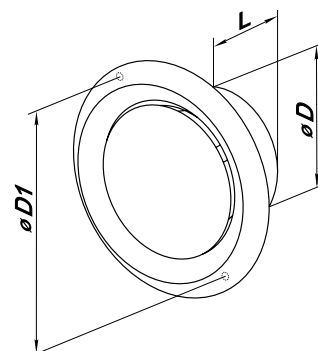
### Design

- Made of stainless steel.
- Special aerodynamic shape enables uniform air distribution.
- Smooth air flow control due to the central valve rotation.
- Equipped with a round  $\varnothing$  100, 125 or 150 mm spigot for connection to air ducts.
- Easy mounting with fixing lugs or screws.



### Overall dimensions

| Model        | Dimensions [mm] |     |    | Air pass, [m <sup>2</sup> ] |
|--------------|-----------------|-----|----|-----------------------------|
|              | D               | D1  | L  |                             |
| AM 100 VRF N | 97              | 118 | 52 | 0.0032                      |
| AM 125 VRF N | 120             | 141 | 52 | 0.0057                      |
| AM 150 VRF N | 145             | 162 | 62 | 0.0090                      |
| AM 200 VRF N | 195             | 214 | 73 | 0.0132                      |





MV...PF  
Series



■ **Application**

- For supply ventilation, air conditioning and heating.
- Designed for wall mounting or installation into false ceiling.
- Used to arrange correct air circulation in premises.

■ **Design**

- Made of high quality plastic (ABS plastic or polystyrene).
- Special aerodynamic disk valve design ensures uniform air distribution.
- Easy mounting with a mounting flange and a lock ring.
- The internal part has a sealing ring for more tight fit.
- Models with a built-in insect screen.

■ **Diffuser modifications**

MV 80 PF – MV 315 PF – basic modifications



- Equipped with mounting flanges with a lock ring for easy connection to round Ø 80-315 mm air ducts.
- **MV 80 PFs – MV 315 PFs** – models with a protecting insect screen.



MV 200/150 PF – model with Ø 150 mm reducing flange

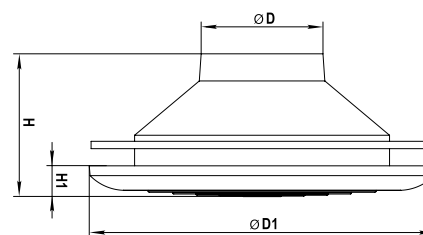
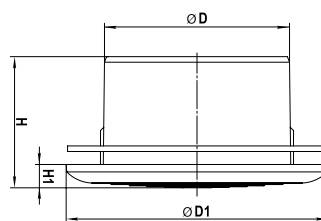


- **MV 200/150 PF** – model equipped with a reducing flange for connection to Ø 150 mm air duct.
- **MV 200/150 PFs** – model with a protecting insect screen.



■ **Overall dimensions**

| Model         | Dimensions [mm] |     |      |      | Air pass, [m <sup>2</sup> ] |
|---------------|-----------------|-----|------|------|-----------------------------|
|               | D               | D1  | H    | H1   |                             |
| MV 80 PF      | 80              | 123 | 70   | 12.5 | 0.004                       |
| MV 100 PF     | 100             | 141 | 71   | 12.5 | 0.006                       |
| MV 125 PF     | 125             | 166 | 72   | 14   | 0.010                       |
| MV 150 PF     | 150             | 188 | 72   | 15   | 0.014                       |
| MV 200 PF     | 200             | 240 | 72   | 14.5 | 0.025                       |
| MV 200/150 PF | 150             | 240 | 99   | 14.5 | 0.025                       |
| MV 250 PF     | 250             | 294 | 78   | 20.5 | 0.039                       |
| MV 315 PF     | 315             | 371 | 82.5 | 25   | 0.062                       |



# SUPPLY AND EXHAUST PLASTIC DIFFUSERS WITH LIGHT

## FL 100 Series



### Application

- For supply and exhaust ventilation and air conditioning systems.
- For synchronous ventilation and backlighting of premises.
- Designed for a wall or suspended ceiling mounting.
- The best solution for use in exhaust systems of premises with high humidity, such as bathrooms and WCs, due to safe voltage 12 V.

### Design

- Made of high quality plastic.
- The diffuser is supplied with a LED lamp with power demand from 1 to 7 W and light temperature from 3000 K (white warm) to 7000 K (white cold).
- Special aerodynamic shape ensures uniform air distribution.
- Easy mounting with a mounting flange and screws.
- External removable grille for technical maintenance and cleaning.
- Removable front panels are available in 3 colours: white, chrome and gold.
- IP rating is IPX4.

### Colour modifications



**white**

FL 100 LED



**chrome**

FL 100 LED chrome



**gold**

FL 100 LED gold

### Diffuser modifications

A model with a LED lamp 12 V/50 Hz: **FL 100 LED 3K (12 V/50 Hz)**



- A LED lamp (3 W).
- Safe lamp voltage: 12 V/50 Hz.
- Lamp cap: G5.3.
- Supplied with a terminal box.
- Available for order with lamps:
  - 3 W 3000 K – FL 100 LED 3K (12 V/50 Hz)
  - 3 W 7000 K – FL 100 LED 7K (12 V/50 Hz)
  - 4 W 7000 K – FL 100 LED4 7K (12 V/50 Hz)
  - 5 W 3000 K – FL 100 LED5 3K (12 V/50 Hz)
  - 5 W 7000 K – FL 100 LED5 7K (12 V/50 Hz)

A model with a LED lamp 12 V/50 Hz and a transformer unit 220-240/12 V: **FL-T 100 LED 3K**



- A LED lamp (3 W).
- The delivery set includes a 220-240/12 power unit for LED lamps.
- Safe lamp voltage: 12 V.
- White warm lightning colour.
- Lamp cap: G5.3.
- Supplied with a terminal box.
- Available for order with lamps:
  - 3 W 3000 K – FL-T 100 LED 3K
  - 3 W 7000 K – FL-T 100 LED 7K
  - 4 W 7000 K – FL-T 100 LED4 7K
  - 5 W 3000 K – FL-T 100 LED5 3K
  - 5 W 7000 K – FL-T 100 LED5 7K

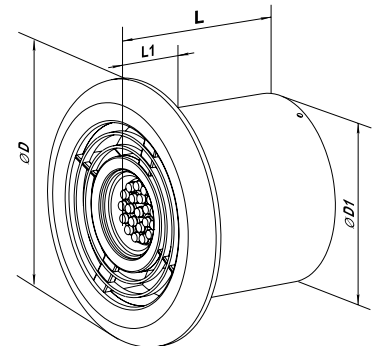
A model with a LED lamp 220-240 V/50 Hz: **FL 100 LED 3K (220-240 V/50 V)**



- A LED lamp (3 W).
- Lamp supply voltage: 220-240 V/50 Hz.
- White warm lightning colour.
- Lamp cap: GU10.
- Supplied with a terminal box.

■ Overall dimensions

| Model  | Dimensions [mm] |      |      |    | Air pass [m <sup>2</sup> ] |
|--------|-----------------|------|------|----|----------------------------|
|        | D               | D1   | L    | L1 |                            |
| FL 100 | 141             | 99.4 | 87.5 | 15 | 0.00302                    |



# SUPPLY AND EXHAUST PLASTIC DIFFUSERS WITH LIGHT

## FL2-100 Series



### Application

- For supply and exhaust ventilation and air conditioning systems.
- For synchronous ventilation and backlighting of premises.
- Designed for a wall or suspended ceiling mounting.
- The best solution for use in exhaust systems of premises with high humidity, such as bathrooms and WCs.

### Design

- Made of high quality plastic.
- The diffuser is supplied with a LED lamp with power demand from 3 to 7 W and light temperature from 3000 K (white warm) to 7000 K (white cold).
- Special aerodynamic shape ensures uniform air distribution.
- Easy mounting with a mounting flange and screws.
- External removable grille for technical maintenance and cleaning.
- IP rating is IPX4.

### Diffuser modifications

#### A model with a LED lamp 12 V/50 Hz FL2 100 LED 3K (12 V/50 Hz)

- A LED lamp (3 W).
- The delivery set includes a 100-240/12 V power unit for LED lamps.
- White warm lightning colour – 3000 K.
- Lamp cap: G5.3.
- Supplied with a terminal box.

The following modifications are available for order

| Model                          | Lamp wattage, W | Light temperature, K | Power unit | Diffuser supply voltage, V/50 Hz |
|--------------------------------|-----------------|----------------------|------------|----------------------------------|
| FL2 100 LED 3K (12 V/50 Hz)    | 3               | 3000                 | No         | 12                               |
| FL2 100 LED 7K (12 V/50 Hz)    | 3               | 7000                 | No         | 12                               |
| FL2 100 LED4 7K (12 V/50 Hz)   | 4               | 7000                 | No         | 12                               |
| FL2 100 LED4,6 4K (12 V/50 Hz) | 4.6             | 4000                 | No         | 12                               |
| FL2 100 LED5 3K (12 V/50 Hz)   | 5               | 3000                 | No         | 12                               |
| FL2 100 LED5 7K (12 V/50 Hz)   | 5               | 7000                 | No         | 12                               |

#### A model with a LED lamp and a transformer unit FL2-T 100 LED 3K

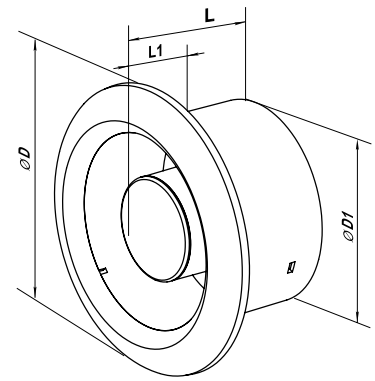
- A LED lamp (3 W).
- The delivery set includes a 100-240/12 V power unit for LED lamps.
- Safe lamp voltage: 12 V.
- White warm lightning colour – 3000 K.
- Lamp cap: G5.3.
- Supplied with a terminal box.

The following modifications are available for order

| Model                            | Lamp wattage, W | Light temperature, K | Power unit | Diffuser supply voltage, V/50 Hz |
|----------------------------------|-----------------|----------------------|------------|----------------------------------|
| FL2-T 100 LED 3K                 | 3               | 3000                 | Yes        | 220-240                          |
| FL2-T 100 LED 7K                 | 3               | 7000                 | Yes        | 220-240                          |
| FL2-T 100 LED4 7K                | 4               | 7000                 | Yes        | 220-240                          |
| FL2-T 100 LED4,6 4K              | 4.6             | 4000                 | Yes        | 220-240                          |
| FL2-T 100 LED5 3K                | 5               | 3000                 | Yes        | 220-240                          |
| FL2-T 100 LED5 7K                | 5               | 7000                 | Yes        | 220-240                          |
| FL2 100 LED 3K (220-240 V/50 Hz) | 3               | 3000                 | No         | 220-240                          |

■ Overall dimensions

| Model   | Dimensions [mm] |    |      |      | Air pass [m <sup>2</sup> ] |
|---------|-----------------|----|------|------|----------------------------|
|         | D               | D1 | L    | L1   |                            |
| FL2-100 | 140             | 97 | 73.2 | 13.2 | 0.00302                    |



■ Additional equipment



**chrome**  
FL2-100 chrome



# SUPPLY AND EXHAUST METAL GRILLES





**Supply and exhaust  
single-row metal grilles**

MVM Series  
MVMP Series

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**Supply and exhaust  
multiple-row metal grilles**

MVMP Series

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**Supply and exhaust  
slot metal grilles**

MVMP Series

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**Supply and exhaust  
single-row metal edge-raised grilles**

MVMPO Series

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**Supply and exhaust  
multiple-row metal edge-raised grilles**

MVMPO Series

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**Supply and exhaust  
metal slot edge-raised grilles**

MVMPO Series

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**Supply and exhaust  
metal regulated grilles**

MVMPO...R Series

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**Supply and exhaust regulated slot metal grilles**

MVMPO...Rr Series  
MVMPO...R Series

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**Supply and exhaust metal door grilles**

MVM Series

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**Supply and exhaust metal door grilles**

MVMP Series

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**Supply and exhaust metal door grilles**

MVMA Series

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**Supply and exhaust metal grille**

MVM-50 S A Series

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**Supply and exhaust metal grille**

MVM...bV A Series

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**Supply and exhaust metal grille**

MVM...bV N Series

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**Supply and exhaust metal grille**

MVM...b N Series

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**Supply and exhaust metal hoods**

MVM... bVs N / bV N Series








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**Exhaust gravity metal grille**

MVM...VJ N Series

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|   |   |                     |
|---|---|---------------------|
|    | <p><b>Exhaust metal hoods</b><br/>MVM...V N Series</p>                    | <p>page<br/>273</p> |
|    | <p><b>Supply and exhaust metal grille</b><br/>MVM...bVL A Series</p>      | <p>page<br/>274</p> |
|    | <p><b>Supply and exhaust metal grille</b><br/>MVM...VR N Series</p>       | <p>page<br/>275</p> |
|    | <p><b>Supply and exhaust metal grille</b><br/>MVMP...R N / R A Series</p> | <p>page<br/>276</p> |
|   | <p><b>Supply and exhaust metal grille</b><br/>MVMO...b Series</p>         | <p>page<br/>278</p> |
|  | <p><b>Supply and exhaust metal grille</b><br/>MVMO...bV Series</p>        | <p>page<br/>279</p> |
|  | <p><b>Supply and exhaust metal grille</b><br/>MVMO...bS K1 Series</p>     | <p>page<br/>281</p> |

# SUPPLY AND EXHAUST SINGLE-ROW GRILLES

## MVM Series



### Application

- Decoration of exhaust vents of public, residential and industrial ventilation systems.
- For supply ventilation and air conditioning.
- Used for correct air flow distribution in premises.
- Internal or external wall and ceiling mounting.

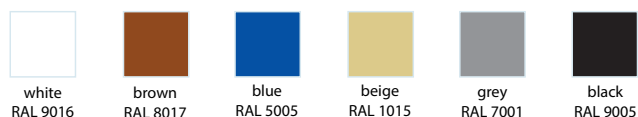
### Design

- Made of steel, galvanized steel or aluminium and are suitable for colourful polymer painting.
- Screw fixing.
- Quality materials and zinc-phosphate treatment ensure coating integrity and provide reliable corrosion protection.
- Modifications with a protecting insect screen are available.

### Modifications

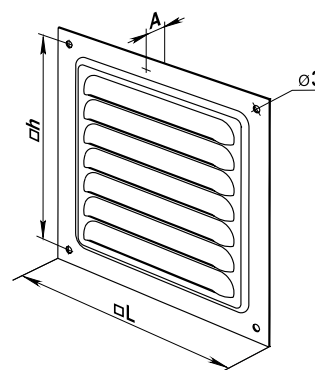
- **MVM ...** – basic steel models with white polymer coating.
- **MVM ... s** – steel models with white polymer coating and a protecting insect screen.
- **MVM ... A** – aluminium grille models with white polymer coating.
- **MVM ... s A** – aluminium models with white polymer coating and protecting insect screen.
- **MVM ... A (no/p)** – aluminium grille models.
- **MVM ... s A (no/p)** – aluminium models with a protecting insect screen.
- **MVM ... Zn** – galvanized steel grille models.
- **MVM ... s Zn** – galvanized steel models with a protecting insect screen.
- **MVM ... «colour code»** – colourful polymer painted models.

### Colour modifications



### Overall dimensions

| Model   | Dimensions [mm] |     |     | Air pass, [m <sup>2</sup> ] |
|---------|-----------------|-----|-----|-----------------------------|
|         | □L              | □h  | A   |                             |
| MVM 125 | 125             | 111 | 0.8 | 0.0035                      |
| MVM 150 | 150             | 136 | 0.8 | 0.0060                      |
| MVM 200 | 200             | 182 | 0.8 | 0.0117                      |
| MVM 250 | 250             | 234 | 0.8 | 0.0166                      |
| MVM 300 | 300             | 284 | 0.8 | 0.0249                      |





**MVMP  
Series**



**Application**

- Decoration of exhaust vents of public, residential and industrial ventilation systems.
- For ventilation, air conditioning and heating.
- Used for correct air flow distribution in premises.
- Internal or external wall and ceiling mounting.

**Design**

- Made of steel, galvanized steel or aluminium and are suitable for colourful polymer painting.
- Screw fixing.
- Quality materials and zinc-phosphate treatment ensure coating integrity and provide reliable corrosion protection.
- Modifications with a protecting insect screen are available.

**Modifications**

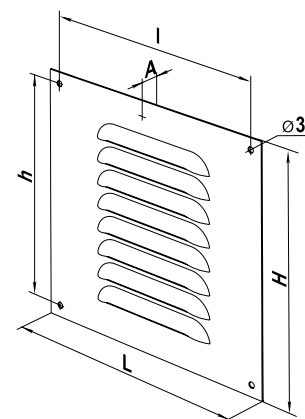
- **MVMP ...** – basic steel models with white polymer coating.
- **MVMP ...s** – steel models with white polymer coating and a protecting insect screen.
- **MVMP ... A** – aluminium grille models with white polymer coating.
- **MVMP ... s A** – aluminium models with white polymer coating and protecting insect screen.
- **MVMP ... A (no/p)** – aluminium grille models.
- **MVMP ... s A (no/p)** – aluminium models with a protecting insect screen.
- **MVMP ...Zn** – galvanized steel grille models.
- **MVMP ... s Zn** – galvanized steel models with a protecting insect screen.
- **MVMP ... «colour code»** – colourful polymer painted models.

**Colour modifications**



**Overall dimensions**

| Model        | Dimensions [mm] |     |     |     |     | Air pass, [m <sup>2</sup> ] |
|--------------|-----------------|-----|-----|-----|-----|-----------------------------|
|              | L               | H   | l   | h   | A   |                             |
| MVMP 70      | 70              | 70  | 56  | 56  | 0.8 | 0.0009                      |
| MVMP 70x140  | 70              | 140 | 56  | 126 | 0.8 | 0.0018                      |
| MVMP 100     | 100             | 100 | 86  | 86  | 0.8 | 0.0018                      |
| MVMP 100x200 | 100             | 200 | 86  | 186 | 0.8 | 0.0050                      |
| MVMP 100x300 | 100             | 300 | 86  | 288 | 0.8 | 0.0081                      |
| MVMP 125     | 125             | 125 | 111 | 111 | 0.8 | 0.0028                      |
| MVMP 130x90  | 130             | 90  | 116 | 76  | 0.8 | 0.0019                      |
| MVMP 130x170 | 130             | 170 | 116 | 156 | 0.8 | 0.0045                      |
| MVMP 140     | 140             | 140 | 126 | 126 | 0.8 | 0.0036                      |
| MVMP 150     | 150             | 150 | 136 | 136 | 0.8 | 0.0036                      |
| MVMP 150x200 | 150             | 200 | 136 | 186 | 0.8 | 0.0054                      |
| MVMP 150x210 | 150             | 210 | 136 | 196 | 0.8 | 0.0054                      |
| MVMP 150x215 | 150             | 215 | 136 | 201 | 0.8 | 0.0059                      |
| MVMP 150x250 | 150             | 250 | 136 | 236 | 0.8 | 0.0069                      |
| MVMP 150x300 | 150             | 300 | 136 | 286 | 0.8 | 0.0081                      |
| MVMP 150x350 | 150             | 350 | 136 | 336 | 0.8 | 0.0096                      |
| MVMP 155     | 155             | 155 | 141 | 141 | 0.8 | 0.0044                      |
| MVMP 170     | 170             | 170 | 156 | 156 | 0.8 | 0.0053                      |
| MVMP 175     | 175             | 175 | 161 | 161 | 0.8 | 0.0045                      |
| MVMP 175x250 | 175             | 250 | 161 | 236 | 0.8 | 0.0068                      |
| MVMP 180x90  | 180             | 90  | 166 | 76  | 0.8 | 0.0030                      |
| MVMP 180x250 | 180             | 250 | 166 | 236 | 0.8 | 0.0083                      |
| MVMP 190x170 | 190             | 170 | 176 | 156 | 0.8 | 0.0059                      |



# SUPPLY AND EXHAUST MULTIPLE-ROW METAL GRILLES

## MVMP Series



### Application

- Decoration of exhaust vents of public, residential and industrial ventilation systems.
- For ventilation, air conditioning and heating.
- Used for correct air flow distribution in premises.
- Internal or external wall and ceiling mounting.

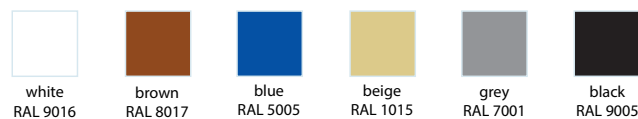
### Design

- Made of polymer-coated, galvanized steel or aluminium.
- Screw fixing.
- Quality materials and zinc-phosphate treatment ensure coating integrity and provide reliable corrosion protection.
- Modifications with a protecting insect screen are available.

### Modifications

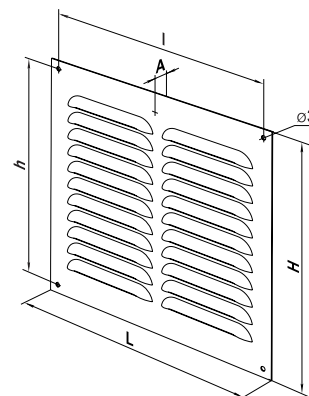
- **MVMP ...** – basic steel models with white polymer coating.
- **MVMP ... s** – steel models with white polymer coating and a protecting insect screen.
- **MVMP ... A** – aluminium grille models with white polymer coating.
- **MVMP ... s A** – aluminium models with white polymer coating and protecting insect screen.
- **MVMP ... A (no/p)** – aluminium grille models.
- **MVMP ... s A (no/p)** – aluminium models with a protecting insect screen.
- **MVMP ... Zn** – galvanized steel grille models.
- **MVMP ... s Zn** – galvanized steel models with a protecting insect screen.
- **MVMP ... «colour code»** – colourful polymer painted models.

### Colour modifications

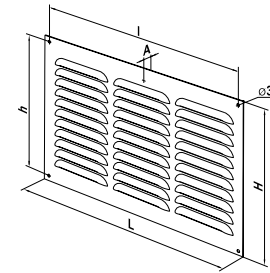


### Overall dimensions

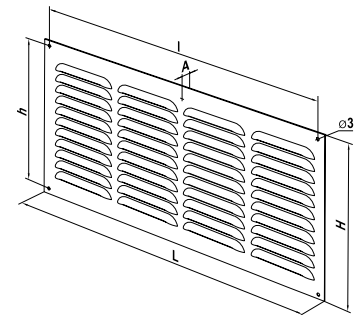
| Model          | Dimensions [mm] |     |     |     |     | Air pass, [m <sup>2</sup> ] | Number of rows |
|----------------|-----------------|-----|-----|-----|-----|-----------------------------|----------------|
|                | L               | H   | l   | h   | A   |                             |                |
| MVMP 195/2     | 195             | 195 | 181 | 181 | 0.8 | 0.0070                      | 2              |
| MVMP 195x245/2 | 195             | 245 | 181 | 231 | 0.8 | 0.0088                      | 2              |
| MVMP 200x100/2 | 200             | 100 | 186 | 186 | 0.8 | 0.0036                      | 2              |
| MVMP 200/2     | 200             | 200 | 186 | 186 | 0.8 | 0.0099                      | 2              |
| MVMP 200x250/2 | 200             | 250 | 186 | 238 | 0.8 | 0.0093                      | 2              |
| MVMP 200x300/2 | 200             | 300 | 186 | 286 | 0.8 | 0.0162                      | 2              |
| MVMP 200x350/2 | 200             | 350 | 186 | 336 | 0.8 | 0.0129                      | 2              |
| MVMP 200x405/2 | 200             | 405 | 186 | 391 | 0.8 | 0.0149                      | 2              |
| MVMP 215x150/2 | 215             | 150 | 201 | 136 | 0.8 | 0.0059                      | 2              |
| MVMP 240/2     | 240             | 240 | 226 | 226 | 0.8 | 0.0126                      | 2              |
| MVMP 240x140/2 | 240             | 140 | 226 | 126 | 0.8 | 0.0063                      | 2              |
| MVMP 240x190/2 | 240             | 190 | 226 | 176 | 0.8 | 0.0099                      | 2              |
| MVMP 245x195/2 | 245             | 195 | 231 | 181 | 0.8 | 0.0088                      | 2              |
| MVMP 250/2     | 250             | 250 | 236 | 236 | 0.8 | 0.0135                      | 2              |
| MVMP 250x80/2  | 250             | 80  | 236 | 66  | 0.8 | 0.0037                      | 2              |
| MVMP 250x110/2 | 250             | 110 | 236 | 96  | 0.8 | 0.0051                      | 2              |
| MVMP 250x140/2 | 250             | 140 | 236 | 126 | 0.8 | 0.0064                      | 2              |
| MVMP 250x150/2 | 250             | 150 | 236 | 136 | 0.8 | 0.0069                      | 2              |
| MVMP 250x170/2 | 250             | 170 | 236 | 156 | 0.8 | 0.0078                      | 2              |
| MVMP 250x200/2 | 250             | 200 | 236 | 186 | 0.8 | 0.0092                      | 2              |
| MVMP 250x300/2 | 250             | 300 | 236 | 286 | 0.8 | 0.0171                      | 2              |
| MVMP 250x350/2 | 250             | 350 | 236 | 336 | 0.8 | 0.0161                      | 2              |
| MVMP 250x400/2 | 250             | 400 | 236 | 386 | 0.8 | 0.0184                      | 2              |
| MVMP 250x450/2 | 250             | 450 | 236 | 436 | 0.8 | 0.0207                      | 2              |
| MVMP 250x500/2 | 250             | 500 | 236 | 486 | 0.8 | 0.0230                      | 2              |



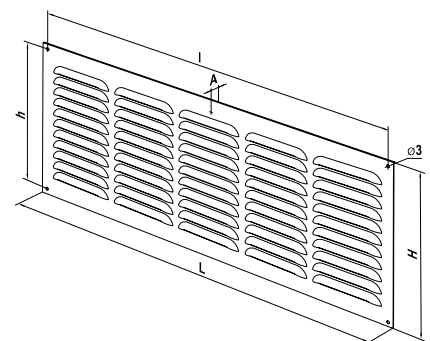
| Model          | Dimensions [mm] |     |     |     |     | Air pass, [m <sup>2</sup> ] | Number of rows |
|----------------|-----------------|-----|-----|-----|-----|-----------------------------|----------------|
|                | L               | H   | l   | h   | A   |                             |                |
| MVMP 300x100/3 | 300             | 100 | 286 | 86  | 0.8 | 0.0054                      | 3              |
| MVMP 300x210/3 | 300             | 210 | 286 | 196 | 0.8 | 0.0162                      | 3              |
| MVMP 300x250/3 | 300             | 250 | 286 | 236 | 0.8 | 0.0189                      | 3              |
| MVMP 300x290/3 | 300             | 290 | 286 | 276 | 0.8 | 0.0230                      | 3              |
| MVMP 300/3     | 300             | 300 | 286 | 286 | 0.8 | 0.0243                      | 3              |
| MVMP 305x150/3 | 305             | 150 | 291 | 136 | 0.8 | 0.0084                      | 3              |
| MVMP 305x200/3 | 305             | 200 | 291 | 186 | 0.8 | 0.0112                      | 3              |
| MVMP 305x250/3 | 305             | 250 | 291 | 236 | 0.8 | 0.0140                      | 3              |
| MVMP 305x300/3 | 305             | 300 | 291 | 286 | 0.8 | 0.0168                      | 3              |
| MVMP 305x350/3 | 305             | 350 | 291 | 336 | 0.8 | 0.0196                      | 3              |
| MVMP 305x400/3 | 305             | 400 | 291 | 386 | 0.8 | 0.0224                      | 3              |
| MVMP 305x450/3 | 305             | 450 | 291 | 436 | 0.8 | 0.0252                      | 3              |
| MVMP 305x500/3 | 305             | 500 | 291 | 486 | 0.8 | 0.0280                      | 3              |
| MVMP 350x150/3 | 350             | 150 | 336 | 136 | 0.8 | 0.0096                      | 3              |
| MVMP 350x200/3 | 350             | 200 | 336 | 186 | 0.8 | 0.0129                      | 3              |
| MVMP 350x250/3 | 350             | 250 | 336 | 236 | 0.8 | 0.0161                      | 3              |
| MVMP 350x300/3 | 350             | 300 | 336 | 286 | 0.8 | 0.0193                      | 3              |
| MVMP 350/3     | 350             | 350 | 336 | 336 | 0.8 | 0.0225                      | 3              |
| MVMP 350x400/3 | 350             | 400 | 336 | 386 | 0.8 | 0.0257                      | 3              |
| MVMP 350x450/3 | 350             | 450 | 336 | 436 | 0.8 | 0.0289                      | 3              |
| MVMP 350x500/3 | 350             | 500 | 336 | 486 | 0.8 | 0.0321                      | 3              |
| MVMP 360x140/3 | 360             | 140 | 346 | 126 | 0.8 | 0.0093                      | 3              |
| MVMP 360x180/3 | 360             | 180 | 346 | 166 | 0.8 | 0.0119                      | 3              |



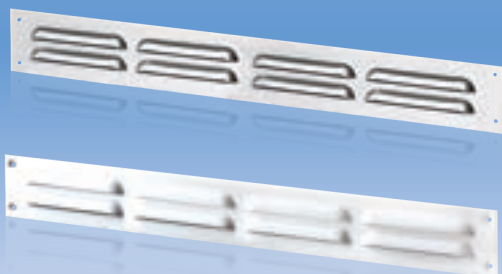
| Model          | Dimensions [mm] |     |     |     |     | Air pass, [m <sup>2</sup> ] | Number of rows |
|----------------|-----------------|-----|-----|-----|-----|-----------------------------|----------------|
|                | L               | H   | l   | h   | A   |                             |                |
| MVMP 400x200/4 | 400             | 200 | 386 | 186 | 0.8 | 0.0147                      | 4              |
| MVMP 400x250/4 | 400             | 250 | 436 | 236 | 0.8 | 0.0184                      | 4              |
| MVMP 400x300/4 | 400             | 300 | 386 | 286 | 0.8 | 0.0324                      | 4              |
| MVMP 400x350/4 | 400             | 350 | 386 | 336 | 0.8 | 0.0257                      | 4              |
| MVMP 400/4     | 400             | 400 | 386 | 386 | 0.8 | 0.0294                      | 4              |
| MVMP 400x450/4 | 400             | 450 | 386 | 436 | 0.8 | 0.0331                      | 4              |
| MVMP 400x500/4 | 400             | 500 | 386 | 486 | 0.8 | 0.0367                      | 4              |
| MVMP 450x250/4 | 450             | 250 | 436 | 236 | 0.8 | 0.0207                      | 4              |
| MVMP 450x300/4 | 450             | 300 | 436 | 286 | 0.8 | 0.0248                      | 4              |
| MVMP 450x350/4 | 450             | 350 | 436 | 336 | 0.8 | 0.0289                      | 4              |
| MVMP 450x400/4 | 450             | 400 | 436 | 386 | 0.8 | 0.0331                      | 4              |
| MVMP 450/4     | 450             | 450 | 436 | 436 | 0.8 | 0.0372                      | 4              |
| MVMP 450x500/4 | 450             | 500 | 436 | 486 | 0.8 | 0.0413                      | 4              |



| Model          | Dimensions [mm] |     |     |     |     | Air pass, [m <sup>2</sup> ] | Number of rows |
|----------------|-----------------|-----|-----|-----|-----|-----------------------------|----------------|
|                | L               | H   | l   | h   | A   |                             |                |
| MVMP 500x250/5 | 500             | 250 | 486 | 236 | 0.8 | 0.0236                      | 5              |
| MVMP 500x300/5 | 500             | 300 | 486 | 286 | 0.8 | 0.0276                      | 5              |
| MVMP 500x350/5 | 500             | 350 | 486 | 336 | 0.8 | 0.0321                      | 5              |
| MVMP 500x400/5 | 500             | 400 | 486 | 386 | 0.8 | 0.0367                      | 5              |
| MVMP 500x450/5 | 500             | 450 | 486 | 436 | 0.8 | 0.0413                      | 5              |
| MVMP 500/5     | 500             | 500 | 486 | 486 | 0.8 | 0.0459                      | 5              |



## MVMP Series



### Application

- Decoration of exhaust vents of public, residential and industrial ventilation systems.
- For ventilation, air conditioning and heating.
- Used for correct air flow distribution in premises.
- Internal or external wall and ceiling mounting.

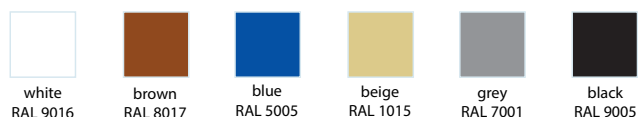
### Design

- Made of steel, galvanized steel or aluminium and are suitable for colourful polymer painting.
- Screw fixing.
- Quality materials and zinc-phosphate treatment ensure coating integrity and provide reliable corrosion protection.
- Modifications with a protecting insect screen are available.

### Modifications

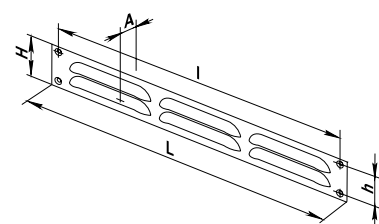
- **MVMP ...** – basic steel models with white polymer coating.
- **MVMP ... s** – steel models with white polymer coating and a protecting insect screen.
- **MVMP ... A** – aluminium grille models with white polymer coating.
- **MVMP ... s A** – aluminium models with white polymer coating and protecting insect screen.
- **MVMP ... A (no/p)** – aluminium grille models.
- **MVMP ... s A (no/p)** – aluminium models with a protecting insect screen.
- **MVMP ... Zn** – galvanized steel grille models.
- **MVMP ... s Zn** – galvanized steel models with a protecting insect screen.
- **MVMP ... «colour code»** – colourful polymer painted models.

### Colour modifications



### Overall dimensions

| Model          | Dimensions [mm] |     |     |    |     | Air pass, [m <sup>2</sup> ] | Number of sections |
|----------------|-----------------|-----|-----|----|-----|-----------------------------|--------------------|
|                | L               | H   | l   | h  | A   |                             |                    |
| MVMP 305x40/3  | 305             | 40  | 291 | 26 | 0.8 | 0.0022                      | 3                  |
| MVMP 305x90/3  | 305             | 90  | 291 | 76 | 0.8 | 0.0050                      | 3                  |
| MVMP 305x100/3 | 305             | 100 | 291 | 86 | 0.8 | 0.0056                      | 3                  |
| MVMP 370x40/3  | 370             | 40  | 356 | 26 | 0.8 | 0.0027                      | 3                  |
| MVMP 400x40/4  | 400             | 40  | 386 | 26 | 0.8 | 0.0029                      | 4                  |
| MVMP 475x85/4  | 475             | 85  | 461 | 71 | 0.8 | 0.0074                      | 4                  |
| MVMP 495x63/4  | 495             | 63  | 481 | 49 | 0.8 | 0.0057                      | 4                  |
| MVMP 500x40/5  | 500             | 40  | 486 | 26 | 0.8 | 0.0037                      | 5                  |
| MVMP 500x60/5  | 500             | 60  | 486 | 46 | 0.8 | 0.0055                      | 5                  |
| MVMP 500x90/5  | 500             | 90  | 486 | 76 | 0.8 | 0.0083                      | 5                  |
| MVMP 650x70/7  | 650             | 70  | 636 | 56 | 0.8 | 0.0084                      | 7                  |
| MVMP 650x100/7 | 650             | 100 | 636 | 86 | 0.8 | 0.0119                      | 7                  |



**MVMPO**  
Series



**Application**

- Decoration of exhaust vents of public, residential and industrial ventilation systems.
- For ventilation, air conditioning and heating.
- Used for correct air flow distribution in premises.
- Internal or external wall and ceiling mounting.

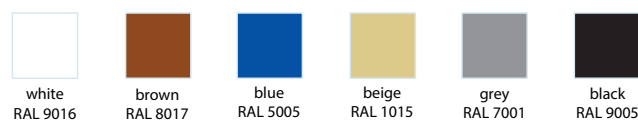
**Design**

- Made of steel, galvanized steel or aluminium and are suitable for colourful polymer painting.
- Edge-raised grille design.
- Screw fixing.
- Quality materials and zinc-phosphate treatment ensure coating integrity and provide reliable corrosion protection.
- Modifications with a protecting insect screen are available.

**Modifications**

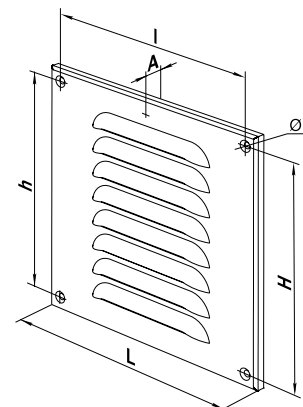
- **MVMPO ...** – basic steel models with white polymer coating.
- **MVMPO ... s** – steel models with white polymer coating and a protecting insect screen.
- **MVMPO ... A** – aluminium grille models with white polymer coating.
- **MVMPO ... s A** – aluminium models with white polymer coating and protecting insect screen.
- **MVMPO ... A (no/p)** – aluminium grille models.
- **MVMPO ... s A (no/p)** – aluminium models with a protecting insect screen.
- **MVMPO ... Zn** – galvanized steel grille models.
- **MVMPO ... s Zn** – galvanized steel models with a protecting insect screen.
- **MVMPO ... «colour code»** – colourful polymer painted models.

**Colour modifications**



**Overall dimensions**

| Model         | Dimensions [mm] |     |     |     |     | Air pass, [m <sup>2</sup> ] |
|---------------|-----------------|-----|-----|-----|-----|-----------------------------|
|               | L               | H   | l   | h   | A   |                             |
| MVMPO 70x140  | 70              | 140 | 56  | 126 | 5.5 | 0.0018                      |
| MVMPO 100     | 100             | 100 | 86  | 86  | 5.5 | 0.0018                      |
| MVMPO 100x200 | 100             | 200 | 86  | 186 | 5.5 | 0.0050                      |
| MVMPO 100x300 | 100             | 302 | 86  | 288 | 5.5 | 0.0086                      |
| MVMPO 125     | 125             | 125 | 111 | 111 | 5.5 | 0.0033                      |
| MVMPO 130x170 | 130             | 170 | 116 | 156 | 5.5 | 0.0045                      |
| MVMPO 130x90  | 130             | 90  | 116 | 76  | 5.5 | 0.0018                      |
| MVMPO 140     | 140             | 140 | 126 | 126 | 5.5 | 0.0036                      |
| MVMPO 140x180 | 140             | 180 | 126 | 166 | 5.5 | 0.0045                      |
| MVMPO 140x240 | 140             | 240 | 126 | 226 | 5.5 | 0.0063                      |
| MVMPO 150     | 150             | 150 | 136 | 136 | 5.5 | 0.0036                      |
| MVMPO 150x210 | 150             | 210 | 136 | 196 | 5.5 | 0.0054                      |
| MVMPO 150x215 | 150             | 215 | 136 | 201 | 5.5 | 0.0059                      |
| MVMPO 155     | 155             | 155 | 141 | 141 | 5.5 | 0.0041                      |





# SUPPLY AND EXHAUST MULTIPLE-ROW EDGE-RAISED METAL GRILLES

## MVMPO Series



### Colour modifications



### Application

- Decoration of exhaust vents of public, residential and industrial ventilation systems.
- For ventilation, air conditioning and heating.
- Used for correct air flow distribution in premises.
- Internal or external wall and ceiling mounting.

### Design

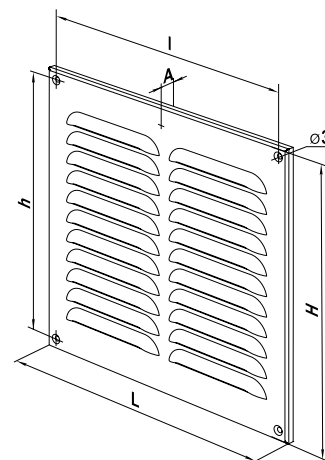
- Made of steel, galvanized steel or aluminium and are suitable for colourful polymer painting.
- Edge-raised grille design.
- Screw fixing.
- Quality materials and zinc-phosphate treatment ensure coating integrity and provide reliable corrosion protection.
- Modifications with a protecting insect screen are available.

### Modifications

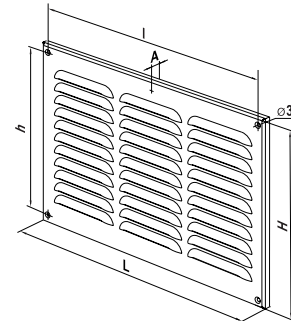
- **MVMPO ...** – basic steel models with white polymer coating.
- **MVMPO ... A** – aluminium grille models with white polymer coating.
- **MVMPO ... s A** – aluminium models with white polymer coating and protecting insect screen.
- **MVMPO ... A (no/p)** – aluminium grille models.
- **MVMPO ... s A (no/p)** – aluminium models with a protecting insect screen.
- **MVMPO ... Zn** – galvanized steel grille models.
- **MVMPO ... s** – steel models with white polymer coating and a protecting insect screen.
- **MVMPO ... s Zn** – galvanized steel models with a protecting insect screen.
- **MVMPO «colour code»** – colourful polymer painted models.

### Overall dimensions

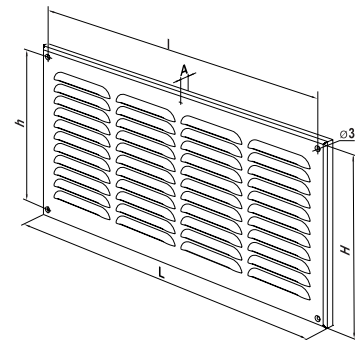
| Model           | Dimensions [mm] |     |     |     |     | Air pass, [m <sup>2</sup> ] | Number of rows |
|-----------------|-----------------|-----|-----|-----|-----|-----------------------------|----------------|
|                 | L               | H   | l   | h   | A   |                             |                |
| MVMPO 150x250/2 | 150             | 250 | 136 | 236 | 5.5 | 0.0068                      | 2              |
| MVMPO 150x350/2 | 150             | 350 | 136 | 336 | 5.5 | 0.0104                      | 2              |
| MVMPO 180x250/2 | 180             | 250 | 166 | 236 | 5.5 | 0.0068                      | 2              |
| MVMPO 195x245/2 | 195             | 245 | 181 | 231 | 5.5 | 0.0135                      | 2              |
| MVMPO 200/2     | 200             | 200 | 186 | 186 | 5.5 | 0.0099                      | 2              |
| MVMPO 200x100/2 | 200             | 100 | 186 | 86  | 5.5 | 0.0036                      | 2              |
| MVMPO 200x250/2 | 200             | 252 | 186 | 238 | 5.5 | 0.0135                      | 2              |
| MVMPO 200x300/2 | 200             | 300 | 186 | 286 | 5.5 | 0.0162                      | 2              |
| MVMPO 200x350/2 | 200             | 350 | 186 | 336 | 5.5 | 0.0199                      | 2              |
| MVMPO 200x405/2 | 200             | 405 | 186 | 391 | 5.5 | 0.0235                      | 2              |
| MVMPO 215x150/2 | 215             | 150 | 201 | 136 | 5.5 | 0.0072                      | 2              |
| MVMPO 225x150/2 | 225             | 150 | 211 | 136 | 5.5 | 0.0072                      | 2              |
| MVMPO 225/2     | 225             | 225 | 211 | 211 | 5.5 | 0.0117                      | 2              |
| MVMPO 240/2     | 240             | 240 | 226 | 226 | 5.5 | 0.0126                      | 2              |
| MVMPO 240x165/2 | 240             | 165 | 226 | 151 | 5.5 | 0.0081                      | 2              |
| MVMPO 240x195/2 | 240             | 195 | 231 | 181 | 5.5 | 0.0099                      | 2              |
| MVMPO 250/2     | 250             | 250 | 236 | 236 | 5.5 | 0.0135                      | 2              |
| MVMPO 250x110/2 | 250             | 110 | 236 | 96  | 5.5 | 0.0045                      | 2              |
| MVMPO 250x140/2 | 250             | 140 | 236 | 126 | 5.5 | 0.0072                      | 2              |
| MVMPO 250x150/2 | 250             | 150 | 236 | 136 | 5.5 | 0.0072                      | 2              |
| MVMPO 250x170/2 | 250             | 170 | 236 | 156 | 5.5 | 0.0090                      | 2              |
| MVMPO 250x200/2 | 250             | 200 | 236 | 186 | 5.5 | 0.0108                      | 2              |
| MVMPO 250x300/2 | 250             | 300 | 236 | 286 | 5.5 | 0.0162                      | 2              |
| MVMPO 250x350/2 | 250             | 350 | 236 | 336 | 5.5 | 0.0208                      | 2              |
| MVMPO 250x400/2 | 250             | 400 | 236 | 386 | 5.5 | 0.0235                      | 2              |
| MVMPO 250x450/2 | 250             | 450 | 236 | 436 | 5.5 | 0.0271                      | 2              |
| MVMPO 250x500/2 | 250             | 500 | 236 | 486 | 5.5 | 0.0298                      | 2              |



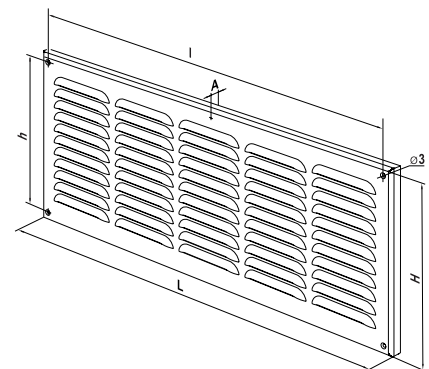
| Model           | Dimensions [mm] |     |     |     |     | Air pass, [m <sup>2</sup> ] | Number of rows |
|-----------------|-----------------|-----|-----|-----|-----|-----------------------------|----------------|
|                 | L               | H   | l   | h   | A   |                             |                |
| MVMPO 300/3     | 300             | 300 | 286 | 286 | 5.5 | 0.0243                      | 3              |
| MVMPO 305x100/3 | 305             | 100 | 291 | 86  | 5.5 | 0.0068                      | 3              |
| MVMPO 305x150/3 | 305             | 150 | 291 | 136 | 5.5 | 0.0108                      | 3              |
| MVMPO 305x350/3 | 305             | 350 | 291 | 336 | 5.5 | 0.0311                      | 3              |
| MVMPO 305x400/3 | 305             | 400 | 291 | 386 | 5.5 | 0.0352                      | 3              |
| MVMPO 305x450/3 | 305             | 450 | 291 | 436 | 5.5 | 0.0406                      | 3              |
| MVMPO 305x500/3 | 305             | 500 | 291 | 486 | 5.5 | 0.0447                      | 3              |
| MVMPO 350x200/3 | 350             | 200 | 336 | 186 | 5.5 | 0.0162                      | 3              |
| MVMPO 350x250/3 | 350             | 250 | 336 | 236 | 5.5 | 0.0203                      | 3              |
| MVMPO 350x300/3 | 350             | 300 | 336 | 286 | 5.5 | 0.0257                      | 3              |
| MVMPO 350/3     | 350             | 350 | 336 | 336 | 5.5 | 0.0311                      | 3              |
| MVMPO 350x400/3 | 350             | 400 | 336 | 386 | 5.5 | 0.0352                      | 3              |
| MVMPO 350x450/3 | 350             | 450 | 336 | 436 | 5.5 | 0.0406                      | 3              |
| MVMPO 350x500/3 | 350             | 500 | 336 | 486 | 5.5 | 0.0447                      | 3              |
| MVMPO 360x140/3 | 360             | 140 | 346 | 126 | 5.5 | 0.0108                      | 3              |
| MVMPO 360x180/3 | 360             | 180 | 346 | 166 | 5.5 | 0.0135                      | 3              |



| Model           | Dimensions [mm] |     |     |     |     | Air pass, [m <sup>2</sup> ] | Number of rows |
|-----------------|-----------------|-----|-----|-----|-----|-----------------------------|----------------|
|                 | L               | H   | l   | h   | A   |                             |                |
| MVMPO 400/4     | 400             | 400 | 386 | 386 | 5.5 | 0.0270                      | 4              |
| MVMPO 400x200/4 | 400             | 200 | 386 | 186 | 5.5 | 0.0217                      | 4              |
| MVMPO 400x250/4 | 400             | 250 | 386 | 236 | 5.5 | 0.0468                      | 4              |
| MVMPO 400x300/4 | 400             | 300 | 386 | 286 | 5.5 | 0.0325                      | 4              |
| MVMPO 400x350/4 | 400             | 350 | 386 | 336 | 5.5 | 0.0415                      | 4              |
| MVMPO 400x450/4 | 400             | 450 | 386 | 436 | 5.5 | 0.0541                      | 4              |
| MVMPO 400x500/4 | 400             | 500 | 386 | 486 | 5.5 | 0.0596                      | 4              |
| MVMPO 450x250/4 | 450             | 250 | 436 | 236 | 5.5 | 0.0271                      | 4              |
| MVMPO 450x300/4 | 450             | 300 | 436 | 286 | 5.5 | 0.0343                      | 4              |
| MVMPO 450x350/4 | 450             | 350 | 436 | 336 | 5.5 | 0.0415                      | 4              |
| MVMPO 450x400/4 | 450             | 400 | 436 | 386 | 5.5 | 0.0469                      | 4              |
| MVMPO 450/4     | 450             | 450 | 436 | 436 | 5.5 | 0.0541                      | 4              |
| MVMPO 450x500/4 | 450             | 500 | 436 | 486 | 5.5 | 0.0596                      | 4              |



| Model           | Dimensions [mm] |     |     |     |     | Air pass, [m <sup>2</sup> ] | Number of rows |
|-----------------|-----------------|-----|-----|-----|-----|-----------------------------|----------------|
|                 | L               | H   | l   | h   | A   |                             |                |
| MVMPO 500x250/5 | 500             | 250 | 486 | 236 | 5.5 | 0.0338                      | 5              |
| MVMPO 500x300/5 | 500             | 300 | 486 | 286 | 5.5 | 0.0429                      | 5              |
| MVMPO 500x350/5 | 500             | 350 | 486 | 336 | 5.5 | 0.0519                      | 5              |
| MVMPO 500x400/5 | 500             | 400 | 486 | 386 | 5.5 | 0.0587                      | 5              |
| MVMPO 500x450/5 | 500             | 450 | 486 | 436 | 5.5 | 0.0677                      | 5              |

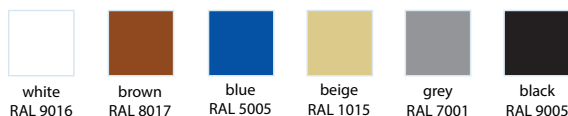


# SUPPLY AND EXHAUST EDGE-RAISED SLOT METAL GRILLES

## MVMPO Series



### Colour modifications



### Overall dimensions

| Model           | Dimensions [mm] |     |     |    |     | Air pass, [m <sup>2</sup> ] | Number of sections |
|-----------------|-----------------|-----|-----|----|-----|-----------------------------|--------------------|
|                 | L               | H   | l   | h  | A   |                             |                    |
| MVMPO 225x75/2  | 225             | 75  | 211 | 61 | 5.5 | 0.0027                      | 2                  |
| MVMPO 250x80/2  | 250             | 80  | 236 | 66 | 5.5 | 0.0027                      | 2                  |
| MVMPO 300x75/3  | 300             | 75  | 286 | 61 | 5.5 | 0.0041                      | 3                  |
| MVMPO 305x40/3  | 305             | 40  | 291 | 26 | 5.5 | 0.0014                      | 3                  |
| MVMPO 305x90/3  | 305             | 90  | 291 | 76 | 5.5 | 0.0054                      | 3                  |
| MVMPO 370x40/3  | 370             | 43  | 352 | 22 | 5.5 | 0.0027                      | 3                  |
| MVMPO 380x40/4  | 380             | 43  | 366 | 29 | 5.5 | 0.0054                      | 4                  |
| MVMPO 400x40/4  | 400             | 40  | 386 | 26 | 5.5 | 0.0018                      | 4                  |
| MVMPO 400x80/4  | 400             | 80  | 386 | 66 | 5.5 | 0.0072                      | 4                  |
| MVMPO 475x85/5  | 475             | 85  | 461 | 71 | 5.5 | 0.0068                      | 5                  |
| MVMPO 500x40/5  | 500             | 40  | 488 | 22 | 5.5 | 0.0045                      | 5                  |
| MVMPO 500x60/5  | 500             | 60  | 486 | 46 | 5.5 | 0.0045                      | 5                  |
| MVMPO 500x90/5  | 500             | 90  | 486 | 76 | 5.5 | 0.0090                      | 5                  |
| MVMPO 650x60/6  | 650             | 60  | 636 | 46 | 5.5 | 0.0063                      | 6                  |
| MVMPO 650x65/6  | 650             | 65  | 632 | 47 | 5.5 | 0.0081                      | 6                  |
| MVMPO 650x70/6  | 650             | 70  | 636 | 56 | 5.5 | 0.0081                      | 6                  |
| MVMPO 650x100/6 | 650             | 100 | 636 | 86 | 5.5 | 0.0108                      | 6                  |

### Application

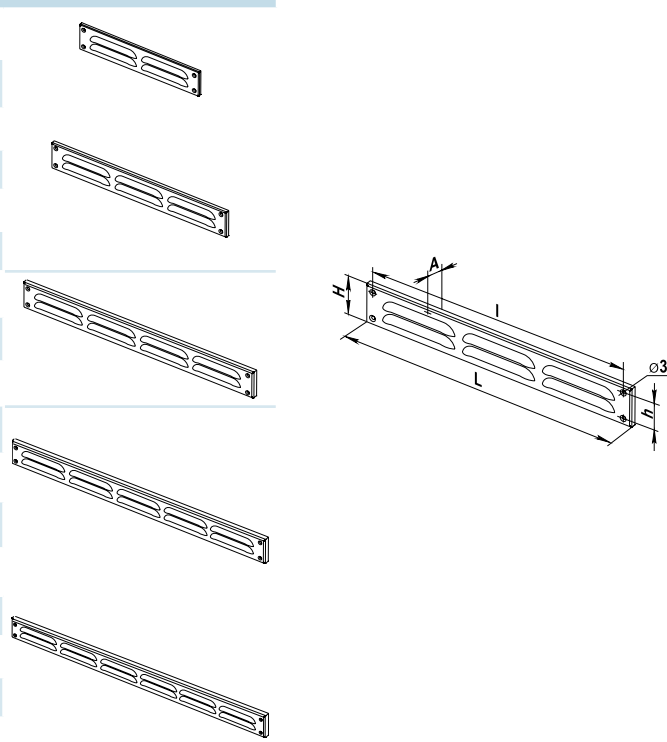
- Decoration of exhaust vents of public, residential and industrial ventilation systems.
- For ventilation, air conditioning and heating.
- Used for correct air flow distribution in premises.
- Internal or external wall and ceiling mounting.

### Design

- Made of steel, galvanized steel or aluminium and are suitable for colourful polymer painting.
- Edge-raised grille design.
- Screw fixing.
- Quality materials and zinc-phosphate treatment ensure coating integrity and provide reliable corrosion protection.
- Models with insect screen are available.

### Modifications

- **MVMPO ...** – basic steel models with white polymer coating.
- **MVMPO ... s** – steel models with white polymer coating and a protecting insect screen.
- **MVMPO ... A** – aluminium grille models with white polymer coating.
- **MVMPO ... s A** – aluminium models with white polymer coating and protecting insect screen.
- **MVMPO ... A (no/p)** – aluminium grille models.
- **MVMPO ... s A (no/p)** – aluminium models with a protecting insect screen.
- **MVMPO ... Zn** – galvanized steel grille models.
- **MVMPO ... s Zn** – galvanized steel models with a protecting insect screen.
- **MVMPO ... «colour code»** – colourful polymer painted models.



## MVMPO...R Series



### Application

- Decoration of exhaust vents of public, residential and industrial ventilation systems.
- For ventilation, air conditioning and heating.
- Used for correct air flow distribution in premises.
- Internal or external wall and ceiling mounting.

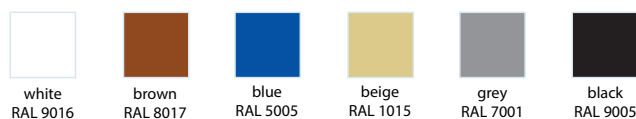
### Design

- Made of steel or aluminium and are suitable for colourful polymer painting.
- Quality materials and zinc-phosphate treatment ensure coating integrity and provide reliable corrosion protection.
- Edge-raised grille design.
- Equipped with a movable flap for air flow regulation.
- Screw fixing.

### Modifications

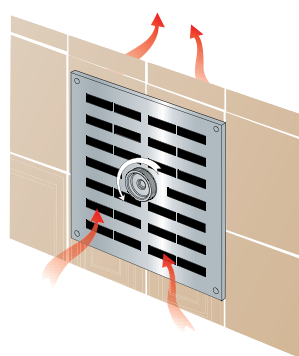
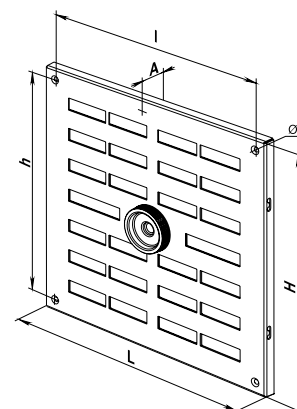
- **MVMPO ... R** – basic steel models with white polymer coating.
- **MVMPO...R A** – aluminium grille models with white polymer coating.
- **MVMPO...R A (no/p)** – aluminium grille models.
- **MVMPO ...R «colour code»** – colourful polymer painted models.

### Colour modifications

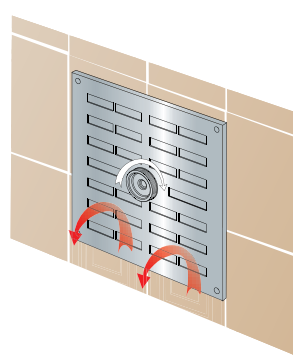


### Overall dimensions

| Model           | Dimensions [mm] |     |     |     |   | Air pass, [m <sup>2</sup> ] |
|-----------------|-----------------|-----|-----|-----|---|-----------------------------|
|                 | L               | H   | l   | h   | A |                             |
| MVMPO 155 R     | 155             | 155 | 132 | 132 | 9 | 0.0047                      |
| MVMPO 150x200 R | 150             | 200 | 132 | 182 | 9 | 0.0067                      |
| MVMPO 160 R     | 160             | 160 | 137 | 137 | 9 | 0.0051                      |
| MVMPO 200x150 R | 200             | 150 | 182 | 132 | 9 | 0.0061                      |
| MVMPO 200 R     | 200             | 200 | 182 | 182 | 9 | 0.0099                      |
| MVMPO 200x250 R | 200             | 250 | 182 | 232 | 9 | 0.0135                      |
| MVMPO 200x300 R | 200             | 300 | 182 | 282 | 9 | 0.0162                      |
| MVMPO 250x200 R | 250             | 200 | 232 | 182 | 9 | 0.0108                      |
| MVMPO 250x300 R | 250             | 300 | 232 | 282 | 9 | 0.0171                      |
| MVMPO 300x200 R | 300             | 200 | 282 | 182 | 9 | 0.0172                      |
| MVMPO 300x250 R | 300             | 250 | 282 | 232 | 9 | 0.0204                      |



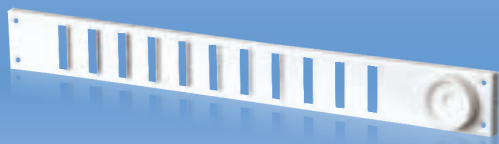
open



closed

# SUPPLY AND EXHAUST REGULATED SLOT METAL GRILLES

## MVMPO...Rr Series



## MVMPO...R Series



### Application

- Decoration of exhaust vents of public, residential and industrial ventilation systems.
- For ventilation, air conditioning and heating.
- Used for correct air flow distribution in premises.
- Internal or external wall and ceiling mounting.

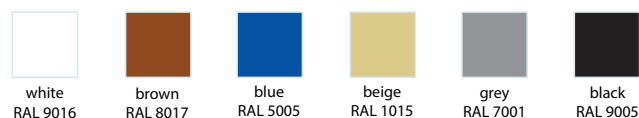
### Design

- Made of steel or aluminium and are suitable for colourful polymer painting.
- Quality materials and zinc-phosphate treatment ensure coating integrity and provide reliable corrosion protection.
- Edge-raised grille design.
- Equipped with a movable flap for air flow regulation.
- Regulation with a wheel (MVMPO...Rr) or a tilt wand (MVMPO...R).
- Screw fixing.

### Modifications

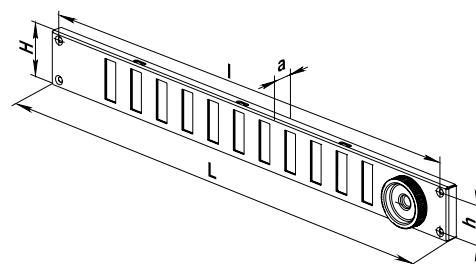
- **MVMPO...R / MVMPO...Rr** – basic steel models with white polymer coating.
- **MVMPO...R A / MVMPO...Rr A** – aluminium grilles with white polymer coating.
- **MVMPO...R A (no/p) / MVMPO...Rr A (no/p)** is made of Aluminium.
- **MVMPO...R «colour code» / MVMPO...Rr «colour code»** – colourful grilles with polymer coating.

### Colour modifications



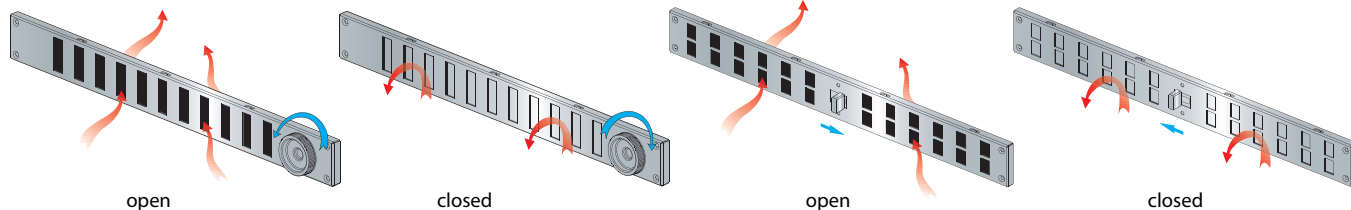
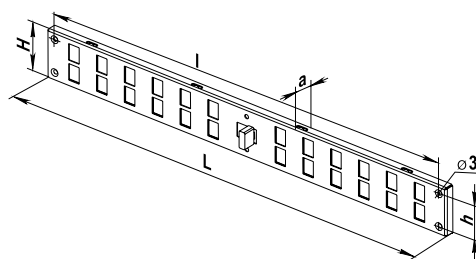
### Overall dimensions

| Model           | Dimensions [mm] |    |     |    |   | Air pass, [m <sup>2</sup> ] |
|-----------------|-----------------|----|-----|----|---|-----------------------------|
|                 | L               | H  | l   | h  | A |                             |
| MVMPO 370x40 Rr | 370             | 40 | 356 | 29 | 9 | 0.0033                      |
| MVMPO 380x40 Rr | 380             | 43 | 366 | 29 | 9 | 0.0035                      |
| MVMPO 495x65 Rr | 495             | 65 | 477 | 47 | 9 | 0.0072                      |
| MVMPO 500x40 Rr | 500             | 40 | 482 | 29 | 9 | 0.0054                      |
| MVMPO 500x90 Rr | 500             | 90 | 482 | 72 | 9 | 0.0090                      |
| MVMPO 650x60 Rr | 650             | 60 | 632 | 42 | 9 | 0.0063                      |
| MVMPO 650x65 Rr | 650             | 65 | 632 | 44 | 9 | 0.0110                      |



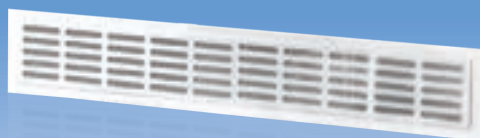
### Overall dimensions

| Model          | Dimensions [mm] |    |     |    |   | Air pass, [m <sup>2</sup> ] |
|----------------|-----------------|----|-----|----|---|-----------------------------|
|                | L               | H  | l   | h  | A |                             |
| MVMPO 380x40 R | 380             | 43 | 366 | 29 | 9 | 0.0035                      |





MVM  
Series



■ Application

- Mounting in door leaves of bathrooms, kitchens, etc.
- Suitable for installation into window sills for correct warm air distribution from radiators.
- Used to arrange correct air circulation in premises.

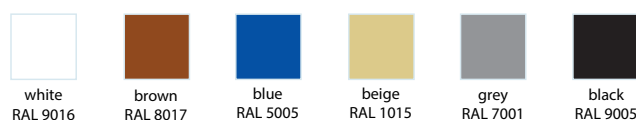
■ Design

- Made of polymer-coated or galvanized steel and are suitable for painting in various colours.
- Quality materials and zinc-phosphate treatment ensure coating integrity and provide reliable corrosion protection.
- Screw or lug fixing.
- Modifications with a protecting insect screen are available.
- Various decorative ornaments.
- Minimum door leaf thickness for grilles with fixing lugs is 30 mm.

■ Modifications

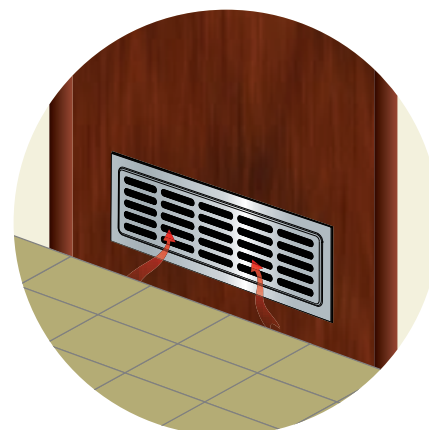
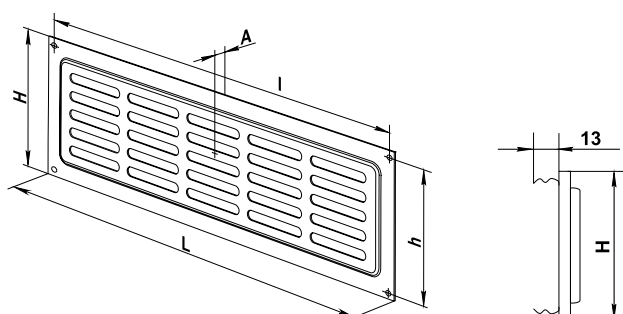
- **MVM...** – basic steel models with white polymer coating and screw fixing.
- **MVM...s** – steel grilles with white polymer coating and a protecting insect screen.
- **MVM...K** – steel grilles with white polymer coating and fixing lugs.
- **MVM...s K** – steel models with white polymer coating, fixing lugs and a protecting insect screen.
- **MVM...Zn** – galvanized steel models with screw fixing.
- **MVM...s Zn** – galvanized steel models with screw fixing and a protecting insect screen.
- **MVM...K Zn** – galvanized steel models with fixing lugs.
- **MVM...s K Zn** – galvanized steel models with fixing lugs and a protecting insect screen.
- **MVM... «colour code»** – colourful polymer painted models.

■ Colour modifications

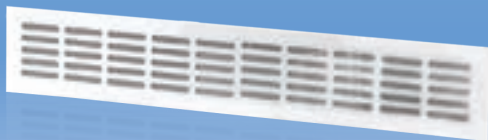


■ Overall dimensions

| Model           | Dimensions [mm] |    |     |    |      | Number of sections | Air pass, [m <sup>2</sup> ] |
|-----------------|-----------------|----|-----|----|------|--------------------|-----------------------------|
|                 | L               | H  | l   | h  | A    |                    |                             |
| MVM 250x80/5-3  | 250             | 80 | 236 | 66 | 11.5 | 5                  | 0.0055                      |
| MVM 475x80/10-3 | 475             | 80 | 461 | 71 | 11.5 | 10                 | 0.0103                      |



## MVMP Series



### Application

- Mounting in door leaves of bathrooms, kitchens, etc.
- Suitable for installation into window sills for correct warm air distribution from radiators.
- Used to arrange correct air circulation in premises.

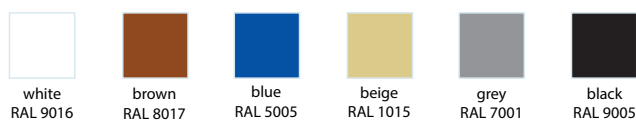
### Design

- Made of polymer-coated or galvanized steel and are suitable for painting in various colours.
- Quality materials and zinc-phosphate treatment ensure coating integrity and provide reliable corrosion protection.
- Screw fixing.
- Modifications with an insect screen are available.
- Various decorative ornaments.
- Minimum door leaf thickness for grilles with fixing lugs is 30 mm.

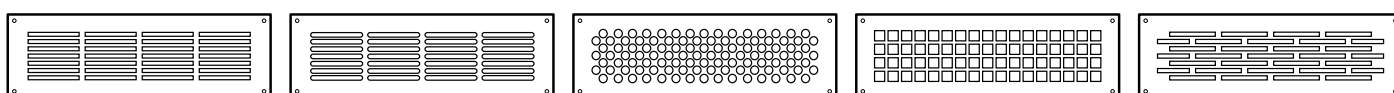
### Grille modifications

- **MVMP...** – basic steel models with white polymer coating and screw fixing.
- **MVMP...s** – steel grilles with white polymer coating equipped with a protecting insect screen.
- **MVMP...Zn** – galvanized steel grilles with screw fixing.
- **MVMP...s Zn** – galvanized steel grilles with screw fixing and a protecting insect screen.
- **MVMP...«colour code»** – colourful polymer painted models.

### Colour modifications



### Decorative ornament types



MVMP...-2

MVMP...-3

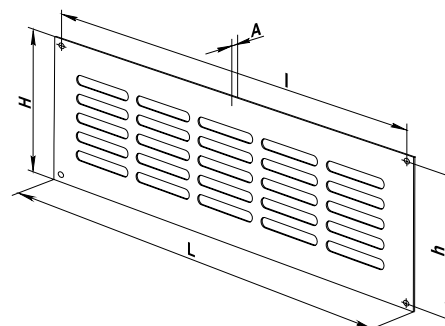
MVMP...-4

MVMP...-5

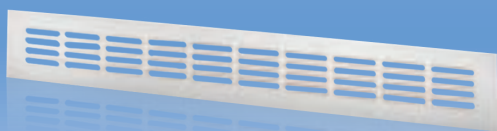
MVMP...-6

### Overall dimensions

| Model       | Dimensions [mm] |    |     |    |     | Number of sections | Air pass, [m <sup>2</sup> ] |
|-------------|-----------------|----|-----|----|-----|--------------------|-----------------------------|
|             | L               | H  | l   | h  | A   |                    |                             |
| MVMP 250x80 | 250             | 80 | 236 | 66 | 0.8 | 5                  | 0.0055                      |
| MVMP 350x80 | 350             | 80 | 338 | 68 | 0.8 | 6                  | 0.0067                      |
| MVMP 430x80 | 430             | 80 | 418 | 68 | 0.8 | 7                  | 0.0083                      |
| MVMP 450x80 | 450             | 80 | 438 | 68 | 0.8 | 8                  | 0.0094                      |
| MVMP 475*80 | 475             | 80 | 461 | 71 | 0.8 | 10                 | 0.0110                      |



**MVMA  
Series**



**Application**

- Mounting in door leaves of bathrooms, kitchens, etc.
- Suitable for installation into window sills for correct warm air distribution from radiators.
- Used to arrange correct air circulation in premises.

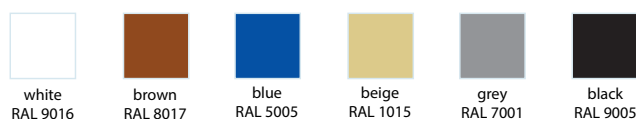
**Design**

- Made of polymer-coated or galvanized steel and are suitable for painting in various colours.
- Fixing with lugs.
- Modifications with a protecting insect screen are available.
- Minimum door leaf thickness is 32 mm.

**Grille modifications**

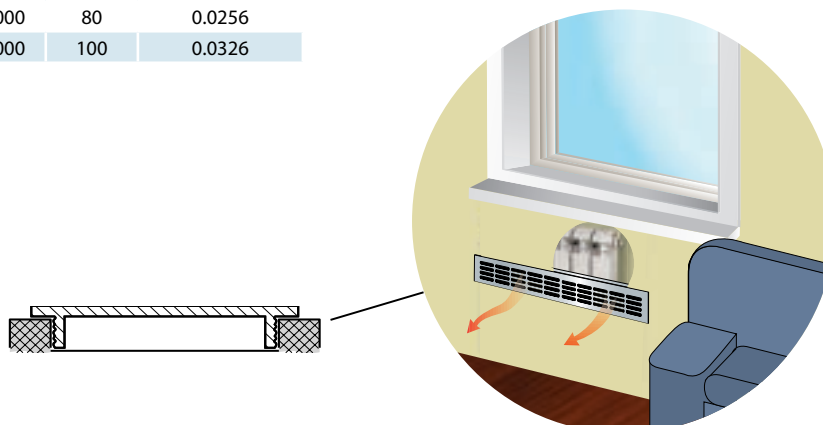
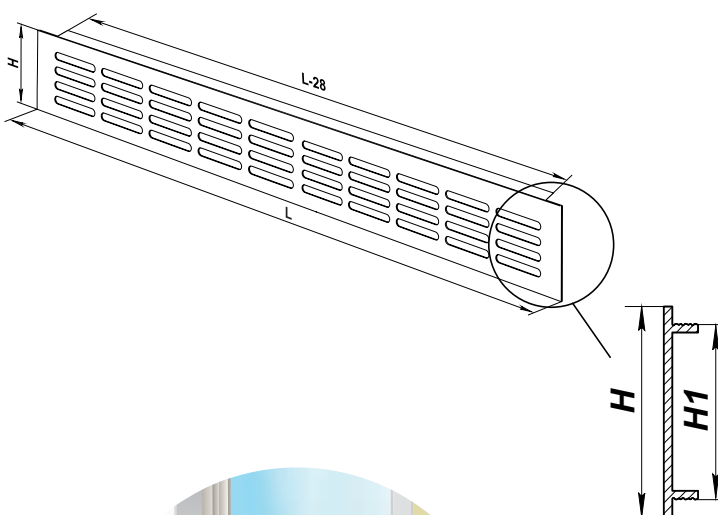
- **MVMA...An** – grilles from anodized aluminium
- **MVMA...«colour code»** – colourful polymer painted models.
- **MVMA...s** – models from aluminium with a protecting insect screen.
- **MVMA...s An** – models from anodized aluminium and a protecting insect screen.

**Colour modifications**



**Overall dimensions**

| Model         | Dimensions [mm] |     | Air pass, [m <sup>2</sup> ] |
|---------------|-----------------|-----|-----------------------------|
|               | L               | H   |                             |
| MVMA 400x60   | 400             | 60  | 0.0062                      |
| MVMA 400x80   | 475             | 80  | 0.0093                      |
| MVMA 400x100  | 400             | 100 | 0.0120                      |
| MVMA 480x80   | 480             | 80  | 0.0120                      |
| MVMA 500x60   | 500             | 60  | 0.0078                      |
| MVMA 500x80   | 500             | 80  | 0.0120                      |
| MVMA 500x100  | 500             | 100 | 0.0156                      |
| MVMA 600x60   | 600             | 60  | 0.0093                      |
| MVMA 600x80   | 600             | 80  | 0.0140                      |
| MVMA 600x100  | 600             | 100 | 0.0186                      |
| MVMA 800x60   | 800             | 60  | 0.0120                      |
| MVMA 800x80   | 800             | 80  | 0.0186                      |
| MVMA 800x100  | 800             | 100 | 0.0248                      |
| MVMA 1000x60  | 1000            | 60  | 0.0160                      |
| MVMA 1000x80  | 1000            | 80  | 0.0256                      |
| MVMA 1000x100 | 1000            | 100 | 0.0326                      |



## MVM-50 S A Series



### Application

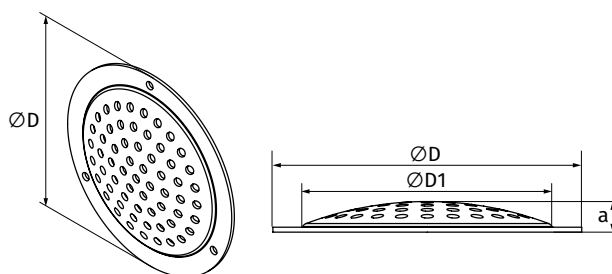
- For installation in doors of bathrooms, toilets, kitchens, etc.
- It can also be installed in various pieces of furniture to ventilate them.

### Design

- Made of polymer coated extruded aluminum.
- White RAL 9016.
- Fastening to surfaces using screws (not included in the delivery set).

### Overall dimensions

| Model      | Dimensions [mm] |    |   |
|------------|-----------------|----|---|
|            | D               | D1 | a |
| MVM-50 S A | 50              | 41 | 5 |



**MVM...bV A  
Series**



**Application**

- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- Applicable for HVAC systems.
- Used for correct air flow distribution in premises.

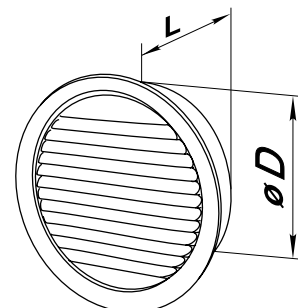
**Design**

- Made of aluminium.
- Mounting with fixing lugs.
- Equipped with a round  $\varnothing$  100 mm spigot for connection to air ducts.



**Overall dimensions**

| Model        | Dimensions [mm] |    | Air pass, [m <sup>2</sup> ] |
|--------------|-----------------|----|-----------------------------|
|              | D               | L  |                             |
| MVM 101 bV A | 101             | 24 | 0.0024                      |





## MVM...bV N Series



### ■ Application

- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- Applicable for HVAC systems.
- Used for correct air flow distribution in premises.

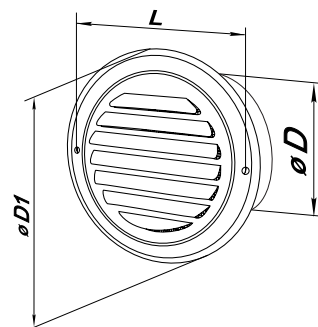
### ■ Design

- Made of stainless steel.
- Insect screen included.
- Mounting with fixing lugs.
- Equipped with a round  $\varnothing$  100, 125, 150, 200 mm spigot for connection to air ducts.



### ■ Overall dimensions

| Model        | Dimensions [mm] |     |     | Air pass, [m <sup>2</sup> ] |
|--------------|-----------------|-----|-----|-----------------------------|
|              | D               | D1  | L   |                             |
| MVM 100 bV N | 96              | 150 | 134 | 0.0048                      |
| MVM 125 bV N | 119             | 184 | 165 | 0.0082                      |
| MVM 150 bV N | 143             | 205 | 190 | 0.0126                      |



MVM...b N  
Series



■ **Application**

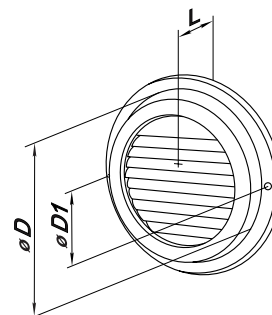
- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- Applicable for HVAC systems.
- Used for correct air flow distribution in premises.

■ **Design**

- Made of stamped stainless steel.
- Rubber seals for tight contact to the wall.
- Fixing with screws.

■ **Overall dimensions**

| Model       | Dimensions [mm] |     |    | Air pass, [m <sup>2</sup> ] |
|-------------|-----------------|-----|----|-----------------------------|
|             | D               | D1  | L  |                             |
| MVM 100 b N | 95              | 133 | 22 | 0.0057                      |
| MVM 125 b N | 122             | 165 | 24 | 0.0093                      |
| MVM 150 b N | 144             | 190 | 26 | 0.0138                      |



## MVM...bVs N Series



### Application

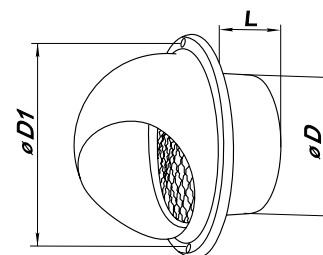
- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.

### Design

- Made of stainless steel.
- Insect screen included.
- Rubber seals for tight contact to the wall.
- Fitted with a round  $\varnothing$  100, 125, 150, 160 or 200 mm spigot for connection to the air ducts.
- Fixation to the wall with screws.

### Overall dimensions

| Model         | Dimensions [mm] |     |    | Air pass, [m <sup>2</sup> ] |
|---------------|-----------------|-----|----|-----------------------------|
|               | D               | D1  | L  |                             |
| MVM 102 bVs N | 97              | 133 | 52 | 0.0048                      |
| MVM 122 bVs N | 120             | 165 | 52 | 0.0082                      |
| MVM 152 bVs N | 145             | 192 | 62 | 0.0126                      |
| MVM 162 bVs N | 155             | 192 | 62 | 0.0135                      |
| MVM 202 bVs N | 195             | 253 | 73 | 0.0178                      |



MVM...bV N  
Series

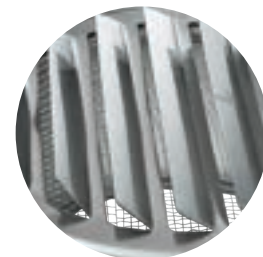


■ **Application**

- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- Applicable for HVAC systems.

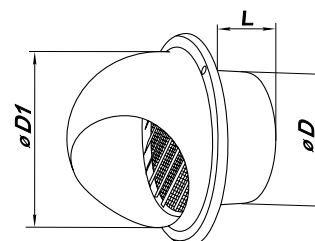
■ **Design**

- Made of stainless steel.
- Directing vanes and an insect screen included.
- Rubber seals for tight contact to the wall.
- Equipped with a round  $\varnothing$  100, 125 or 150 mm spigot for connection to air ducts.
- Fixing with screws.



■ **Overall dimensions**

| Model        | Dimensions [mm] |     |    | Air pass, [m <sup>2</sup> ] |
|--------------|-----------------|-----|----|-----------------------------|
|              | D               | D1  | L  |                             |
| MVM 102 bV N | 97              | 133 | 52 | 0.0048                      |
| MVM 122 bV N | 120             | 165 | 52 | 0.0082                      |
| MVM 152 bV N | 145             | 192 | 62 | 0.0126                      |
| MVM 202 bV N | 195             | 253 | 62 | 0.0178                      |



# EXHAUST GRAVITY METAL GRILLE

## MVM...VJ N Series



### ■ Application

- Decoration of exhaust vents of public, residential and industrial ventilation systems.
- Applicable for exhaust HVAC systems.

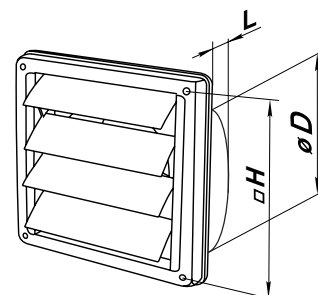
### ■ Design

- Made of stainless steel.
- Fixing with screws.
- Rubber seals for tight contact to the wall.



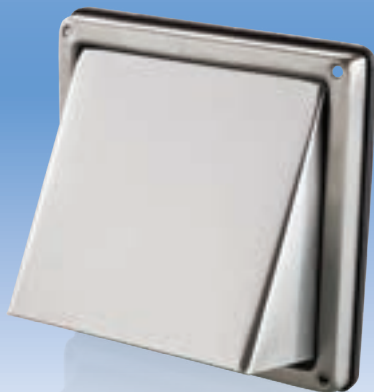
### ■ Overall dimensions

| Model        | Dimensions [mm] |           |    | Air pass, [m <sup>2</sup> ] |
|--------------|-----------------|-----------|----|-----------------------------|
|              | D               | □H        | L  |                             |
| MVM 100 VJ N | 97              | 137 x 137 | 52 | 0.0070                      |
| MVM 125 VJ N | 120             | 167 x 167 | 52 | 0.0112                      |
| MVM 150 VJ N | 145             | 167 x 167 | 62 | 0.0164                      |





## MVM...V N Series



### Application

- Decoration of exhaust vents of public, residential and industrial ventilation systems.

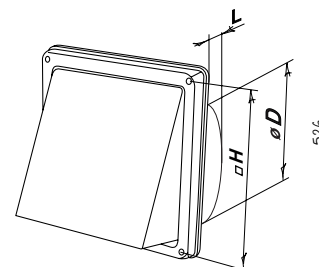
### Design

- Made of stainless steel.
- Back valve included.
- Rubber seals for tight contact to the wall.
- Equipped with a round  $\varnothing$  100, 125 or 150 mm spigot for connection to air ducts.
- Fixing with screws.



### Overall dimensions

| Model       | Dimensions [mm] |           |    | Air pass, [m <sup>2</sup> ] |
|-------------|-----------------|-----------|----|-----------------------------|
|             | D               | □H        | L  |                             |
| MVM 102 V N | 97              | 137 x 137 | 52 | 0.0071                      |
| MVM 122 V N | 120             | 167 x 167 | 52 | 0.0113                      |
| MVM 152 V N | 145             | 167 x 167 | 62 | 0.0165                      |



## MVM...bVL A Series



### Application

- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- Applicable for HVAC systems.
- Used for correct air flow distribution in premises.

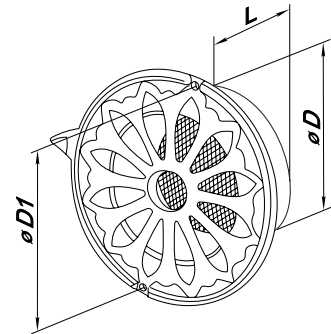
### Design

- Made of cast aluminium.
- Equipped with a round Ø 100, 125 or 150 mm spigot for connection to air ducts.
- Insect screen included.
- Rubber seals for tight contact to the wall.
- Fixing with screws.



### Overall dimensions

| Model         | Dimensions [mm] |     |    | Air pass, [m <sup>2</sup> ] |
|---------------|-----------------|-----|----|-----------------------------|
|               | D               | D1  | L  |                             |
| MVM 100 bVL A | 97              | 140 | 52 | 0.0045                      |
| MVM 125 bVL A | 120             | 178 | 52 | 0.0067                      |
| MVM 150 bVL A | 145             | 178 | 62 | 0.0115                      |



**MVM...VR N  
Series**

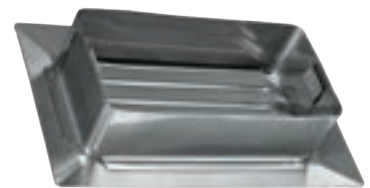


**Application**

- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- Applicable for HVAC systems.
- Used for correct air flow distribution in premises.

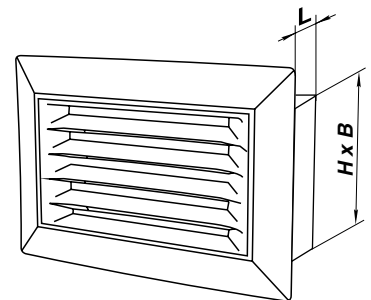
**Design**

- Made of stainless steel.
- Mounting to rectangular 55x110 and 60x204 mm air ducts with fixing lugs.



**Overall dimensions**

| Model           | Dimensions [mm] |    | Air pass, [m <sup>2</sup> ] |
|-----------------|-----------------|----|-----------------------------|
|                 | H x B           | L  |                             |
| MVM 110*54 VR N | 110x54          | 25 | 0.0028                      |
| MVM 205*61 VR N | 205x61          | 30 | 0.0042                      |



**MVMP...R N  
Series**



**Application**

- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- Applicable for HVAC systems.
- Used for correct air flow distribution in premises.

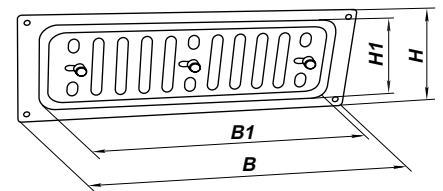
**Design**

- Made of stainless steel.
- Movable flap for air flow control.
- Fixing with screws.



**Overall dimensions**

| Model            | Dimensions [mm] |     |     |     | Air pass, [m <sup>2</sup> ] |
|------------------|-----------------|-----|-----|-----|-----------------------------|
|                  | B1              | H1  | B   | H   |                             |
| MVMP 260*90 R N  | 225             | 75  | 260 | 90  | 0.0036                      |
| MVMP 260*165 R N | 225             | 150 | 260 | 165 | 0.0085                      |
| MVMP 260*240 R N | 225             | 225 | 260 | 240 | 0.0127                      |



**MVMP...R A**  
Series



■ **Application**

- Decoration of supply and exhaust vents of public, residential and industrial ventilation systems.
- Applicable for HVAC systems.
- Used for correct air flow distribution in premises.

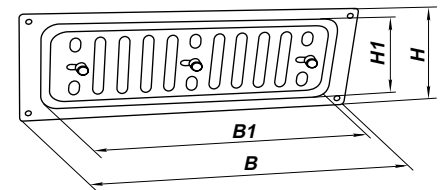
■ **Design**

- Made of aluminium.
- Movable flap for air flow control.
- Fixing with screws.



■ **Overall dimensions**

| Model            | Dimensions [mm] |     |     |     | Air pass, [m <sup>2</sup> ] |
|------------------|-----------------|-----|-----|-----|-----------------------------|
|                  | B1              | H1  | B   | H   |                             |
| MVMP 260*90 R A  | 225             | 75  | 260 | 90  | 0.0036                      |
| MVMP 260*165 R A | 225             | 150 | 260 | 165 | 0.0085                      |
| MVMP 260*240 R A | 225             | 225 | 260 | 240 | 0.0127                      |





## MVMO1...b Series



### Application

- Decoration of exhaust vents of public, residential and industrial ventilation systems.
- For ventilation, air conditioning and heating.
- Used for correct air flow distribution in premises.
- Internal or external wall and ceiling mounting.

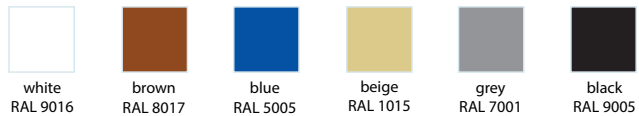
### Design

- Made of steel, galvanized steel, stainless steel or aluminium and are suitable for colourful polymer painting.
- Screw fixing.
- Quality materials and zinc-phosphate treatment ensure coating integrity and provide reliable corrosion protection.
- Equipped with a protecting insect screen.

### Modifications

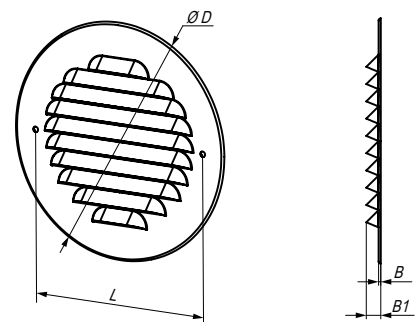
- **MVMO1...bs** – basic white polymer coated grilles.
- **MVMO1...bs A** – aluminium white polymer coated grilles with a protecting insect screen.
- **MVMO1...bs An** – grilles made of anodized brushed aluminium with a protecting insect screen.
- **MVMO1...bs Ap** – grilles made of polished aluminium with a protecting insect screen.
- **MVMO1...bs N** – grilles made of stainless steel with a protecting insect screen.
- **MVMO1...bs Zn** – grilles made of galvanized steel with a protecting insect screen.
- **MVMO1...bs "colour code"** – colourful polymer painted models.

### Colour modifications



### Overall dimensions

| Model        | Dimensions [mm] |     |     |     | Air pass [m <sup>2</sup> ] |
|--------------|-----------------|-----|-----|-----|----------------------------|
|              | D               | B   | B1  | L   |                            |
| MVMO1 100 bs | 142             | 1.3 | 8.4 | 114 | 0.0051                     |



MVMO1...bs / MVMO1...bs A



MVMO1...bs Zn



MVMO1...bs An



MVMO1...bs Ap / MVMO1...bs N

**MVMO...bV  
Series**



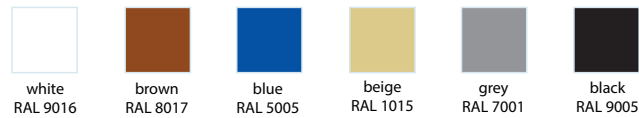
**Application**

- Decoration of exhaust vents of public, residential and industrial ventilation systems.
- For ventilation, air conditioning and heating.
- Used for correct air flow distribution in premises.
- Internal or external wall and ceiling mounting.

**Design**

- Made of steel, galvanized steel, stainless steel or aluminium and are suitable for colourful polymer painting.
- Edge-raised grille design.
- Quality materials and zinc-phosphate treatment ensure coating integrity and provide reliable corrosion protection.
- Modifications with a protecting insect screen.

**Colour modifications**



**Modifications**

**Round grille with a flange (bV): MVMO...bV**



- Equipped with a flange for connection to round air ducts.
- **MVMO...bV** – steel grilles with white polymer coating.
- **MVMO...bV A** – aluminium grilles with white polymer coating.
- **MVMO...bVs An** – grilles made of anodized brushed aluminium with a protecting insect screen.
- **MVMO...bVs Ap** – grilles made of polished aluminium with a protecting insect screen.
- **MVMO...bVs N** – grilles made of stainless steel with a protecting insect screen.
- **MVMO...bVs Zn** – grilles made of galvanized steel with a protecting insect screen.
- **MVMO ... bV "colour code"** – colourful polymer painted models.



**Round grille with a flange and a lip seal (bV1): MVMO...bV1**



- Equipped with a flange for connection to round air ducts.
- **MVMO...bV1** – steel grilles with white polymer coating.
- **MVMO...bV1 A** – grilles made of white polymer coated aluminium.
- **MVMO...bV1s An** – grilles made of anodized brushed aluminium with a protecting insect screen.
- **MVMO...bV1s Ap** – grilles made of polished aluminium with a protecting insect screen.
- **MVMO...bV1s N** – grilles made of stainless steel with a protecting insect screen.
- **MVMO...bV1s Zn** – grilles made of galvanizes steel with a protecting insect screen.
- **MVMO...bV1 "colour code"** – colourful polymer painted models.



## Round grille with a flange and springs (bV K): MVMO...bV K



- Equipped with a flange for connection to round air ducts.
- **MVMO...bV K** – steel white polymer coated grilles.
- **MVMO...bV K A** – aluminium white polymer coated grilles.
- **MVMO...bVs K An** – grilles made of anodized brushed aluminium with a protecting insect screen.
- **MVMO...bVs K Ap** – grilles made of polished aluminium with a protecting insect screen.
- **MVMO...bVs K N** – grilles made of stainless steel with a protecting insect screen.
- **MVMO...bVs K Zn** – grilles made of galvanized steel with a protecting insect screen.
- **MVMO...bV K "colour code"** – colourful polymer painted models.



### Overall dimensions

| Model         | Dimensions [mm] |       |    | Air pass [m <sup>2</sup> ] | Fig. no. |
|---------------|-----------------|-------|----|----------------------------|----------|
|               | D               | D1    | L  |                            |          |
| MVMO 100 bV   |                 |       |    |                            | 1, 2     |
| MVMO 100 bV1  | 99              | 129   | 48 | 0.0051                     | 1, 3     |
| MVMO 100 bV K |                 |       |    |                            | 1, 4     |
| MVMO 125 bV   |                 |       |    |                            | 1, 2     |
| MVMO 125 bV1  | 124             | 154.5 | 48 | 0.0083                     | 1, 3     |
| MVMO 125 bV K |                 |       |    |                            | 1, 4     |
| MVMO 150 bV   |                 |       |    |                            | 1, 2     |
| MVMO 150 bV1  | 149             | 179.5 | 48 | 0.0118                     | 1, 3     |
| MVMO 150 bV K |                 |       |    |                            | 1, 4     |
| MVMO 160 bV   |                 |       |    |                            | 1, 2     |
| MVMO 160 bV1  | 159             | 189.5 | 48 | 0.0138                     | 1, 3     |
| MVMO 160 bV K |                 |       |    |                            | 1, 4     |
| MVMO 200 bV   |                 |       |    |                            | 1, 2     |
| MVMO 200 bV1  | 198             | 229   | 48 | 0.0214                     | 1, 3     |
| MVMO 200 bV K |                 |       |    |                            | 1, 4     |

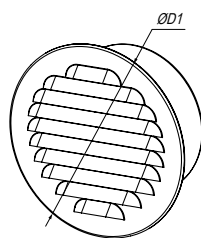


Fig. 1

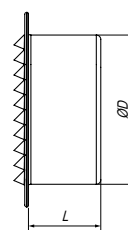


Fig. 2

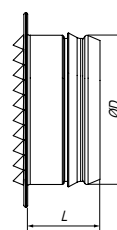


Fig. 3

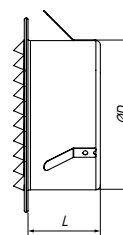


Fig. 4



Polymer coated steel /  
polymer coated aluminium



Galvanized steel



Anodized brushed aluminium



Polished aluminium / stainless steel

**MVMO...bs K1  
Series**



**Application**

- Decoration of exhaust vents of public, residential and industrial ventilation systems.
- For ventilation, air conditioning and heating.
- Used for correct air flow distribution in premises.
- Internal/external wall and ceiling mounting.

**Design**

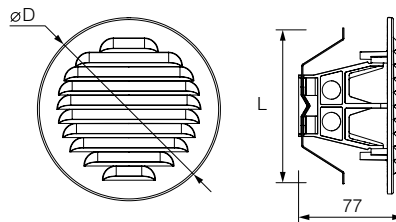
- Made of steel, galvanized steel, stainless steel or aluminium and are suitable for colourful polymer painting.
- Equipped with a spacer mechanism for mounting in a round ventilation hole without additional fastening elements.
- Quality materials and zinc-phosphate treatment ensure coating integrity and provide reliable corrosion protection.
- Modifications with a protecting insect screen.

**Modifications**

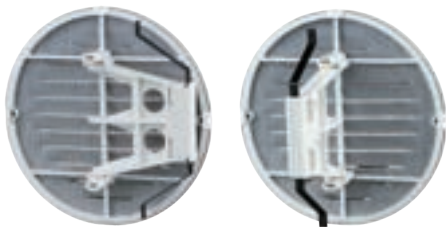
- Equipped with a plastic spreader gearing to mount in a round air vent.
- **MVMO...bs K1** – steel grilles with white polymer coating with a protecting insect screen and plastic spreader gearing.
- **MVMO...bs K1 A** – grilles made of white polymer coated aluminium.
- **MVMO...bs K1 An** – grilles made of anodized brushed aluminium with a protecting insect screen and plastic spreader gearing.
- **MVMO...bs K1 Ap** – grilles made of polished aluminium with a protecting insect screen and plastic spreader gearing.
- **MVMO...bs K1 Zn** – grilles made of galvanizes steel with a protecting insect screen and plastic spreader gearing.
- **MVMO...bs „colour code“** – colourful polymer painted models.

**Overall dimensions**

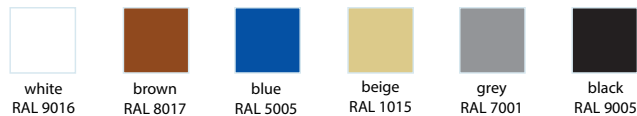
| Model          | Dimensions [mm] |     | Air pass [m <sup>2</sup> ] |
|----------------|-----------------|-----|----------------------------|
|                | D               | L   |                            |
| 100 MVMO bs K1 | 129             | 114 | 0.0051                     |
| 125 MVMO bs K1 | 155             | 139 | 0.0083                     |
| 150 MVMO bs K1 | 180             | 164 | 0.0118                     |
| 160 MVMO bs K1 | 190             | 174 | 0.0133                     |
| 200 MVMO bs K1 | 229             | 211 | 0.0206                     |



**Spacer mechanism for mounting**



**Colour modifications**



Steel grilles with white polymer coating



Grilles made of white polymer coated aluminium



Grilles made of anodized brushed aluminium



Grilles made of polished aluminium



Grilles made of galvanizes steel



# FLEXIBLE AIR DUCTS FOR VENTILATION AND AIR CONDITIONING



## **Non-insulated air ducts Polyvent 605 series**

Aluminium foil

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## **Non-insulated air ducts Polyvent N series**

metalized foil

page  
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## **Insulated air ducts Isovent N**

metalized foil

page  
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## **Non-insulated air ducts Polyvent 660 series**

polyvinylchloride [65 µm]

page  
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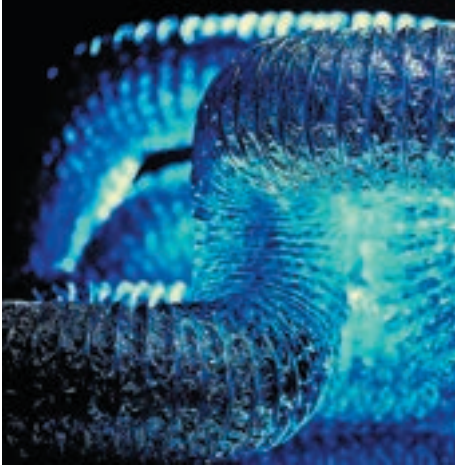


## **Non-insulated air ducts Polyvent 665 Comby series**

Aluminium foil and PVC

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### What is a flexible air duct?

Flexible air ducts, Polyvent and Isovent series are the air ducts with a frame made of spiral wire reinforcement with elastic covering. Semi-flexible air ducts Aluvent and Thermovent are the spirally wound air ducts made of durable and less elastic materials.

The flexible and semi-flexible air duct design allows easy transportation to the site in compressed condition whereas during mounting the air ducts is stretched up to required length.



Due to many advantages flexible and semi-flexible air ducts gain more and more popularity.

### Basic advantages:

- Compact transportation;
- Low cost and easy weight of the system;
- Less time for mounting of the system;
- Quick system geometry amendment whenever required;
- Easy to use for dismantling, service and repair works;
- Cost reduction for the project.

### Air duct application

Flexible and semi-flexible air ducts are used for transportation of air masses in ventilation, air heating and conditioning systems and for the technological purposes as air supply to industrial units, technological waste aspiration and transportation of granular and granulated materials in pneumatic systems, etc.

The air ducts are installed in ventilation systems and vents of high-rise buildings, cottages and residential houses.

In commercial and industrial objects the air duct are used for air conditioning systems, air supply and exhaust systems, air heating systems.

A wide range of the VENTS air ducts offers the best suitable air duct type not only for ventilation, air conditioning and air heating systems but for specially designed industrial application:

- **Chemistry:** aggressive media transportation.
- **Pharmaceutics:** technological processes including pneumatic transportation.
- **Food and beverage:** transportation of food products and waste within permissible limits.
- **Car service centres, filling stations, oil refineries:** gas mixture exhaust.
- **Woodwork:** transportation of saw-dust and woodwork waste.
- **Glass industry:** aspiration of dust, glass and ceramic particles.

Use Tables 1, 2 and 3 to select air duct type.

### VENTS air duct design

The Polyvent and Isovent air ducts' frame is made of high-carbon steel spiral wire with 0.8-2 mm diameter that is covered by a film of various materials.

The spiral wire must have corrosion-resistant material and be thoroughly checked to ensure its durability and defeat resistance.

The distance between spiral turns is selected to ensure the air duct flexibility, to preserve its shape, comply with aerodynamic characteristics and to bear the construction load.

The Polyvent series air ducts are available in round and rectangular modifications and manifold standard sizes to meet all the mounting requirements.

The Aluvent and Thermovent air ducts are the spirally wound air ducts with a specially designed tight locks that provide impervious seam and complete air tightness.

The covering materials are selected to suit required applications and differ in thickness, durability and chemical composition. So the required air duct type is determined by a specific environment and purpose.

### Environmental protection

VENTS Company keeps a watchful eye on the ecological compatibility of the production process and applied materials. The use of the up-to-date technologies allows the VENTS air ducts comply with the highest ecology standards and be classified as non-toxic. These air ducts produce no harmful substances emission and not harmful.

### Fire resistance

Polyvent 605, Isovent 605, Polyvent 665 COMBY, Aluvent, Thermovent are used for objects with special fire-resistance requirements to air ducts.

Flexible air ducts Polyvent 605, Isovent 605, Polyvent 665 COMBY have M0 and M1 fire protection class according to European fire standards.

The air ducts are available on two modifications: M0 for short-time resistance up to +250°C and for M1 for short-time resistance up to +150°C.

Semi-flexible air ducts have higher fire resistance rating: Aluvent series up to +250°C, Isovent series up to +800°C.

### Sound- and thermal insulation

Isovent series insulated air ducts are the flexible air ducts covered with mineral wool and outer sleeve. Such design meets the strictest sound- and thermal insulation requirements and prevents condensate generation, minimizes heat and cold losses, decreases noise level.

Mineral wool layer with 25 mm thickness is used for high operating conditions. This material is environmentally safe and has perfect insulating characteristics.

Depending on required insulation type the air ducts are available in two insulation modifications:

- ISO – thermal insulation;
- SONO – sound-insulation.

**Table 1. Air ducts characteristics**

| Series       | Material  | Temperature mode, °C                           | Aspiration of chemical vapours and aggressive substances | Aspiration of abrasive and powdered particles | Application  |
|--------------|---|--|--|---|--|
| Polyvent 605 | Flexible non-insulated aluminium foil air ducts with steel wire frame   | -30 ... +250 (for M0)<br>-30 ... +150 (for M1) | +  | -   | Residential and industrial ventilation, air conditioning and heating systems, peripheral sections of large central utility systems with the maximum pressure 3000 Pa and special fire-resistance requirements to air ducts (M0 or M1 models).  |
| Isovent 605  | Flexible aluminium foil heat-insulated air ducts<br>ISO – thermal insulation;<br>SONO – sound-insulation.   | -30 ... +250 (for M0)<br>-30 ... +150 (for M1) | +  | -   | Residential and industrial ventilation, air conditioning and heating systems, peripheral sections of large central utility systems with the maximum pressure 3000 Pa and special fire-resistance requirements to air ducts (M0 or M1 models). Especially suitable for applications with requirements to thermal insulation (Iso series) or sound insulation (Sono series) to prevent condensate generation, heat and cold losses and noise level decrease. |
| Polyvent N   | Flexible non-insulated air ducts with steel wire frame covered with metalized polyester film (45 µm)  | -30...+120                                     | +  | -   | Residential and industrial ventilation, heating and air conditioning systems with no special requirements to the combustibility and temperature resistance, in heat accumulation units and peripheral sections of large central utility systems with the maximum pressure 3000 Pa.   |
| Isovent N    | Flexible insulated air ducts with steel wire frame covered with metalized polyester film (45 µm)<br>ISO – thermal insulation;<br>SONO – sound-insulation. | -30...+120                                     | +  | -   | Residential and industrial ventilation, air conditioning and heating systems with special flammability and temperature resisting requirements, in particular for applications with the need of heat insulation combined with flexible air ducts to prevent condensate generation and heat and cold losses as well as in peripheral sections of large central utility systems with the maximum pressure 3000 Pa.  |
| Polyvent 660 | Flexible PVC film non-insulated air ducts with steel wire frame (65 µm)   | -18...+70                                      | -  | -   | Residential and commercial ventilation systems.  |
| Polyvent 661 | Flexible PVC film non-insulated air ducts with steel wire frame (110 µm)  | -18...+70                                      | -  | -   | Residential and commercial ventilation systems.  |
| Polyvent 606 | Flexible non-insulated PVC film air ducts with steel wire frame (250 µm)  | -18...+90                                      | -  | +   | Residential, commercial and industrial ventilation and air conditioning systems operating in heavy-duty mode for humid air removal, removal of smoke, post-welding gases, powdered solid particles, waste chips, fibres, vapours, soot and low-abrasive materials.   |
| Polyvent 607 | Flexible non-insulated PVC film air ducts with steel wire frame (700 µm)  | -18...+90                                      | +  | +   | Industrial ventilation systems operating in heavy-duty mode for humid air removal, removal of smoke, post-welding gases, powdered solid particles, waste chips, fibres, vapours, soot and abrasive materials.  |

**Table 1 (continued)**

| Series             | Material  | Temperature mode, °C                           | Aspiration of chemical vapours and aggressive substances | Aspiration of abrasive and powdered particles | Application  |
|--------------------|---|--|--|---|--|
| Polyvent 600       | Flexible non-insulated air ducts with steel wire frame made of PVC-coated polyester fabric (250 µm) | -21...+110                                     | +  | +   | Industrial ventilation systems operating in heavy-duty mode, incl. agricultural and pharmaceutical applications for aspiration of granulated material, removal of chemical vapours, smoke, postwelding gases, powdered solid particles, waste chips, fibres, vapours, soot and low-abrasive dust and in environment with special temperature resistance requirements (up to +110 °C).              |
| Polyvent 601       | Flexible non-insulated air ducts with steel wire frame made of PVC-coated polyester fabric (250 µm) | -21...+110                                     | +  | +   | Industrial ventilation systems operating in heavy-duty mode, incl. agricultural and pharmaceutical applications for aspiration of granular and granulated material, removal of chemical vapours, smoke, postwelding gases, powdered solid particles, waste chips, fibres, vapours, soot and low-abrasive dust and in environment with special temperature resistance requirements (up to +110 °C). |
| Polyvent 620       | Flexible polyurethane non-insulated air ducts with steel wire frame (250 µm)                        | -21...+110                                     | +  | +   | Industrial ventilation systems, the ideal solution for application in woodwork and timber industry, car service and fuel stations, oil refineries. Used for removal of gas mixture with high abrasive dust content. Suitable for outside installation.   |
| Polyvent 621       | Flexible polyurethane non-insulated air ducts with steel wire frame (450 µm)                        | -21...+110                                     | +  | +   | Industrial ventilation systems, the ideal solution for application in woodwork and timber industry, car service and fuel stations, oil refineries. Used for removal of gas mixture with high abrasive dust content. Suitable for outside installation.   |
| Polyvent 665 Comby | Flexible non-insulated air ducts with steel wire frame covered with aluminium foil and polyether    | -30 ... +250 (for M0)<br>-30 ... +150 (for M1) | +  | -   | Residential ventilation and air conditioning systems of living quarters, administrative and public premises.   |
| Polyvent 615       | Flexible polyurethane non-insulated air ducts with steel wire frame (150 µm)                        | -18...+70                                      | -  | -   | Residential ventilation systems. Recommended for ventilation of child care centres, educational and medical facilities, spa resorts.   |

| Series               | Material  | Temperature mode, °C | Aspiration of chemical vapours and aggressive substances | Aspiration of abrasive and powdered particles | Application  |
|----------------------|---|----------------------|--|---|--|
| Aluvent              | Semi-flexible aluminium air ducts (50 µm, 80 µm, 100 µm)  | -30...+250           | +  | +   | Residential and industrial ventilation, air conditioning and heating systems with the maximum pressure 10 000 Pa.  |
| Thermovent           | Semi-flexible galvanized or stainless steel air ducts (80 µm, 100 µm)                             | -30...+700           | +  | +   | Residential and industrial ventilation, air conditioning and heating systems with the maximum pressure 10 000 Pa for hot air removal from boiler houses and smoke exhaust systems. |
| Thermovent Aero      | Stainless steel air ducts with high temperature resistance (100 µm)                               | -30...+800           | +  | +   | Residential and industrial ventilation, air conditioning and heating systems with the maximum pressure 10 000 Pa for hot air removal from boiler houses and smoke exhaust systems. |
| Thermovent Flex      | Semi-flexible corrugated stainless steel air ducts with high temperature resistance (100 µm)      | -30...+800           | +  | +   | Residential and industrial ventilation, air conditioning and heating systems with the maximum pressure 10 000 Pa for hot air removal from boiler houses and smoke exhaust systems. |
| Thermovent Aero Flex | Double-layer stainless steel air ducts with smooth internal surface and corrugated external layer | -30...+800           | +  | +   | Residential and industrial ventilation, air conditioning and heating systems with the maximum pressure 10 000 Pa for hot air removal from boiler houses and smoke exhaust systems. |



**Table 2. Chemical resistance  
of flexible and semi-flexible Aluvent air ducts**

| Air duct type                     | 615, 6150 | 660, 661,<br>602, 607 | 606, 6061 | 600, 601 | 620, 6201, 621 | Aluvent |
|-----------------------------------|-----------|-----------------------|-----------|----------|----------------|---------|
| DDT-kerosene                      | X         | A                     | A         | A        | A              | A       |
| Skydrol-oil for hydraulic systems | X         | O                     | O         | O        | O              | O       |
| Nitric acid 10 %                  | A         | A                     | A         | A        | A              | A       |
| Amyl alcohol                      | A         | A                     | A         | A        | A              | A       |
| Ammonium hydrate                  | A         | A                     | A         | A        | A              | A       |
| Acetylene                         | O         | O                     | O         | O        | O              | A       |
| Acetone                           | A         | X                     | X         | X        | O              | A       |
| Benzene                           | X         | X                     | X         | X        | O              | B       |
| Potassium bicarbonate             | A         | A                     | A         | A        | A              | A       |
| Butyl alcohol                     | X         | A                     | A         | A        | A              | A       |
| Butyl ether                       | O         | A                     | A         | A        | A              | O       |
| Vinyl chloride (monomer)          | X         | X                     | X         | X        | O              | O       |
| Glycerine                         | A         | C                     | C         | C        | C              | A       |
| Tannic acid                       | A         | A                     | A         | A        | A              | A       |
| Potassium carbonate               | A         | A                     | A         | A        | A              | X       |
| Sodium carbonate                  | A         | A                     | A         | A        | A              | A       |
| Xylene                            | X         | X                     | O         | O        | O              | A       |
| Hydraulic oil                     | O         | O                     | O         | O        | C              | O       |
| Methyl alcohol                    | A         | A                     | A         | A        | A              | A       |
| Formic acid                       | B         | O                     | O         | O        | C              | B       |
| Nitrobenzene                      | X         | X                     | X         | X        | O              | A       |
| Ozone                             | X         | A                     | A         | A        | A              | B       |
| Hydrogen peroxide                 | B         | A                     | A         | A        | A              | A       |
| Perchloroethylene                 | X         | O                     | O         | O        | O              | B       |
| Sodium chloride                   | A         | A                     | A         | A        | A              | B       |
| Natural gas dry                   | A         | A                     | A         | A        | A              | B       |
| Propane (gas)                     | A         | A                     | A         | A        | A              | A       |
| Sulphuric acid 10 %               | A         | A                     | A         | A        | A              | B       |
| Hydrogen sulfide, wet             | A         | O                     | O         | O        | O              | A       |
| Hydrogen sulfide, dry             | A         | O                     | O         | O        | O              | A       |
| Esters (non-flammable)            | O         | O                     | O         | O        | O              | O       |
| Hydrochloric acid 15 %            | A         | A                     | A         | A        | A              | O       |
| Spirits                           | O         | C                     | C         | C        | B              | O       |
| Toluene                           | X         | X                     | X         | X        | O              | A       |
| Jet oil JP-1                      | X         | A                     | A         | A        | A              | O       |
| Trichloroethylene (tri)           | X         | O                     | O         | O        | O              | C       |

|                          |   |   |   |   |   |   |
|--------------------------|---|---|---|---|---|---|
| Heavy-flammable          | N | N | J | J | J | J |
| Carbon monoxide          | A | 0 | 0 | 0 | 0 | A |
| Carbon dioxide           | A | A | A | A | A | A |
| Carbonic acid            | A | A | A | A | A | A |
| Pheron 12                | 0 | B | B | B | B | 0 |
| Ammonium phosphate       | 0 | A | A | A | A | B |
| Sodium phosphate         | A | A | A | A | A | A |
| Phosphoric acid 50 %     | A | A | A | A | A | B |
| Chlorine dry             | X | 0 | 0 | 0 | 0 | B |
| Potassium chlorate       | A | A | A | A | 0 | A |
| Aluminium chloride       | A | A | A | A | A | B |
| Ammonium chloride        | A | A | A | A | A | A |
| Ferric chloride          | A | 0 | 0 | 0 | 0 | X |
| Antimonous chloride 50 % | A | 0 | 0 | 0 | 0 | B |
| Zinc chloride            | A | A | A | A | A | C |
| Ethyl alcohol            | A | A | A | A | A | 0 |

**A** – High resistance

**0** – No data

**B** – Medium resistance

**J** – Heavy flammable (Yes)

**C** – Relative resistance

**N** – Not flammable (No)

**X** – No resistance

**Table 3. Chemical resistance of semi-flexible Thermovent air ducts**

| Air duct type  |                    |
|--|--------------------|
| Thermovent, Thermovent Aero, Thermovent Flex, Thermovent Aero Flex |                    |
| Ammonium hydroxide   | Resistant          |
| Nitric acid  | Up to 30 %, 100°C  |
| Barium chloride, dehydrate   | Up to 20 %, 100° C |
| Isopropyl alcohol  | Resistant          |
| Hydrochloric acid  | Up to 1 %, 50°C    |
| Potassium chromate   | Resistant          |
| Potassium bichromate   | Resistant          |
| Potassium hydroxide  | Up to 50 %, 20°C   |
| Fuel oil   | Resistant          |
| Caustic soda   | Up to 40 %, 90°C   |
| Sulphuric acid   | Up to 3 %, 50°C    |
| Toluene  | Resistant          |

## Air duct mounting

Correct air duct connection is of significant importance to ensure reliable operation and aerodynamic characteristics of mounted air ducts.

Flexible air ducts are connected to basic ventilation system components by various fittings or connected directly to final components as ventilation grilles, disk valves and fans.

A wide range of VENTS fittings is designed to consider variety of manifold air duct connections and facilitate mounting works a lot.

## Tools and materials for air duct mounting

- Construction meter
- Marker
- Cutting knife
- Flat-nose pliers or cutting pliers
- Gloves (for work with insulated air ducts)
- Cross-point screwdriver for clamp fixing
- Mounting tape
- Fixing clamps

## General rules

- Mounted air duct must be stretched to the maximum to avoid pressure loss
- Air duct must not be deflected and sagged.
- Keep bend radius as large as possible because the minimum air bend increases pressure drop. To level up this effect the bend radius must be equal to the double air duct diameter.
- Provide grounding during mounting operations as static electricity can be accumulated during transportation of air containing organic solvents along the air ducts.
- Air flow in the air duct must have spiral motion.
- Use metal connectors or reducers in case of layout through wall constructions.
- Take precautions not to deform or damage air duct during mounting.

**Warning!** To avoid deformation stretch Aluvent air ducts gradually from the middle to the ends.



## Air duct cutting

- Calculate the air duct length in such a way as to omit any sagging as mounted.
- Stretch the air duct to its maximum.
- Measure the required length and mark it.
- For non-insulated air ducts: cut air duct along a spiral turn with a sharp knife or scissors and cut the wire with cutting pliers.
- For insulated air ducts: first cut the outer sleeve with scissors. Use gloves for that.

## Connection to final component

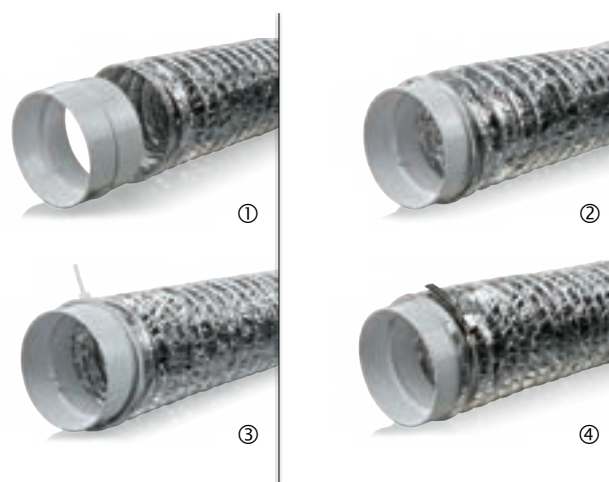
- Connect the air duct to the ventilation grille flange or fan branch pipe with respect to the spiral air motion.
- Fix it with clamps. Use respective diameter clamps. Make sure that the air duct is not deformed in the attaching points.

## Mounting with fittings

- Connect the air duct to a fitting by spiral turns, the branch pipe length for connection to the air duct must be at least 50 mm. Seal the joint with a mounting tape if required.
- Fix it with a fixing clamp.

## Mounting of non-insulated air ducts

- Cover the branch pipe with the air duct at least by 50 mm by spiral turnings over the air duct. Seal the joint with a mounting tape if required.
- Fix the air duct with a fixing clamp.



### Mounting of insulated air duct

- ① Cover the branch pipe with the air duct at least by 50 mm by spiral turnings over the air duct.
  - ② Pull off the insulation material. Seal the joint with a mounting tape if required.
  - ③ Fix the air duct with a fixing clamp.
  - ④ Pull away the insulation material.
- Fix the outer shell with a mounting tape by wrapping it twice around the air duct.

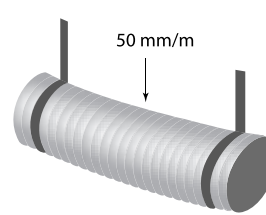
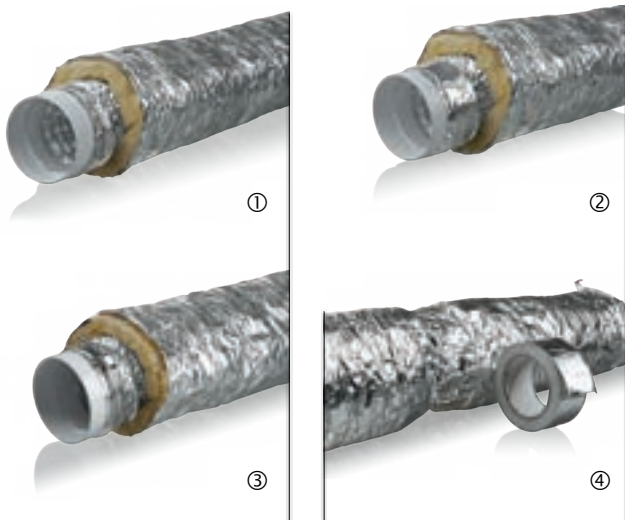


fig. 1 a

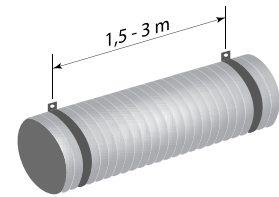


fig. 1 b

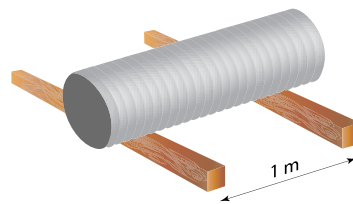


fig. 1 c

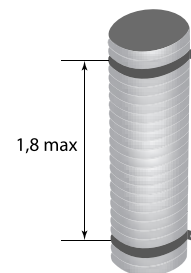


fig. 1 d

### Air duct application and use recommendations

- Maximum sagging of the air duct between two suspension points must not exceed 50 mm/m (fig. 1 a).
- Distance between two suspension points ranges between 1.5 to 3 m depending on the air duct type (fig. 1 b).
- Effective span distance for the flexible air duct must be 1 meter (fig. 1 c).
- In case of vertical air duct layout the distance between the fixing clamps shall be from 1 m to 1.8 m (fig. 1 d).

### Suspension points

- Flexible air ducts are not recommended for use in vertical shafts above 2 floors high.
- In case of application of the flexible air duct in high temperature operating conditions make sure that the air duct temperature resistance is suitable for the specific operating conditions.
- During installation in fireproof constructions of the floors/ceilings the air ducts must comply with fire safety requirements.
- Flexible air ducts are not suitable for routing through the floor or below ground. Contact with ground is not allowed.
- Use only specially designed air ducts for external mounting.
- Air ducts must be mounted far away enough from the places with excessive heat generation.
- Application scope of flexible air ducts can be limited by national norms and standards. Read information on air duct application and technical data before using the air ducts!

## Polyvent 605 series



605 M0  
605 M1



6051 M0  
6051 M1

Flexible non-insulated aluminium foil air ducts with steel wire frame

### Description

- Flexible air duct from aluminium foil laminated with polyether.
- Spiral frame from high-carbon steel wire.

### Features

- Pollution-free, no harmful substances emission during operation.
- No chlorine and cadmium content.
- high elasticity and temperature resistance: short-time resistance up to +250°C for M0, short-time resistance up to +150°C for M1.

- High rupture and mechanical resisting features.

### Recommended application

- Applied in residential and industrial ventilation, air conditioning and heating systems, peripheral sections of large central utility systems with the maximum pressure 3000 Pa and special fire-resistance requirements to air ducts (M0 or M1 models).
- Recommended for ventilation of child care centres, educational and medial facilities, spa resorts.

### Technical data

| Item                             | 605 M0, 605 M1  | 6051 M0, 6051 M1 |
|----------------------------------|---|------------------|
| Range of sizes [mm]              | Ø 102; 127; 152; 182; 203; 254; 315                             | 110x54; 60x204   |
| Air duct base                    | Aluminium foil laminated with polyester film                    |                  |
| Air duct wire                    | steel spring, 0.8-1.5 mm thick                                  |                  |
| Safety class                     | incombustible (for M0 model), self-extinguishing (for M1 model) |                  |
| Operating temperature range [°C] | -30 ... +250 (for M0 model), -30 ... +150 (for M1 model)        |                  |
| Standard length [m]              | 10  |                  |
| Available lengths (cutting) [m]  | 1; 1.5; 2.5; 3; 6   | 7.6; 10          |
| Air speed [m/s]                  | 30  |                  |
| Maximum operating pressure [Pa]  | 3000  |                  |

### Colour range



Aluminium  
(\_)

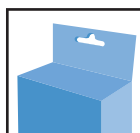


Brown  
(B)

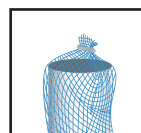
### Packing



Cardboard box

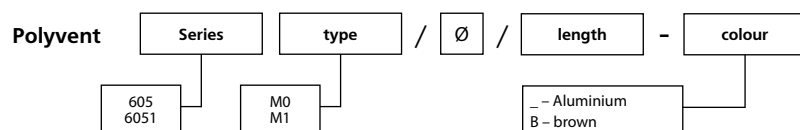


Unit coloured packing



Net

### Order code



### Accessories





### Polyvent N series



Flexible non-insulated air ducts with steel wire frame covered with metalized polyester film

#### Description

- Flexible air duct from metalized polyester film.
- Spiral frame from high-carbon steel wire.

#### Features

- Pollution-free flexible non-insulated air duct. No harmful substances emission during operation.
- high elasticity and temperature resistance: short-time resistance up to +120°C.

#### Recommended application

- Applied in residential and industrial ventilation, heating and air conditioning systems with no special requirements to the combustibility and temperature resistance, in heat accumulation units and peripheral sections of large central utility systems with the maximum pressure 3000 Pa.
- Recommended for ventilation of child care centres, educational and medial facilities, spa resorts.

#### Technical data

| Item                             | Polyvent N                                      |
|----------------------------------|---|
| Range of sizes [mm]              | Ø 82; 102; 127; 152; 182; 203; 254; 315; ...630 |
| Air duct base                    | metalized polyester film (45 µm)                |
| Air duct wire                    | steel spring, 0.8-1.5 mm thick                  |
| Operating temperature range [°C] | -30...+120                                      |
| Standard length [m]              | 1; 1.5; 3; 7.6                                  |
| Available lengths (cutting) [m]  | 1; 1.5; 3; 7.6                                  |
| Air speed [m/s]                  | 30  |
| Maximum operating pressure [Pa]  | 3000  |

#### Colour range

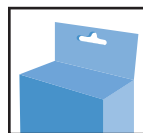


Aluminium ( )

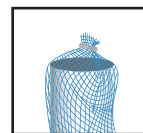
#### Packing



Cardboard box



Unit coloured packing



Net

Order code \_\_\_\_\_

Polyvent N  /

#### Accessories



Diffusers and air disk valves

Grilles and hoods

Backdraft dampers

Fittings

Clamps

## Isovent N series



Flexible insulated air ducts with steel wire frame covered with metalized polyester film

### Description

- Flexible insulated air duct from metalized polyether film.
- Spiral frame from high-carbon steel wire.

### Features

- Pollution-free flexible air duct insulated with mineral wool layer.
- No harmful products emission during operation.
- No chlorine and cadmium content.
- High elasticity and temperature resistance: short-time resistance up to +120°C.

### Recommended application

- Applied in residential and industrial ventilation, air conditioning and heating systems with special flammability and temperature resisting requirements, in particular for application with the need of heat insulation combined with flexible air ducts to prevent condensate generation and heat and cold losses as well as in peripheral sections of large central utility systems with the maximum pressure 3000 Pa.
- Recommended for ventilation of child care centres, educational and medial facilities, spa resorts.

### Technical data

| Item                             | Isovent N  |
|----------------------------------|--|
| Range of sizes [mm]              | Ø 82; 102; 127; 152; 162; 182; 203; 254; 315; ...630 |
| Air duct base                    | metalized polyester film (45 µm)                     |
| Air duct wire                    | steel spring, 0.8-1.5 mm thick                       |
| Insulation                       | Mineral wool, 25 mm                                  |
| Outer sleeve                     | metalized polyester film (45 µm)                     |
| Operating temperature range [°C] | -30...+120   |
| Standard length [m]              | 7.6  |
| Available lengths (cutting) [m]  | 7.6  |
| Air speed [m/s]                  | 30   |
| Maximum operating pressure [Pa]  | 3000   |

### Colour range



Aluminium  
( )

### Packing



Cardboard box

### Order code

Isovent N

Ø

/

length

### Accessories

Diffusers and air disk valves



Grilles and hoods



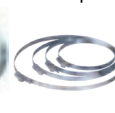
Backdraft dampers



Fittings



Clamps



### Polyvent 660 series



660



6601

Flexible PVC film non-insulated air ducts with steel wire frame (65 µm)

#### Description

- Flexible PVC air duct with spiral high-carbon steel wire frame.

#### Features

- High compression ratio.
- Heavy-flammable, flame-retarding, self-extinguishing.

#### Recommended application

- Applied in residential and commercial ventilation systems.
- The ideal solution for ventilation of living quarters and office premises.

#### Technical data

| Item                             | 660  | 6601           |
|----------------------------------|--|----------------|
| Range of sizes [mm]              | Ø 82; 102; 127; 152                              | 110x55; 60x204 |
| Air duct base                    | PVC film (65 µm)                                 |                |
| Air duct wire                    | steel spring, 0.8 mm thick                       |                |
| Operating temperature range [°C] | -18...+70  |                |
| Standard length [m]              | 1; 1.5; 3; 6                                     | 1; 1.5; 3; 6   |
| Available lengths (cutting) [m]  | 1; 1.5; 2.5; 3; 6; 15<br>(only for Ø 82/102/127) | 1; 1.5; 3; 6   |
| Air speed [m/s]                  | 30   |                |
| Maximum operating pressure [Pa]  | 3000   |                |

#### Colour range

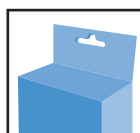


White ( )

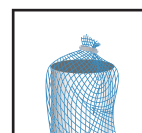
#### Packing



Cardboard box



Unit coloured packing



Net

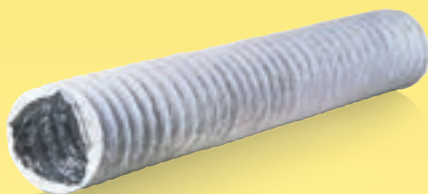
#### Order code

**Polyvent**    type    size    /    length  
660  
6601

#### Accessories



## Polyvent 665-Comby series



Flexible non-insulated air ducts with steel wire frame covered with aluminium foil and polyether

### Description

• Flexible heavy-duty air duct from multilayer aluminium foil, polyether and PVC with high-carbon steel wire frame.

### Features

Versus PVC foil air ducts:

- High temperature resistance;
- non-flammable internal layer, fire safety class M0 (up to 250 °C) or M1 (up to 150 °C).

Versus aluminium foil air ducts:

- High rupture resistance;
- better protection against outside mechanical impact;
- airtight, expansion- and deformation resisting.

### Recommended application

- Applied in residential ventilation and air conditioning systems of living quarters, administrative and public premises.

### Technical data

| Item                             | Polyvent 665-Comby   |
|----------------------------------|--|
| Range of sizes [mm]              | Ø 102.127; 152;  |
| Air duct, internal layer         | Aluminium foil laminated with polyester film incombustible (for M0 model), self-extinguishing (for M1 model) |
| Air duct, external layer         | PVC  |
| Air duct wire                    | steel spring, 0.8-2 mm thick   |
| Operating temperature range [°C] | -30 ... +250 (for M0), -30 ... +150 (for M1)   |
| Standard length [m]              | 1; 1.5; 2; 2.5; 3; 6; 10   |
| Available lengths (cutting) [m]  | 1; 1.5; 2; 2.5; 3; 6; 10   |
| Air speed [m/s]                  | 30   |
| Maximum operating pressure [Pa]  | 3000   |

### Colour range

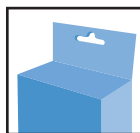


White  
( )

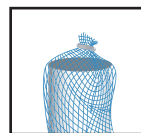
### Packing



Cardboard box



Unit coloured packing



Net

### Order code

Polyvent 665 – Comby

|                   |   |   |        |
|-------------------|---|---|--------|
| fire safety class | Ø | / | length |
| M0<br>M1          |   |   |        |

### Accessories



Diffusers and air disk valves

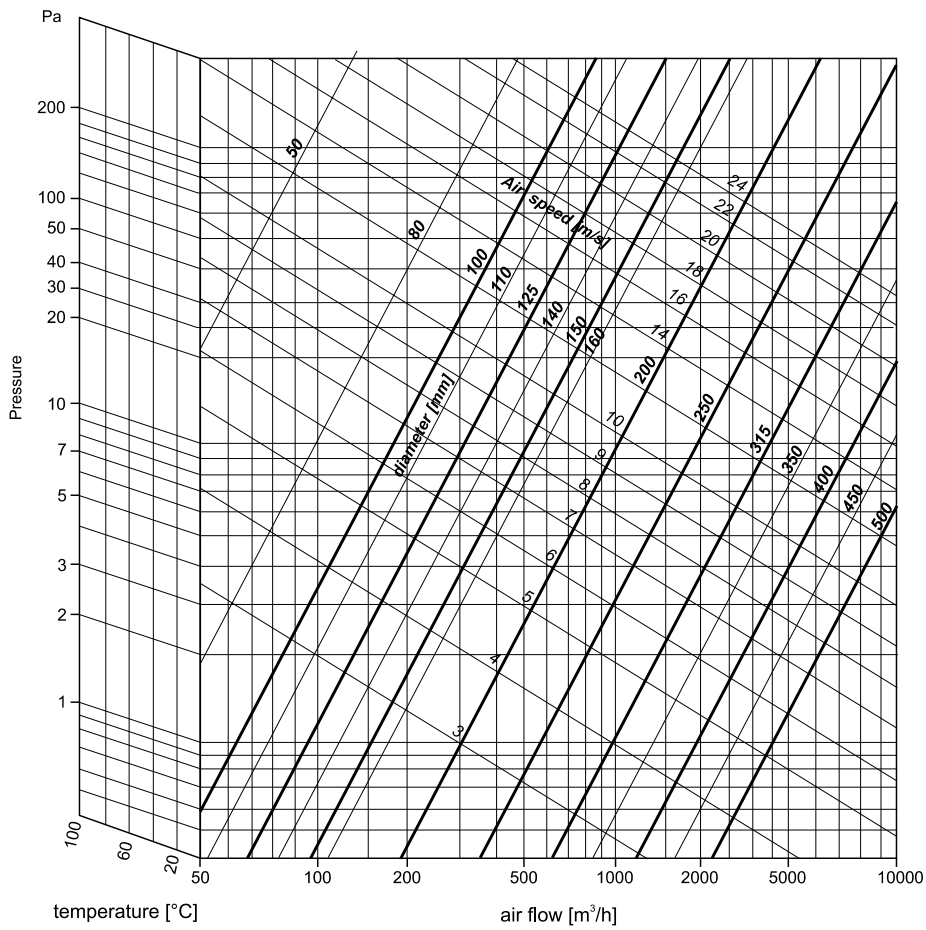
Grilles and hoods

Backdraft dampers

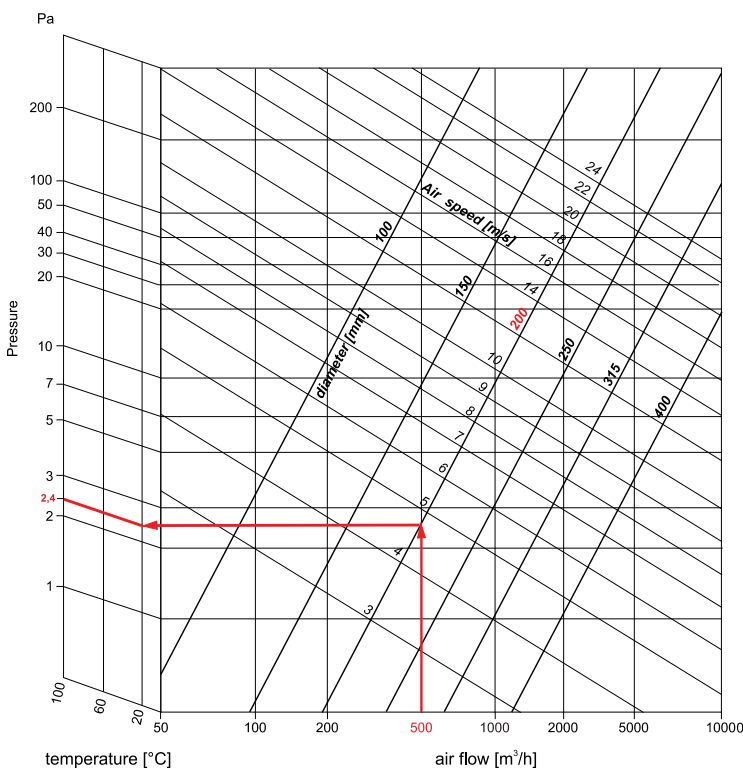
Fittings

Clamps

Pressure loss diagram per 1 m stretched air duct



Calculation example

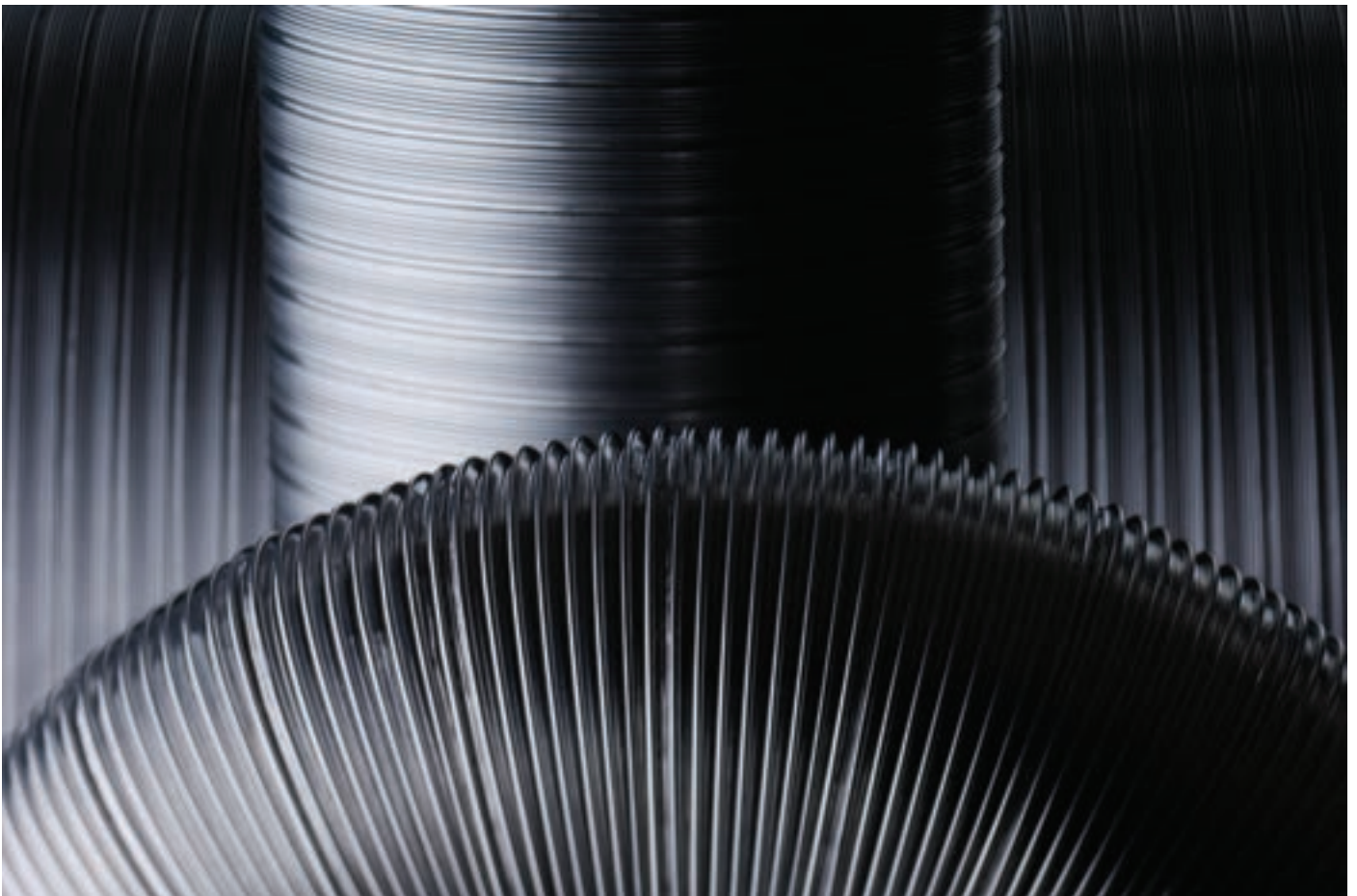


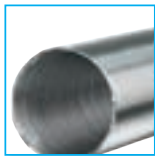
- Select a curve that matches the air duct diameter [mm], 200 mm in this case.
- Find the intersection point of this line with the vertical line of the required air flow in m³/h, 500 m³/h in this case.
- The horizontal line that shows the pressure loss in Pa per 1 m straight air duct crosses this intersection point.
- Multiply pressure loss value (2.4 Pa/m at 20°C) by total air duct length to get the total pressure loss value. To calculate pressure loss in case of bends consider each bend as extra air duct meter.





# AIR DUCTS FOR VENTILATION, HEATING AND AIR CONDITIONING

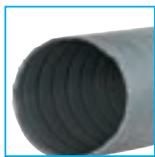




**Non-insulated air ducts  
Aluvent series**

Aluminium foil

page  
300

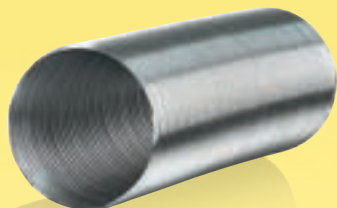


**Non-insulated air ducts  
Thermovent series**

galvanized and stainless steel

page  
301

## Aluvent series



Semi-flexible aluminium air ducts

### Description

• Flexible spiral seam aluminium band air ducts with high aerodynamic and strength characteristics.

### Features

- Made of incombustible, corrosion-resisting aluminium band.
- Specially designed high-quality locks ensure high seam tightness and total air tightness of the ducts.

- Low dynamic losses.
- Low weight, high elasticity and easy mounting.

### Recommended application

- Applied in residential and industrial ventilation, air conditioning and heating systems with the maximum pressure 10 000 Pa.
- For supply and exhaust ventilation.

### Technical data

| Item                             | Aluvent M  | Aluvent N | Aluvent S | Aluvent D |
|----------------------------------|--|-----------|-----------|-----------|
| Diameter range [mm]              | 80/100/110/120/125/130/140/150/160/180/200/250/315 |           |           |           |
| Material                         | Aluminium  |           |           |           |
| Number of layers                 | 1  | 1         | 1         | 2         |
| Total thickness [µm]             | 50   | 80        | 100       | 2x50      |
| Operating temperature range [°C] | -30...+ 250  |           |           |           |
| Maximum air speed [m/s]          | 30   |           |           |           |
| Maximum operating pressure [Pa]  | 8 000  | 10 000    | 10 000    | 10 000    |
| Minimum bend radius [mm]         | 0.7xD  | 0.73xD    | 0.76xD    | 0.85xD    |
| Length [m]                       | 1; 2; 2.5; 3; 6                                    |           |           |           |

### Packing



Thermal packing



Polyethylene bag



Cardboard box

### Order code

Aluvent    type    Ø /    length

M  
N  
S  
D

### Accessories



Diffusers and air disk valves

Grilles and hoods

Backdraft dampers

Fittings

Clamps

## Thermovent series



Semi-flexible galvanized or stainless steel air ducts

### Description

- Semi-flexible stainless or galvanized steel spiral seam air ducts with high aerodynamic and strength characteristics.

### Features

- Made of incombustible, corrosion-resisting stainless steel or galvanized steel band.
- Increased thermal resistance (up to 700°C).
- Superdense high-quality triple locks ensure high seam tightness and total air tightness of the ducts.
- Low dynamic losses.

- Low weight and easy mounting.

### Recommended application

- Applied in residential and industrial ventilation, air conditioning and heating systems with the maximum pressure 10 000 Pa.
- For supply and exhaust ventilation.
- Applied in the systems of hot air removal from boiler houses and smoke exhaust systems.

### Technical data

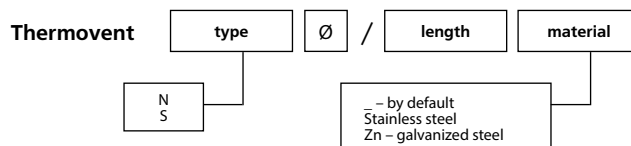
| Item                             | Thermovent N                                       |
|----------------------------------|--|
| Diameter range [mm]              | 80/100/110/120/125/130/140/150/160/180/200/250/315 |
| Material                         | Stainless steel                                    |
| Number of layers                 | 1  |
| Total thickness [µm]             | 80   |
| Operating temperature range [°C] | -30...+700   |
| Maximum air speed [m/s]          | 30   |
| Maximum operating pressure [Pa]  | 10 000   |
| Minimum bend radius [mm]         | 3xD  |
| Length [m]                       | 1; 2; 3; 6   |

### Packing



Cardboard box

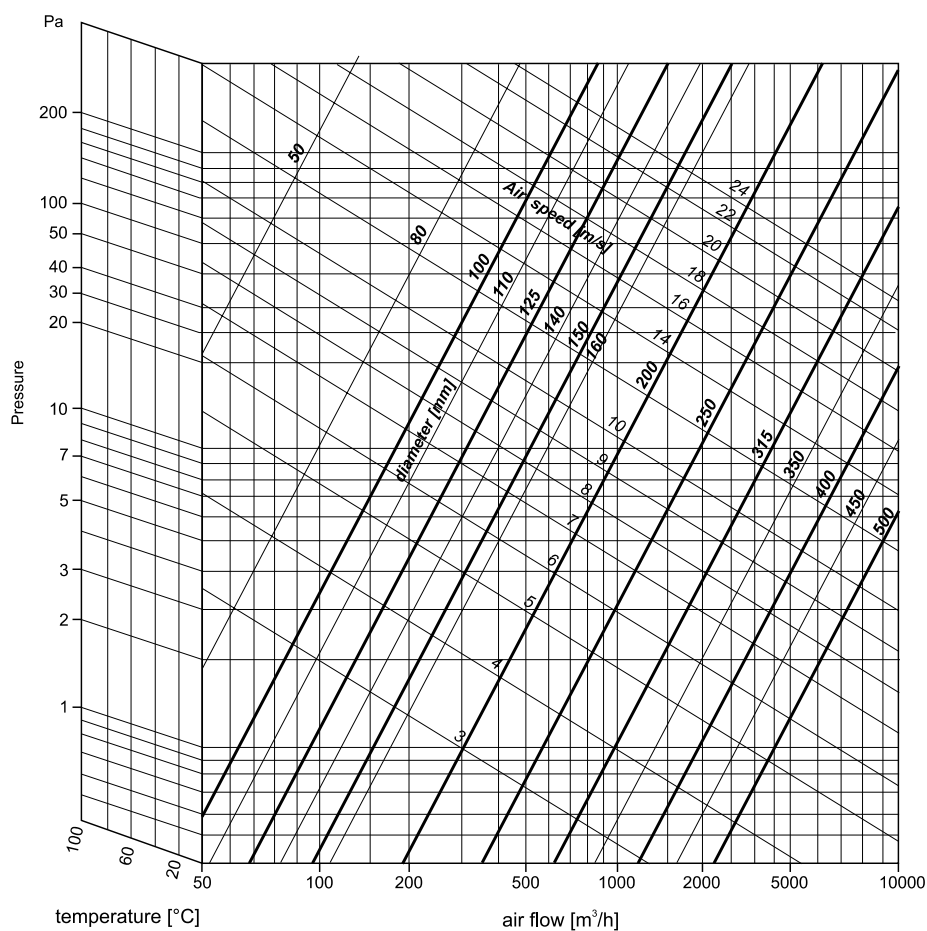
### Order code



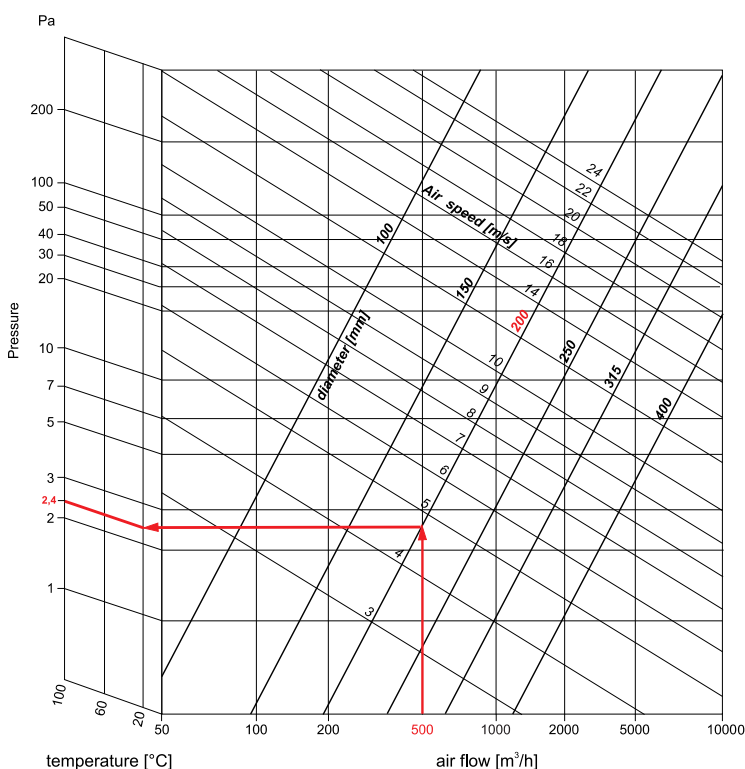
### Accessories



## Pressure loss diagram per 1 m stretched air duct



## Calculation example













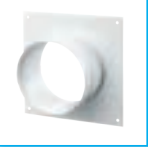
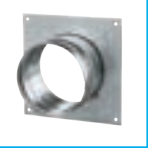
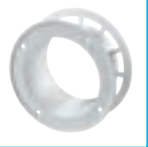






- Select a curve that matches the air duct diameter [mm], 200 mm in this case.
- Find the intersection point of this line with the vertical line of the required air flow in  $\text{m}^3/\text{h}$ , 500  $\text{m}^3/\text{h}$  in this case.
- The horizontal line that shows the pressure loss in Pa per 1 m straight air duct crosses this intersection point.
- Multiply pressure loss value (2.4 Pa/m at 20°C) by total air duct length to get the total pressure loss value. To calculate pressure loss in case of bends consider each bend as extra air duct meter.





# FITTINGS

|   |  |             |
|---|--|-------------|
|    | <b>Cross Tee<br/>KM Series</b><br>with polymeric coating         | page<br>306 |
|    | <b>Cross Tee<br/>KM...Zn Series</b><br>galvanized steel          | page<br>306 |
|   | <b>T-joint<br/>TM Series</b><br>with polymeric coating           | page<br>307 |
|  | <b>T-joint<br/>TM...Zn Series</b><br>galvanized steel            | page<br>307 |
|  | <b>Y-shaped T-joint<br/>TMY Series</b><br>with polymeric coating | page<br>308 |
|  | <b>Y-shaped T-joint<br/>TMY...Zn Series</b><br>galvanized steel  | page<br>308 |
|  | <b>Reducer<br/>RM Series</b><br>with polymeric coating           | page<br>309 |
|  | <b>Reducer<br/>RM...Zn Series</b><br>galvanized steel            | page<br>309 |
|  | <b>Flange<br/>FM Series</b><br>with polymeric coating            | page<br>310 |

|   |  |                     |
|---|--|---------------------|
|    | <p><b>Flange<br/>FM...Zn Series</b></p> <p>galvanized steel</p>    | <p>page<br/>310</p> |
|    | <p><b>Reducer<br/>FMK Series</b></p> <p>with polymeric coating</p> | <p>page<br/>311</p> |
|    | <p><b>Reducer<br/>FMK...Zn Series</b></p> <p>galvanized steel</p>  | <p>page<br/>311</p> |
|   | <p><b>Flange<br/>F Series</b></p> <p>with polymeric coating</p>    | <p>page<br/>312</p> |
|  | <p><b>Flange<br/>FK Series</b></p> <p>galvanized steel</p>         | <p>page<br/>312</p> |
|  | <p><b>Reducer<br/>PM series</b></p> <p>with polymeric coating</p>  | <p>page<br/>313</p> |
|  | <p><b>Reducer<br/>PM...Zn series</b></p> <p>galvanized steel</p>   | <p>page<br/>313</p> |
|  | <p><b>Mounting kit<br/>NM Isovent Series</b></p>                   | <p>page<br/>314</p> |
|  | <p><b>Clamps</b></p>   | <p>page<br/>316</p> |
|  | <p><b>Mounting tapes</b></p>                                       | <p>page<br/>318</p> |

## KM Series



## KM...Zn Series



### Application

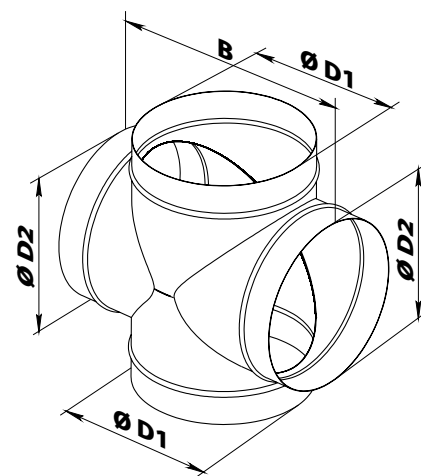
- For branch connections of the air ducts used in residential, public and industrial ventilation systems.
- For connection of various air ducts and their integration into complex ventilation systems.

### Design

- Made of special steel with polymeric coating (**KM** series) or galvanized steel (**KM...Zn** series).
- The cross tee is designed for connection of 4 air ducts of the same diameter at 90° angle.
- The cross tee model **KM 125/160** is equipped with two  $\varnothing 125$  mm and two  $\varnothing 160$  mm flanges.
- Ventilation system components are fixed by clamps or any other fixing devices.

### Overall dimensions

| Model      |               | Dimensions [mm] |             |     |
|------------|---------------|-----------------|-------------|-----|
|            |               | D1              | D2          | B   |
| KM 80      | KM 80 Zn      | 80              | 80          | 170 |
| KM 100     | KM 100 Zn     | 100             | 100         | 190 |
| KM 110     | KM 110 Zn     | 110             | 110         | 200 |
| KM 120     | KM 120 Zn     | 120             | 120         | 210 |
| KM 125     | KM 125 Zn     | 125             | 125         | 215 |
| KM 125/160 | KM 125/160 Zn | 125             | 160         | 215 |
| KM 130     | KM 130 Zn     | 130             | 130         | 220 |
| KM 140     | KM 140 Zn     | 140             | 140         | 230 |
| KM 150     | KM 150 Zn     | 150             | 150         | 240 |
| KM 160     | KM 160 Zn     | 160             | 160         | 250 |
| KM 180     | KM 180 Zn     | 180             | 180         | 260 |
| KM 200     | KM 200 Zn     | 200             | 200 <td 300 |     |
| KM 250     | KM 250 Zn     | 250             | 250         | 350 |
| KM 315     | KM 315 Zn     | 315             | 315         | 415 |



### Accessories



Diffusers and air disk valves

Grilles and hoods

Backdraft dampers

Clamps

Air ducts

Mounting tapes

**TM  
Series**



**TM...Zn  
Series**



**Application**

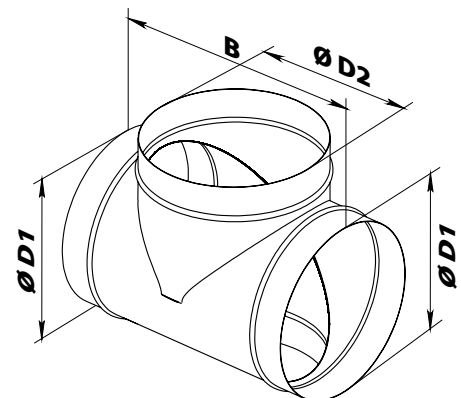
- For branch connections of the air ducts used in residential, public and industrial ventilation systems.
- For connection of various air ducts and their integration into complex ventilation systems.

**Design**

- Made of special steel with polymeric coating (TM series) or galvanized steel (TM...Zn series).
- The T-joint is designed for connection of 3 air ducts at 90° angle.
- The **TM 125/160** T-joint model is equipped with two à 125 mm flanges and one à 160 mm flange.
- Ventilation system components are fixed by clamps or any other fixing devices.

**Overall dimensions**

| Model      |               | Dimensions [mm] |     |     |
|------------|---------------|-----------------|-----|-----|
|            |               | D1              | D2  | B   |
| TM 80      | TM 80 Zn      | 80              | 80  | 170 |
| TM 100     | TM 100 Zn     | 100             | 100 | 190 |
| TM 110     | TM 110 Zn     | 110             | 110 | 200 |
| TM 120     | TM 120 Zn     | 120             | 120 | 210 |
| TM 125     | TM 125 Zn     | 125             | 125 | 215 |
| TM 125/160 | TM 125/160 Zn | 125             | 160 | 215 |
| TM 130     | TM 130 Zn     | 130             | 130 | 220 |
| TM 140     | TM 140 Zn     | 140             | 140 | 230 |
| TM 150     | TM 150 Zn     | 150             | 150 | 240 |
| TM 160     | TM 160 Zn     | 160             | 160 | 250 |
| TM 180     | TM 180 Zn     | 180             | 180 | 260 |
| TM 200     | TM 200 Zn     | 200             | 200 | 300 |
| TM 250     | TM 250 Zn     | 250             | 250 | 350 |
| TM 315     | TM 315 Zn     | 315             | 315 | 415 |



**Accessories**





**TMY  
Series**



**TMY...Zn  
Series**



## Overall dimensions

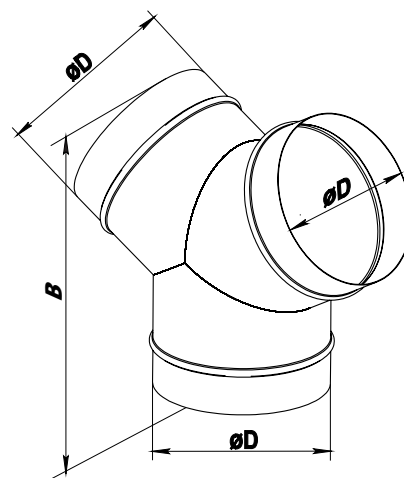
| Model   |            | Dimensions [mm] |     |
|---------|------------|-----------------|-----|
|         |            | D               | B   |
| TMY 80  | TMY 80 Zn  | 80              | 170 |
| TMY 100 | TMY 100 Zn | 100             | 190 |
| TMY 110 | TMY 110 Zn | 110             | 200 |
| TMY 120 | TMY 120 Zn | 120             | 210 |
| TMY 125 | TMY 125 Zn | 125             | 215 |
| TMY 130 | TMY 130 Zn | 130             | 220 |
| TMY 140 | TMY 140 Zn | 140             | 230 |
| TMY 150 | TMY 150 Zn | 150             | 240 |
| TMY 160 | TMY 160 Zn | 160             | 250 |
| TMY 180 | TMY 180 Zn | 180             | 260 |
| TMY 200 | TMY 200 Zn | 200             | 300 |
| TMY 250 | TMY 250 Zn | 250             | 350 |
| TMY 315 | TMY 315 Zn | 315             | 415 |

## Application

- For branch connections of the air ducts used in residential, public and industrial ventilation systems.
- For connection of various air ducts and their integration into complex ventilation systems.

## Design

- Made of special steel with polymeric coating (**TMY** series) or galvanized steel (**TMY...Zn** series).
- The T-joint is designed for connection of 3 air ducts with the same diameter at 120° angle.
- Ventilation system components are fixed by clamps or any other fixing devices.



## Accessories



Diffusers and air disk valves

Grilles and hoods

Backdraft dampers

Clamps

Air ducts

Mounting tapes

**RM  
Series**



**RM...Zn  
Series**



**Application**

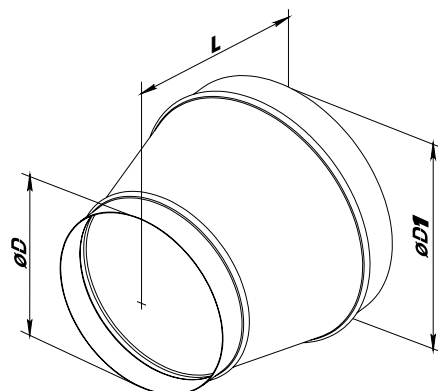
- For branch connections of the air ducts used in residential, public and industrial ventilation systems.
- For connection of various air ducts and their integration into complex ventilation systems.
- For connection of two various air duct diameters.

**Design**

- Made of special steel with polymeric coating (RM series) or galvanized steel (RM...Zn series).
- The reducer is designed for connection of two air ducts with various diameters.
- Ventilation system components are fixed by clamps or any other fixing devices.

**Overall dimensions**

| Model      |               | Dimensions [mm] |     |     |
|------------|---------------|-----------------|-----|-----|
|            |               | D               | D1  | L   |
| RM 80/100  | RM 80/100 Zn  | 80              | 100 | 115 |
| RM 100/125 | RM 100/125 Zn | 100             | 125 | 125 |
| RM 100/120 | RM 100/120 Zn | 100             | 120 | 125 |
| RM 125/150 | RM 125/150 Zn | 125             | 150 | 125 |
| RM 125/160 | RM 125/160 Zn | 125             | 160 | 144 |
| RM 150/160 | RM 150/160 Zn | 150             | 160 | 172 |
| RM 150/200 | RM 150/200 Zn | 150             | 200 | 172 |
| RM 160/200 | RM 160/200 Zn | 160             | 200 | 154 |
| RM 200/250 | RM 200/250 Zn | 200             | 250 | 172 |
| RM 250/315 | RM 250/315 Zn | 250             | 315 | 195 |



**Accessories**



## FM Series



## FM...Zn Series



### Application

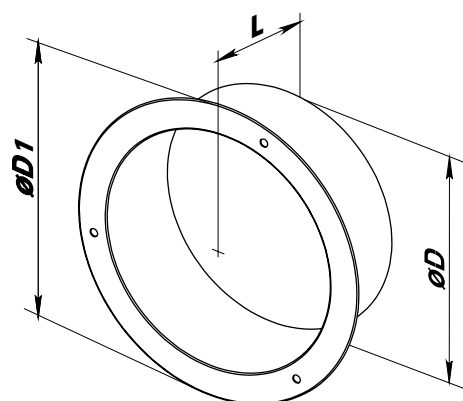
- For connection of flexible and plastic air ducts of the respective diameter.
- For wall or ceiling mounting.

### Design

- Made of special steel with polymeric coating (**FM** series) or galvanized steel (**FM...Zn** series).
- Fixing to wall or ceiling with screws.

### Overall dimensions

| Model  |           | Dimensions [mm] |     |    |
|--------|-----------|-----------------|-----|----|
|        |           | D               | D1  | L  |
| FM 80  | FM 80 Zn  | 80              | 116 | 62 |
| FM 100 | FM 100 Zn | 100             | 136 | 62 |
| FM 110 | FM 110 Zn | 110             | 146 | 62 |
| FM 120 | FM 120 Zn | 120             | 156 | 62 |
| FM 125 | FM 125 Zn | 125             | 162 | 62 |
| FM 130 | FM 130 Zn | 130             | 166 | 62 |
| FM 140 | FM 140 Zn | 140             | 176 | 62 |
| FM 150 | FM 150 Zn | 150             | 186 | 62 |
| FM 160 | FM 160 Zn | 160             | 196 | 62 |
| FM 180 | FM 180 Zn | 180             | 206 | 62 |
| FM 200 | FM 200 Zn | 200             | 236 | 62 |
| FM 250 | FM 250 Zn | 250 <td 286     | 62  |    |
| FM 315 | FM 315 Zn | 315             | 351 | 62 |



### Accessories



Diffusers and air disk valves

Grilles and hoods

Backdraft dampers

Clamps

Air ducts

Mounting tapes

**FMK  
Series**



**FMK...Zn  
Series**



**Application**

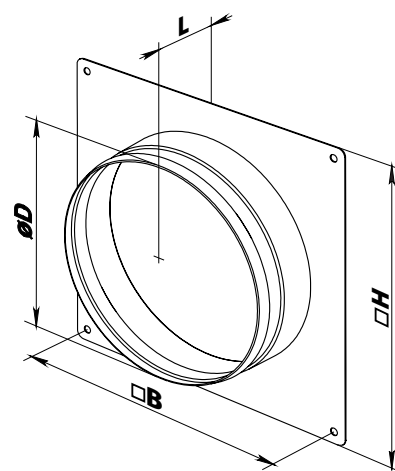
- For connection of flexible and plastic air ducts of the respective diameter.
- For wall or ceiling mounting.

**Design**

- Made of special steel with polymeric coating (**FMK** series) or galvanized steel (**FMK...Zn** series).
- The flanges are equipped with a rectangular connecting plate.
- Fixing to wall or ceiling with screws.

**Overall dimensions**

| Model   |            | Dimensions [mm] |     |     |    |
|---------|------------|-----------------|-----|-----|----|
|         |            | H               | B   | D   | L  |
| FMK 80  | FMK 80 Zn  | 130             | 114 | 80  | 50 |
| FMK 100 | FMK 100 Zn | 150             | 134 | 100 | 50 |
| FMK 110 | FMK 110 Zn | 158             | 142 | 110 | 50 |
| FMK 120 | FMK 120 Zn | 162             | 146 | 120 | 50 |
| FMK 125 | FMK 125 Zn | 170             | 156 | 125 | 50 |
| FMK 130 | FMK 130 Zn | 180             | 164 | 130 | 50 |
| FMK 140 | FMK 140 Zn | 190             | 174 | 140 | 50 |
| FMK 150 | FMK 150 Zn | 204             | 188 | 150 | 50 |
| FMK 160 | FMK 160 Zn | 210             | 194 | 160 | 50 |
| FMK 180 | FMK 180 Zn | 220             | 204 | 180 | 50 |
| FMK 200 | FMK 200 Zn | 250             | 234 | 220 | 50 |
| FMK 250 | FMK 250 Zn | 300             | 284 | 250 | 50 |
| FMK 315 | FMK 315 Zn | 360             | 344 | 315 | 50 |



**Accessories**



**F 100 – F 200  
Series**



**FK  
Series**



**F 250 – F 315  
Series**



**Application**

- For connection of flexible air ducts, plastic ducts and air disk valves of suitable diameter without flanges.
- For wall or ceiling mounting.

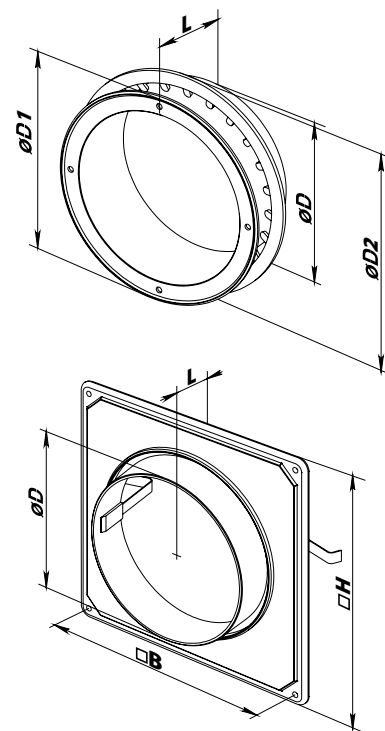
**Design**

- Made of high-quality plastic.
- F Series flanges are equipped with a retaining ring for fixation of flexible air ducts.
- The flange model **F 200/150** can be used as a connector for the air disk valves A 200 VR and A 200 R.
- **F 250** and **F 315** flanges are equipped with an extra X-deflector to reinforce the flange.
- **FK Series** flanges are equipped with a connecting plate.
- Fixing to wall or ceiling with screws.

**Overall dimensions**

| Model     | Dimensions [mm] |     |     |    |
|-----------|-----------------|-----|-----|----|
|           | D               | D1  | D2  | L  |
| F 80      | 80              | 115 | 120 | 62 |
| F 100     | 100             | 132 | 139 | 62 |
| F 125     | 125             | 157 | 165 | 62 |
| F 150     | 150             | 179 | 188 | 62 |
| F 200     | 200             | 232 | 240 | 62 |
| F 200/150 | 150             | 200 | 179 | 85 |
| F 250     | 250             | 283 | 290 | 62 |
| F 315     | 315             | 360 | 356 | 62 |

| Model  | Dimensions [mm] |     |     |    |
|--------|-----------------|-----|-----|----|
|        | H               | B   | D   | L  |
| FK 100 | 185             | 169 | 100 | 34 |
| FK 120 | 185             | 169 | 120 | 34 |
| FK 125 | 185             | 169 | 125 | 34 |



**Accessories**





**PM Series**



**PM...Zn Series**



**Application**

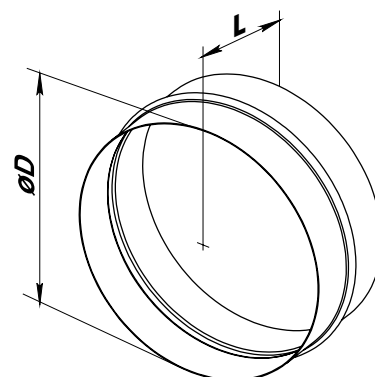
- For connection of flexible air ducts of the respective diameter.

**Design**

- Made of special steel with polymeric coating (**PM series**) or galvanized steel (**PM...Zn series**).
- Fixing with clamps.

**Overall dimensions**

| Model  |           | Dimensions [mm] |    |
|--------|-----------|-----------------|----|
|        |           | D               | L  |
| PM 80  | PM 80 Zn  | 80              | 62 |
| PM 100 | PM 100 Zn | 100             | 62 |
| PM 110 | PM 110 Zn | 110             | 62 |
| PM 120 | PM 120 Zn | 120             | 62 |
| PM 125 | PM 125 Zn | 125             | 62 |
| PM 130 | PM 130 Zn | 130             | 62 |
| PM 140 | PM 140 Zn | 140             | 62 |
| PM 150 | PM 150 Zn | 150             | 62 |
| PM 160 | PM 160 Zn | 160             | 62 |
| PM 180 | PM 180 Zn | 180             | 62 |
| PM 200 | PM 200 Zn | 200             | 62 |
| PM 250 | PM 250 Zn | 250             | 62 |
| PM 315 | PM 315 Zn | 315             | 62 |



**Accessories**



## NM Isovent Series



### Use

- NM Isovent mounting kits are designed for simple and comfortable connection of heat-insulated air ducts to the spigots of various VENTS ventilation equipment. The mounting kit consists of flanges and matching self-drilling screws as well as mounting clamps for air duct fixation.

- The flanges of NM Isovent mounting kit ensure tight connection of all the heat-insulated air duct components to the ventilation equipment spigots and prevent insulation delamination in the connection points.

- The flanges of NM Isovent mounting kit are made of high-quality impact-resistant polystyrene. The flanges are connected to the ventilation equipment spigots with self-drilling screws with drill.

### Modifications

- NM Isovent mounting kits are available in two modifications:

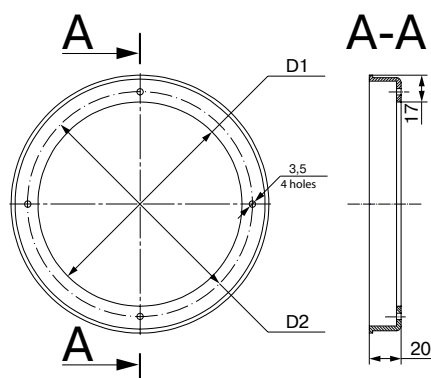
**NM Isovent 125** – compatible with round Ø 125 mm air ducts;

**NM Isovent 150** – compatible with round Ø 150 mm air ducts;

### Design

### Overall dimensions

| Model          | D1, mm | D2, mm |
|----------------|--------|--------|
| NM Isovent 125 | 129    | 141    |
| NM Isovent 150 | 154    | 170    |



### Delivery set

NM Isovent mounting kit delivery set includes:

- Flange 2 items
- Self-drilling screws with drill 8 items
- Mounting clamp 2 items
- Packing 1 item

■ **Mounting example of the heat-insulated air ducts with NM Isovent mounting kit**



Cover the air handling unit spigots with the flanges from NM Isovent mounting kit and fix those with self-drilling screws with drill.



Cover the air handling unit spigots with the inner hoses of the heat-insulated air ducts and fix those with metal clamps (special accessory).



Tuck the inner insulation layer of the air ducts under the flanges of NM Isovent mounting kit.



Cover the flanges of NM Isovent mounting kit with inner hoses of heat-insulated air ducts by pressing the hoses tightly against the air handling unit casing and fixing those with clamps (included into delivery).



Tighten the connection point between the inner hose of the heat-insulated air ducts and the flanges of NM Isovent mounting kit with clamps.



Heat-insulated air ducts have reliable connection to the air handling unit spigots.

**The unit is ready to operate!**

## CZK Series



### Application

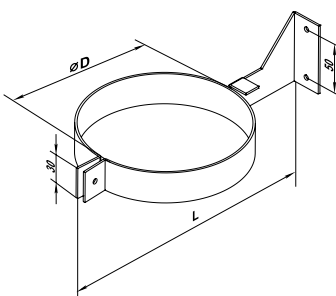
The quick-release clamps are designed for quick and reliable connection of various round ventilation system components.

### Design

The clamp is made of galvanized steel band and sealed with foamed rubber on the internal side for vibration reducing. The clamp is suitable for wall or ceiling mounting.

### Overall dimensions

| Model   | Dimensions [mm] |     | Weight [kg] |
|---------|-----------------|-----|-------------|
|         | ∅D              | L   |             |
| CZK 100 | 100             | 204 | 0.21        |
| CZK 125 | 125             | 229 | 0.22        |
| CZK 150 | 150             | 254 | 0.25        |
| CZK 160 | 160             | 264 | 0.26        |
| CZK 200 | 200             | 304 | 0.31        |
| CZK 250 | 250             | 354 | 0.35        |
| CZK 315 | 315             | 419 | 0.42        |



## CZ Series



### Application

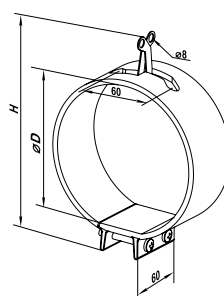
The quick-release clamp is designed for quick and reliable connection of spigots and round-section ventilation system elements (for example, filters, heaters, fans, silencers). The clamp makes it easy to install and remove the fans for maintenance and cleaning.

### Design

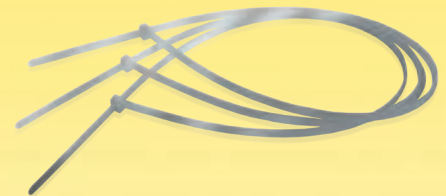
The clamp is made of galvanized steel band and sealed with foamed rubber on the internal side for better tight connection and vibration reducing. The quick-release clamps are tightened with two bolts.

### Overall dimensions

| Model  | Dimensions [mm] |     | Weight [kg] |
|--------|-----------------|-----|-------------|
|        | ∅D              | H   |             |
| CZ 100 | 100             | 172 | 0.206       |
| CZ 125 | 125             | 198 | 0.232       |
| CZ 150 | 150             | 224 | 0.296       |
| CZ 160 | 160             | 232 | 0.358       |
| CZ 200 | 200             | 274 | 0.42        |
| CZ 250 | 250             | 326 | 0.55        |
| CZ 315 | 315             | 380 | 0.65        |



## C series (nylon)



### Application

The nylon clamp is one of the fastest, cost-effective and comfortable fixing devices for connection of the air ducts to the branch pipe and interconnection any ductworks. Suitable for operation range from -40°C up to +85°C.

### Design

The clamps are made of high quality self-extinguishing nylon with high mechanical durability. The edged locking device provides any diameter fixation. The clamps length varies from 370 mm to 1220 mm and the width from 4.8 to 9 mm. NZC snips can be supplied together with clamps for more comfortable tightening and cutting.

### Overall dimensions

| Model       | Dimensions [mm] |     |      |
|-------------|-----------------|-----|------|
|             | ∅D              | H   | L    |
| C 370/100 N | 102             | 4.8 | 370  |
| C 530/100 N | 140             | 7.6 | 530  |
| C 710/100 N | 190             | 9   | 710  |
| C 780/100 N | 229             | 9   | 780  |
| C 912/100 N | 263             | 9   | 912  |
| C1220/100 N | 365             | 9   | 1220 |



NZC snips



**C Series**



**CB Series**



**CBR Series**



**Application**

The clamps are designed for quick and reliable mounting and connection of various round ventilation system components. The clamps facilitate installation process and fan removal for servicing and maintenance.

**Design**

• C series clamps are made of stainless steel band and CZ series clamps are made of galvanized steel band. The clamps are tightened with a screw.

• CB series clamps are the stainless steel quick-release clamps equipped with a stainless steel swing screw. The clamps are tightened with a screw.

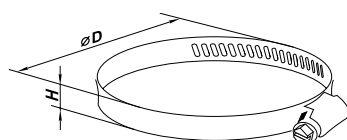
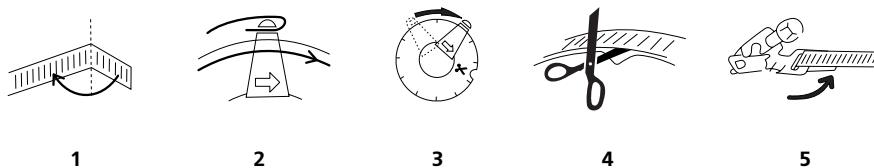
• The **CBR 3000** model is a band clamp in plastic casing (roll 30 m x 9 mm x 0.8 mm + 50 locking devices SU 50). Get the required clamp diameter with a clamp band of respective length and a locking device. The clamps are tightened with a screw. Snip cutters are everything you need to get the required clamp diameter as the plastic casing has a special design and necessary marking.

Use:

1. Bend the edge of the band;
2. Fix the bent end inside the band holder;
3. Turn the band holder up to the required diameter marking on the casing;
4. Cut the band according to the marking on the casing;
5. Fix the locking device on the band clamp.

**Overall dimensions**

| Model | Dimensions [mm] |   |
|-------|-----------------|---|
|       | ØD              | H |
| C 100 | 90-110          | 9 |
| C 125 | 110-130         | 9 |
| C 150 | 140-160         | 9 |
| C 160 | 150-170         | 9 |
| C 200 | 190-210         | 9 |
| C 250 | 240-260         | 9 |
| C 315 | 300-330         | 9 |



Locking device SU 50 for CBR 3000

**Overall dimensions**

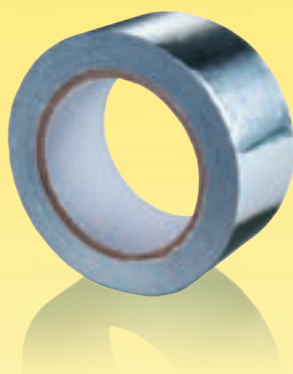
| Model     | Dimensions [mm] |   |
|-----------|-----------------|---|
|           | ØD              | H |
| CB 60-110 | 60-110          | 9 |
| CB 60-135 | 60-135          | 9 |
| CB 60-165 | 60-165          | 9 |



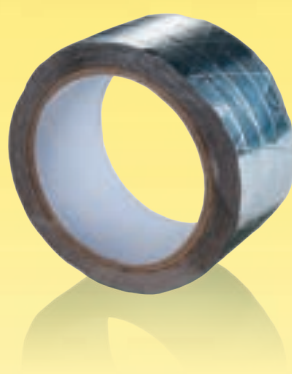
Easy locking mechanism for the CB and CBR clamps



## ALT Series



## ART Series



## PVT Series



### Application

Insulating material for various construction, repair and mounting operations at ventilation and air conditioning systems.

Insulation and protection of pipeline butt joints, air ducts, casings, assembly units, etc.

Sealing of joints and seams in case of reflecting material insulation to reduce thermal losses.

Reliable protection of equipment components against vapour, dirt and dust penetration. Corrosion protection.

### Design

**The aluminium adhesive tape ALT** is a composite material that consists of aluminium and PET foil covered with glue layer. The tape is supplied in rolls and the glue layer is protected with an extra protecting layer.

**The aluminium adhesive tape ART** is a composite material that consists of aluminium foil reinforced with PET film and fibreglass that is covered with glue. Due to synthetic fibres the tape has higher mechanical durability as compared to standard adhesive tape.

**The adhesive PVC tape** is an insulation tape made of plasticized PVC base covered with a glue layer.

- initial good adhesion only increases with time;
- sufficient stability against sliding;
- high thermal resistance;
- high solvent resistance;
- increased UV resistance;
- durability.

### ALT and ART tape overall dimensions

|                                 | ALT 050/50                  | ALT 050/10                  | ART 050/50                 | ART 050/10                 |
|---------------------------------|-----------------------------|-----------------------------|----------------------------|----------------------------|
| Length [m]                      | 50                          | 10                          | 50                         | 10                         |
| Width [mm]                      | 50                          | 50                          | 50                         | 50                         |
| Base thickness [µm]             | 30                          | 30                          | 55                         | 55                         |
| Total tape thickness [µm]       | 32                          | 32                          | 96                         | 96                         |
| Breaking force                  | 57 N / 25 mm <sup>2</sup>   | 57 N / 25 mm <sup>2</sup>   | 336 N / 25 mm <sup>2</sup> | 336 N / 25 mm <sup>2</sup> |
| Elongation at break [no more %] | 3                           | 3                           | 6                          | 6                          |
| Adhesiveness                    | 8.25 N / 25 mm <sup>2</sup> | 8.25 N / 25 mm <sup>2</sup> | 10 N / 25 mm <sup>2</sup>  | 10 N / 25 mm <sup>2</sup>  |
| Operating temperature [°C]      | +10 ... +40                 | +10 ... +40                 | +10 ... +40                | +10 ... +40                |
| Max. working area surface [°C]  | +100                        | +100                        | +100                       | +100                       |
| UV-resistance                   | yes                         | yes                         | yes                        | yes                        |

### PVT tape overall dimensions

| Type       | Length [m] | Width [mm] | Thickness [mm] |
|------------|------------|------------|----------------|
| PVT 050/10 | 10         | 50         | 0.18           |
| PVT 050/30 | 30         | 50         | 0.18           |
| PVT 050/50 | 50         | 50         | 0.18           |

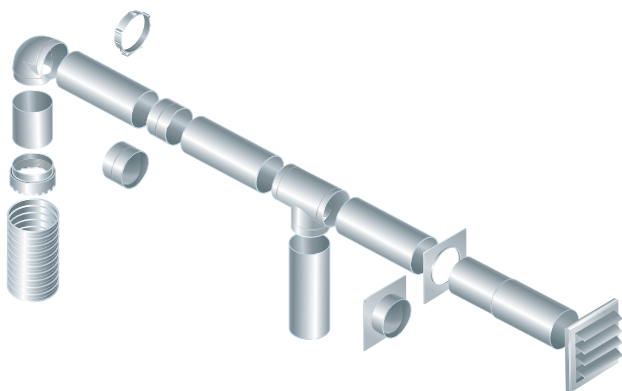
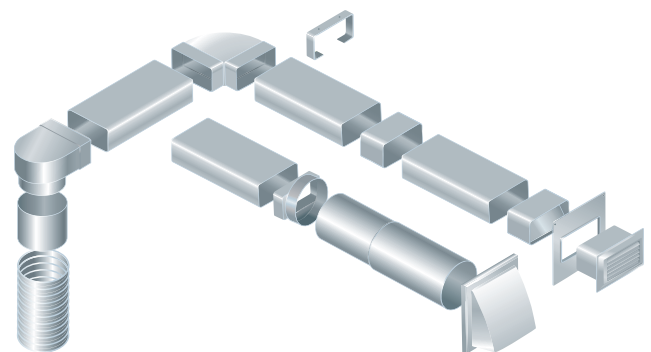


# FLAT AND ROUND PVC DUCTWORKS

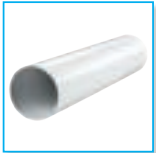
"Plastivent" air ductwork system is the ideal solution for arrangement of ventilation systems in small and medium-sized residential, office and commercial premises as well for connection of cooker hoods, exhaust hoods, cowls and other exhaust equipment. It includes rectangular 55x110, 60x120, 60x204 mm air ducts, round Ø 100, 125, 150, 200 mm air ducts and a great variety of fittings such as bends, reducers, connectors, etc. Operation temperature from -30 °C up to +70 °C.

### Basic advantages of "Plastivent" system:

- A great variety of fittings designed for assembly of complex ductworks with any geometry based exclusively on "Plastivent" system components.
- Smooth inner duct surface provides low air resistance.
- Corrosion resistant properties ensure long service life.
- Low weight.
- Ventilation system based on "Plastivent" air ducts produces lower noise level as compared to other systems with corrugated or steel air ducts.
- Low thermal conductivity.
- Environmentally friendly plastic used for manufacture of "Plastivent" system does not sustain combustion.



- Extremely easy mounting due to no complicated assembly operations and special tools.
- Small overall dimensions of the rectangular components allow using the system in limited area above false ceilings.
- Aesthetic view makes the system suitable for mounting in ready-made premises.



**Round duct**

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**Round telescopic duct**

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**90° bend for round ducts**

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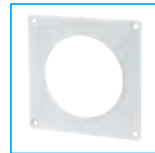
**45° bend for round ducts**

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**T-joint for round ducts**

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**Wall plate for round ducts**

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**Round duct connector**

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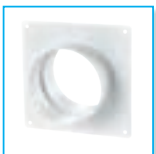
**Connector with backdraft damper for round ducts**

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**Connector with backdraft damper and wall plate for round ducts**

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**Connector with plate for round ducts**

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**Reducer**

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**Reducer**

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**Step round reducer**

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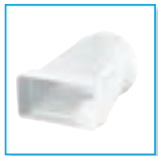
**Step round reducer**

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**Round ducts connectors  
with condensation traps**

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**Round to flat connector**

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**Round flexible duct  
connector**

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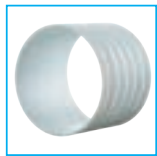
**Round flexible duct  
connector**

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**Round flexible duct  
connector**

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**Round flexible duct  
connector**

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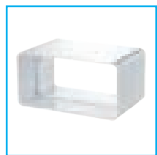
**Holder for round ducts**

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**Flat duct**

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**Flat duct connector**

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**Flat duct connector  
with damper**

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**Flexible flat duct  
connector**

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**Air duct connector with  
a plate**

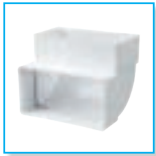
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**Air duct connector with  
a plate and a back valve**

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**Vertical 90° bend for flat ducts**

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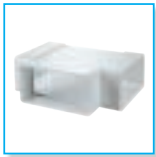
**Horizontal 90° bend for flat ducts**

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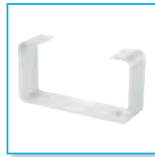
**Versatile flat angular connector**

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**T-joint for flat ducts**

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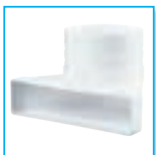
**Flat duct holder**

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**90° connecting bend for flat and round ducts**

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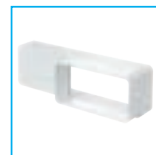
**90° connecting bend for flat and flexible round ducts**

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**T-joint for flat and round ducts**

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**Reducer for flat ducts**

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**Wall plate for flat ducts**

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**End grille**

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**End grille with air pass regulation**

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**Reducer for flat and round ducts**

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**Wall plate with flange**

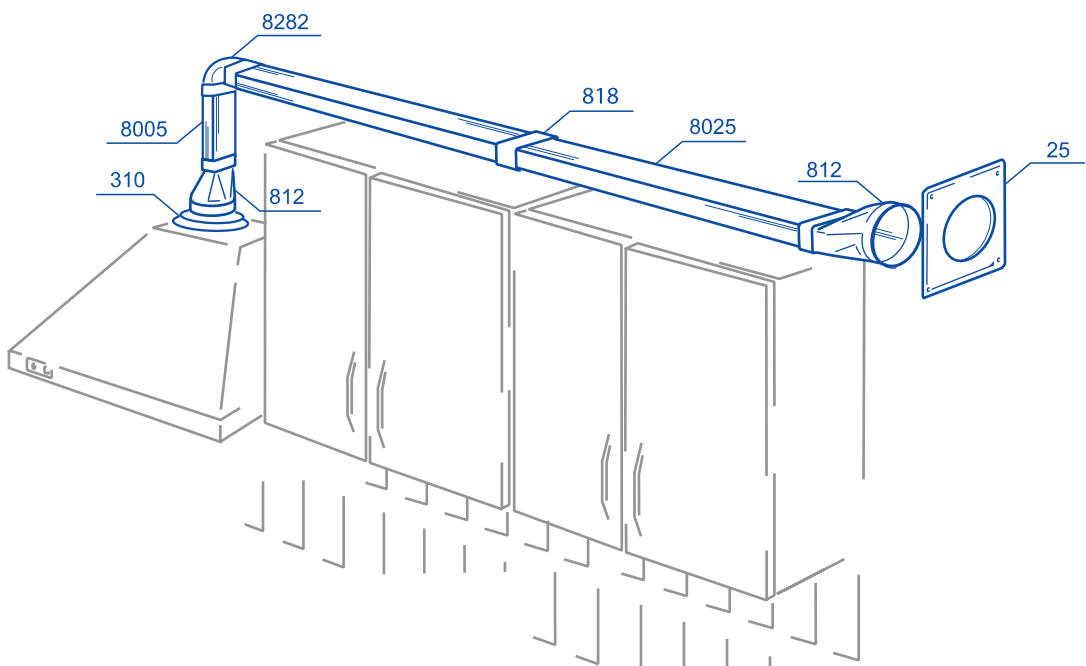
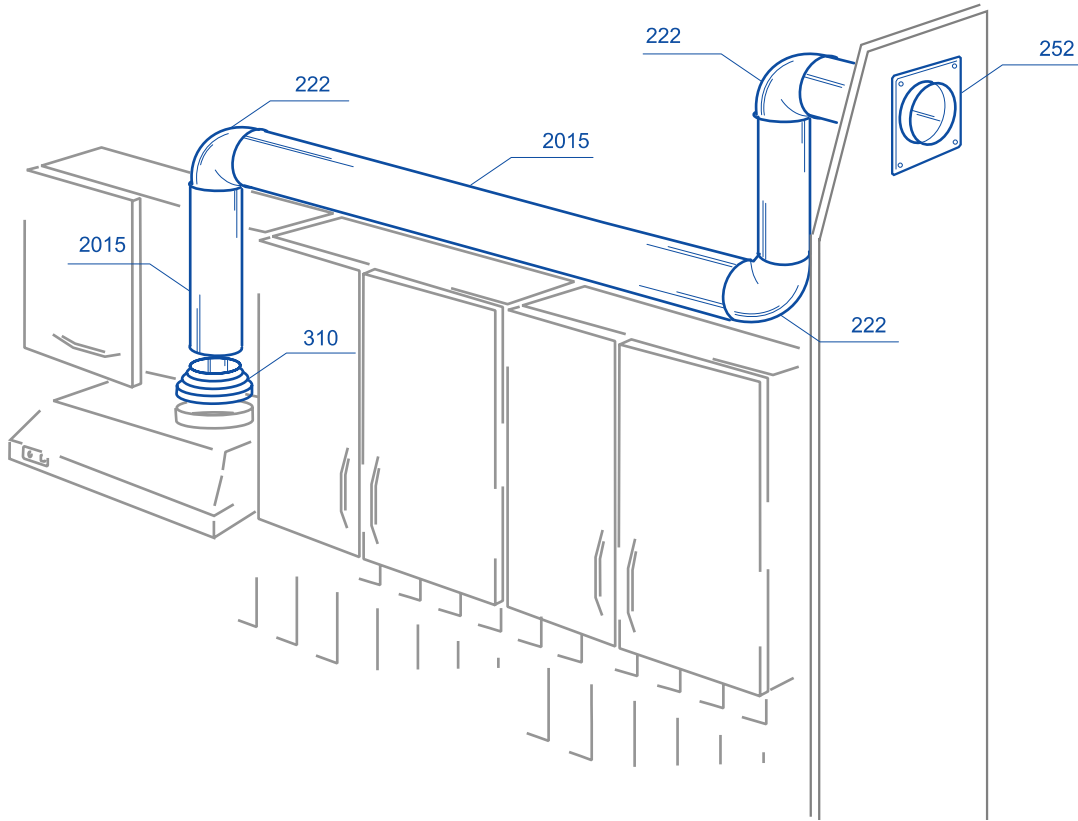
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**Round to flat connector (symmetric)**

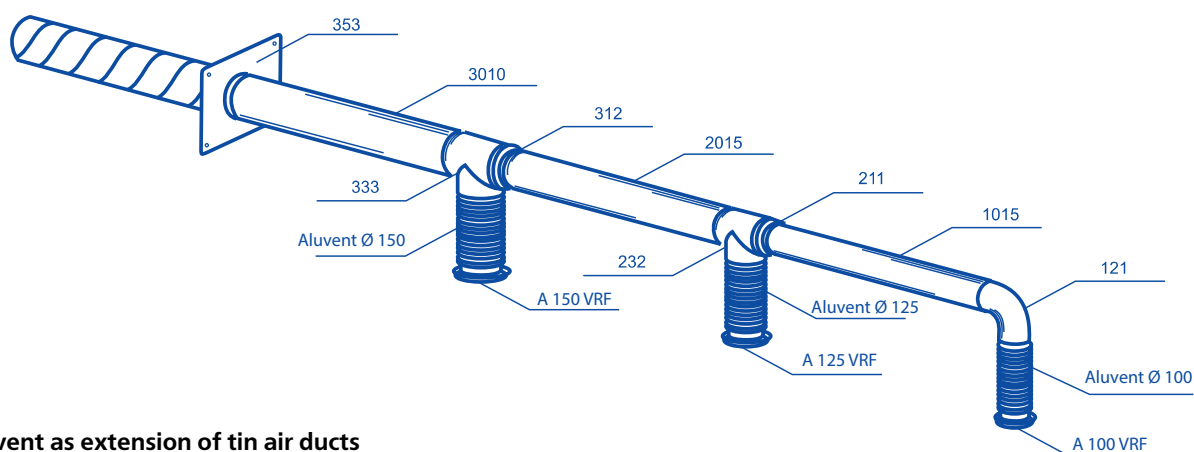
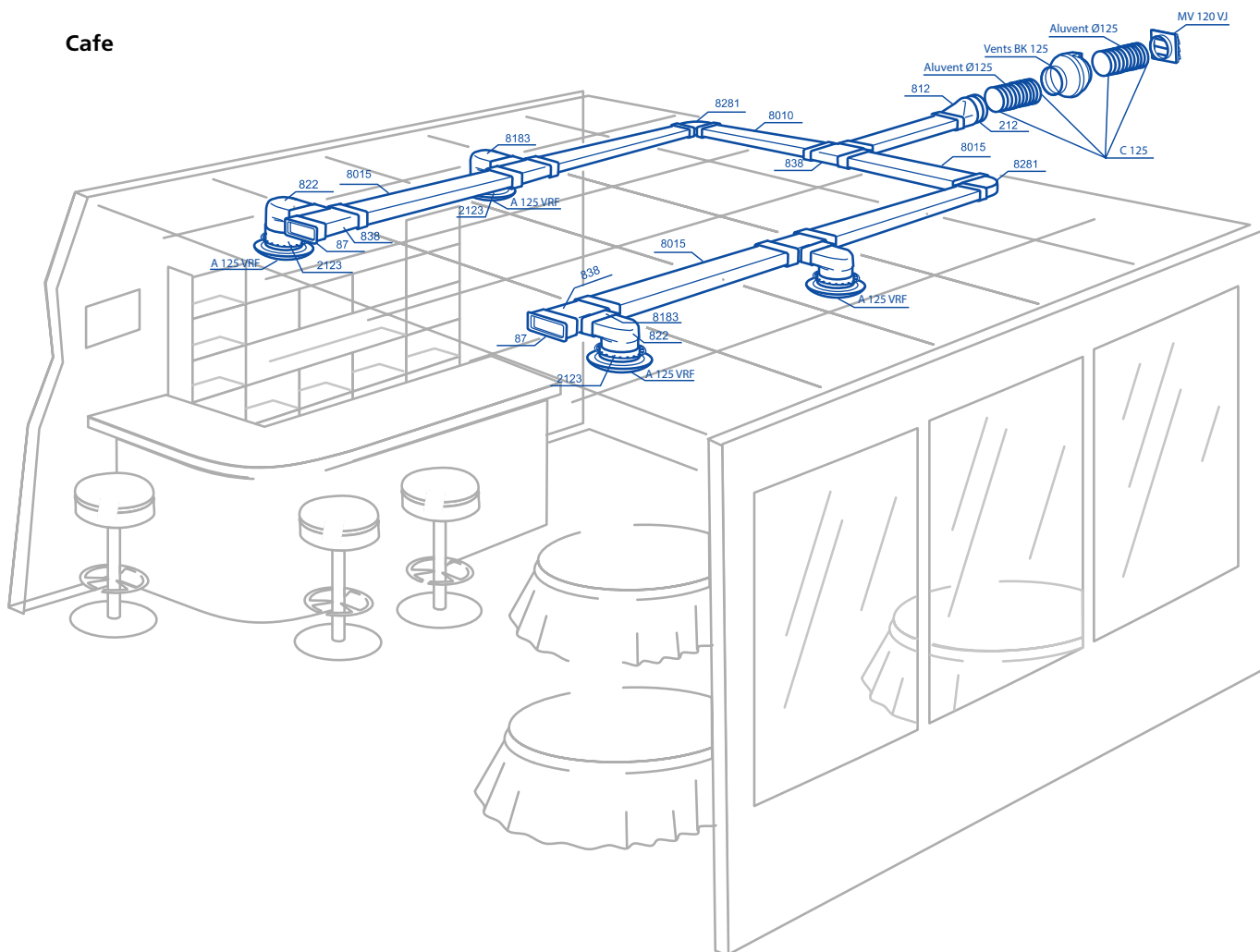
page  
351

Kitchen

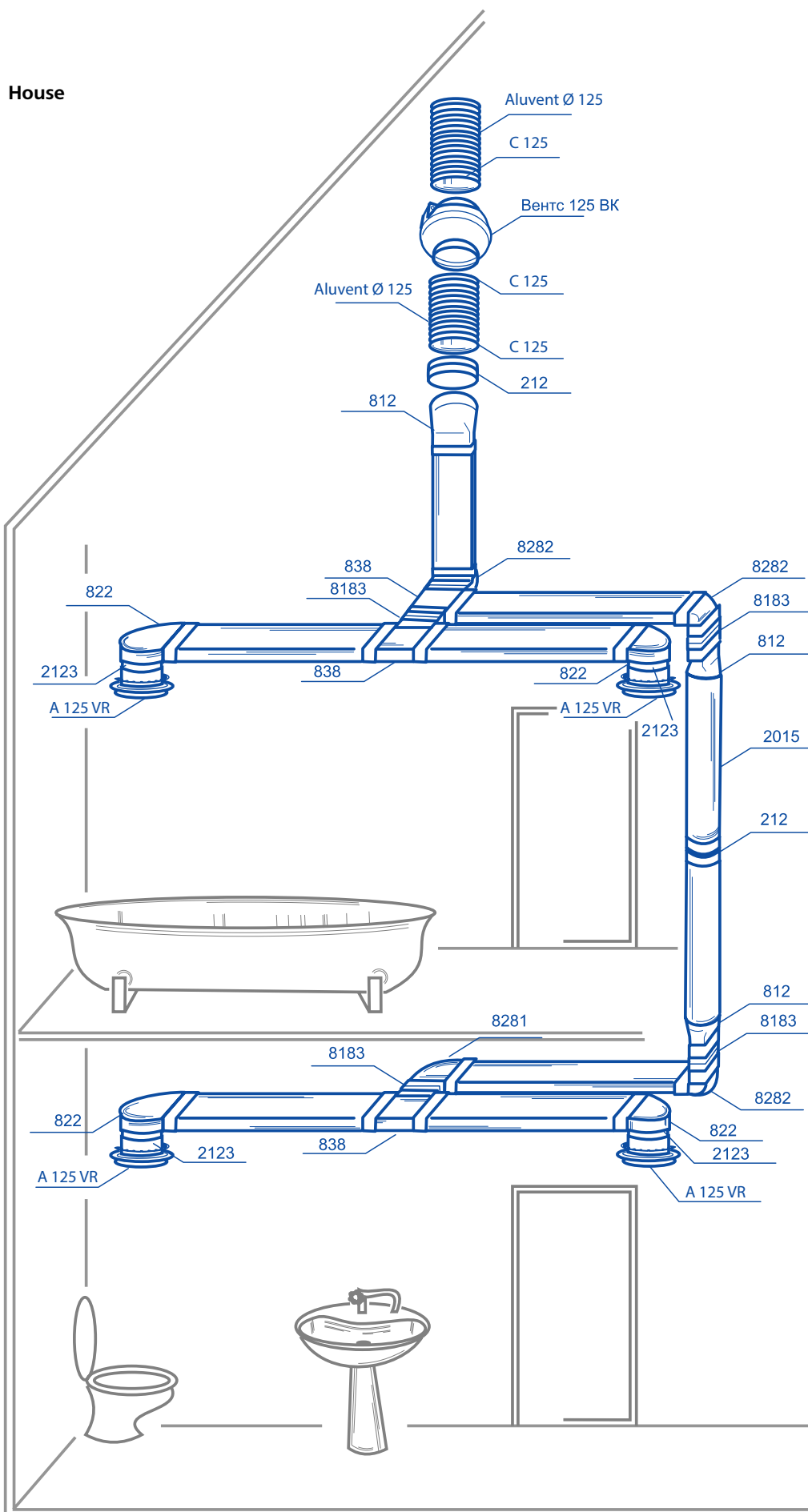




Cafe

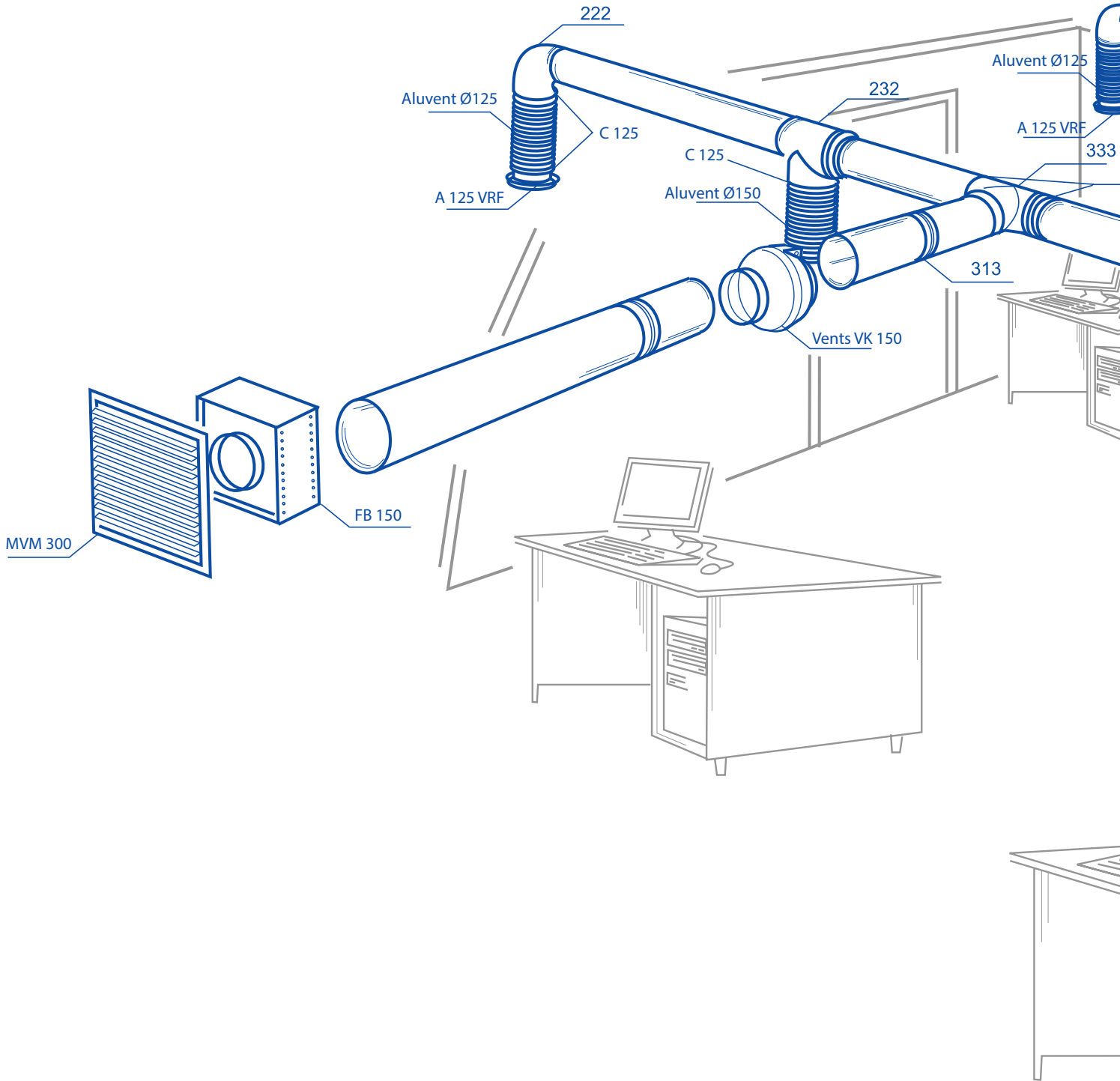


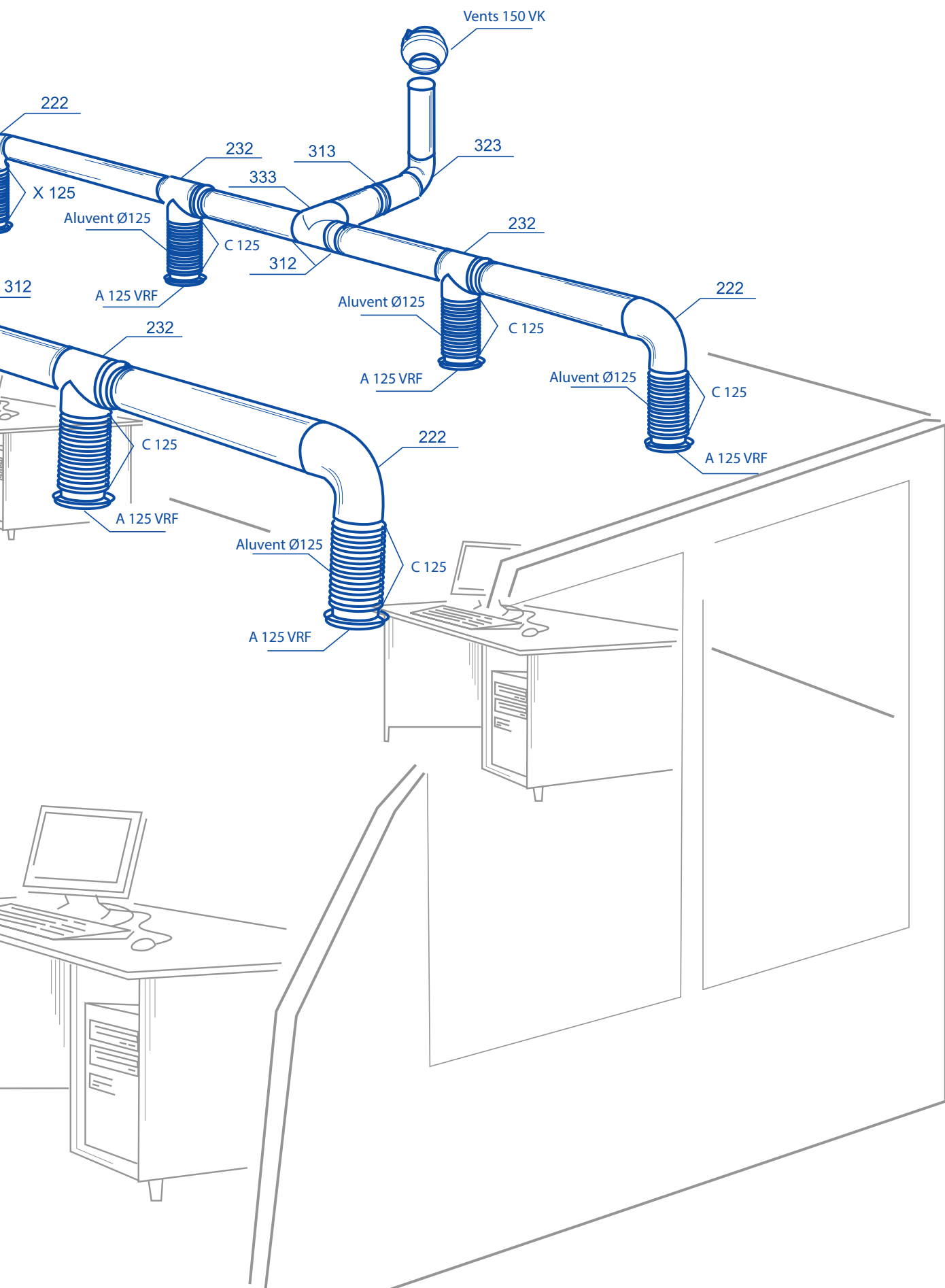
Plastivent as extension of tin air ducts





Office





## Round duct

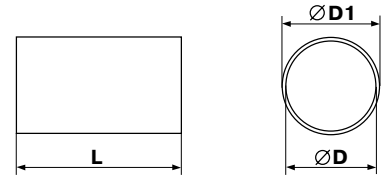


### Application

- Supply and exhaust ventilation of various premises.
- Formation of round air ductworks.

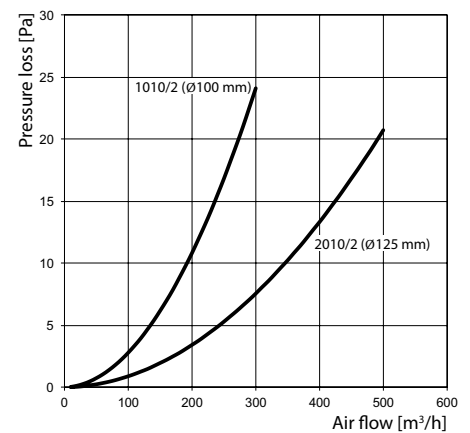
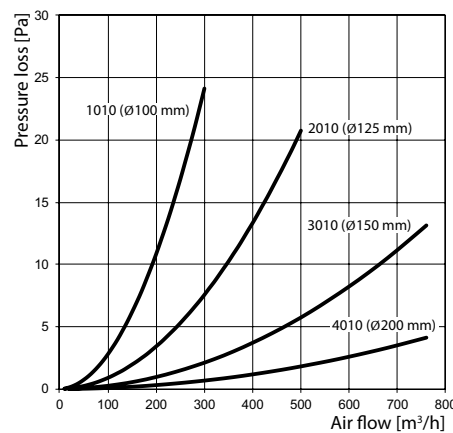
### Design

- Made of white PVC.
- Diameters: 100, 125, 150 and 200 mm.
- Duct length from 350 to 2500 mm.
- Connected with matching diameter connectors.



| Code  | Dimensions [mm] |     |      |
|-------|-----------------|-----|------|
|       | D               | D1  | L    |
| 10035 | 100             | 103 | 350  |
| 20035 | 125             | 128 | 350  |
| 30035 | 150             | 153 | 350  |
| 40035 | 200             | 204 | 350  |
| 1005  | 100             | 103 | 500  |
| 2005  | 125             | 128 | 500  |
| 3005  | 150             | 153 | 500  |
| 4005  | 200             | 204 | 500  |
| 1010  | 100             | 103 | 1000 |
| 2010  | 125             | 128 | 1000 |
| 3010  | 150             | 153 | 1000 |
| 4010  | 200             | 204 | 1000 |
| 1015  | 100             | 103 | 1500 |
| 2015  | 125             | 128 | 1500 |
| 3015  | 150             | 153 | 1500 |
| 4015  | 200             | 204 | 1500 |
| 1020  | 100             | 103 | 2000 |
| 2020  | 125             | 128 | 2000 |

| Code    | Dimensions [mm] |     |      |
|---------|-----------------|-----|------|
|         | D               | D1  | L    |
| 3020    | 150             | 153 | 2000 |
| 4020    | 200             | 204 | 2000 |
| 1025    | 100             | 103 | 2500 |
| 2025    | 125             | 128 | 2500 |
| 3025    | 150             | 153 | 2500 |
| 4025    | 200             | 204 | 2500 |
| 10035/2 | 104             | 107 | 350  |
| 20035/2 | 129             | 132 | 350  |
| 1005/2  | 104             | 107 | 500  |
| 2005/2  | 129             | 132 | 500  |
| 1010/2  | 104             | 107 | 1000 |
| 2010/2  | 129             | 132 | 1000 |
| 1015/2  | 104             | 107 | 1500 |
| 2015/2  | 129             | 132 | 1500 |
| 1020/2  | 104             | 107 | 2000 |
| 2020/2  | 129             | 132 | 2000 |
| 1025/2  | 104             | 107 | 2500 |
| 2025/2  | 129             | 132 | 2500 |



Data for 1 m air duct section

## Round telescopic duct



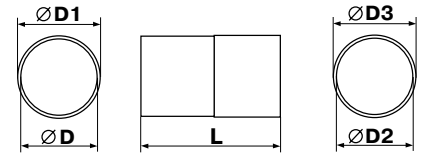
### Application

- Supply and exhaust ventilation of various premises.
- Wall mounting.

| Code | Dimensions [mm] |     |     |     |          |
|------|-----------------|-----|-----|-----|----------|
|      | D               | D1  | D2  | D3  | L        |
| 1805 | 100             | 103 | 104 | 107 | 300-500  |
| 2805 | 125             | 128 | 129 | 132 | 300-500  |
| 3805 | 150             | 153 | 154 | 157 | 300-500  |
| 1810 | 100             | 103 | 104 | 107 | 500-1000 |
| 2810 | 125             | 128 | 129 | 132 | 500-1000 |
| 3810 | 150             | 153 | 154 | 157 | 500-1000 |

### Design

- Made of white PVC.
- Telescopic design of two parts.
- Diameters: 100, 125, 150 mm.
- Air duct length is adjusted within 300 to 500 or 500 to 1000 mm.



inner duct

outer duct

## 90° bend for round ducts



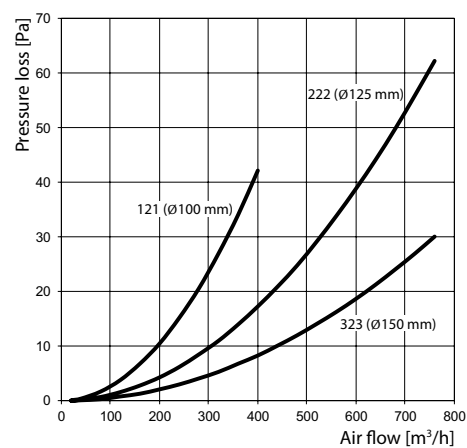
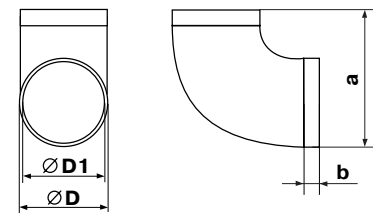
### Application

- Supply and exhaust ventilation of various premises.
- Connection of same diameter air ducts at 90°.

| Code | Dimensions [mm] |     |     |    |
|------|-----------------|-----|-----|----|
|      | D               | D1  | a   | b  |
| 121  | 100             | 97  | 137 | 30 |
| 222  | 125             | 122 | 164 | 30 |
| 323  | 150             | 147 | 189 | 30 |

### Design

- Made of white plastic.
- Connecting diameters: 100, 125, 150 mm.



## 45° bend for round ducts

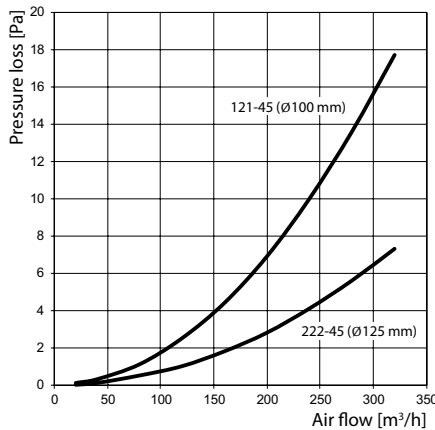


### Application

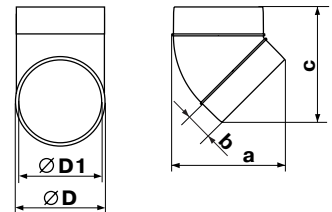
- Supply and exhaust ventilation of various premises.
- Connection of same diameter air ducts at 45°.

### Design

- Made of white plastic.
- Connecting diameters: 100, 125, 150 mm.



| Code   | Dimensions [mm] |     |     |    |     |
|--------|-----------------|-----|-----|----|-----|
|        | D               | D1  | a   | b  | c   |
| 121-45 | 103             | 100 | 125 | 30 | 129 |
| 222-45 | 128             | 125 | 157 | 40 | 162 |
| 323-45 | 153             | 150 | 164 | 30 | 164 |



## T-joint for round ducts



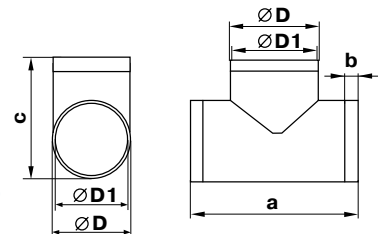
### Application

- Formation of branch connections in supply or exhaust ventilation systems located in residential, public and other buildings.
- Connection of same diameter round ducts and integration into complex ventilation systems.

### Design

- Made of white plastic.
- Connection of same diameter three round ducts at 90°.
- Connecting diameters: 100, 125, 150 mm.

| Code | Dimensions [mm] |     |     |    |     |
|------|-----------------|-----|-----|----|-----|
|      | D               | D1  | a   | b  | c   |
| 131  | 100             | 97  | 173 | 30 | 139 |
| 232  | 125             | 122 | 198 | 30 | 164 |
| 333  | 150             | 147 | 223 | 30 | 189 |



## Wall plate for round ducts



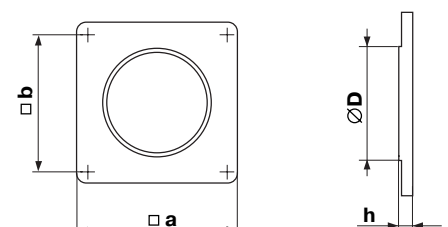
### Application

- Supply and exhaust ventilation of various premises.
- Connection of air ducts to ventilation shafts.
- Decoration of mounting openings.

### Design

- Made of white plastic.
- Screw fixing to wall.
- Connecting diameters: 100, 125, 150, 200 mm.

| Code | Dimensions [mm] |   |     |     |
|------|-----------------|---|-----|-----|
|      | D               | h | a   | b   |
| 15   | 103             | 3 | 150 | 134 |
| 25   | 128             | 3 | 170 | 154 |
| 35   | 151             | 3 | 204 | 188 |
| 45   | 204             | 3 | 250 | 230 |





## Round duct connector



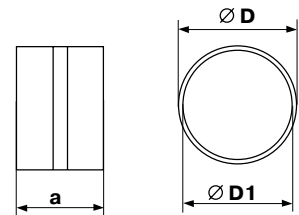
### Application

- Supply and exhaust ventilation of various premises.
- Connection of same diameter air ducts.

### Design

- Made of white plastic.
- Designed for direct installation into air duct and equipped with a lock ring.
- Connecting diameters: 100, 125, 150, 200 mm.

| Code | Dimensions [mm] |     |    |
|------|-----------------|-----|----|
|      | D               | D1  | a  |
| 111  | 100             | 96  | 62 |
| 212  | 125             | 123 | 62 |
| 313  | 150             | 148 | 62 |
| 414  | 200             | 197 | 62 |



## Connector with backdraft damper for round ducts



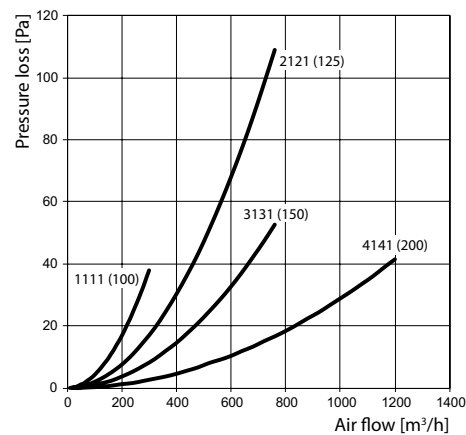
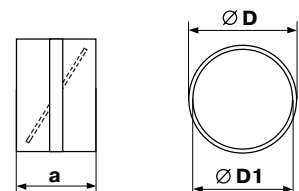
### Application

- Supply and exhaust ventilation of various premises.
- Connection of same diameter air ducts.

### Design

- Made of white plastic.
- Equipped with a backdraft damper for back flow prevention.
- Designed for direct installation into air duct and equipped with a lock ring.
- Connecting diameters: 100, 125, 150, 200 mm.

| Code | Dimensions [mm] |     |    |
|------|-----------------|-----|----|
|      | D               | D1  | a  |
| 1111 | 100             | 96  | 62 |
| 2121 | 125             | 123 | 62 |
| 3131 | 150             | 148 | 62 |
| 4141 | 200             | 197 | 62 |



## Connector with backdraft damper and wall plate for round ducts



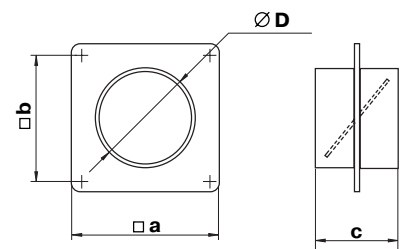
### Application

- Supply and exhaust ventilation of various premises.
- Connection of same diameter air ducts.
- Decoration of mounting openings.

### Design

- Made of white plastic.
- Equipped with a wall plate for decoration of mounting openings.
- Equipped with a backdraft damper for back flow prevention.
- Screw fixing to wall.
- Connecting diameters: 100, 125, 150, 200 mm.

| Code | Dimensions [mm] |     |    |     |
|------|-----------------|-----|----|-----|
|      | a               | b   | c  | D   |
| 1511 | 150             | 134 | 62 | 100 |
| 2521 | 170             | 154 | 62 | 125 |
| 3531 | 204             | 188 | 62 | 150 |
| 4541 | 250             | 230 | 62 | 200 |



## Connector with plate for round ducts



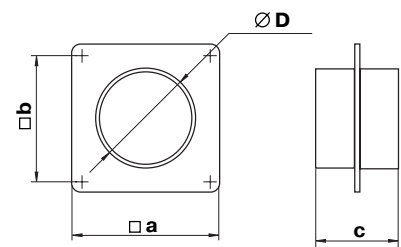
### Application

- Supply and exhaust ventilation of various premises.
- Connection of same diameter air ducts.
- Decoration of mounting openings.

### Design

- Made of white plastic.
- Equipped with a wall plate for decoration of mounting openings.
- Screw fixing to wall.
- Connecting diameters: 100, 125, 150, 200 mm.

| Code | Dimensions [mm] |     |    |     |
|------|-----------------|-----|----|-----|
|      | a               | b   | c  | D   |
| 151  | 150             | 134 | 62 | 100 |
| 252  | 170             | 154 | 62 | 125 |
| 353  | 204             | 188 | 62 | 150 |
| 454  | 250             | 230 | 62 | 200 |



## Reducer



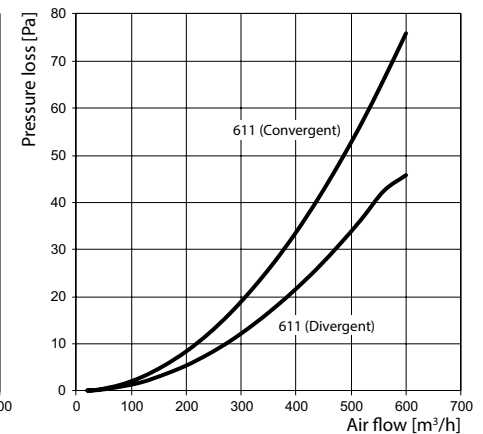
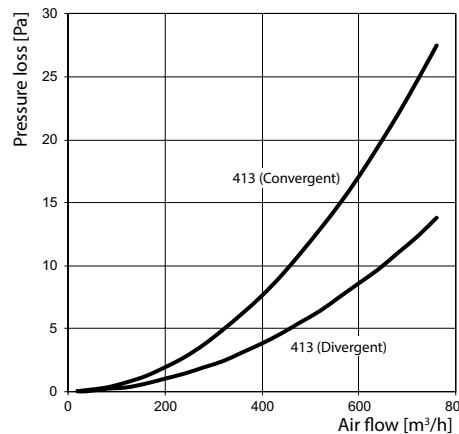
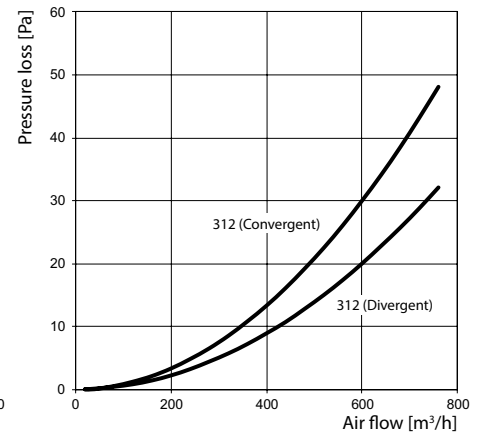
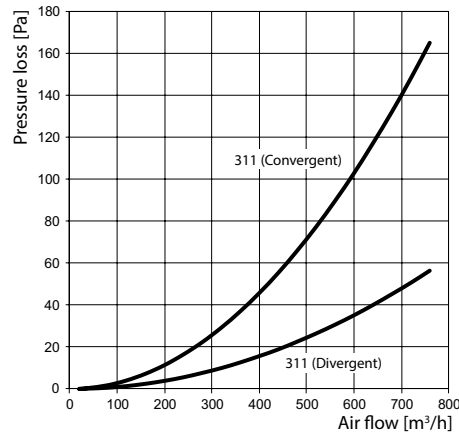
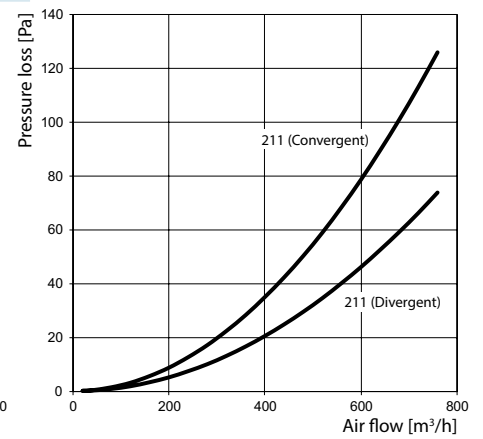
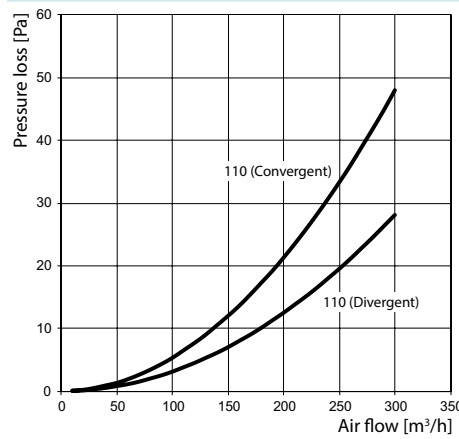
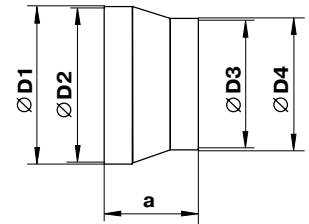
### Application

- Supply and exhaust ventilation of various premises.
- Connection of various diameter air ducts.

### Design

- Made of white plastic.
- Connecting diameters: 80-100, 100-120, 100-125, 100-150, 125-150, 150-200 mm.

| Code   | Dimensions [mm] |       |     |      |      |
|--------|-----------------|-------|-----|------|------|
|        | a               | D1    | D2  | D3   | D4   |
| 110    | 60              | 103   | 100 | 76   | 80   |
| 110-11 | 42              | 113   | 110 | 96   | 100  |
| 211    | 60              | 129   | 125 | 96   | 100  |
| 311    | 70              | 149.5 | 146 | 96   | 99.5 |
| 312    | 60              | 154   | 150 | 121  | 125  |
| 413    | 71              | 204   | 200 | 146  | 150  |
| 611    | 60              | 124   | 120 | 98.5 | 99   |



## Reducer



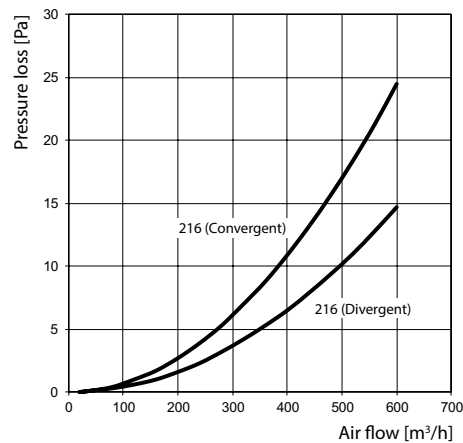
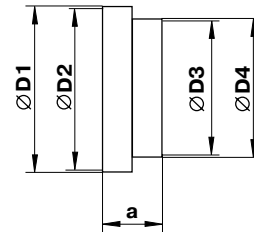
### Application

- Supply and exhaust ventilation of various premises.
- Connection of  $\varnothing 120$  and  $125$  mm round air ducts.

### Design

- Made of white plastic.
- Connecting diameters: 125-129 mm.

| Code | Dimensions [mm] |     |     |     |     |
|------|-----------------|-----|-----|-----|-----|
|      | a               | D1  | D2  | D3  | D4  |
| 216  | 42              | 129 | 125 | 115 | 119 |



## Round step reducer



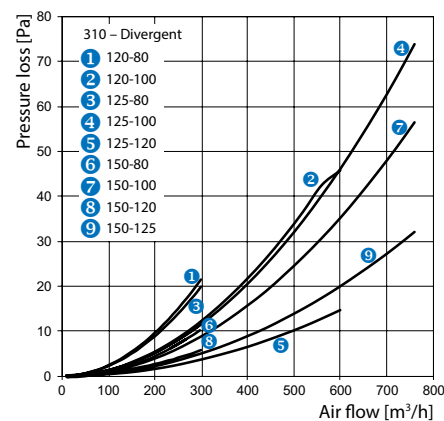
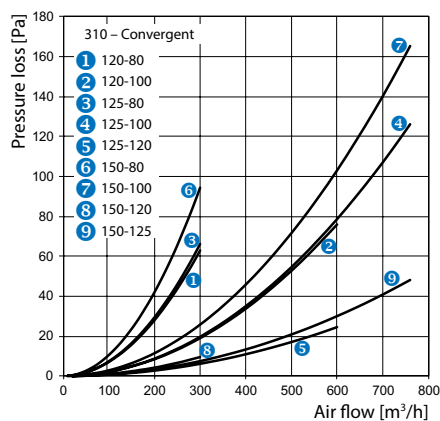
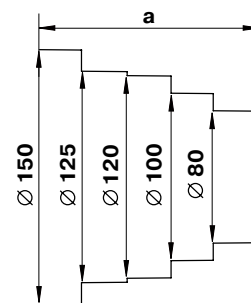
### Application

- Supply and exhaust ventilation of various premises.
- Connection of various diameter air ducts.

### Design

- Made of white plastic.
- Connecting diameters: 80-100-120-125-150 mm.
- Cut out spare length piece to get the required size.

| Code | Dimensions [mm] |                    |
|------|-----------------|--------------------|
|      | a               | $\varnothing$      |
| 310  | 125             | 80-100-120-125-150 |



## Eccentric reducer



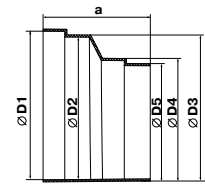
### Application

- Supply and exhaust ventilation of various premises.
- Connection of round ducts.

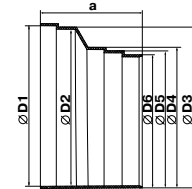
### Design

- Made of white plastic.
- Connecting diameters: 100, 120, 125, 130, 150 mm.

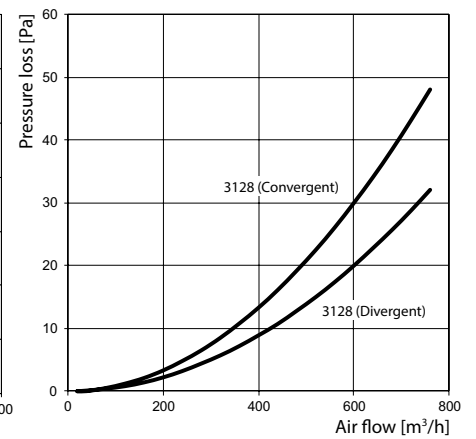
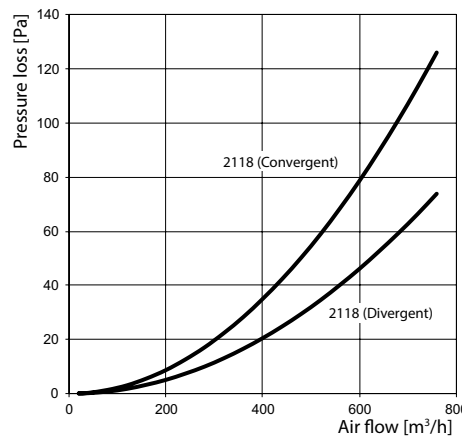
| Code | Dimensions [mm] |     |     |     |     |     |     |
|------|-----------------|-----|-----|-----|-----|-----|-----|
|      | a               | D1  | D2  | D3  | D4  | D5  | D6  |
| 2118 | 90              | 125 | 120 | 123 | 103 | 99  | -   |
| 3128 | 96              | 151 | 148 | 152 | 132 | 129 | 125 |



2118



3128



## Round ducts connectors with condensation traps



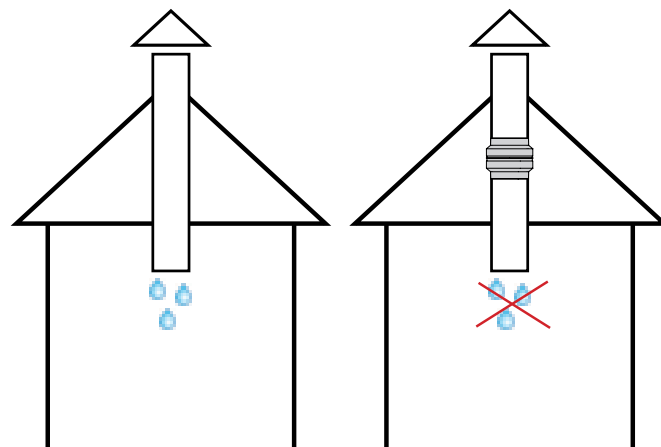
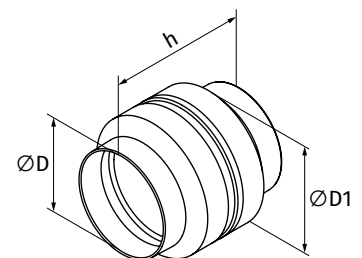
### Application

- Supply and exhaust ventilation of various premises.
- Connection of various diameter air ducts.
- Prevents small amounts of condensate from dripping down the air duct.

### Design

- Made of white plastic.
- Connecting diameters: 100, 125, 150 mm.

| Code | Dimensions [mm] |     |     |
|------|-----------------|-----|-----|
|      | h               | D   | D1  |
| 1119 | 136             | 100 | 129 |
| 2129 | 136             | 125 | 154 |
| 3139 | 153             | 150 | 209 |





## Round to flat connector



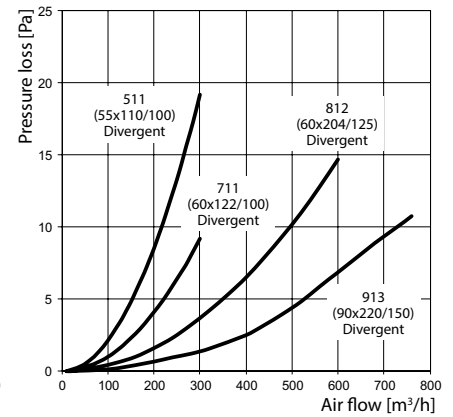
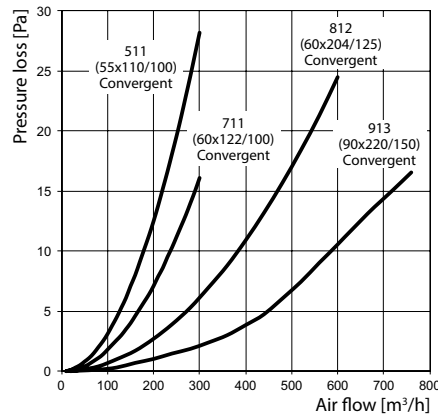
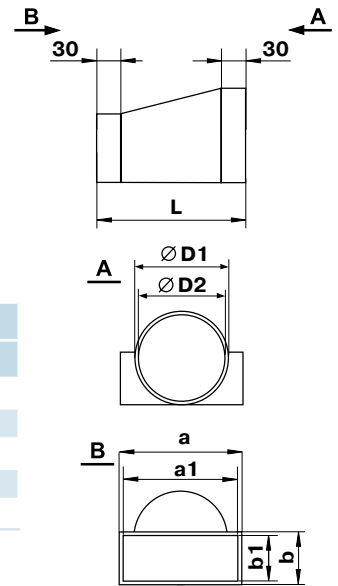
### Application

- Supply and exhaust ventilation of various premises.
- Connection of round and flat ducts.

### Design

- Made of white plastic.
- Direct connection to round and flat ducts.
- Connecting ducts: 100-55x110, 100-60x122, 125-55x220, 125-60x204, 150-90x220 mm.

| Code | Dimensions [mm] |     |    |    |     |     |     |
|------|-----------------|-----|----|----|-----|-----|-----|
|      | a               | a1  | b  | b1 | D1  | D2  | L   |
| 511  | 113             | 110 | 59 | 55 | 103 | 100 | 137 |
| 612  | 226             | 220 | 60 | 55 | 124 | 121 | 165 |
| 711  | 124             | 122 | 64 | 60 | 103 | 100 | 137 |
| 812  | 208             | 204 | 64 | 60 | 128 | 125 | 140 |
| 913  | 224             | 220 | 94 | 90 | 150 | 146 | 165 |



## Round flexible duct connector



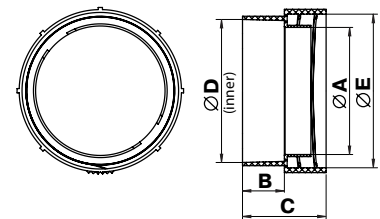
### Application

- Supply and exhaust ventilation of various premises.
- Connection of flexible ducts with plastic system components.

### Design

- Made of white plastic.
- Connection to flexible air ducts without clamps.
- Flexible spiral seam duct is connected to one side and the other side is connected to Ø 100 mm flange.
- Left thread. Not compatible with Polyvents air ducts.

| Code | Dimensions [mm] |    |    |     |     |
|------|-----------------|----|----|-----|-----|
|      | A               | B  | C  | D   | E   |
| 1214 | 90              | 30 | 60 | 100 | 110 |



## Round flexible duct connector



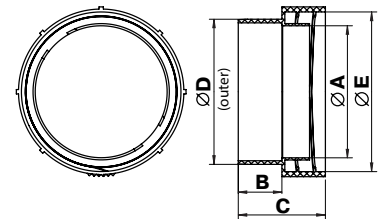
### Application

- Supply and exhaust ventilation of various premises.
- Connection of flexible ducts with plastic system components.

### Design

- Made of white plastic.
- Connection to flexible air ducts without clamps.
- Flexible spiral seam duct is connected to one side and the other side is connected to  $\varnothing 100$  mm air duct.
- Left or right (R) thread. Right thread connectors are used with Polyvents air ducts.

| Code  | Dimensions [mm] |    |    |     |     |
|-------|-----------------|----|----|-----|-----|
|       | A               | B  | C  | D   | E   |
| 1215  | 90              | 30 | 60 | 100 | 110 |
| 1215R | 90              | 30 | 60 | 100 | 110 |



## Round flexible duct connector



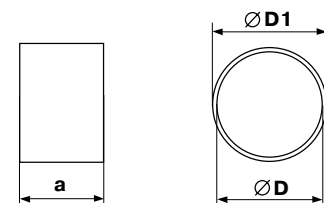
### Application

- Supply and exhaust ventilation of various premises.
- Connection of flexible round ducts.

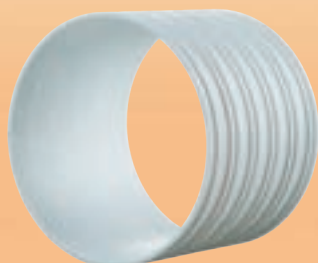
| Code | Dimensions [mm] |     |     |
|------|-----------------|-----|-----|
|      | a               | D   | D1  |
| 1113 | 60              | 100 | 103 |
| 2123 | 60              | 125 | 128 |
| 3133 | 60              | 150 | 153 |
| 4143 | 60              | 200 | 204 |

### Design

- Made of white PVC.
- Cover the connector with air duct and fix it with clamps.
- Connecting diameters: 100, 125, 150, 200 mm.



## Flexible round duct connector



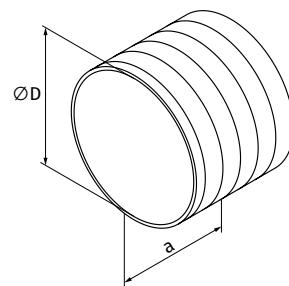
### Application

- Supply and exhaust ventilation of various premises.
- Connection of flexible round ducts.

### Design

- Made of white PVC.
- Cover the connector with air duct and fix it by clamps.
- Connecting diameters: 100, 125 mm.

| Code  | Dimensions [mm] |     |
|-------|-----------------|-----|
|       | D               | a   |
| 1113N | 100             | 110 |
| 2123N | 125             | 110 |



## Holder for round ducts



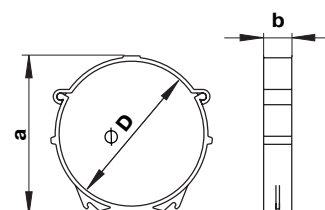
### Application

- Supply and exhaust ventilation of various premises.
- Mounting of round ducts to wall, ceiling or any other plane surface.

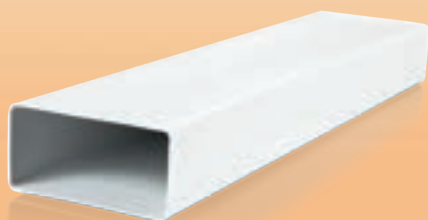
### Design

- Made of white plastic.
- Fixation to plane surface with screws.
- Special snaps provide reliable fixation of the duct with the holder.
- Connecting diameters: 100, 125, 150, 200 mm.

| Code | Dimensions [mm] |    |     |
|------|-----------------|----|-----|
|      | a               | b  | D   |
| 16   | 113             | 20 | 103 |
| 26   | 138             | 20 | 128 |
| 36   | 163             | 20 | 153 |
| 46   | 213             | 20 | 203 |



Flat air duct



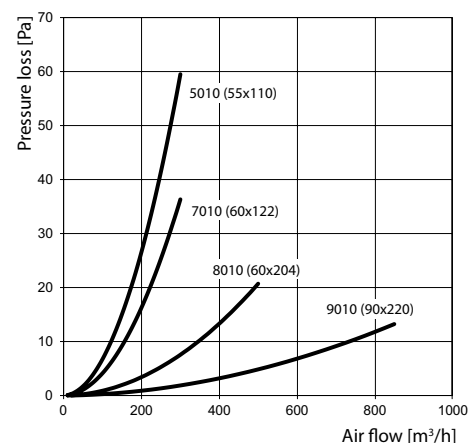
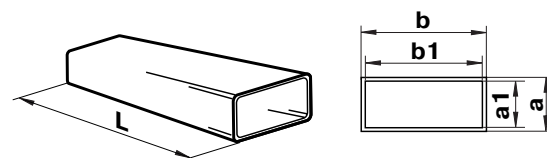
**Application**

- Supply and exhaust ventilation of various premises.
- Formation of flat air ductworks.

**Design**

- Made of white PVC.
- Size: 55x110, 55x220, 60x122, 60x204, 90x220 mm.
- Duct length from 350 to 2500 mm.
- Connected with matching connectors.

| Code  | Dimensions [mm] |     |    |     |      |
|-------|-----------------|-----|----|-----|------|
|       | a               | b   | a1 | b1  | L    |
| 50035 | 55              | 110 | 52 | 107 | 350  |
| 60035 | 55              | 220 | 52 | 217 | 350  |
| 70035 | 60              | 122 | 57 | 119 | 350  |
| 80035 | 60              | 204 | 57 | 200 | 350  |
| 90035 | 90              | 220 | 86 | 216 | 350  |
| 5005  | 55              | 110 | 52 | 107 | 500  |
| 6005  | 55              | 220 | 52 | 217 | 500  |
| 7005  | 60              | 122 | 57 | 119 | 500  |
| 8005  | 60              | 204 | 57 | 200 | 500  |
| 5010  | 55              | 110 | 52 | 107 | 1000 |
| 6010  | 55              | 220 | 52 | 217 | 1000 |
| 7010  | 60              | 122 | 57 | 119 | 1000 |
| 8010  | 60              | 204 | 57 | 200 | 1000 |
| 9010  | 90              | 220 | 86 | 216 | 1000 |
| 5015  | 55              | 110 | 52 | 107 | 1500 |
| 6015  | 55              | 220 | 52 | 217 | 1500 |
| 7015  | 60              | 122 | 57 | 119 | 1500 |
| 8015  | 60              | 204 | 57 | 200 | 1500 |
| 9015  | 90              | 220 | 86 | 216 | 1500 |
| 5020  | 55              | 110 | 52 | 107 | 2000 |
| 6020  | 55              | 220 | 52 | 217 | 2000 |
| 7020  | 60              | 122 | 57 | 119 | 2000 |
| 8020  | 60              | 204 | 57 | 200 | 2000 |
| 9020  | 90              | 220 | 86 | 216 | 2000 |
| 5025  | 55              | 110 | 52 | 107 | 2500 |
| 6025  | 55              | 220 | 52 | 217 | 2500 |
| 7025  | 60              | 122 | 57 | 119 | 2500 |
| 8025  | 60              | 204 | 57 | 200 | 2500 |
| 9025  | 90              | 220 | 86 | 216 | 2500 |



Data for 1 m air duct section

## Flat duct connector



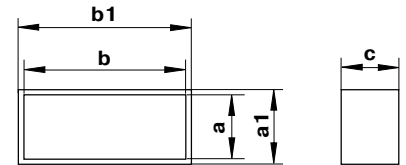
### Application

- Supply and exhaust ventilation of various premises.
- Connection of same sized flat ducts.

### Design

- Made of white plastic.
- Designed for installation into air duct and equipped with a lock ring for easy jointing.
- Connecting sizes: 55x110, 55x220, 60x122, 60x204, 90x220 mm.

| Code | Dimensions [mm] |     |    |     |    |
|------|-----------------|-----|----|-----|----|
|      | a               | b   | a1 | b1  | c  |
| 515  | 56              | 110 | 59 | 114 | 66 |
| 616  | 55              | 220 | 60 | 225 | 62 |
| 717  | 60              | 122 | 65 | 126 | 69 |
| 818  | 60              | 204 | 65 | 209 | 62 |
| 919  | 90              | 220 | 95 | 225 | 62 |



## Flat duct connector with damper



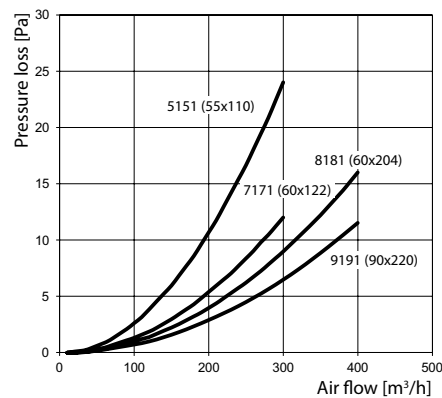
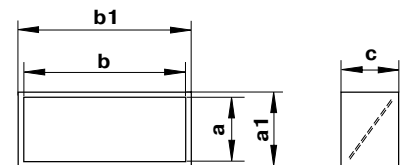
### Application

- Supply and exhaust ventilation of various premises.
- Connection of same sized flat ducts.

### Design

- Made of white plastic.
- Designed for installation into air duct and equipped with a lock ring for easy jointing.
- Equipped with a backdraft damper for back flow prevention.
- Connecting sizes: 55x110, 60x122, 60x204, 90x220 mm.

| Code | Dimensions [mm] |     |    |     |    |
|------|-----------------|-----|----|-----|----|
|      | a               | b   | a1 | b1  | c  |
| 5151 | 56              | 110 | 59 | 114 | 66 |
| 7171 | 60              | 122 | 65 | 126 | 69 |
| 8181 | 60              | 204 | 65 | 209 | 62 |
| 9191 | 90              | 220 | 95 | 225 | 62 |





## Flexible flat duct connector



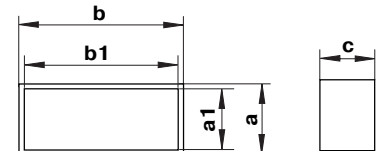
### Application

- Supply and exhaust ventilation of various premises.
- Connection of same sized flat flexible ducts.

### Design

- Made of white PVC.
- Cover the connector with air duct and fix it with clamps.
- Connecting sizes: 55x100, 60x122, 60x204 mm.

| Code | Dimensions [mm] |     |    |     |    |
|------|-----------------|-----|----|-----|----|
|      | a               | b   | a1 | b1  | c  |
| 5153 | 55              | 110 | 52 | 107 | 60 |
| 7173 | 60              | 122 | 57 | 119 | 60 |
| 8183 | 60              | 204 | 57 | 200 | 60 |



## Air duct connector with a plate



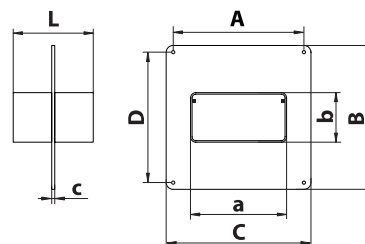
### Application

- Supply or exhaust ventilation of various premises.
- Connection of single size flat air ducts.
- Decoration of mounting opening and connections to wall.

### Design

- Made of white plastic.
- Air ducts are fitted inside the connector.
- Equipped with lock rings for easy adjustment.
- Screw fixing to wall.
- Connecting sizes: 55x110, 60x120, 60x204 mm.

| Code | Dimensions [mm] |    |   |     |     |     |     |     |
|------|-----------------|----|---|-----|-----|-----|-----|-----|
|      | a               | b  | c | A   | B   | C   | D   | L   |
| 555  | 110             | 55 | 2 | 141 | 154 | 154 | 141 | 131 |
| 757  | 120             | 60 | 2 | 141 | 154 | 154 | 141 | 131 |
| 858  | 204             | 60 | 3 | 229 | 154 | 242 | 141 | 186 |



## Air duct connector with a plate and a back valve



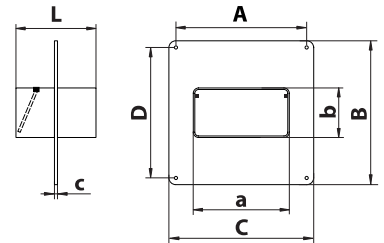
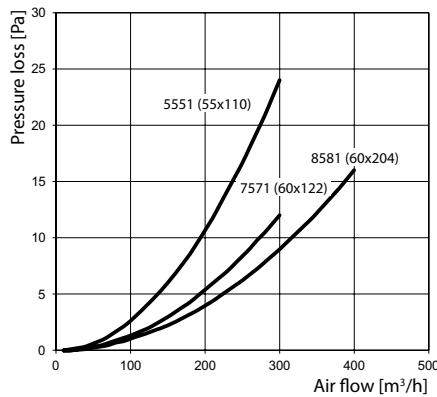
### Application

- Supply or exhaust ventilation of various premises.
- Connection of single size flat air ducts.
- Decoration of mounting opening and connections to wall.

### Design

- Made of white plastic.
- Air ducts are fitted inside the connector.
- Equipped with lock rings for easy adjustment.
- Equipped with a back valve to prevent back drafting.
- Screw fixing to wall.
- Connecting sizes: 55x110, 60x122, 60x204 mm.

| Code | Dimensions [mm] |    |   |     |     |     |     |     |
|------|-----------------|----|---|-----|-----|-----|-----|-----|
|      | a               | b  | c | A   | B   | C   | D   | L   |
| 5551 | 110             | 55 | 2 | 141 | 154 | 154 | 141 | 131 |
| 7571 | 120             | 60 | 2 | 141 | 154 | 154 | 141 | 131 |
| 8581 | 204             | 60 | 3 | 229 | 154 | 242 | 141 | 186 |



## Vertical 90° bend for flat ducts



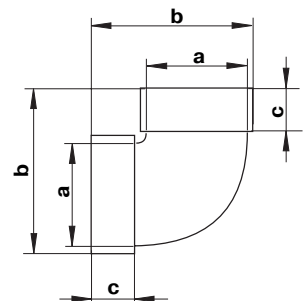
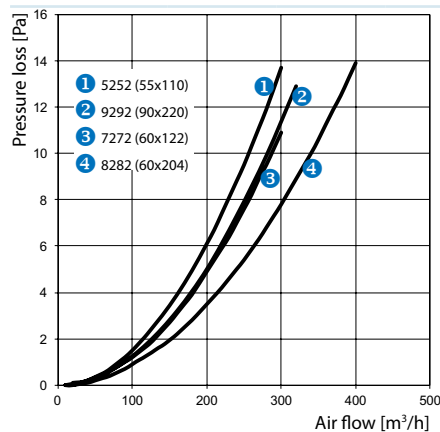
### Application

- Supply and exhaust ventilation of various premises.
- Connection of same sized flat ducts at 90° vertically.

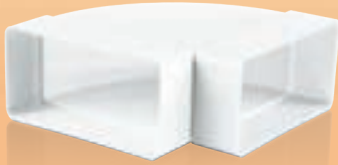
### Design

- Made of white plastic.
- Connecting sizes: 55x110, 55x220, 60x122, 60x204, 90x220 mm.

| Code | Dimensions [mm] |     |    |
|------|-----------------|-----|----|
|      | a               | b   | c  |
| 5252 | 55x110          | 89  | 32 |
| 6262 | 55x220          | 95  | 38 |
| 7272 | 60x122          | 93  | 32 |
| 8282 | 60x204          | 103 | 32 |
| 9292 | 90x220          | 130 | 35 |



## Horizontal 90° bend for flat ducts



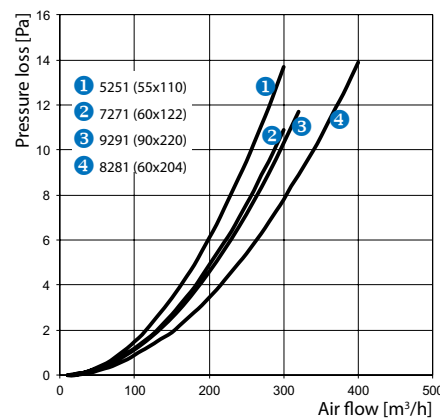
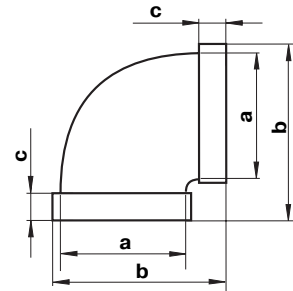
### Application

- Supply and exhaust ventilation of various premises.
- Connection of same sized flat ducts at 90° horizontally.

### Design

- Made of white plastic.
- Connecting sizes: 55x110, 55x220, 60x122, 60x204, 90x220 mm.

| Code | Dimensions [mm] |     |    |
|------|-----------------|-----|----|
|      | a               | b   | c  |
| 5251 | 55x110          | 143 | 32 |
| 6261 | 57x222          | 262 | 36 |
| 7271 | 60x122          | 155 | 32 |
| 8281 | 60x204          | 238 | 32 |
| 9291 | 90x220          | 262 | 35 |



## Versatile flat angular connector



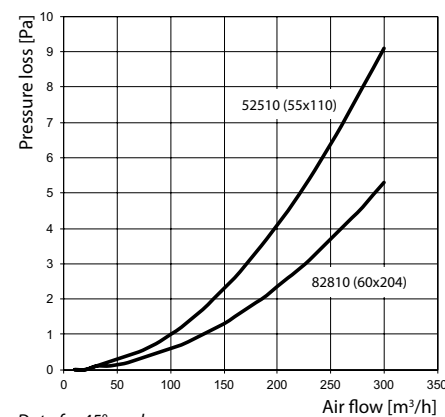
### Application

- Supply and exhaust ventilation of various premises.
- Angular connection of flat ducts.

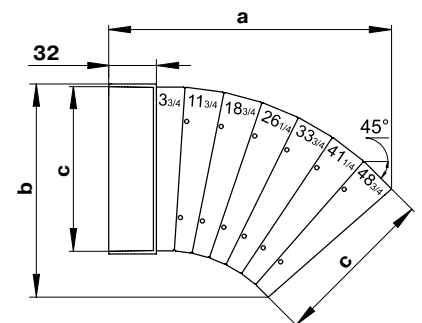
### Design

- Made of white plastic.
- Turning point angle from 3° to 48°.
- Depending on selected turning angle one connector side is cut out. Connection to the flat duct through matching sized connector.
- On flange side direct connection to flat duct of respective size.
- Connecting section: 55x100 and 60x204 mm.

| Code  | Dimensions [mm] |     |        |
|-------|-----------------|-----|--------|
|       | a               | b   | c      |
| 52510 | 190             | 143 | 55x110 |
| 82810 | 286             | 247 | 60x204 |



Data for 45° angle



## T-joint for flat ducts



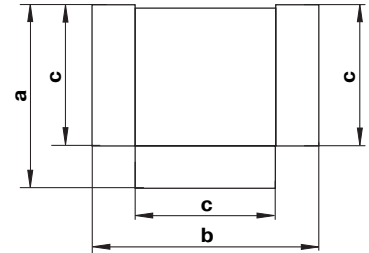
### Application

- Formation of branch connections in supply or exhaust ventilation systems located in residential, public and other buildings.
- Connection of same sized flat ducts and integration into complex ventilation systems.

### Design

- Made of white plastic.
- Connection of same sized three flat ducts at 90°.
- Connecting sizes: 55x110, 60x122, 60x204, 90x220 mm.
- Direct connection to matching sized ducts.

| Code | Dimensions [mm] |     |        |
|------|-----------------|-----|--------|
|      | a               | b   | c      |
| 535  | 144             | 174 | 55x110 |
| 737  | 155             | 185 | 60x122 |
| 838  | 248             | 288 | 60x204 |
| 939  | 261             | 296 | 90x220 |



## Flat duct holder



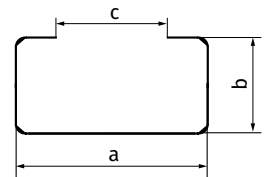
### Application

- Supply and exhaust ventilation of various premises.
- Mounting of flat ducts to wall, ceiling or any other plane surface.

### Design

- Made of white plastic.
- Fixation to plane surface with screws.
- Specially designed configuration provides reliable duct to holder fixation and quick dismantling.
- Connecting sizes: 55x110, 55x220, 60x122, 60x204, 90x220 mm.

| Code | Dimensions [mm] |    |     |
|------|-----------------|----|-----|
|      | a               | b  | c   |
| 56   | 114             | 59 | 74  |
| 66   | 227             | 67 | 144 |
| 76   | 126             | 64 | 86  |
| 86   | 209             | 65 | 169 |
| 96   | 227             | 95 | 175 |



## 90° connecting bend for flat and round ducts



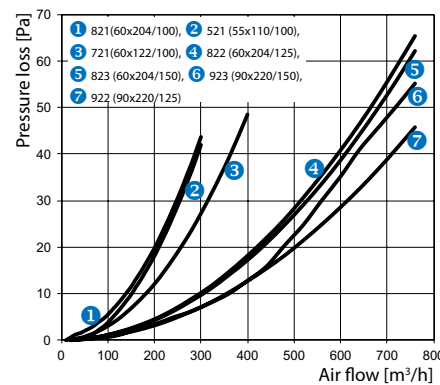
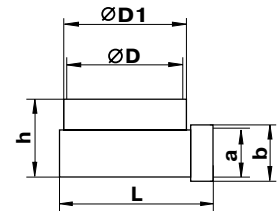
### Application

- Supply and exhaust ventilation of various premises.
- Connection of flat and round ducts at 90°.

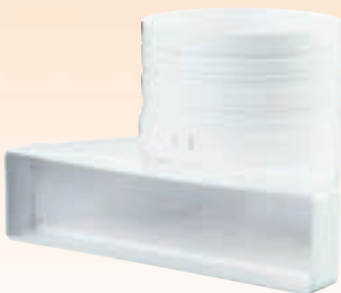
### Design

- Made of white plastic.
- Connecting dimensions: 55x110-100, 55x220-100, 55x220-125, 60x122-100, 60x204-100, 60x204-125, 60x204-150, 90x220-125, 90x220-150 mm.
- Flat ducts have direct connection and round ducts are connected through a matching connector.

| Code | Dimensions [mm] |     |     |        |     |     |
|------|-----------------|-----|-----|--------|-----|-----|
|      | a               | D   | D1  | b      | h   | L   |
| 521  | 55x110          | 100 | 103 | 58x113 | 87  | 138 |
| 621  | 55x220          | 96  | 99  | 55x60  | 88  | 175 |
| 622  | 55x220          | 121 | 124 | 55x60  | 88  | 175 |
| 721  | 60x122          | 100 | 103 | 63x125 | 87  | 140 |
| 821  | 60x204          | 97  | 100 | 64x208 | 92  | 220 |
| 822  | 60x204          | 122 | 125 | 64x208 | 92  | 220 |
| 823  | 60x204          | 147 | 150 | 64x208 | 92  | 220 |
| 922  | 90x220          | 122 | 125 | 94x226 | 120 | 230 |
| 923  | 90x220          | 147 | 150 | 94x226 | 120 | 230 |



## 90° connecting bend for flat and flexible round ducts



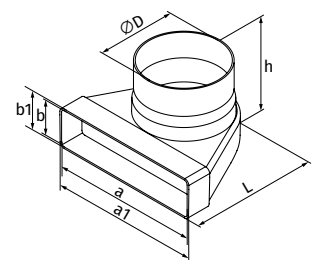
### Application

- Supply and exhaust ventilation of various premises.
- Connection of rigid flat to round flexible ducts at 90°.

### Design

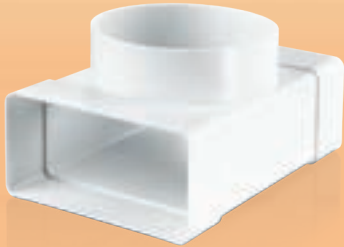
- Made of white plastic.
- Connecting dimensions: 220x55-100, 220x55-125 mm.

| Code  | Dimensions [mm] |     |     |    |    |     |     |
|-------|-----------------|-----|-----|----|----|-----|-----|
|       | a               | a1  | D   | b  | b1 | h   | L   |
| 621-1 | 220             | 226 | 100 | 55 | 60 | 134 | 175 |
| 621-2 | 220             | 226 | 125 | 55 | 60 | 134 | 175 |





## T-joint for flat and round ducts



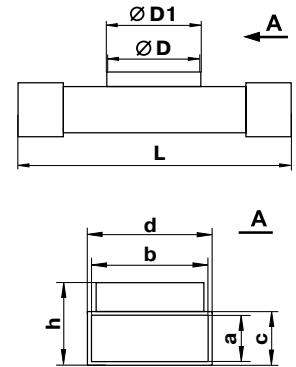
### Application

- Formation of branch connections in supply or exhaust ventilation systems located in residential, public and other buildings.
- Connection of flat and round ducts.

### Design

- Made of white plastic.
- Connecting dimensions: 55x110-100 mm.
- Direct connection to air duct.

| Code | Dimensions [mm] |     |     |    |     |    |     |
|------|-----------------|-----|-----|----|-----|----|-----|
|      | axb             | D   | D1  | c  | d   | h  | L   |
| 531  | 55x110          | 100 | 103 | 58 | 113 | 87 | 172 |



## Reducer for flat ducts



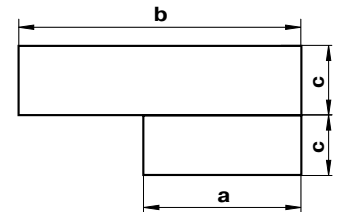
### Application

- Supply and exhaust ventilation of various premises.
- Connection of flat different sized ducts.

| Code | Dimensions [mm] |        |    |
|------|-----------------|--------|----|
|      | b               | a      | c  |
| 518  | 60x204          | 55x110 | 30 |

### Design

- Made of white plastic.
- Connecting dimensions: 55x110-60x204 mm.



## Wall plate for flat ducts



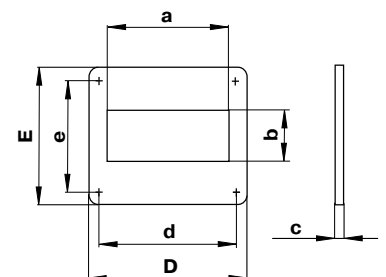
### Application

- Supply and exhaust ventilation of various premises.
- Connection of air ducts to ventilation shafts.
- Decoration of mounting openings.

### Design

- Made of white plastic.
- Screw fixing to wall.
- Connecting sizes: 55x110, 60x122, 60x204 mm.

| Code | Dimensions [mm] |    |   |     |     |     |     |
|------|-----------------|----|---|-----|-----|-----|-----|
|      | a               | b  | c | d   | e   | D   | E   |
| 55   | 111             | 56 | 2 | 141 | 141 | 154 | 154 |
| 75   | 123             | 61 | 2 | 141 | 141 | 154 | 154 |
| 85   | 205             | 61 | 3 | 229 | 141 | 242 | 154 |



## End grille



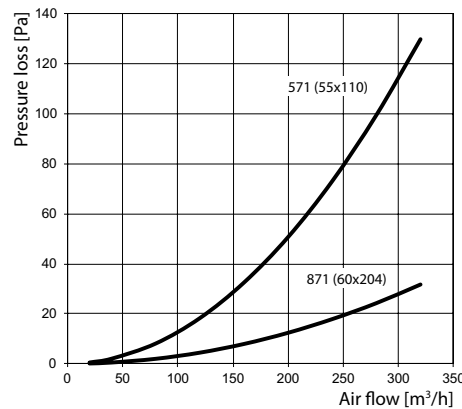
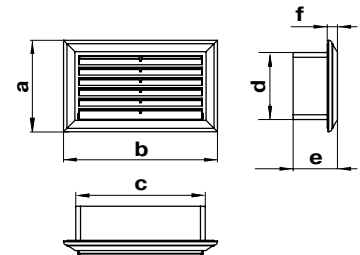
### Application

- Decoration of supply or exhaust vents of public, residential and industrial ventilation systems.
- Correct air flow distribution in premises.
- Wall or ceiling mounting.

### Design

- Made of white plastic.
- Detachable front part facilitates cleaning.
- Modification with an insect screen (s) is available.
- Connecting dimensions: 55x110 and 60x204 mm.

| Code | Dimensions [mm] |     |     |    |    |   |
|------|-----------------|-----|-----|----|----|---|
|      | a               | b   | c   | d  | e  | f |
| 571  | 88              | 137 | 114 | 59 | 73 | 9 |
| 671  | 93              | 232 | 224 | 59 | 76 | 9 |
| 871  | 93              | 232 | 208 | 64 | 76 | 9 |



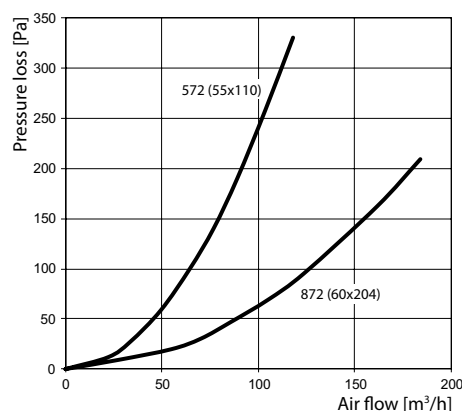
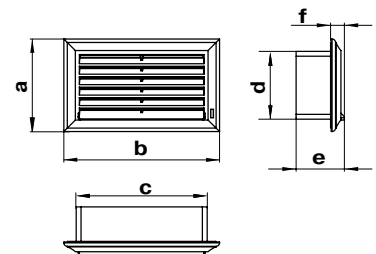
### Application

- Decoration of supply or exhaust vents of public, residential and industrial ventilation systems.
- Correct air flow distribution in premises.
- Wall or ceiling mounting.

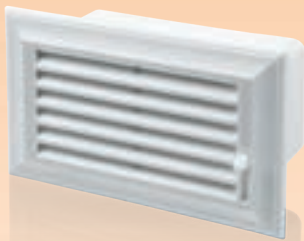
### Design

- Made of white plastic.
- Equipped with a movable flap for air flow regulation.
- Air pass is regulated with a tilt wand.
- Detachable front part facilitates cleaning.
- Modification with an insect screen (s) is available.
- Matches with 55x110 and 60x204 mm air ducts.

| Code | Dimensions [mm] |     |     |    |    |    |
|------|-----------------|-----|-----|----|----|----|
|      | a               | b   | c   | d  | e  | f  |
| 572  | 88              | 137 | 114 | 59 | 73 | 18 |
| 872  | 93              | 232 | 208 | 64 | 76 | 18 |



## End grille with air pass regulation



## Reducer for flat and round ducts



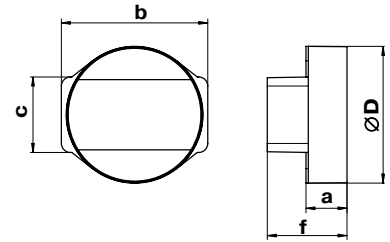
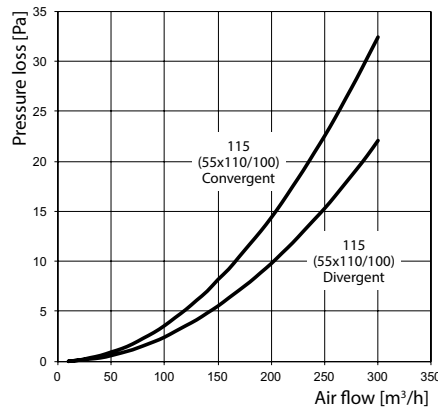
### Application

- Supply and exhaust ventilation of various premises.
- Flat to round duct connection.

### Design

- Made of white plastic.
- Connecting dimensions: 55x110-100 mm.
- Direct connection of reducer to round and flat ducts.

| Code | Dimensions [mm] |     |    |    |
|------|-----------------|-----|----|----|
|      | cxb             | Ø D | f  | a  |
| 115  | 58x114          | 103 | 62 | 32 |



## Reducer for flat and round ducts



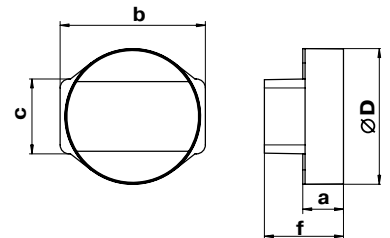
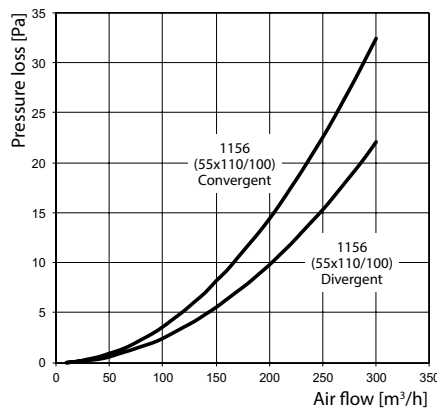
### Application

- Supply and exhaust ventilation of various premises.
- Flat to round duct connection.

### Design

- Made of white plastic.
- Connecting dimensions: 55x110-100 mm.
- Reducer has direct connection to flat air ducts and connection through connector to round ducts.

| Code | Dimensions [mm] |     |    |    |
|------|-----------------|-----|----|----|
|      | cxb             | Ø D | f  | a  |
| 1156 | 58x114          | 100 | 62 | 32 |



## Wall plate with flange



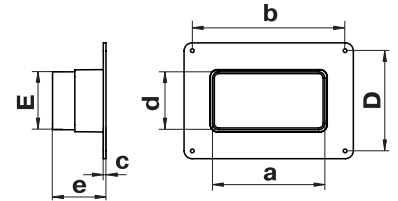
### Application

- Supply and exhaust ventilation of various premises.
- Connection of air ducts to ventilation shafts.
- Decoration of mounting openings.

### Design

- Made of white plastic.
- Screw fixing to wall.
- Connecting sizes: 60x122 mm.

| Code | Dimensions [mm] |     |   |    |     |    |    |
|------|-----------------|-----|---|----|-----|----|----|
|      | a               | b   | c | d  | D   | e  | E  |
| 750  | 126             | 172 | 3 | 65 | 113 | 60 | 65 |



## Round to flat connector (symmetric)



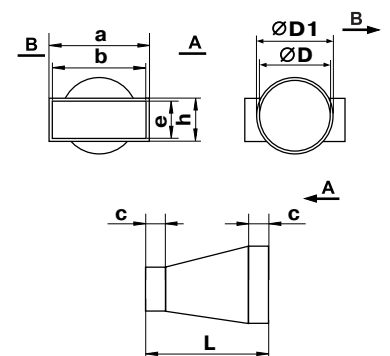
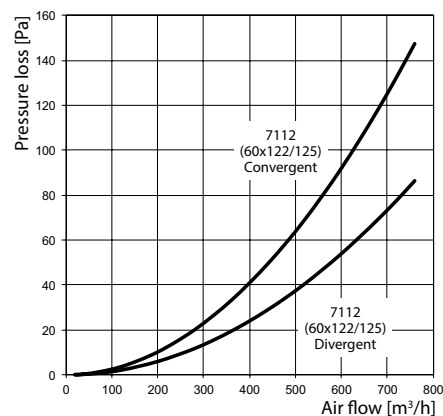
### Application

- Supply and exhaust ventilation of various premises.
- Connection of round and flat ducts.

### Design

- Made of white plastic.
- Direct connection flat duct, connection to round duct with connector.
- Connecting ducts: 100-60x122 mm.

| Code | Dimensions [mm] |     |    |     |     |    |    |     |
|------|-----------------|-----|----|-----|-----|----|----|-----|
|      | a               | b   | c  | ØD  | ØD1 | e  | h  | L   |
| 7112 | 124             | 122 | 30 | 100 | 103 | 60 | 64 | 137 |



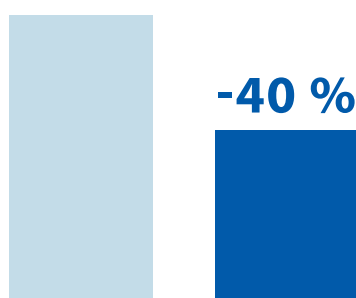
# ROUND AND FLAT FOLDING PVC DUCT SYSTEM

Introducing folding plastic ducts – an innovative and versatile solution for ventilation systems from VENTS. The folding duct construction benefits logistics and results in significant space savings immediately apparent while storing and handling the products.

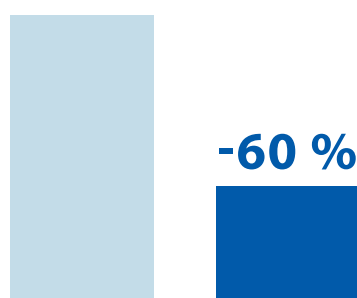


**The compact folding duct from VENTS offer a number of advantages:**

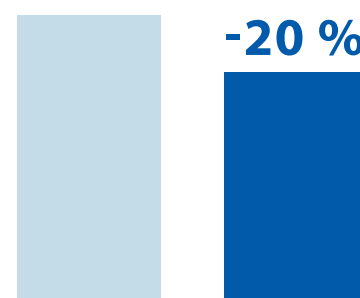
- 40 % higher transportation efficiency – more units per dispatch
- 60 % less warehouse storage space required
- Improved showroom stock diversity – even at small shops
- 20 % less time required for duct processing and fastening
- Easy and efficient mounting, better fit of parts made of elastic polymer material
- Compatible with the standard connectors and fixtures of PLASTIVENT air duct systems



**TRANSPORT COST SAVINGS**



**STORAGE SPACE SAVINGS**



**TIME SAVINGS IN PROCESSING AND INSTALLATION OF ELEMENTS**



## Round duct



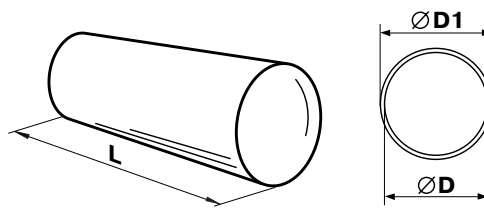
### Purpose

- Supply and exhaust ventilation systems of various spaces
- Building round ventilation ductwork systems

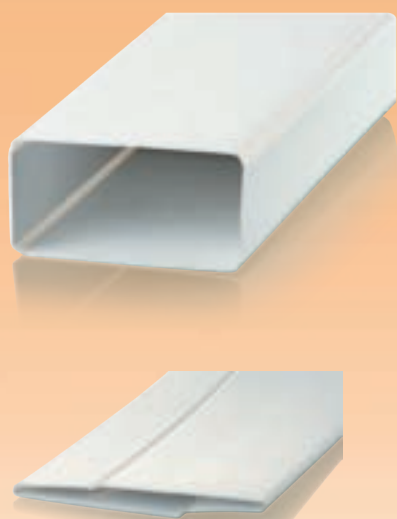
### Construction

- White PVC plastic
- Diameter: 100
- Duct length ranges from 350 to 2.500 mm
- Joined by means of appropriate diameter connectors

| Code    | Dimensions [mm] |     |      |
|---------|-----------------|-----|------|
|         | D               | D1  | L    |
| 10035-1 | 100             | 103 | 350  |
| 1005-1  | 100             | 103 | 500  |
| 1010-1  | 100             | 103 | 1000 |
| 1015-1  | 100             | 103 | 1500 |
| 1020-1  | 100             | 103 | 2000 |
| 1025-1  | 100             | 103 | 2500 |



## Flat duct



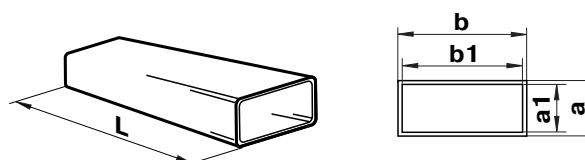
### Purpose

- Supply and exhaust ventilation systems of various spaces
- Building flat ventilation ductwork systems

### Construction

- White PVC plastic
- Cross-section: 55x110
- Duct length ranges from 350 to 2.500 mm
- Joined by means of appropriate section connectors

| Code    | Dimensions [mm] |     |    |     |      |
|---------|-----------------|-----|----|-----|------|
|         | a               | b   | a1 | b1  | L    |
| 50035-1 | 55              | 110 | 52 | 107 | 350  |
| 5005-1  | 55              | 110 | 52 | 107 | 500  |
| 5010-1  | 55              | 110 | 52 | 107 | 1000 |
| 5015-1  | 55              | 110 | 52 | 107 | 1500 |
| 5020-1  | 55              | 110 | 52 | 107 | 2000 |
| 5025-1  | 55              | 110 | 52 | 107 | 2500 |



# ACCESS DOORS FOR ACCESSING CONCEALED EQUIPMENT AND UTILITY LINES



**Access doors  
D (D2) series**  
Plastic

page  
355



**Access doors  
DPV series**  
Plastic

page  
357



**Access doors  
DZ series**  
Plastic  
(with lock)

page  
357



**Access doors  
DD series**  
Plastic  
(double sided hinges)

page  
358



**Access doors  
DM series**  
Metal

page  
359



**Access doors  
DMZ series**  
Metal  
(with lock)

page  
360



**Access doors  
DMR series**  
Metal

page  
361



**Access doors  
DMV series**  
Metal

page  
362



**Access doors  
DKP series**  
Recessed for  
ceramic tiles

page  
363



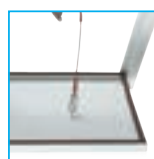
**Access doors  
DKM series**  
Recessed for  
ceramic tiles

page  
364



**Access doors  
DG series**  
Designed for plasterboard  
wall or ceiling application

page  
365



**Access doors  
DPM series**  
Designed for  
ceiling mounting

page  
366

## D series



## D2 series



Plastic access doors opening from either side

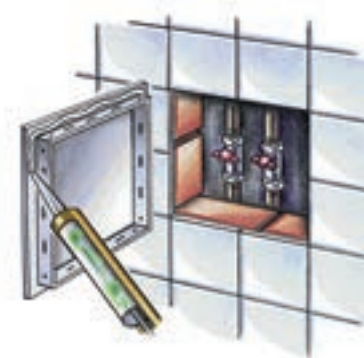
### Application

- Designed for wall or ceiling application.
- Enable quick and convenient access to concealed equipment and utility lines.
- Suitable for high-humidity areas.
- Protected by national patents worldwide.

### Design

- Made of high-quality ABS plastic.
- Left or right-side opening.

### Sample installations



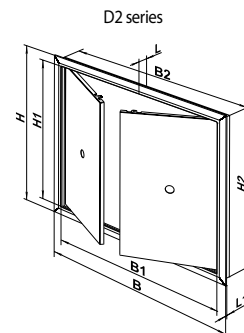
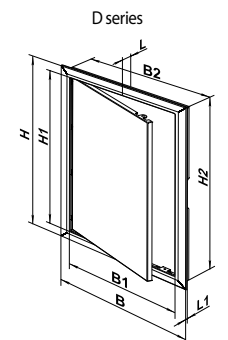
- Press gently to open and close.
- The swinging D2 doors provide maximum clearance while accessing utility lines.
- A wide range of sizes.

### Mounting

- Easy mounting using mortar or glue.
- Universal mountings for left or right-side opening.
- Easy servicing.

### Dimensions

| Model      | Dimensions [mm] |     |     |     |     |    |    |     |
|------------|-----------------|-----|-----|-----|-----|----|----|-----|
|            | H               | B   | H1  | B1  | H2  | L1 | L  | B2  |
| D 100x100  | 137             | 137 | 93  | 93  | 98  | 5  | 25 | 98  |
| D 100x200  | 216             | 120 | 191 | 93  | 195 | 5  | 25 | 98  |
| D 150x150  | 167             | 167 | 123 | 123 | 147 | 5  | 25 | 147 |
| D 150x200  | 217             | 167 | 173 | 123 | 197 | 5  | 25 | 147 |
| D 150x300  | 317             | 167 | 273 | 123 | 297 | 5  | 25 | 147 |
| D 200x200  | 217             | 217 | 173 | 173 | 197 | 5  | 25 | 197 |
| D 200x250  | 267             | 217 | 223 | 173 | 247 | 5  | 25 | 197 |
| D 200x300  | 317             | 217 | 273 | 173 | 297 | 5  | 25 | 197 |
| D 200x400  | 417             | 217 | 373 | 173 | 397 | 5  | 25 | 197 |
| D 200x500  | 517             | 217 | 473 | 173 | 497 | 5  | 25 | 197 |
| D 250x250  | 267             | 267 | 246 | 246 | 247 | 5  | 25 | 247 |
| D 250x300  | 317             | 267 | 273 | 223 | 327 | 5  | 25 | 247 |
| D 250x400  | 417             | 267 | 373 | 223 | 397 | 5  | 25 | 247 |
| D 300x300  | 317             | 317 | 273 | 273 | 297 | 5  | 25 | 297 |
| D 300x400  | 417             | 317 | 373 | 273 | 397 | 5  | 25 | 297 |
| D 300x500  | 517             | 317 | 473 | 273 | 497 | 5  | 25 | 297 |
| D 300x600  | 617             | 317 | 573 | 273 | 597 | 5  | 25 | 297 |
| D 400x500  | 517             | 417 | 473 | 373 | 497 | 5  | 25 | 397 |
| D 400x600  | 617             | 417 | 573 | 373 | 597 | 5  | 25 | 397 |
| D2 300x300 | 317             | 288 | 273 | 244 | 297 | 5  | 25 | 268 |
| D2 400x400 | 416             | 388 | 372 | 344 | 397 | 5  | 25 | 370 |



### Color options



White



Beige



Grey



Sky Blue



Beige Marble



Grey Marble



Blue Marble



Green Marble

## DPV series



Plastic access doors opening from either side

### Application

- Designed for wall or ceiling application.
- Enable quick and convenient access to concealed equipment and utility lines.
- Suitable for high-humidity areas.
- Protected by national patents worldwide.

### Design

- Made of high-quality ABS plastic.

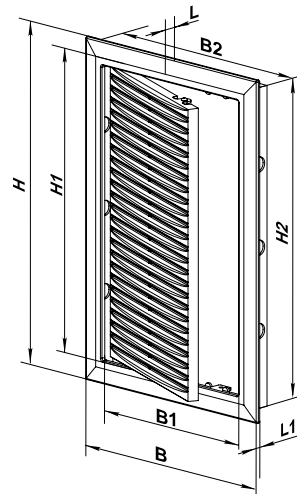
- Left or right-side opening.
- Press gently to open and close.
- A protecting insect screen may be installed as an option (**DPV 200x300 s**).

### Mounting

- Easy mounting using mortar or glue.
- Universal mountings for left or right-side opening.
- Easy servicing.

### Dimensions

| Model       | Dimensions [mm] |     |     |     |     |     |      |     |
|-------------|-----------------|-----|-----|-----|-----|-----|------|-----|
|             | H               | B   | H1  | B1  | H2  | L1  | L    | B2  |
| DPV 200x300 | 317             | 217 | 273 | 173 | 296 | 6.5 | 19.5 | 196 |



### Color options



White



Beige



Grey



Sky Blue



Beige Marble



Grey Marble



Blue Marble



Green Marble

DZ series



Plastic access doors with key lock

Application

- Designed for wall or ceiling application.
- Enable quick and convenient access to concealed equipment and utility lines.
- Suitable for high-humidity areas.
- Protected by national patents worldwide.

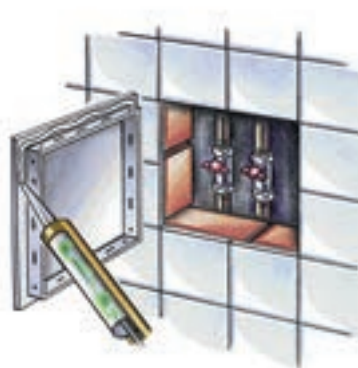
Design

- Made of high-quality ABS plastic.
- Left or right-side opening.
- Equipped with a key lock.

Mounting

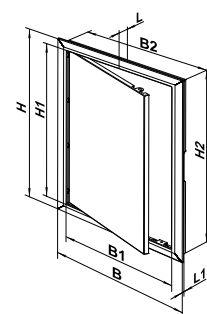
- Easy mounting using mortar or glue.
- Universal mountings for left or right-side opening.
- Easy servicing.

Sample installations



Dimensions

| Model      | Dimensions [mm] |     |     |     |     |    |    |     |
|------------|-----------------|-----|-----|-----|-----|----|----|-----|
|            | H               | B   | H1  | B1  | H2  | L1 | L  | B2  |
| DZ 150x300 | 317             | 167 | 273 | 123 | 297 | 5  | 25 | 147 |
| DZ 250x400 | 417             | 267 | 373 | 223 | 397 | 5  | 25 | 247 |
| DZ 300x500 | 517             | 317 | 473 | 273 | 497 | 5  | 25 | 297 |
| DZ 300x600 | 617             | 317 | 573 | 273 | 597 | 5  | 25 | 297 |
| DZ 400x500 | 517             | 417 | 473 | 373 | 497 | 5  | 25 | 397 |
| DZ 400x600 | 617             | 417 | 573 | 373 | 597 | 5  | 25 | 397 |



Color options



White



Beige



Grey



Sky Blue



Beige Marble



Grey Marble



Blue Marble



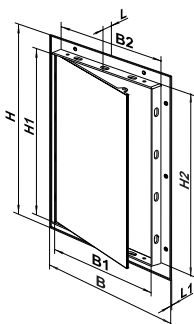
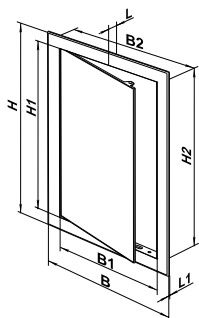
Green Marble



## DD series



Plastic access doors with double-sided hinges and paint-ready surface



### Application

- Designed for wall or ceiling application.
- Enable quick and convenient access to concealed equipment and utility lines.
- Concealed mounting for esthetic appearance.
- Suitable for high-humidity areas.
- Protected by national patents worldwide.

### Design

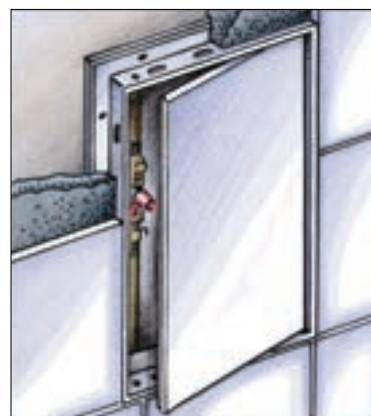
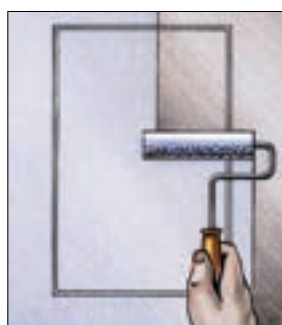
- Made of high-quality ABS plastic.
- The door surface is ready for acrylic and water-dispersion paint or wallpaper application.

- Left or right-side opening.
- Press gently to open and close.
- A wide range of sizes.

### Mounting

- Easy mounting using mortar or glue.
- Universal mountings for left or right-side opening.
- Double-sided hinges.
- Easy servicing.

### Sample installations



### Dimensions

| Model      | Dimensions [mm] |     |     |     |     |    |    |     |
|------------|-----------------|-----|-----|-----|-----|----|----|-----|
|            | H               | B   | H1  | B1  | H2  | L1 | L  | B2  |
| DD 200x300 | 336             | 236 | 291 | 189 | 297 | 3  | 20 | 197 |

### Color options



White



Beige



Grey



Sky Blue



Beige Marble



Grey Marble



Blue Marble



Green Marble

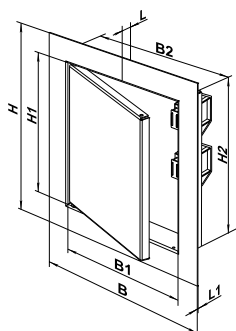
DM series



Metal access doors



Magnetic latch



Application

- Designed for wall application.
- Enable quick and convenient access to concealed equipment and utility lines.
- Suitable for high-humidity areas.

• Protected by national patents worldwide.

Design

- Made of high-quality steel with a durable powder coating.
- The use of zinc phosphate compound ensures 100 % coating integrity and provides a reliable corrosion protection.

- Left or right-side opening.
- Equipped with a magnetic latch for convenient opening and closing by gentle pressure.
- A wide range of sizes.
- Custom sizes are available upon request.

Mounting

- Easy mounting using mortar or glue.
- Universal mountings for left or right-side opening.
- Easy servicing.

Dimensions

| Model      | Dimensions [mm] |       |       |       |       |       |    |
|------------|-----------------|-------|-------|-------|-------|-------|----|
|            | H               | B     | H1    | B2    | H2    | B1    | L  |
| DM 100x100 | 136.5           | 136.5 | 96.5  | 98.1  | 98.1  | 96.5  | 25 |
| DM 150x150 | 186.5           | 186.5 | 146.5 | 148.1 | 148.1 | 146.5 | 25 |
| DM 150x200 | 236.5           | 186.5 | 196.5 | 148.1 | 198.1 | 146.5 | 25 |
| DM 150x250 | 286.5           | 186.5 | 246.5 | 148.1 | 248.1 | 146.5 | 25 |
| DM 150x300 | 336.5           | 186.5 | 296.5 | 148.1 | 298.1 | 146.5 | 25 |
| DM 200x200 | 236.5           | 236.5 | 196.5 | 198.1 | 198.1 | 196.5 | 25 |
| DM 200x250 | 286.5           | 236.5 | 246.5 | 198.1 | 248.1 | 196.5 | 25 |
| DM 200x300 | 336.5           | 236.5 | 296.5 | 198.1 | 298.1 | 196.5 | 25 |
| DM 200x350 | 386.5           | 236.5 | 346.5 | 198.1 | 348.1 | 196.5 | 25 |
| DM 200x400 | 436.5           | 236.5 | 396.5 | 198.1 | 398.1 | 196.5 | 25 |
| DM 200x500 | 536.5           | 236.5 | 496.5 | 198.1 | 498.1 | 196.5 | 25 |
| DM 225x300 | 336.5           | 261.5 | 296.5 | 223.1 | 298.1 | 221.5 | 25 |
| DM 225x590 | 626.5           | 261.5 | 586.5 | 223.1 | 588.1 | 221.5 | 25 |
| DM 250x250 | 286.5           | 286.5 | 246.5 | 248.1 | 248.1 | 246.5 | 25 |
| DM 250x300 | 336.5           | 286.5 | 296.5 | 248.1 | 298.1 | 246.5 | 25 |
| DM 250x350 | 386.5           | 286.5 | 346.5 | 248.1 | 348.1 | 246.5 | 25 |
| DM 250x400 | 436.5           | 286.5 | 396.5 | 248.1 | 398.1 | 246.5 | 25 |
| DM 250x450 | 486.5           | 286.5 | 446.5 | 248.1 | 448.1 | 246.5 | 25 |
| DM 300x200 | 236.5           | 336.5 | 196.5 | 298.1 | 198.1 | 296.5 | 25 |
| DM 300x300 | 336.5           | 336.5 | 296.5 | 298.1 | 298.1 | 296.5 | 25 |
| DM 300x400 | 436.5           | 336.5 | 396.5 | 298.1 | 398.1 | 296.5 | 25 |
| DM 300x500 | 536.5           | 336.5 | 496.5 | 298.1 | 498.1 | 296.5 | 25 |
| DM 300x600 | 636.5           | 336.5 | 596.5 | 298.1 | 598.1 | 296.5 | 25 |
| DM 350x350 | 386.5           | 386.5 | 346.5 | 348.1 | 348.1 | 346.5 | 25 |
| DM 400x400 | 436.5           | 436.5 | 396.5 | 398.1 | 398.1 | 396.5 | 25 |
| DM 400x500 | 536.5           | 436.5 | 496.5 | 398.1 | 498.1 | 396.5 | 25 |
| DM 400x600 | 636.5           | 436.5 | 596.5 | 398.1 | 598.1 | 396.5 | 25 |
| DM 450x250 | 286.5           | 486.5 | 246.5 | 448.1 | 248.1 | 446.5 | 25 |
| DM 450x450 | 486.5           | 486.5 | 446.5 | 448.1 | 448.1 | 446.5 | 25 |
| DM 500x500 | 536.5           | 536.5 | 496.5 | 498.1 | 498.1 | 496.5 | 25 |
| DM 500x600 | 636.5           | 536.5 | 596.5 | 498.1 | 598.1 | 496.5 | 25 |
| DM 500x800 | 836.5           | 536.5 | 796.5 | 498.1 | 798.1 | 496.5 | 25 |
| DM 555x555 | 591.5           | 591.5 | 551.5 | 553.1 | 553.1 | 551.5 | 25 |
| DM 600x400 | 436.5           | 636.5 | 396.5 | 598.1 | 398.1 | 596.5 | 25 |
| DM 600x600 | 636.5           | 636.5 | 596.5 | 598.1 | 598.1 | 596.5 | 25 |
| DM 600x800 | 836.5           | 636.5 | 796.5 | 598.1 | 798.1 | 596.5 | 25 |

Color options



White



Beige



Brown



Grey



Sky Blue



Black

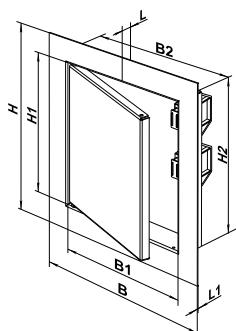
## DMZ series



Metal access doors




Key lock



### Application

- Designed for wall or ceiling application.
- Enable quick and convenient access to concealed equipment and utility lines.
- Suitable for high-humidity areas.

- Protected by national patents worldwide. 

### Design

- Made of high-quality steel with a durable powder coating.
- The use of zinc phosphate compound ensures 100 % coating integrity and provides a reliable corrosion protection.

- Left or right-side opening.
- Equipped with a key lock.
- A wide range of sizes.
- Custom sizes are available upon request.

### Mounting

- Easy mounting using mortar or glue.
- Universal mountings for left or right-side opening.
- Easy servicing.

### Dimensions

| Model       | Dimensions [mm] |       |       |       |       |       |    |
|-------------|-----------------|-------|-------|-------|-------|-------|----|
|             | H               | B     | H1    | B2    | H2    | B1    | L  |
| DMZ 100x100 | 136.5           | 136.5 | 96.5  | 98.1  | 98.1  | 96.5  | 25 |
| DMZ 150x150 | 186.5           | 186.5 | 146.5 | 148.1 | 148.1 | 146.5 | 25 |
| DMZ 150x200 | 236.5           | 186.5 | 196.5 | 148.1 | 198.1 | 146.5 | 25 |
| DMZ 150x250 | 286.5           | 186.5 | 246.5 | 148.1 | 248.1 | 146.5 | 25 |
| DMZ 150x300 | 336.5           | 186.5 | 296.5 | 148.1 | 298.1 | 146.5 | 25 |
| DMZ 200x200 | 236.5           | 236.5 | 196.5 | 198.1 | 198.1 | 196.5 | 25 |
| DMZ 200x250 | 286.5           | 236.5 | 246.5 | 198.1 | 248.1 | 196.5 | 25 |
| DMZ 200x300 | 336.5           | 236.5 | 296.5 | 198.1 | 298.1 | 196.5 | 25 |
| DMZ 200x350 | 386.5           | 236.5 | 346.5 | 198.1 | 348.1 | 196.5 | 25 |
| DMZ 200x400 | 436.5           | 236.5 | 396.5 | 198.1 | 398.1 | 196.5 | 25 |
| DMZ 200x500 | 536.5           | 236.5 | 496.5 | 198.1 | 498.1 | 196.5 | 25 |
| DMZ 225x300 | 336.5           | 261.5 | 296.5 | 223.1 | 298.1 | 221.5 | 25 |
| DMZ 225x590 | 626.5           | 261.5 | 586.5 | 223.1 | 588.1 | 221.5 | 25 |
| DMZ 250x250 | 286.5           | 286.5 | 246.5 | 248.1 | 248.1 | 246.5 | 25 |
| DMZ 250x300 | 336.5           | 286.5 | 296.5 | 248.1 | 298.1 | 246.5 | 25 |
| DMZ 250x350 | 386.5           | 286.5 | 346.5 | 248.1 | 348.1 | 246.5 | 25 |
| DMZ 250x400 | 436.5           | 286.5 | 396.5 | 248.1 | 398.1 | 246.5 | 25 |
| DMZ 250x450 | 486.5           | 286.5 | 446.5 | 248.1 | 448.1 | 246.5 | 25 |
| DMZ 300x200 | 236.5           | 336.5 | 196.5 | 298.1 | 198.1 | 296.5 | 25 |
| DMZ 300x300 | 336.5           | 336.5 | 296.5 | 298.1 | 298.1 | 296.5 | 25 |
| DMZ 300x400 | 436.5           | 336.5 | 396.5 | 298.1 | 398.1 | 296.5 | 25 |
| DMZ 300x500 | 536.5           | 336.5 | 496.5 | 298.1 | 498.1 | 296.5 | 25 |
| DMZ 300x600 | 636.5           | 336.5 | 596.5 | 298.1 | 598.1 | 296.5 | 25 |
| DMZ 350x350 | 386.5           | 386.5 | 346.5 | 348.1 | 348.1 | 346.5 | 25 |
| DMZ 400x400 | 436.5           | 436.5 | 396.5 | 398.1 | 398.1 | 396.5 | 25 |
| DMZ 400x500 | 536.5           | 436.5 | 496.5 | 398.1 | 498.1 | 396.5 | 25 |
| DMZ 400x600 | 636.5           | 436.5 | 596.5 | 398.1 | 598.1 | 396.5 | 25 |
| DMZ 450x250 | 286.5           | 486.5 | 246.5 | 448.1 | 248.1 | 446.5 | 25 |
| DMZ 450x450 | 486.5           | 486.5 | 446.5 | 448.1 | 448.1 | 446.5 | 25 |
| DMZ 500x500 | 536.5           | 536.5 | 496.5 | 498.1 | 498.1 | 496.5 | 25 |
| DMZ 500x600 | 636.5           | 536.5 | 596.5 | 498.1 | 598.1 | 496.5 | 25 |
| DMZ 500x800 | 836.5           | 536.5 | 796.5 | 498.1 | 798.1 | 496.5 | 25 |
| DMZ 555x555 | 591.5           | 591.5 | 551.5 | 553.1 | 553.1 | 551.5 | 25 |
| DMZ 600x400 | 436.5           | 636.5 | 396.5 | 598.1 | 398.1 | 596.5 | 25 |
| DMZ 600x600 | 636.5           | 636.5 | 596.5 | 598.1 | 598.1 | 596.5 | 25 |
| DMZ 600x800 | 836.5           | 636.5 | 796.5 | 598.1 | 798.1 | 596.5 | 25 |

### Color options



White



Beige



Brown



Grey



Sky Blue



Black

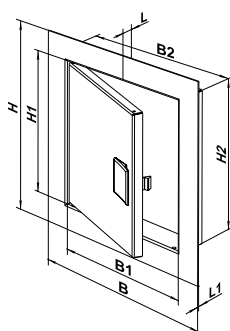
### DMR series



Metal access doors with a plastic handle



Plastic handle provides additional convenience while opening and closing



#### Application

- Designed for wall application.
- Enable quick and convenient access to concealed equipment and utility lines.
- Suitable for high-humidity areas.
- Protected by national patents worldwide.

#### Design

- Made of high-quality steel with a durable powder coating.
- The use of zinc phosphate compound ensures 100 % coating integrity and provides a reliable

corrosion protection.

- Left or right-side opening.
- Equipped with a plastic handle for easy opening and closing.
- A wide range of sizes.
- Custom sizes are available upon request.

#### Mounting

- Easy mounting using mortar or glue.
- Universal mountings for left or right-side opening.
- Easy servicing.

#### Dimensions

| Model       | Dimensions [mm] |       |       |       |       |       |    |
|-------------|-----------------|-------|-------|-------|-------|-------|----|
|             | H               | B     | H1    | B2    | H2    | B1    | L  |
| DMR 100x100 | 136.5           | 136.5 | 96.5  | 98.1  | 98.1  | 96.5  | 25 |
| DMR 150x150 | 186.5           | 186.5 | 146.5 | 148.1 | 148.1 | 146.5 | 25 |
| DMR 150x200 | 236.5           | 186.5 | 196.5 | 148.1 | 198.1 | 146.5 | 25 |
| DMR 150x250 | 286.5           | 186.5 | 246.5 | 148.1 | 248.1 | 146.5 | 25 |
| DMR 150x300 | 336.5           | 186.5 | 296.5 | 148.1 | 298.1 | 146.5 | 25 |
| DMR 200x200 | 236.5           | 236.5 | 196.5 | 198.1 | 198.1 | 196.5 | 25 |
| DMR 200x250 | 286.5           | 236.5 | 246.5 | 198.1 | 248.1 | 196.5 | 25 |
| DMR 200x300 | 336.5           | 236.5 | 296.5 | 198.1 | 298.1 | 196.5 | 25 |
| DMR 200x350 | 386.5           | 236.5 | 346.5 | 198.1 | 348.1 | 196.5 | 25 |
| DMR 200x400 | 436.5           | 236.5 | 396.5 | 198.1 | 398.1 | 196.5 | 25 |
| DMR 225x300 | 336.5           | 261.5 | 296.5 | 223.1 | 298.1 | 221.5 | 25 |
| DMR 225x590 | 626.5           | 261.5 | 586.5 | 223.1 | 588.1 | 221.5 | 25 |
| DMR 250x250 | 286.5           | 286.5 | 246.5 | 248.1 | 248.1 | 246.5 | 25 |
| DMR 250x300 | 336.5           | 286.5 | 296.5 | 248.1 | 298.1 | 246.5 | 25 |
| DMR 250x350 | 386.5           | 286.5 | 346.5 | 248.1 | 348.1 | 246.5 | 25 |
| DMR 250x400 | 436.5           | 286.5 | 396.5 | 248.1 | 398.1 | 246.5 | 25 |
| DMR 250x450 | 486.5           | 286.5 | 446.5 | 248.1 | 448.1 | 246.5 | 25 |
| DMR 300x200 | 236.5           | 336.5 | 196.5 | 298.1 | 198.1 | 296.5 | 25 |
| DMR 300x300 | 336.5           | 336.5 | 296.5 | 298.1 | 298.1 | 296.5 | 25 |
| DMR 300x400 | 436.5           | 336.5 | 396.5 | 298.1 | 398.1 | 296.5 | 25 |
| DMR 300x500 | 536.5           | 336.5 | 496.5 | 298.1 | 498.1 | 296.5 | 25 |
| DMR 300x600 | 636.5           | 336.5 | 596.5 | 298.1 | 598.1 | 296.5 | 25 |
| DMR 350x350 | 386.5           | 386.5 | 346.5 | 348.1 | 348.1 | 346.5 | 25 |
| DMR 400x400 | 436.5           | 436.5 | 396.5 | 398.1 | 398.1 | 396.5 | 25 |
| DMR 400x500 | 536.5           | 436.5 | 496.5 | 398.1 | 498.1 | 396.5 | 25 |
| DMR 400x600 | 636.5           | 436.5 | 596.5 | 398.1 | 598.1 | 396.5 | 25 |
| DMR 450x250 | 286.5           | 486.5 | 246.5 | 448.1 | 248.1 | 446.5 | 25 |
| DMR 450x450 | 486.5           | 486.5 | 446.5 | 448.1 | 448.1 | 446.5 | 25 |
| DMR 500x500 | 536.5           | 536.5 | 496.5 | 498.1 | 498.1 | 496.5 | 25 |
| DMR 500x600 | 636.5           | 536.5 | 596.5 | 498.1 | 598.1 | 496.5 | 25 |
| DMR 500x800 | 836.5           | 536.5 | 796.5 | 498.1 | 798.1 | 496.5 | 25 |
| DMR 555x555 | 591.5           | 591.5 | 551.5 | 553.1 | 553.1 | 551.5 | 25 |
| DMR 600x400 | 436.5           | 636.5 | 396.5 | 598.1 | 398.1 | 596.5 | 25 |
| DMR 600x600 | 636.5           | 636.5 | 596.5 | 598.1 | 598.1 | 596.5 | 25 |
| DMR 600x800 | 836.5           | 636.5 | 796.5 | 598.1 | 798.1 | 596.5 | 25 |

#### Color options



White



Beige



Brown



Grey



Sky Blue

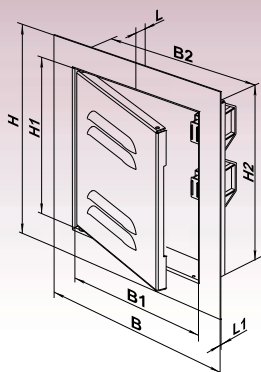


Black

## DMV series



Metal access doors with ventilation openings



### Application

- Designed for wall application.
- Enable quick and convenient access to concealed equipment and utility lines.
- Suitable for high-humidity areas.
- Protected by national patents worldwide.

### Design

- Made of high-quality steel with a durable powder coating.
- The use of zinc phosphate compound ensures 100 % coating integrity and provides a reliable corrosion protection.

- Ventilation openings supply additional air into the space behind the door.
- Left or right-side opening.
- Equipped with a plastic handle for easy opening and closing.
- A wide range of sizes.
- Custom sizes are available upon request.

### Mounting

- Easy mounting using mortar or glue.
- Universal mountings for left or right-side opening.
- Easy servicing.

### Dimensions

| Model       | Dimensions [mm] |       |       |       |       |       |    |
|-------------|-----------------|-------|-------|-------|-------|-------|----|
|             | H               | B     | H1    | B2    | H2    | B1    | L  |
| DMV 100x100 | 136.5           | 136.5 | 96.5  | 98.1  | 98.1  | 96.5  | 25 |
| DMV 150x150 | 186.5           | 186.5 | 146.5 | 148.1 | 148.1 | 146.5 | 25 |
| DMV 150x200 | 236.5           | 186.5 | 196.5 | 148.1 | 198.1 | 146.5 | 25 |
| DMV 150x250 | 286.5           | 186.5 | 246.5 | 148.1 | 248.1 | 146.5 | 25 |
| DMV 150x300 | 336.5           | 186.5 | 296.5 | 148.1 | 298.1 | 146.5 | 25 |
| DMV 200x200 | 236.5           | 236.5 | 196.5 | 198.1 | 198.1 | 196.5 | 25 |
| DMV 200x250 | 286.5           | 236.5 | 246.5 | 198.1 | 248.1 | 196.5 | 25 |
| DMV 200x300 | 336.5           | 236.5 | 296.5 | 198.1 | 298.1 | 196.5 | 25 |
| DMV 200x350 | 386.5           | 236.5 | 346.5 | 198.1 | 348.1 | 196.5 | 25 |
| DMV 200x400 | 436.5           | 236.5 | 396.5 | 198.1 | 398.1 | 196.5 | 25 |
| DMV 225x300 | 336.5           | 261.5 | 296.5 | 223.1 | 298.1 | 221.5 | 25 |
| DMV 225x590 | 626.5           | 261.5 | 586.5 | 223.1 | 588.1 | 221.5 | 25 |
| DMV 250x250 | 286.5           | 286.5 | 246.5 | 248.1 | 248.1 | 246.5 | 25 |
| DMV 250x300 | 336.5           | 286.5 | 296.5 | 248.1 | 298.1 | 246.5 | 25 |
| DMV 250x350 | 386.5           | 286.5 | 346.5 | 248.1 | 348.1 | 246.5 | 25 |
| DMV 250x400 | 436.5           | 286.5 | 396.5 | 248.1 | 398.1 | 246.5 | 25 |
| DMV 250x450 | 486.5           | 286.5 | 446.5 | 248.1 | 448.1 | 246.5 | 25 |
| DMV 300x200 | 236.5           | 336.5 | 296.5 | 298.1 | 198.1 | 196.5 | 25 |
| DMV 300x300 | 336.5           | 336.5 | 296.5 | 298.1 | 298.1 | 296.5 | 25 |
| DMV 300x400 | 436.5           | 336.5 | 396.5 | 298.1 | 398.1 | 296.5 | 25 |
| DMV 300x500 | 536.5           | 336.5 | 496.5 | 298.1 | 498.1 | 296.5 | 25 |
| DMV 300x600 | 636.5           | 336.5 | 596.5 | 298.1 | 598.1 | 296.5 | 25 |
| DMV 350x350 | 386.5           | 386.5 | 346.5 | 348.1 | 348.1 | 346.5 | 25 |
| DMV 400x400 | 436.5           | 436.5 | 396.5 | 398.1 | 398.1 | 396.5 | 25 |
| DMV 400x500 | 536.5           | 436.5 | 496.5 | 398.1 | 498.1 | 396.5 | 25 |
| DMV 400x600 | 636.5           | 436.5 | 596.5 | 398.1 | 598.1 | 396.5 | 25 |
| DMV 450x250 | 286.5           | 486.5 | 446.5 | 448.1 | 248.1 | 246.5 | 25 |
| DMV 450x450 | 486.5           | 486.5 | 446.5 | 448.1 | 448.1 | 446.5 | 25 |
| DMV 500x500 | 536.5           | 536.5 | 496.5 | 498.1 | 498.1 | 496.5 | 25 |
| DMV 500x600 | 636.5           | 536.5 | 596.5 | 498.1 | 598.1 | 496.5 | 25 |
| DMV 500x800 | 836.5           | 536.5 | 796.5 | 498.1 | 798.1 | 496.5 | 25 |
| DMV 555x555 | 591.5           | 591.5 | 551.5 | 553.1 | 553.1 | 551.5 | 25 |
| DMV 600x400 | 436.5           | 636.5 | 596.5 | 598.1 | 398.1 | 396.5 | 25 |
| DMV 600x600 | 636.5           | 636.5 | 596.5 | 598.1 | 598.1 | 596.5 | 25 |
| DMV 600x800 | 836.5           | 636.5 | 596.5 | 598.1 | 798.1 | 796.5 | 25 |

### Color options



White



Beige



Brown



Grey



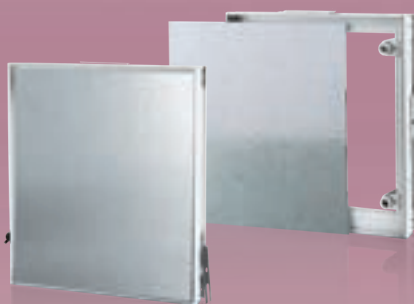
Sky Blue



Black

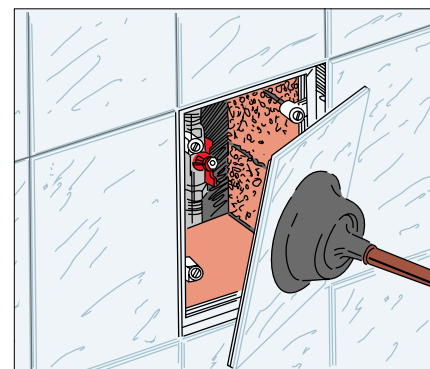
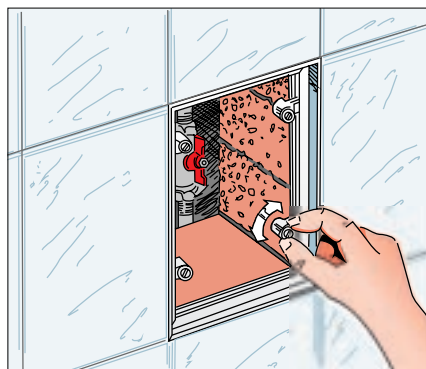
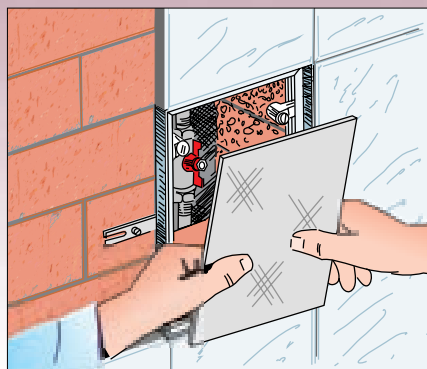


**DKP series**



Access doors on a PVC frame for attaching ceramic tiles

**Sample installations**



**Application**

- Designed for wall installation and ceramic tile attachment.
- Enable quick and convenient access to concealed equipment and utility lines.
- Concealed mounting for esthetic appearance.
- Suitable for high-humidity areas.
- Protected by national patents worldwide.

**Design**

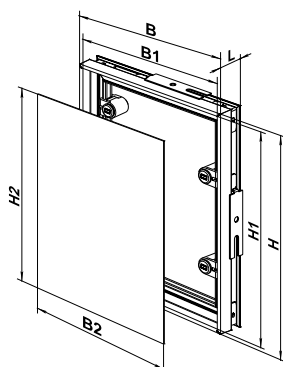
- The PVC profile frame contains magnets and hides the tile-to-tile gap.

- Metal plate for attaching ceramic tiles.
- Magnetic attachment of plate to the frame.
- Press gently to open and close or use a cup plunger.
- A wide range of sizes.

**Mounting**

- Easy installation using spacers lugs.
- Height-adjustable magnets enable perfect leveling of tiles to the wall surface.
- Ceramic tiles are easily glued to the plate.
- Easy servicing.

**Dimensions**

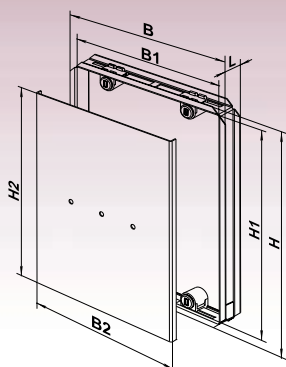


| Model       | Dimensions [mm] |     |     |     |     |     |    |
|-------------|-----------------|-----|-----|-----|-----|-----|----|
|             | B               | H   | B2  | H2  | B1  | H1  | L  |
| DKP 150x150 | 156             | 156 | 145 | 145 | 153 | 153 | 30 |
| DKP 150x200 | 156             | 206 | 145 | 195 | 153 | 203 | 30 |
| DKP 150x300 | 156             | 306 | 145 | 295 | 153 | 303 | 30 |
| DKP 200x200 | 206             | 206 | 195 | 195 | 203 | 203 | 30 |
| DKP 200x250 | 206             | 256 | 195 | 245 | 203 | 253 | 30 |
| DKP 200x300 | 206             | 306 | 195 | 295 | 203 | 303 | 30 |
| DKP 200x350 | 206             | 356 | 195 | 345 | 203 | 353 | 30 |
| DKP 200x400 | 206             | 406 | 195 | 395 | 203 | 403 | 30 |
| DKP 200x450 | 206             | 456 | 195 | 445 | 203 | 453 | 30 |
| DKP 200x500 | 206             | 506 | 195 | 495 | 203 | 503 | 30 |
| DKP 250x250 | 256             | 256 | 245 | 245 | 253 | 253 | 30 |
| DKP 250x300 | 256             | 306 | 245 | 295 | 253 | 303 | 30 |
| DKP 250x350 | 256             | 356 | 245 | 345 | 253 | 353 | 30 |
| DKP 250x400 | 256             | 406 | 245 | 395 | 253 | 403 | 30 |
| DKP 300x300 | 306             | 306 | 295 | 295 | 303 | 303 | 30 |
| DKP 300x350 | 306             | 356 | 295 | 345 | 303 | 353 | 30 |
| DKP 300x400 | 306             | 406 | 295 | 395 | 303 | 403 | 30 |
| DKP 300x450 | 306             | 456 | 295 | 445 | 303 | 453 | 30 |
| DKP 300x500 | 306             | 506 | 295 | 495 | 303 | 503 | 30 |
| DKP 400x400 | 406             | 406 | 395 | 395 | 403 | 403 | 30 |

## DKM series



Access doors on a metal frame recessed for ceramic tiles



### Application

- Designed for wall installation and ceramic tile attachment.
- Enable quick and convenient access to concealed equipment and utility lines.
- Concealed mounting for esthetic appearance.
- Suitable for high-humidity areas.
- Protected by national patents worldwide.

### Design

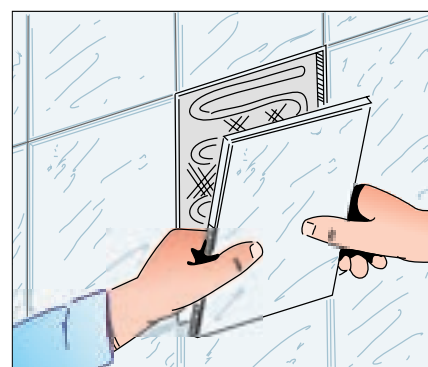
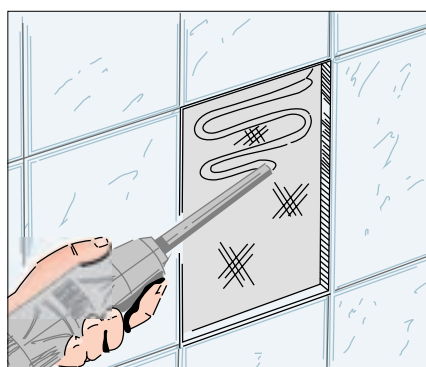
- The metal frame contains magnets for plate attachment and hides the tile-to-tile gap.

- Metal plate for attaching ceramic tiles.
- Magnetic attachment of plate to the frame.
- Press gently to open and close or use a cup plunger.
- A wide range of sizes.

### Mounting

- Easy installation using mounting foam or mortar.
- Height-adjustable magnets enable perfect leveling of tiles to the wall surface.
- Ceramic tiles are easily glued to the plate.
- Easy servicing.

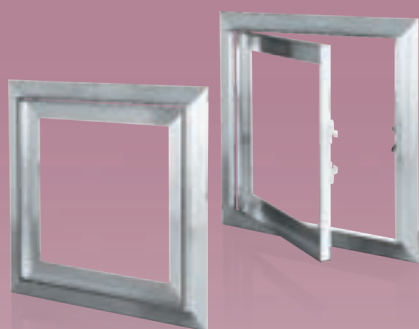
### Sample Installations



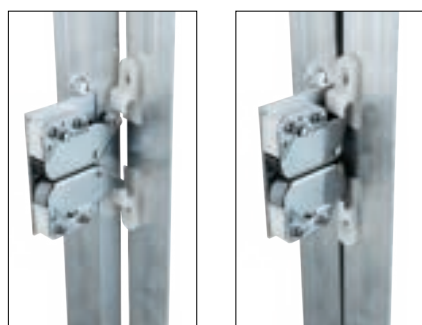
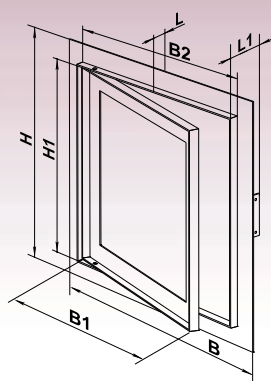
### Dimensions

| Model       | Dimensions [mm] |       |     |     |    |
|-------------|-----------------|-------|-----|-----|----|
|             | B               | H     | B2  | H2  | L  |
| DKM 150x150 | 163.6           | 163.6 | 150 | 150 | 26 |
| DKM 150x200 | 163.6           | 213.6 | 150 | 200 | 26 |
| DKM 150x250 | 163.6           | 263.6 | 150 | 250 | 26 |
| DKM 150x300 | 163.6           | 313.6 | 150 | 300 | 26 |
| DKM 200x200 | 213.6           | 213.6 | 200 | 200 | 26 |
| DKM 200x250 | 213.6           | 263.6 | 200 | 250 | 26 |
| DKM 200x300 | 213.6           | 313.6 | 200 | 300 | 26 |
| DKM 200x350 | 213.6           | 363.6 | 200 | 350 | 26 |
| DKM 200x400 | 213.6           | 413.6 | 200 | 400 | 26 |
| DKM 200x450 | 213.6           | 463.6 | 200 | 450 | 26 |
| DKM 200x500 | 213.6           | 513.6 | 200 | 500 | 26 |
| DKM 250x250 | 263.6           | 263.6 | 250 | 250 | 26 |
| DKM 250x300 | 263.6           | 313.6 | 250 | 300 | 26 |
| DKM 250x350 | 263.6           | 363.6 | 250 | 350 | 26 |
| DKM 250x400 | 263.6           | 413.6 | 250 | 400 | 26 |
| DKM 300x300 | 313.6           | 313.6 | 300 | 300 | 26 |
| DKM 300x350 | 313.6           | 363.6 | 300 | 350 | 26 |
| DKM 300x400 | 313.6           | 413.6 | 300 | 400 | 26 |
| DKM 300x450 | 313.6           | 463.6 | 300 | 450 | 26 |
| DKM 300x500 | 313.6           | 513.6 | 300 | 500 | 26 |
| DKM 400x400 | 413.6           | 413.6 | 400 | 400 | 26 |
| DKM 400x500 | 413.6           | 513.6 | 400 | 500 | 26 |
| DKM 500x500 | 513.6           | 513.6 | 500 | 500 | 26 |
| DKM 600x600 | 613.6           | 613.6 | 600 | 600 | 26 |

DG series



Access doors for plasterboard application



The special mechanism provides for secure locking

Application

- Designed for plasterboard walls and ceilings 12.5 and 15 mm thick.
- Enable quick and convenient access to concealed equipment and utility lines.
- Suitable for high-humidity areas.
- Protected by national patents worldwide.

Design

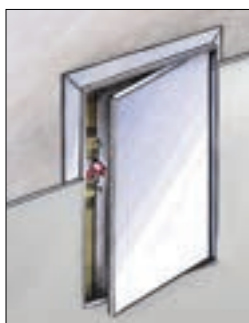
- The main structural frame and panel frame are made of aluminum profile.
- The special mechanism ensures secure locking, large-size doors are equipped with double locks.

- Left or right-side opening.
- Press gently to open and close.
- A wide range of sizes.
- Custom sizes are available upon request.

Mounting

- The doors are attached to aluminum profiles on self-tapping screws and flushed up with plasterboard on the front.
- Universal mountings for left or right-side opening.
- Easy servicing.

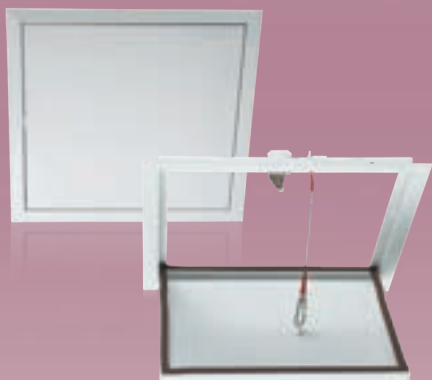
Sample Installations



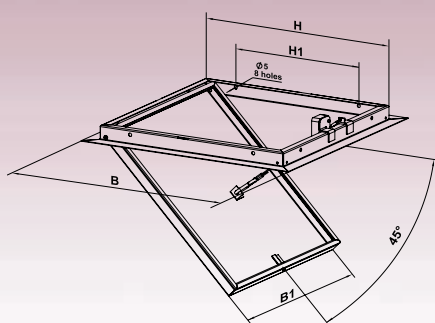
Dimensions

| Model      | Dimensions [mm] |       |     |    |    |                 |
|------------|-----------------|-------|-----|----|----|-----------------|
|            | H/B             | H1/B1 | B2  | L  | L1 | Number of locks |
| DG 200x200 | 260             | 196   | 204 | 15 | 55 | 1               |
| DG 300x300 | 360             | 296   | 304 | 15 | 55 | 1               |
| DG 400x400 | 460             | 396   | 404 | 15 | 55 | 2               |
| DG 500x500 | 560             | 496   | 504 | 15 | 55 | 2               |
| DG 600x600 | 660             | 596   | 604 | 15 | 55 | 2               |

## DPM series



Access metal doors for ceiling mounting



### Application

- Designed for ceiling application.
- Enable quick and convenient access to concealed equipment and utility lines.
- Suitable for high-humidity areas.
- Protected by national patents worldwide.

### Design

- Made of high-quality durable polymer-coated steel.
- The use of zinc phosphate compound ensures 100 % coating integrity and provides a reliable corrosion protection.
- Specially designed mechanical lock provides a safe door fixation.

- Easy opening and closing with a slight pressing.
- Custom sizes are available upon request.
- The doors are equipped with a galvanized steel safety rope with a snap hook to retain doors in a position that enables inspection works.
- The door opening angle with a safety rope is 45°.
- Open the snap hook if a wider opening angle is required for inspections.
- The doors are lined with a sealant for tight connection between the doors and the frame.

### Mounting

- Screw fixation to the ceiling-mounted aluminium shape.



### Dimensions

| Model       | Dimensions [mm] |       |     |     |
|-------------|-----------------|-------|-----|-----|
|             | □ B             | □ B1  | □ H | H1  |
| DPM 300x300 | 336.5           | 296.5 | 298 | 200 |





# PLASTIC HVAC GRILLES



## Profiplast means ideal air flows distribution

Quality and functionality of ventilation and air conditioning depends a lot on end air distribution, supply and intake devices.

Profiplast are the professional air distribution systems with a great product variety to implement any technical and project designs that are featured with extreme durability.

The benefits of Profiplast products are due to the use of specially designed plastics. These offer the following advantages to consumers: Profiplast grilles produce no condensation, have excellent sound-insulating and corrosion-resistant properties. Moreover they are non-flammable and are easy to paint.

## Plastic properties

Generally, plastic is the most widely used construction material due to the beneficial properties:

- Durability combined with a maintenance-free service life
- Extremely low heat conductivity and good sound insulation
- UV-resistance
- Good hygienic properties and easy to clean
- Detergent resistant
- The best balance of price and quality
- Corrosion- and decay-resistance
- Eco-friendly because it is 100 % recyclable

## The goods made of specially designed plastic:

- Prevent fire propagation because of their flame-proof qualities and have high fire safety properties.
- Totally recyclable at the end of the service life to get new products.
- Offer the best combination of price and quality.

The specially designed plastic is widely used for all plastic technologies and its application range is very comprehensive. There is no other comparable material that is as usable and reliable for this application as Profiplast plastic. The specially designed plastic is the ideal solution for any application requiring low maintenance, good sound insulation, consistent use, heavy operation load, ease of servicing, low flammability and high eco requirements.

These properties make plastic the best solution for premises with high hygiene standards.



**Supply and exhaust NHN (NUN) series grilles**

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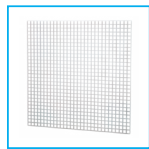
**Supply and exhaust NVN (NUN) series grilles**

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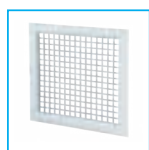
**Exhaust GR series grilles**

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**Supply and exhaust RD series grilles**

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**Supply and exhaust ND series grilles**

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**Supply and exhaust NK-3 series grilles**

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**Supply and exhaust NK-4 series grilles**

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382

## NHN (NUN) series



Ventilation grille with unregulated vertical inclined vanes

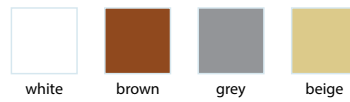
### Application

- Supply and exhaust ventilation, heating and air conditioning networks in industrial, commercial and domestic premises.

### Design

- Made of high-quality plastic.
- Weather- and temperature-resistant.
- Removable spring-loaded vanes for simple maintenance.
- Simple and quick mounting.

### Colour modifications



UV-resistant



Waterproof



Heat-resistant



Frostproof



Easy mounting



Fire-resistant



Antibacterial



Impact-resistant

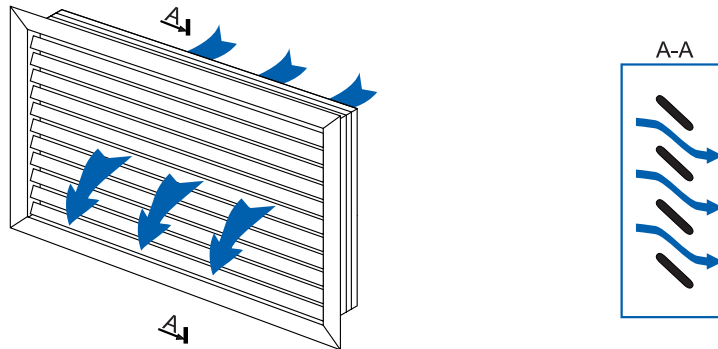


Durable

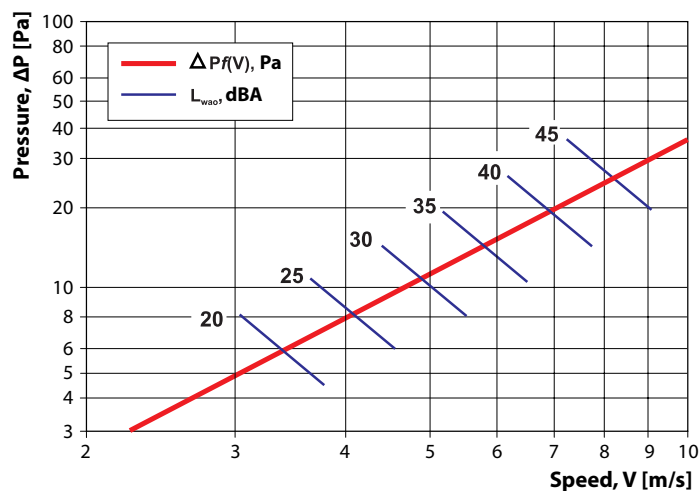


Maintenance-free

### Air flow distribution

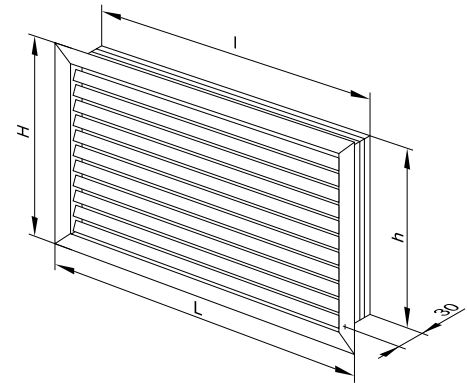


### Pressure loss and sound power diagram

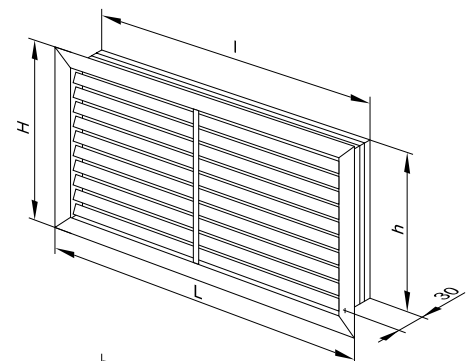


## Overall dimensions

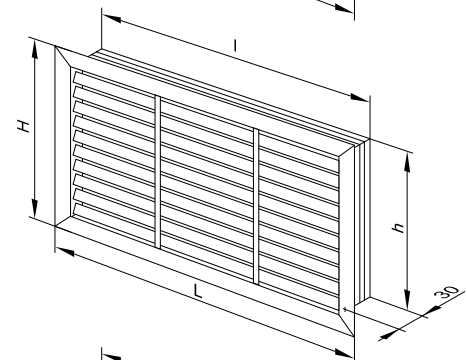
| Model       | Dimensions [mm] |     |     |     | Air pass [m <sup>2</sup> ] |
|-------------|-----------------|-----|-----|-----|----------------------------|
|             | H               | L   | h   | l   |                            |
| NUN 200×200 | 214             | 214 | 200 | 200 | 0.0066                     |
| NHN 300×200 | 214             | 303 | 200 | 289 | 0.0104                     |
| NHN 350×200 | 214             | 363 | 200 | 349 | 0.0131                     |
| NHN 400×200 | 214             | 392 | 200 | 378 | 0.0143                     |
| NHN 450×200 | 214             | 452 | 200 | 438 | 0.0170                     |
| NHN 500×200 | 214             | 512 | 200 | 498 | 0.0196                     |
| NHN 600×200 | 214             | 602 | 200 | 588 | 0.0235                     |
| NUN 300×300 | 303             | 303 | 289 | 289 | 0.0169                     |
| NHN 350×300 | 303             | 363 | 289 | 349 | 0.0212                     |
| NHN 400×300 | 303             | 392 | 289 | 378 | 0.0232                     |
| NHN 450×300 | 303             | 452 | 289 | 438 | 0.0275                     |
| NHN 500×300 | 303             | 512 | 289 | 498 | 0.0317                     |
| NHN 600×300 | 303             | 602 | 289 | 588 | 0.0381                     |
| NUN 350×350 | 363             | 363 | 349 | 349 | 0.0267                     |
| NHN 400×350 | 363             | 392 | 349 | 378 | 0.0292                     |
| NHN 450×350 | 363             | 452 | 349 | 438 | 0.0346                     |
| NHN 500×350 | 363             | 512 | 349 | 498 | 0.0399                     |
| NHN 600×350 | 363             | 602 | 349 | 588 | 0.0480                     |
| NUN 400×400 | 392             | 392 | 378 | 378 | 0.0321                     |
| NHN 450×400 | 392             | 452 | 378 | 438 | 0.0380                     |
| NHN 500×400 | 392             | 512 | 378 | 498 | 0.0439                     |
| NHN 600×400 | 392             | 602 | 378 | 588 | 0.0527                     |
| NUN 450×450 | 452             | 452 | 438 | 438 | 0.0451                     |
| NHN 500×450 | 452             | 512 | 438 | 498 | 0.0521                     |
| NHN 600×450 | 452             | 602 | 438 | 588 | 0.0626                     |
| NUN 500×500 | 512             | 512 | 498 | 498 | 0.0603                     |
| NHN 600×500 | 512             | 602 | 498 | 588 | 0.0724                     |



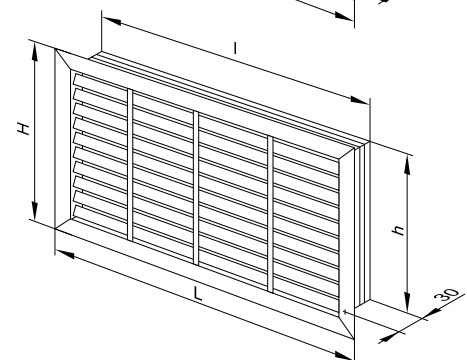
| Model       | Dimensions [mm] |     |     |     | Air pass [m <sup>2</sup> ] |
|-------------|-----------------|-----|-----|-----|----------------------------|
|             | H               | L   | h   | l   |                            |
| NUN 580×580 | 599             | 599 | 585 | 585 | 0.0755                     |
| NUN 600×600 | 602             | 602 | 588 | 588 | 0.0764                     |
| NHN 900×200 | 214             | 912 | 200 | 898 | 0.0341                     |
| NHN 900×300 | 303             | 912 | 289 | 898 | 0.0553                     |
| NHN 900×350 | 363             | 912 | 349 | 898 | 0.0696                     |
| NHN 900×400 | 392             | 912 | 378 | 898 | 0.0765                     |
| NHN 900×450 | 452             | 912 | 438 | 898 | 0.0909                     |
| NHN 900×500 | 512             | 912 | 498 | 898 | 0.1052                     |
| NHN 900×600 | 602             | 912 | 588 | 898 | 0.1266                     |



| Model        | Dimensions [mm] |      |     |      | Air pass [m <sup>2</sup> ] |
|--------------|-----------------|------|-----|------|----------------------------|
|              | H               | L    | h   | l    |                            |
| NHN 1200×300 | 303             | 1214 | 289 | 1200 | 0.0719                     |
| NHN 1200×350 | 363             | 1214 | 349 | 1200 | 0.0906                     |
| NHN 1200×400 | 392             | 1214 | 378 | 1200 | 0.0996                     |
| NHN 1200×450 | 452             | 1214 | 438 | 1200 | 0.1182                     |
| NHN 1200×500 | 512             | 1214 | 498 | 1200 | 0.1369                     |
| NHN 1200×600 | 602             | 1214 | 588 | 1200 | 0.1648                     |
| NHN 1350×300 | 303             | 1364 | 289 | 1350 | 0.0825                     |
| NHN 1350×350 | 363             | 1364 | 349 | 1350 | 0.1039                     |
| NHN 1350×400 | 392             | 1364 | 378 | 1350 | 0.1143                     |
| NHN 1350×450 | 452             | 1364 | 438 | 1350 | 0.1357                     |
| NHN 1350×500 | 512             | 1364 | 498 | 1350 | 0.1570                     |
| NHN 1350×600 | 602             | 1364 | 588 | 1350 | 0.1891                     |



| Model        | Dimensions [mm] |      |     |      | Air pass [m <sup>2</sup> ] |
|--------------|-----------------|------|-----|------|----------------------------|
|              | H               | L    | h   | l    |                            |
| NHN 1500×300 | 303             | 1514 | 289 | 1500 | 0.0884                     |
| NHN 1500×350 | 363             | 1514 | 349 | 1500 | 0.1113                     |
| NHN 1500×400 | 392             | 1514 | 378 | 1500 | 0.1224                     |
| NHN 1500×450 | 452             | 1514 | 438 | 1500 | 0.1453                     |
| NHN 1500×500 | 512             | 1514 | 498 | 1500 | 0.1683                     |
| NHN 1500×600 | 602             | 1514 | 588 | 1500 | 0.2027                     |



## NVN (NUN) series



Ventilation grille with unregulated horizontal inclined vanes

### Application

- Supply and exhaust ventilation, heating and air conditioning networks in industrial, commercial and domestic premises.

### Design

- Made of high-quality plastic.
- Weather- and temperature-resistant.
- Removable spring-loaded vanes for simple maintenance.
- Simple and quick mounting.

### Colour modifications



UV-resistant



Waterproof



Heat-resistant



Frostproof



Easy mounting



Fire-resistant



Antibacterial



Impact-resistant

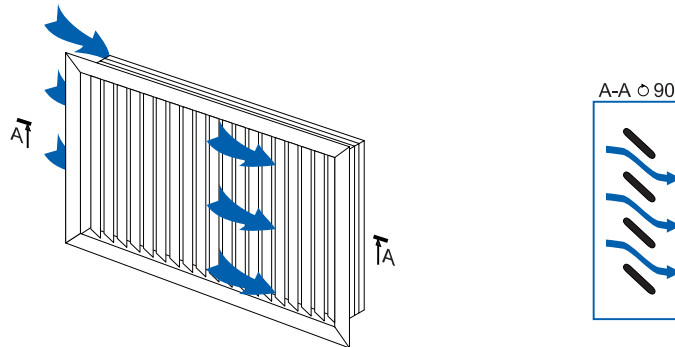


Durable

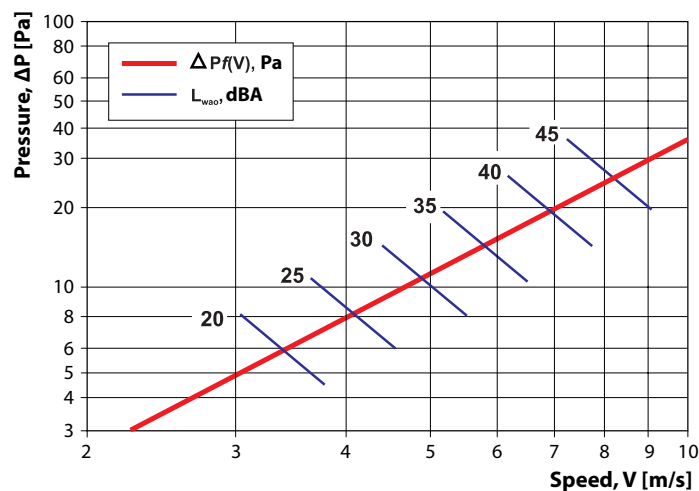


Maintenance-free

### Air flow distribution



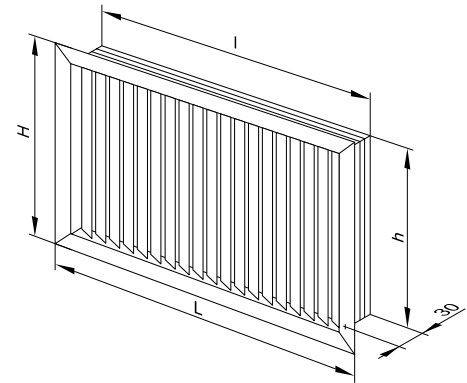
### Pressure loss and sound power diagram



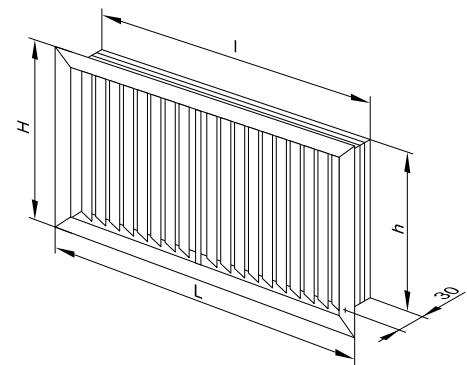


## Overall dimensions

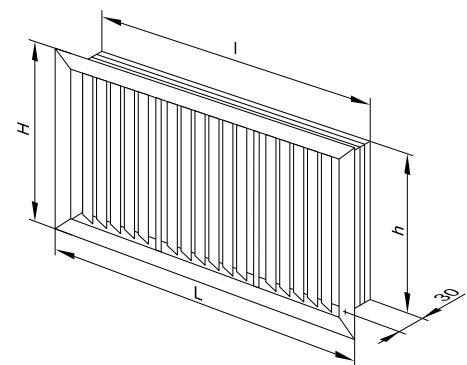
| Model       | Dimensions [mm] |     |     |     | Air pass [m <sup>2</sup> ] |
|-------------|-----------------|-----|-----|-----|----------------------------|
|             | H               | L   | h   | l   |                            |
| NUN 200×200 | 214             | 214 | 200 | 200 | 0.0066                     |
| NVN 300×200 | 214             | 303 | 200 | 289 | 0.0106                     |
| NVN 350×200 | 214             | 363 | 200 | 349 | 0.0134                     |
| NVN 400×200 | 214             | 392 | 200 | 378 | 0.0147                     |
| NVN 450×200 | 214             | 452 | 200 | 438 | 0.0174                     |
| NVN 500×200 | 214             | 512 | 200 | 498 | 0.0202                     |
| NVN 600×200 | 214             | 602 | 200 | 588 | 0.0243                     |
| NUN 300×300 | 303             | 303 | 289 | 289 | 0.0169                     |
| NVN 350×300 | 303             | 363 | 289 | 349 | 0.0213                     |
| NVN 400×300 | 303             | 392 | 289 | 378 | 0.0234                     |
| NVN 450×300 | 303             | 452 | 289 | 438 | 0.0278                     |
| NVN 500×300 | 303             | 512 | 289 | 498 | 0.0322                     |
| NVN 600×300 | 303             | 602 | 289 | 588 | 0.0387                     |
| NUN 350×350 | 363             | 363 | 349 | 349 | 0.0267                     |
| NVN 400×350 | 363             | 392 | 349 | 378 | 0.0293                     |
| NVN 450×350 | 363             | 452 | 349 | 438 | 0.0348                     |
| NVN 500×350 | 363             | 512 | 349 | 498 | 0.0402                     |
| NVN 600×350 | 363             | 602 | 349 | 588 | 0.0484                     |
| NUN 400×400 | 392             | 392 | 378 | 378 | 0.0321                     |
| NVN 450×400 | 392             | 452 | 378 | 438 | 0.0531                     |
| NVN 500×400 | 392             | 512 | 378 | 498 | 0.0441                     |
| NVN 600×400 | 392             | 602 | 378 | 588 | 0.0381                     |
| NUN 450×450 | 452             | 452 | 438 | 438 | 0.0451                     |
| NVN 500×450 | 452             | 512 | 438 | 498 | 0.0629                     |
| NVN 600×450 | 452             | 602 | 438 | 588 | 0.0522                     |
| NUN 500×500 | 512             | 512 | 498 | 498 | 0.0603                     |
| NVN 600×500 | 512             | 602 | 498 | 588 | 0.0726                     |
| NUN 580×580 | 599             | 599 | 585 | 585 | 0.0872                     |
| NUN 600×600 | 602             | 602 | 588 | 588 | 0.0862                     |



| Model        | Dimensions [mm] |      |     |      | Air pass [m <sup>2</sup> ] |
|--------------|-----------------|------|-----|------|----------------------------|
|              | H               | L    | h   | l    |                            |
| NVN 900×200  | 214             | 934  | 200 | 920  | 0.0365                     |
| NVN 900×300  | 303             | 934  | 289 | 920  | 0.0581                     |
| NVN 1200×300 | 303             | 1234 | 289 | 1220 | 0.0800                     |
| NVN 900×350  | 363             | 934  | 349 | 920  | 0.0727                     |
| NVN 1200×350 | 363             | 1234 | 349 | 1220 | 0.1001                     |
| NVN 900×400  | 392             | 934  | 378 | 920  | 0.0798                     |
| NVN 1200×400 | 392             | 1234 | 378 | 1220 | 0.1098                     |
| NVN 900×450  | 452             | 934  | 438 | 920  | 0.0944                     |
| NVN 1200×450 | 452             | 1234 | 438 | 1220 | 0.1299                     |
| NVN 900×500  | 512             | 934  | 498 | 920  | 0.1090                     |
| NVN 1200×500 | 512             | 1234 | 498 | 1220 | 0.1500                     |
| NVN 900×600  | 602             | 934  | 588 | 920  | 0.1309                     |
| NVN 1200×600 | 602             | 1234 | 588 | 1220 | 0.1801                     |



| Model        | Dimensions [mm] |      |     |      | Air pass [m <sup>2</sup> ] |
|--------------|-----------------|------|-----|------|----------------------------|
|              | H               | L    | h   | l    |                            |
| NVN 1350×300 | 303             | 1377 | 289 | 1363 | 0.0857                     |
| NVN 1500×300 | 303             | 1559 | 289 | 1545 | 0.0989                     |
| NVN 1350×350 | 363             | 1377 | 349 | 1363 | 0.1072                     |
| NVN 1500×350 | 363             | 1559 | 349 | 1545 | 0.1238                     |
| NVN 1350×400 | 392             | 1377 | 378 | 1363 | 0.1176                     |
| NVN 1500×400 | 392             | 1559 | 378 | 1545 | 0.1358                     |
| NVN 1350×450 | 452             | 1377 | 438 | 1363 | 0.1391                     |
| NVN 1500×450 | 452             | 1559 | 438 | 1545 | 0.1606                     |
| NVN 1350×500 | 512             | 1377 | 498 | 1363 | 0.1606                     |
| NVN 1500×500 | 512             | 1559 | 498 | 1545 | 0.1854                     |
| NVN 1350×600 | 602             | 1377 | 588 | 1363 | 0.1928                     |
| NVN 1500×600 | 602             | 1559 | 588 | 1545 | 0.2227                     |



## GR series



Ventilation grille with gravity shutters

### Application

- Exhaust ventilation, heating and air conditioning networks in industrial, commercial and domestic premises.

### Design

- Made of high-quality plastic.
- Weather- and temperature-resistant.
- Removable spring-loaded vanes for simple maintenance.
- Simple and quick mounting.

### Colour modifications



UV-resistant



Waterproof



Heat-resistant



Frostproof



Easy mounting



Fire-resistant



Antibacterial



Impact-resistant

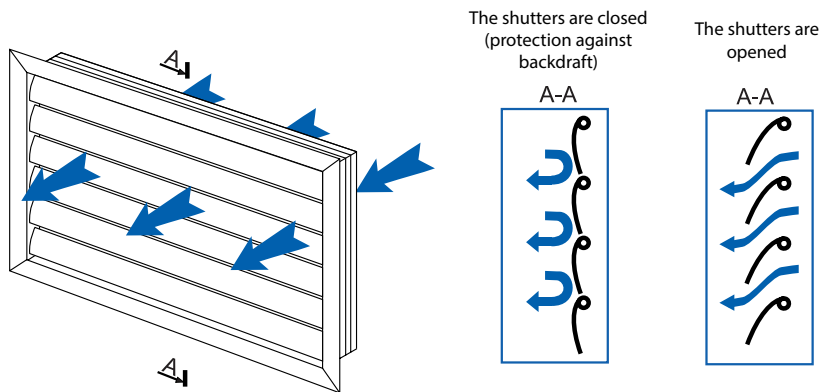


Durable

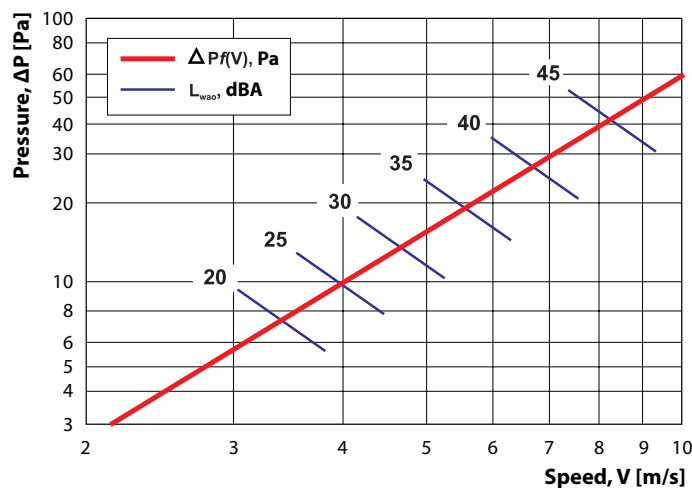


Maintenance-free

### Air flow distribution

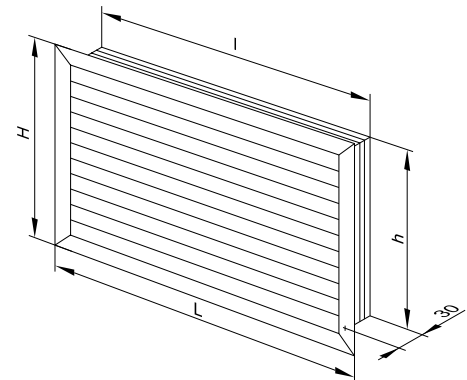


### Pressure loss and sound power diagram

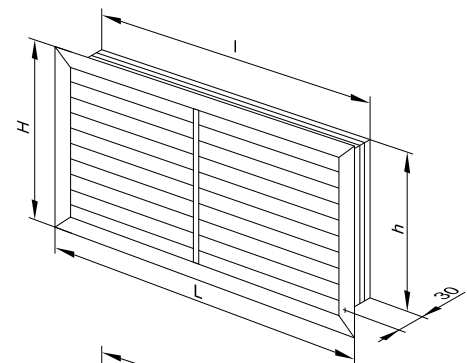


## Overall dimensions

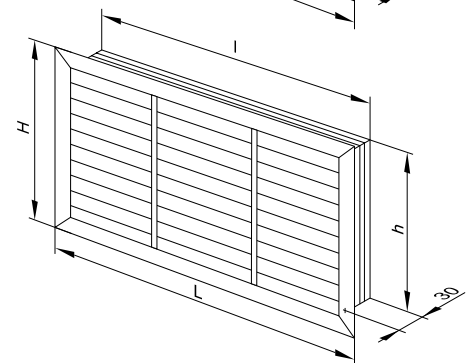
| Model      | Dimensions [mm] |     |     |     | Air pass [m <sup>2</sup> ] |
|------------|-----------------|-----|-----|-----|----------------------------|
|            | H               | L   | h   | l   |                            |
| GR 300x300 | 303             | 303 | 289 | 289 | 0.0543                     |
| GR 350x300 | 303             | 362 | 289 | 348 | 0.0677                     |
| GR 400x300 | 303             | 422 | 289 | 408 | 0.1013                     |
| GR 450x300 | 303             | 464 | 289 | 450 | 0.1132                     |
| GR 500x300 | 303             | 514 | 289 | 500 | 0.1530                     |
| GR 600x300 | 303             | 598 | 289 | 584 | 0.1816                     |
| GR 350x350 | 362             | 362 | 348 | 348 | 0.1512                     |
| GR 400x350 | 362             | 422 | 348 | 408 | 0.0813                     |
| GR 500x350 | 362             | 514 | 348 | 500 | 0.1022                     |
| GR 600x350 | 362             | 598 | 348 | 584 | 0.1212                     |
| GR 400x400 | 422             | 422 | 408 | 408 | 0.0813                     |
| GR 450x400 | 422             | 464 | 408 | 450 | 0.1132                     |
| GR 500x400 | 422             | 514 | 408 | 500 | 0.1274                     |
| GR 600x400 | 422             | 598 | 408 | 584 | 0.1816                     |
| GR 600x600 | 598             | 598 | 584 | 584 | 0.1816                     |



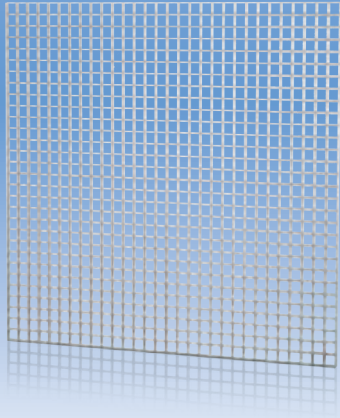
| Model       | Dimensions [mm] |      |     |      | Air pass [m <sup>2</sup> ] |
|-------------|-----------------|------|-----|------|----------------------------|
|             | H               | L    | h   | l    |                            |
| GR 900x300  | 303             | 914  | 289 | 900  | 0.1882                     |
| GR 1200x300 | 303             | 1214 | 289 | 1200 | 0.2563                     |
| GR 900x350  | 362             | 914  | 348 | 900  | 0.2347                     |
| GR 1200x350 | 362             | 1214 | 348 | 1200 | 0.3196                     |
| GR 900x400  | 422             | 914  | 408 | 900  | 0.2819                     |
| GR 1200x400 | 422             | 1214 | 408 | 1200 | 0.3840                     |
| GR 900x600  | 598             | 914  | 584 | 900  | 0.4205                     |
| GR 1200x600 | 598             | 1214 | 584 | 1200 | 0.5727                     |



| Model       | Dimensions [mm] |      |     |      | Air pass [m <sup>2</sup> ] |
|-------------|-----------------|------|-----|------|----------------------------|
|             | H               | L    | h   | l    |                            |
| GR 1350x300 | 303             | 1364 | 289 | 1350 | 0.2856                     |
| GR 1500x300 | 303             | 1514 | 289 | 1500 | 0.3197                     |
| GR 1350x350 | 362             | 1364 | 348 | 1350 | 0.3561                     |
| GR 1500x350 | 362             | 1514 | 348 | 1500 | 0.3986                     |
| GR 1350x400 | 422             | 1364 | 408 | 1350 | 0.4278                     |
| GR 1500x400 | 422             | 1514 | 408 | 1500 | 0.4788                     |
| GR 1350x600 | 598             | 1364 | 584 | 1350 | 0.6381                     |
| GR 1500x600 | 598             | 1514 | 584 | 1500 | 0.7142                     |



## RD series



Decorative ventilation grille

### Application

- Supply and exhaust ventilation, heating and air conditioning networks in industrial, commercial and domestic premises.

### Design

- Made of high-quality plastic.
- Weather- and temperature-resistant.
- Simple and quick mounting.

### Colour modifications



UV-resistant



Waterproof



Heat-resistant



Frostproof



Easy mounting



Antibacterial

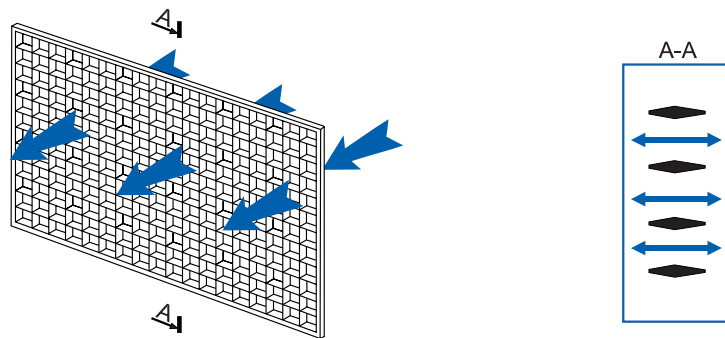


Durable

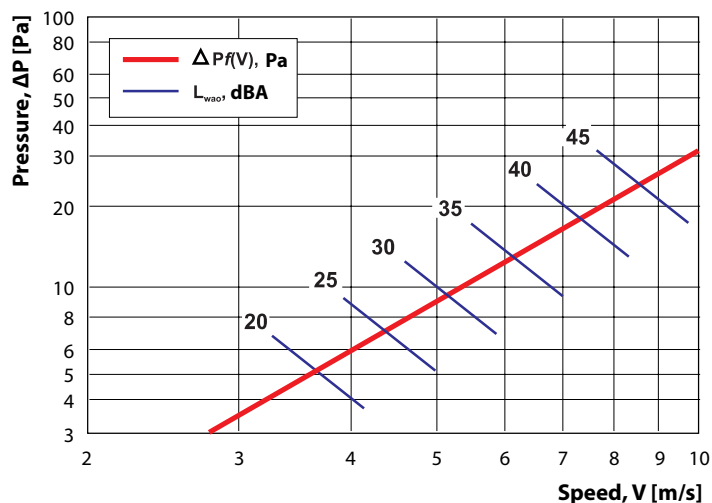


Maintenance-free

### Air flow distribution

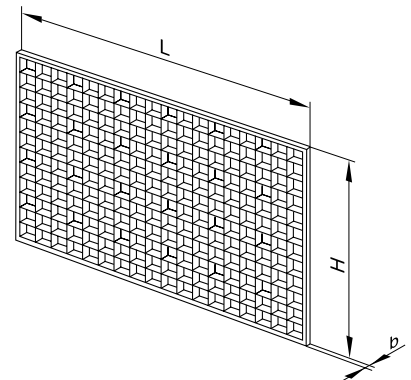


### Pressure loss and sound power diagram



## Overall dimensions

| Model      | Dimensions [mm] |      |    |
|------------|-----------------|------|----|
|            | L               | H    | b  |
| RD 600/1 M | 300             | 300  | 10 |
| RD 600/2 M | 600             | 300  | 10 |
| RD 600 M   | 600             | 600  | 10 |
| RD 600/6 M | 600             | 900  | 10 |
| RD 600/8 M | 600             | 1200 | 10 |
| RD 600/1 L | 300             | 300  | 12 |
| RD 600/2 L | 600             | 300  | 12 |
| RD 600 L   | 600             | 600  | 12 |
| RD 600/6 L | 600             | 900  | 12 |
| RD 600/8 L | 600             | 1200 | 12 |
| RD 600/1   | 300             | 300  | 15 |
| RD 600/2   | 600             | 300  | 15 |
| RD 600     | 600             | 600  | 15 |
| RD 600/6   | 600             | 900  | 15 |
| RD 600/8   | 600             | 1200 | 15 |





## ND series



Decorative ventilation grille

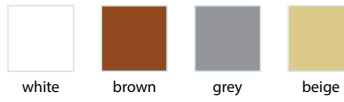
### Application

- Supply and exhaust ventilation, heating and air conditioning networks in industrial, commercial and domestic premises.

### Design

- Made of high-quality plastic.
- Weather- and temperature-resistant.
- Simple and quick mounting.

### Colour modifications



UV-resistant



Waterproof



Heat-resistant



Frostproof



Easy mounting



Fire-resistant



Antibacterial



Impact-resistant

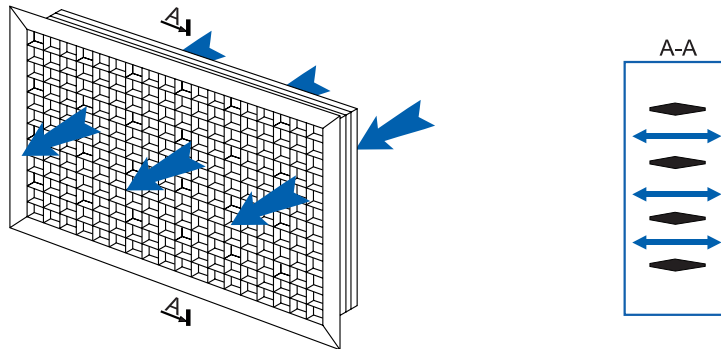


Durable

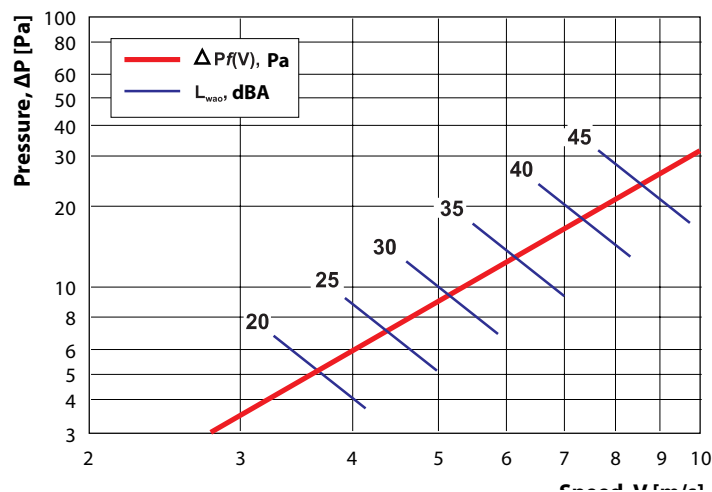


Maintenance-free

### Air flow distribution

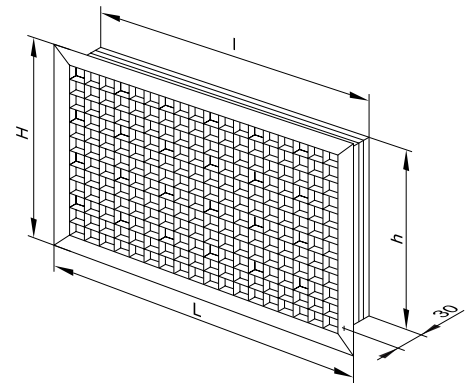


### Pressure loss and sound power diagram

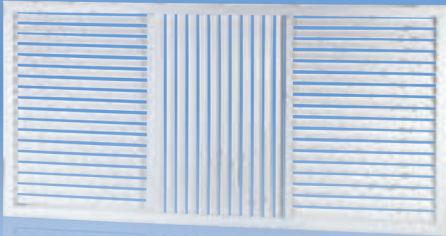


## Overall dimensions

| Model       | Dimensions [mm] |      |     |      | Air pass [m <sup>2</sup> ] |
|-------------|-----------------|------|-----|------|----------------------------|
|             | H               | L    | h   | l    |                            |
| ND 350x350  | 362             | 362  | 348 | 348  | 0.0729                     |
| ND 650x350  | 362             | 660  | 348 | 646  | 0.1458                     |
| ND 950x350  | 362             | 958  | 348 | 944  | 0.2187                     |
| ND 1250x350 | 362             | 1256 | 348 | 1242 | 0.2916                     |
| ND 650x650  | 660             | 660  | 646 | 646  | 0.2916                     |
| ND 950x650  | 660             | 958  | 646 | 944  | 0.4374                     |
| ND 1250x650 | 660             | 1256 | 646 | 1242 | 0.5832                     |



## NK-3 series



Ventilation combined grille with unregulated vanes

### Application

- Supply and exhaust ventilation, heating and air conditioning networks in industrial, commercial and domestic premises.

### Design

- Made of high-quality plastic.
- Weather- and temperature-resistant.
- Removable spring-loaded vanes for simple maintenance.
- Simple and quick mounting.
- Uniform air flow distribution.

### Colour modifications



UV-resistant



Waterproof



Heat-resistant



Frostproof



Easy mounting



Fire-resistant



Antibacterial



Impact-resistant

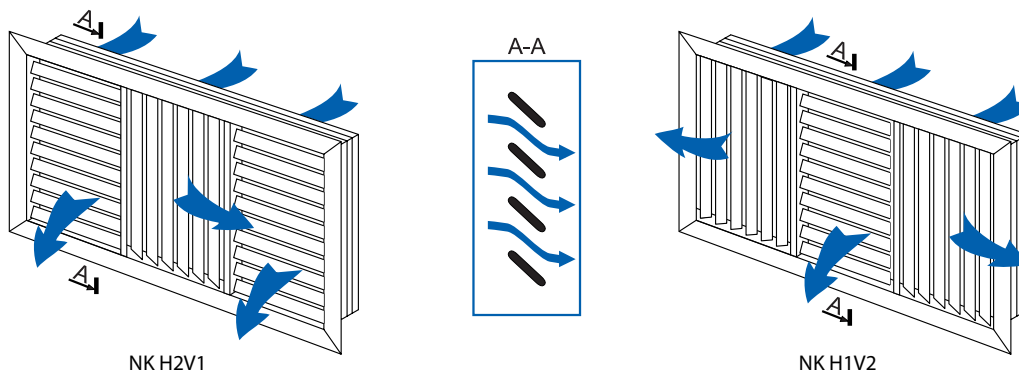


Durable



Maintenance-free

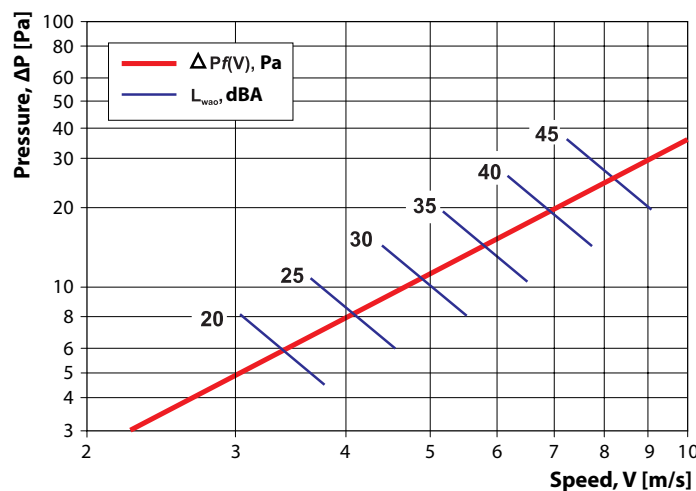
### Air flow distribution



NK H2V1

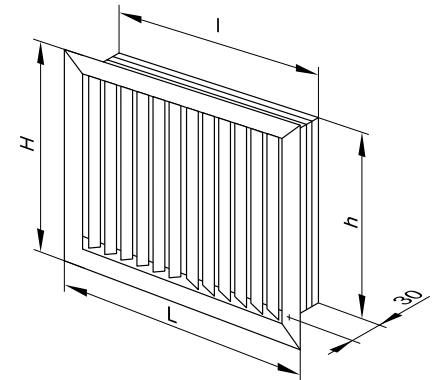
NK H1V2

### Pressure loss and sound power diagram

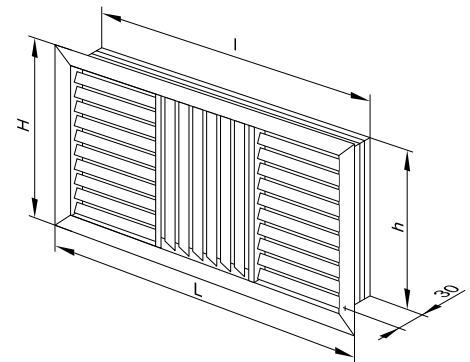


## Overall dimensions

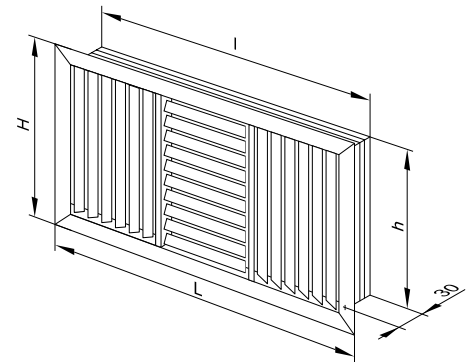
| Model              | Dimensions [mm] |     |     |     | Air pass [m <sup>2</sup> ] |
|--------------------|-----------------|-----|-----|-----|----------------------------|
|                    | H               | L   | h   | l   |                            |
| NV NK H1V1 580x580 | 598             | 598 | 584 | 584 | 0.0755                     |



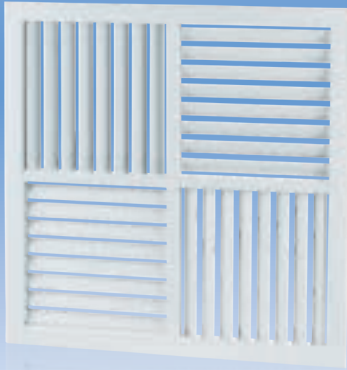
| Model            | Dimensions [mm] |      |     |      | Air pass [m <sup>2</sup> ] |
|------------------|-----------------|------|-----|------|----------------------------|
|                  | H               | L    | h   | l    |                            |
| NK H2V1 1200x600 | 602             | 1214 | 588 | 1200 | 0.1718                     |
| NK H2V1 1350x600 | 602             | 1364 | 588 | 1350 | 0.1966                     |
| NK H2V1 1500x600 | 602             | 1514 | 588 | 1500 | 0.2213                     |



| Model            | Dimensions [mm] |      |     |      | Air pass [m <sup>2</sup> ] |
|------------------|-----------------|------|-----|------|----------------------------|
|                  | H               | L    | h   | l    |                            |
| NK H1V2 900x300  | 303             | 929  | 289 | 915  | 0.0562                     |
| NK H1V2 1200x300 | 303             | 1214 | 289 | 1200 | 0.0969                     |
| NK H1V2 900x400  | 392             | 929  | 378 | 915  | 0.0774                     |
| NK H1V2 1200x400 | 392             | 1214 | 378 | 1200 | 0.1064                     |
| NK H1V2 900x600  | 602             | 929  | 588 | 915  | 0.1273                     |
| NK H1V2 1200x600 | 602             | 1214 | 588 | 1200 | 0.1750                     |
| NK H1V2 1350x600 | 602             | 1364 | 588 | 1350 | 0.2002                     |
| NK H1V2 1500x600 | 602             | 1514 | 588 | 1500 | 0.2253                     |



## NK-4 series



Ventilation combined grille with unregulated vanes

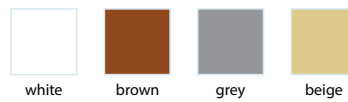
### Application

- Supply and exhaust ventilation, heating and air conditioning networks in industrial, commercial and domestic premises.

### Design

- Made of high-quality plastic.
- Weather- and temperature-resistant.
- Removable spring-loaded vanes for simple maintenance.
- Simple and quick mounting.
- Uniform air flow distribution.

### Colour modifications



UV-resistant



Waterproof



Heat-resistant



Frostproof



Easy mounting



Fire-resistant



Antibacterial



Impact-resistant

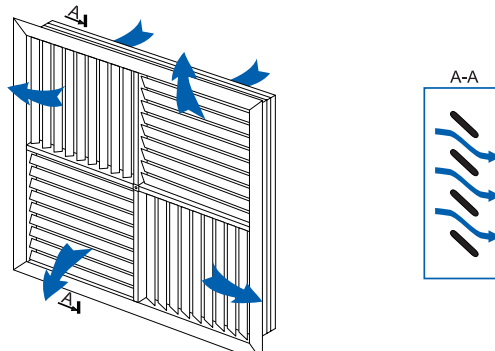


Durable

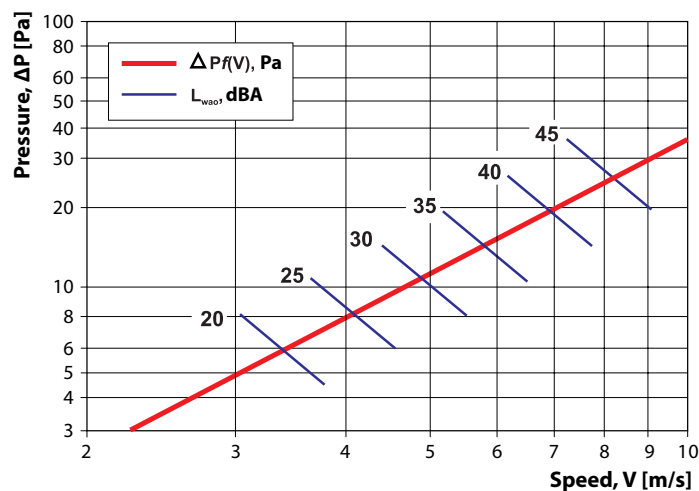


Maintenance-free

### Air flow distribution



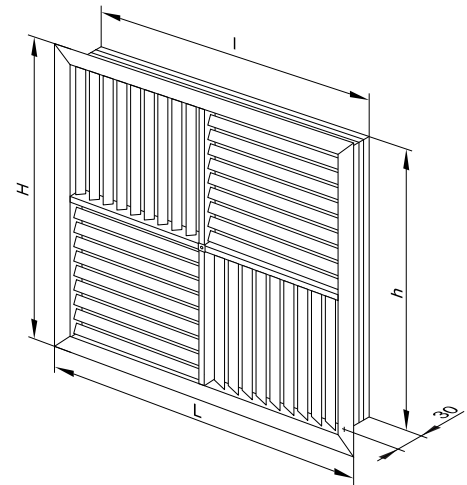
### Pressure loss and sound power diagram





## Overall dimensions

| Model           | Dimensions [mm] |     |     |     | Air pass [m <sup>2</sup> ] |
|-----------------|-----------------|-----|-----|-----|----------------------------|
|                 | H               | L   | h   | l   |                            |
| NK H2V2 550x550 | 570             | 570 | 556 | 556 | 0.0422                     |
| NK H2V2 600x600 | 630             | 630 | 616 | 616 | 0.0577                     |
| NK H2V2 900x600 | 630             | 930 | 616 | 619 | 0.0982                     |



# METAL GRILLES FOR HVAC

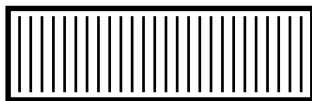
|   |   |             |
|---|---|-------------|
|    | <b>ONG, ONV</b> – single-row unregulated grilles              | page<br>386 |
|    | <b>ONL</b> – single-row unregulated linear grilles            | page<br>388 |
|   | <b>ONF/ONFS</b> – single-row unregulated grilles              | page<br>390 |
|  | <b>ONK</b> – single-row unregulated sectional grilles         | page<br>392 |
|  | <b>ORG, ORV</b> – single-row regulated grilles                | page<br>394 |
|  | <b>ORG R1/ORV R1</b> – single-row regulated sectional grilles | page<br>396 |
|  | <b>ORK</b> – single-row regulated sectional grilles           | page<br>400 |
|  | <b>DR</b> – double-row regulated grilles                      | page<br>402 |
|  | <b>DP</b> – ceiling diffusers                                 | page<br>404 |

|   |   |             |
|---|---|-------------|
|    | <b>DPP</b> – ceiling diffusers                    | page<br>406 |
|    | <b>DS</b> – slit diffusers                        | page<br>408 |
|    | <b>RP</b> – perforated grilles                    | page<br>410 |
|    | <b>RN</b> – supply and exhaust ventilation grille | page<br>412 |
|   | <b>RG</b> – gravity grilles                       | page<br>414 |
|  | <b>RGS</b> – gravity grilles                      | page<br>416 |
|  | <b>GRM</b> – gravity grilles                      | page<br>418 |
|  | <b>DVK</b> – swirl diffusers                      | page<br>420 |
|  | <b>DVP</b> – swirl diffusers                      | page<br>421 |
|  | <b>Additional accessories</b>                     | page<br>422 |
|  | <b>Grille fixation</b>                            | page<br>430 |

## Series ONG / ONV



Single-row ventilation grille with fixed vanes

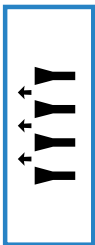


ONV – vertical vane location

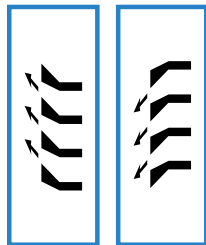


ONG – horizontal vane location

### Air flow distribution options



straight (0°)  
ONG1, ONV1



single-sided (15°)  
ONG2, ONV2



double-sided (2 x 15°)  
ONG3, ONV3

### Standard size [mm] and air pass [m<sup>2</sup>]

| Height H [mm] | Length L [mm] |       |       |       |       |       |       |
|---------------|---------------|-------|-------|-------|-------|-------|-------|
|               | 100           | 150   | 200   | 250   | 300   | 350   | 400   |
| 100           | 0.004         | 0.007 | 0.010 | 0.012 | 0.015 | 0.018 | 0.021 |
| 150           | 0.007         | 0.010 | 0.015 | 0.018 | 0.023 | 0.027 | 0.031 |
| 200           | 0.010         | 0.015 | 0.021 | 0.026 | 0.033 | 0.038 | 0.045 |
| 250           | 0.012         | 0.018 | 0.026 | 0.032 | 0.041 | 0.047 | 0.055 |
| 300           | 0.015         | 0.023 | 0.033 | 0.041 | 0.051 | 0.059 | 0.069 |
| 350           | 0.017         | 0.026 | 0.038 | 0.047 | 0.059 | 0.068 | 0.080 |
| 400           | 0.020         | 0.030 | 0.044 | 0.054 | 0.069 | 0.079 | 0.093 |
| 450           | 0.023         | 0.035 | 0.051 | 0.062 | 0.080 | 0.090 | 0.107 |
| 500           | 0.026         | 0.039 | 0.056 | 0.070 | 0.089 | 0.100 | 0.119 |
| 600           | 0.031         | 0.047 | 0.067 | 0.084 | 0.105 | 0.121 | 0.142 |
| 700           | 0.036         | 0.055 | 0.078 | 0.094 | 0.124 | 0.145 | 0.170 |
| 800           | 0.042         | 0.063 | 0.090 | 0.112 | 0.141 | 0.163 | 0.190 |
| 900           | 0.048         | 0.072 | 0.103 | 0.129 | 0.160 | 0.185 | 0.228 |
| 1000          | 0.053         | 0.079 | 0.113 | 0.141 | 0.177 | 0.204 | 0.239 |

#### Application

- Supply and exhaust ventilation, heating and air conditioning networks in industrial, commercial and domestic premises.

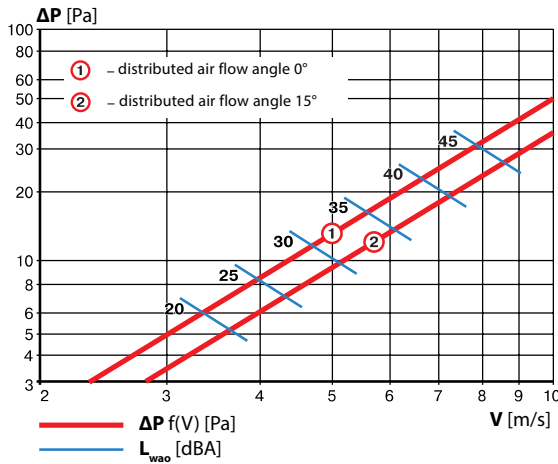
#### Design

- Made of high-quality extruded aluminium.
- Polymer or anodized grille coating ensures weather-resistant properties.
- Non-standard sizes may be ordered.

#### Modifications

- Available modifications with an air flow regulator (R) and an adapter (A) for connection to air ducts.
- Available modifications with versatile fixing (u) or with special springs (p) for fast mounting.

## Pressure loss and sound power level



| Calculation formula         | Correction factor K        |       |      |      |      |      |      |     |
|-----------------------------|----------------------------|-------|------|------|------|------|------|-----|
|                             | $S_{ap}$ [m <sup>2</sup> ] | 0.005 | 0.01 | 0.02 | 0.03 | 0.05 | 0.07 | 0.1 |
| $L_{WA} = L_{WAO} \times K$ | K [dBA]                    | -13   | -9   | -6   | -4.5 | -3   | -1.5 | 0   |

### Designation:

- $\Delta P$  – pressure loss [Pa]
- $L_{WA}$  – sound power level [dBA]
- $L_{WAO}$  – sound power level for air pass  $0.1 \text{ m}^2$  [dBA]
- $K$  – correction factor for sound power level calculation depending on air pass [dBA]
- $S_{ap}$  – air pass [m<sup>2</sup>]
- $V$  – rated speed [m/s]

## Order code



**Grille type:** \_\_\_\_\_  
 ONG (ONV) – single-row unregulated grille with horizontal (vertical) vanes

**Vane position:** \_\_\_\_\_  
 1 – direct (deflection angle  $0^\circ$ )  
 2 – single-sided (deflection angle  $15^\circ$ )  
 3 – double-sided (deflection angle  $15^\circ$ )

**Grille size:** \_\_\_\_\_  
 L – length [mm]  
 H – height [mm]

**Grille coating:** \_\_\_\_\_  
 "\_\_\_" – colour\* (white by default)  
 "Anodized"

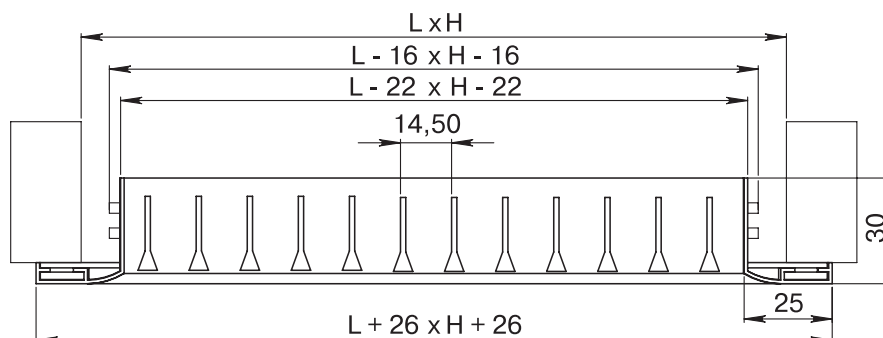
**Accessories:** \_\_\_\_\_  
 \_\_\_ – no  
 R – air flow regulator  
 A – adapter

**Grille fixation:** \_\_\_\_\_  
 u – versatile  
 p – spring

\* Standard polymer coating colours:



## Overall and mounting dimensions



## Series ONL



Single-row linear horizontal ventilation grille with fixed vanes

### Application

- Supply and exhaust ventilation, heating and air conditioning networks in industrial, commercial and domestic premises.

### Design

- Made of high-quality extruded aluminium.
- Polymer or anodized grille coating ensures weather-resistant properties.
- Non-standard sizes may be ordered.

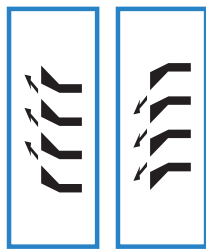
### Modifications

- Available modifications with an air flow regulator (R) and an adapter (A) for connection to air ducts.
- Available modifications with versatile fixing (u) or with special springs (p) for fast mounting.

## Air flow distribution options



straight (0°)  
ONL1



single-sided (15°)  
ONL2



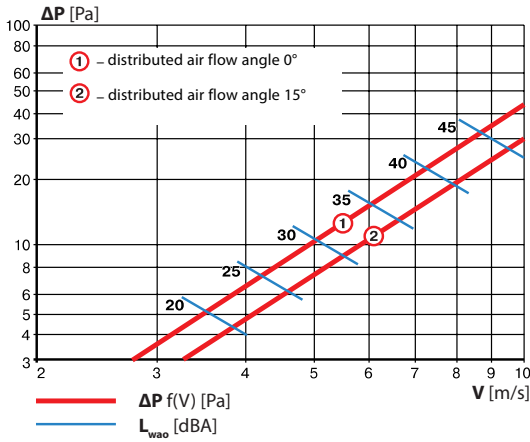
double-sided (2 x 15°)  
ONL3

## Standard size [mm] and air pass [m<sup>2</sup>]

| Height H [mm] | Length L [mm] |       |       |       |       |       |       |       |       |       |       |       |       |
|---------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|               | 400           | 450   | 500   | 550   | 600   | 650   | 700   | 750   | 800   | 850   | 900   | 950   | 1000  |
| 100           | 0.003         | 0.024 | 0.027 | 0.030 | 0.033 | 0.036 | 0.039 | 0.042 | 0.045 | 0.048 | 0.051 | 0.054 | 0.057 |
| 150           | 0.004         | 0.035 | 0.039 | 0.043 | 0.047 | 0.051 | 0.055 | 0.060 | 0.064 | 0.068 | 0.072 | 0.076 | 0.080 |
| 200           | 0.007         | 0.051 | 0.058 | 0.064 | 0.070 | 0.076 | 0.081 | 0.087 | 0.093 | 0.099 | 0.105 | 0.110 | 0.115 |
| 250           | 0.008         | 0.062 | 0.070 | 0.077 | 0.084 | 0.091 | 0.098 | 0.102 | 0.106 | 0.110 | 0.113 | 0.121 | 0.128 |
| 300           | 0.009         | 0.077 | 0.086 | 0.091 | 0.096 | 0.106 | 0.115 | 0.124 | 0.132 | 0.141 | 0.149 | 0.159 | 0.168 |
| 350           | 0.009         | 0.090 | 0.099 | 0.105 | 0.111 | 0.122 | 0.132 | 0.142 | 0.151 | 0.161 | 0.170 | 0.182 | 0.193 |
| 400           | 0.105         | 0.112 | 0.119 | 0.126 | 0.133 | 0.140 | 0.147 | 0.166 | 0.184 | 0.196 | 0.208 | 0.220 | 0.232 |
| 450           | 0.119         | 0.127 | 0.135 | 0.142 | 0.150 | 0.158 | 0.166 | 0.187 | 0.208 | 0.222 | 0.236 | 0.249 | 0.263 |
| 500           | 0.133         | 0.142 | 0.150 | 0.159 | 0.168 | 0.177 | 0.186 | 0.209 | 0.233 | 0.248 | 0.263 | 0.278 | 0.294 |
| 550           | 0.147         | 0.156 | 0.166 | 0.175 | 0.185 | 0.195 | 0.205 | 0.231 | 0.257 | 0.274 | 0.291 | 0.307 | 0.324 |
| 600           | 0.161         | 0.171 | 0.181 | 0.192 | 0.202 | 0.213 | 0.224 | 0.253 | 0.281 | 0.300 | 0.318 | 0.337 | 0.355 |
| 650           | 0.175         | 0.186 | 0.197 | 0.208 | 0.219 | 0.231 | 0.243 | 0.274 | 0.305 | 0.325 | 0.346 | 0.366 | 0.386 |
| 700           | 0.188         | 0.200 | 0.212 | 0.224 | 0.237 | 0.250 | 0.263 | 0.296 | 0.330 | 0.351 | 0.373 | 0.395 | 0.417 |
| 750           | 0.202         | 0.215 | 0.228 | 0.241 | 0.254 | 0.268 | 0.282 | 0.318 | 0.354 | 0.377 | 0.401 | 0.424 | 0.447 |
| 800           | 0.215         | 0.229 | 0.243 | 0.257 | 0.271 | 0.286 | 0.301 | 0.340 | 0.378 | 0.403 | 0.428 | 0.453 | 0.478 |
| 850           | 0.229         | 0.244 | 0.259 | 0.273 | 0.288 | 0.304 | 0.320 | 0.361 | 0.402 | 0.429 | 0.455 | 0.482 | 0.509 |
| 900           | 0.243         | 0.258 | 0.274 | 0.290 | 0.306 | 0.322 | 0.339 | 0.383 | 0.427 | 0.455 | 0.483 | 0.511 | 0.539 |
| 950           | 0.256         | 0.273 | 0.290 | 0.306 | 0.323 | 0.340 | 0.358 | 0.404 | 0.451 | 0.480 | 0.510 | 0.540 | 0.570 |
| 1000          | 0.270         | 0.288 | 0.305 | 0.323 | 0.340 | 0.359 | 0.377 | 0.426 | 0.475 | 0.506 | 0.537 | 0.569 | 0.600 |



## Pressure loss and sound power level



| Calculation formula         |
|-----------------------------|
| $L_{WA} = L_{WAO} \times K$ |

| S <sub>ap</sub> [m <sup>2</sup> ] | Correction factor K |      |      |     |     |     |
|-----------------------------------|---------------------|------|------|-----|-----|-----|
|                                   | 0.01                | 0.02 | 0.05 | 0.1 | 0.2 | 0.4 |
| K [dBA]                           | -9                  | -6   | -3   | 0   | +3  | +6  |

### Designation:

**ΔP** – pressure loss [Pa]

**L<sub>WA</sub>** – sound power level [dBA]

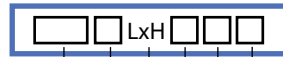
**L<sub>WAO</sub>** – sound power level for air pass 0.1 m<sup>2</sup> [dBA]

**K** – correction factor for sound power level calculation depending on air pass [dBA]

**S<sub>ap</sub>** – air pass [m<sup>2</sup>]

**V** – rated speed [m/s]

## Order code



**Grille type:** \_\_\_\_\_  
 ONL – single-row linear ventilation grille with fixed vanes

**Vane position:** \_\_\_\_\_  
 1 – direct (deflection angle 0°)  
 2 – single-sided (deflection angle 15°)  
 3 – double-sided (deflection angle 15°)

**Grille size:** \_\_\_\_\_  
 L – length [mm]  
 H – height [mm]

**Grille coating:** \_\_\_\_\_  
 "\_\_\_" – colour\* (white by default)  
 "Anodized"

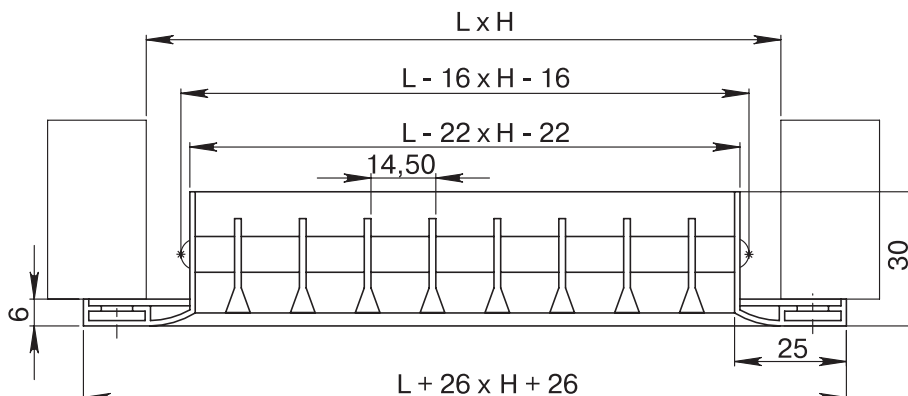
**Accessories:** \_\_\_\_\_  
 \_\_\_ – no  
 R – air flow regulator  
 A – adapter

**Grille fixation:** \_\_\_\_\_  
 u – versatile  
 p – spring

### \* Standard polymer coating colours:



## Overall and mounting dimensions



## Series ONF/ONFS



Single-row horizontal ventilation grille with fixed vanes

### Application

- Supply and exhaust ventilation, heating and air conditioning networks in industrial, commercial and domestic premises.

### Design

- Made of high-quality extruded aluminium.
- Polymer or anodized grille coating ensures weather-resistant properties.
- Non-standard sizes may be ordered.
- Grilles above 450 mm are equipped with a partition for extra rigidity (ONFS series).

### Modifications

- Available modifications with an adapter (A) for connection to air ducts.
- Available modifications with special springs (p) for fast mounting.

## Air flow distribution

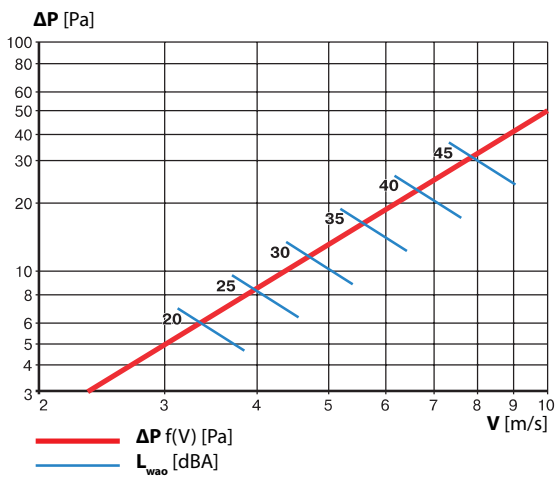


vane deflection angle – 45°

## Standard size [mm] and air pass [m<sup>2</sup>]

| Height H [mm] | Length L [mm] |       |       |       |       |       |       |       |       |       |       |       |       |       |
|---------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|               | 100           | 150   | 200   | 250   | 300   | 350   | 400   | 450   | 500   | 600   | 700   | 800   | 900   | 1000  |
| 100           | 0.004         | 0.007 | 0.010 | 0.012 | 0.015 | 0.018 | 0.021 | 0.024 | 0.027 | 0.033 | 0.039 | 0.045 | 0.051 | 0.057 |
| 150           | 0.007         | 0.010 | 0.015 | 0.018 | 0.023 | 0.027 | 0.031 | 0.035 | 0.039 | 0.047 | 0.055 | 0.064 | 0.072 | 0.080 |
| 200           | 0.010         | 0.015 | 0.021 | 0.026 | 0.033 | 0.038 | 0.045 | 0.051 | 0.058 | 0.070 | 0.081 | 0.093 | 0.105 | 0.115 |
| 250           | 0.012         | 0.018 | 0.026 | 0.032 | 0.041 | 0.047 | 0.055 | 0.062 | 0.070 | 0.084 | 0.098 | 0.106 | 0.113 | 0.128 |
| 300           | 0.015         | 0.023 | 0.033 | 0.041 | 0.051 | 0.059 | 0.069 | 0.077 | 0.086 | 0.096 | 0.115 | 0.132 | 0.149 | 0.168 |
| 350           | 0.017         | 0.026 | 0.038 | 0.047 | 0.059 | 0.068 | 0.080 | 0.090 | 0.099 | 0.111 | 0.132 | 0.151 | 0.170 | 0.193 |
| 400           | 0.020         | 0.030 | 0.044 | 0.054 | 0.069 | 0.079 | 0.093 | 0.103 | 0.117 | 0.142 | 0.166 | 0.189 | 0.212 | 0.237 |
| 450           | 0.023         | 0.035 | 0.051 | 0.062 | 0.080 | 0.090 | 0.107 | 0.117 | 0.131 | 0.160 | 0.186 | 0.214 | 0.239 | 0.265 |
| 500           | 0.026         | 0.039 | 0.056 | 0.070 | 0.089 | 0.100 | 0.119 | 0.130 | 0.145 | 0.178 | 0.206 | 0.238 | 0.265 | 0.293 |
| 600           | 0.031         | 0.047 | 0.067 | 0.084 | 0.105 | 0.121 | 0.142 | 0.158 | 0.173 | 0.214 | 0.246 | 0.287 | 0.318 | 0.349 |
| 700           | 0.036         | 0.055 | 0.078 | 0.094 | 0.124 | 0.145 | 0.170 | 0.184 | 0.203 | 0.251 | 0.288 | 0.336 | 0.372 | 0.408 |
| 800           | 0.042         | 0.063 | 0.090 | 0.112 | 0.141 | 0.163 | 0.190 | 0.211 | 0.232 | 0.288 | 0.330 | 0.385 | 0.426 | 0.467 |
| 900           | 0.048         | 0.072 | 0.103 | 0.129 | 0.160 | 0.185 | 0.228 | 0.238 | 0.262 | 0.325 | 0.372 | 0.435 | 0.481 | 0.527 |
| 1000          | 0.053         | 0.079 | 0.113 | 0.141 | 0.177 | 0.204 | 0.239 | 0.266 | 0.292 | 0.361 | 0.414 | 0.484 | 0.536 | 0.587 |

## Pressure loss and sound power level



| Calculation formula         | Correction factor K        |       |      |      |      |      |      |   |
|-----------------------------|----------------------------|-------|------|------|------|------|------|---|
|                             | $S_{ap}$ [m <sup>2</sup> ] | 0.005 | 0.01 | 0.02 | 0.03 | 0.05 | 0.07 | 1 |
| $L_{WA} = L_{WAO} \times K$ | K [dBA]                    | -13   | -9   | -6   | -4.5 | -3   | -1.5 | 0 |

### Designation:

- $\Delta P$  – pressure loss [Pa]
- $L_{WA}$  – sound power level [dBA]
- $L_{WAO}$  – sound power level for air pass 0.1 m<sup>2</sup> [dBA]
- K** – correction factor for sound power level calculation depending on air pass [dBA]
- $S_{ap}$  – air pass [m<sup>2</sup>]
- V** – rated speed [m/s]

## Order code



**Grille type:** \_\_\_\_\_  
 ONF / ONFS – single-row unregulated grille with horizontal (vertical) vanes fixed at 45°

**Grille size:** \_\_\_\_\_  
 L – length [mm]  
 H – height [mm]

**Grille coating:**  
 "\_\_\_" – colour\* (white by default)  
 "Anodized"

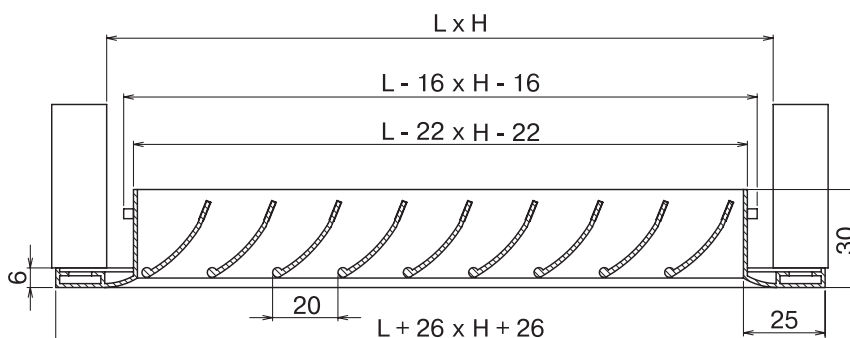
**Accessories:**  
 \_\_\_ – no  
 A – adapter

**Grille fixation:**  
 p – spring

\* Standard polymer coating colours:



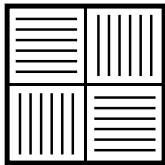
## Overall and mounting dimensions



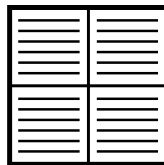
## Series ONK



Single-row sectional ventilation grille with fixed vanes



ONK2 – pair-wise and perpendicular vane position



ONK1, ONK3 – horizontal vane position

### Application

- Supply and exhaust ventilation, heating and air conditioning networks in industrial, commercial and domestic premises.

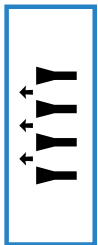
### Design

- Made of high-quality extruded aluminium.
- Equipped with a central cross-type partition for extra rigidity.
- Polymer or anodized grille coating ensures weather-resistant properties.
- Non-standard sizes may be ordered.

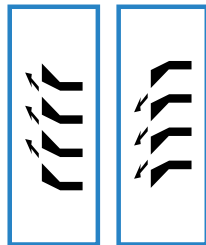
### Modifications

- Available modifications with an air flow regulator (R) and an adapter (A) for connection to air ducts.
- Available modifications with versatile fixing (u) for fast mounting.

## Air flow distribution options



straight (0°)  
ONK1, ONK2

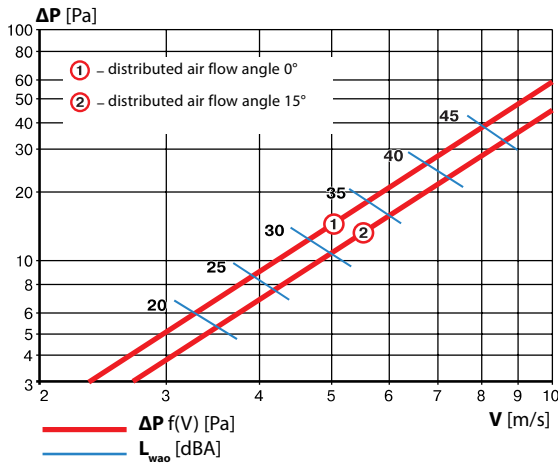


single-sided (15°)  
ONK3

## Standard size [mm] and air pass [m<sup>2</sup>]

| Height H [mm] | Length L [mm] |       |       |       |       |       |       |       |       |       |       |       |
|---------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|               | 450           | 500   | 550   | 600   | 650   | 700   | 750   | 800   | 850   | 900   | 950   | 1000  |
| 450           | 0.117         | 0.131 | 0.146 | 0.160 | 0.173 | 0.186 | 0.200 | 0.214 | 0.226 | 0.239 | 0.252 | 0.265 |
| 500           | 0.130         | 0.145 | 0.162 | 0.178 | 0.192 | 0.206 | 0.222 | 0.238 | 0.252 | 0.265 | 0.279 | 0.293 |
| 550           | 0.144         | 0.159 | 0.178 | 0.196 | 0.211 | 0.226 | 0.244 | 0.263 | 0.277 | 0.292 | 0.306 | 0.321 |
| 600           | 0.158         | 0.173 | 0.194 | 0.214 | 0.230 | 0.246 | 0.267 | 0.287 | 0.303 | 0.318 | 0.334 | 0.349 |
| 650           | 0.171         | 0.188 | 0.210 | 0.233 | 0.250 | 0.267 | 0.289 | 0.312 | 0.328 | 0.345 | 0.362 | 0.379 |
| 700           | 0.184         | 0.203 | 0.227 | 0.251 | 0.270 | 0.288 | 0.312 | 0.336 | 0.354 | 0.372 | 0.390 | 0.408 |
| 750           | 0.198         | 0.217 | 0.243 | 0.270 | 0.289 | 0.309 | 0.335 | 0.361 | 0.380 | 0.399 | 0.418 | 0.438 |
| 800           | 0.211         | 0.232 | 0.260 | 0.288 | 0.309 | 0.330 | 0.358 | 0.385 | 0.406 | 0.426 | 0.447 | 0.467 |
| 850           | 0.225         | 0.247 | 0.277 | 0.306 | 0.329 | 0.351 | 0.380 | 0.410 | 0.432 | 0.453 | 0.475 | 0.497 |
| 900           | 0.238         | 0.262 | 0.293 | 0.325 | 0.348 | 0.372 | 0.403 | 0.435 | 0.458 | 0.481 | 0.504 | 0.527 |
| 950           | 0.252         | 0.277 | 0.310 | 0.343 | 0.368 | 0.393 | 0.426 | 0.459 | 0.484 | 0.508 | 0.533 | 0.557 |
| 1000          | 0.266         | 0.292 | 0.327 | 0.361 | 0.388 | 0.414 | 0.449 | 0.484 | 0.510 | 0.536 | 0.561 | 0.587 |

## Pressure loss and sound power level



### Calculation formula

$$L_{WA} = L_{WAO} \times K$$

### Correction factor K

|                            | 0.01 | 0.15 | 0.2 | 0.3  | 0.4 |
|----------------------------|------|------|-----|------|-----|
| $S_{ap}$ [m <sup>2</sup> ] | 0.01 | 0.15 | 0.2 | 0.3  | 0.4 |
| K [dBA]                    | 0    | +1.5 | +3  | +4.5 | +6  |

### Designation:

$\Delta P$  – pressure loss [Pa]

$L_{WA}$  – sound power level [dBA]

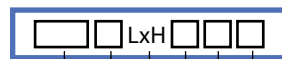
$L_{WAO}$  – sound power level for air pass 0.1 m<sup>2</sup> [dBA]

K – correction factor for sound power level calculation depending on air pass [dBA]

$S_{ap}$  – air pass [m<sup>2</sup>]

V – rated speed [m/s]

## Order code



### Grille coating:

"\_" – colour\* (white by default)  
"Anodized"

### Grille type:

ONK – single-row sectional grille with fixed vanes

### Vane position:

- 1 – direct (deflection angle 0°)
- 2 – single-sided (deflection angle 15°)
- 3 – double-sided (deflection angle 15°)

### Grille size:

L – length [mm]  
H – height [mm]

### Accessories:

- \_\_ – no
- R – air flow regulator
- A – adapter

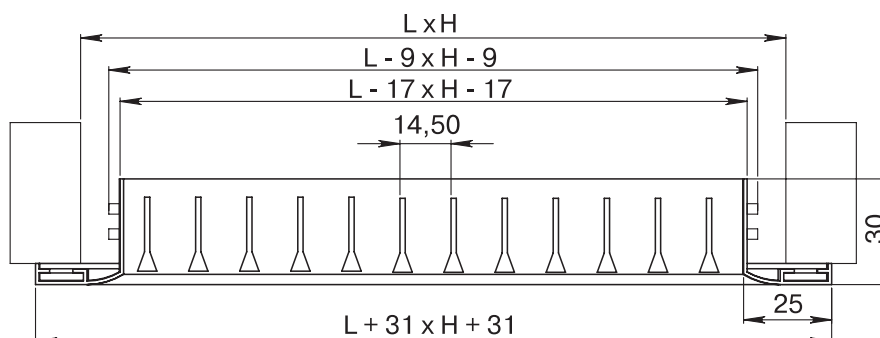
### Grille fixation:

u – versatile

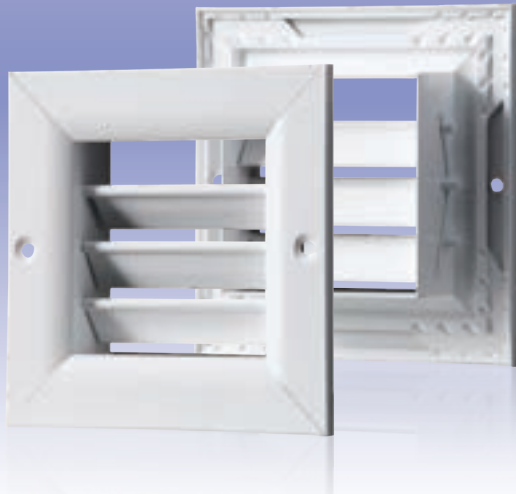
### \* Standard polymer coating colours:



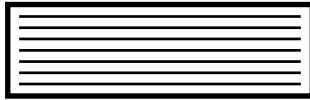
## Overall and mounting dimensions



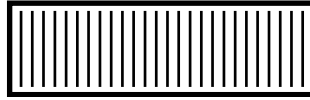
## Series ORG / ORV



Single-row ventilation grille  
with adjustable louvers



ORG – horizontal position  
of louvers



ORV – vertical position  
of louvers

### Application

- Supply and exhaust ventilation, heating and air conditioning networks in industrial, commercial and domestic premises.

### Design

- Made of high-quality extruded aluminium.
- Polymer or anodized grille coating ensures weather-resistant properties.
- Non-standard sizes may be ordered.

### Modifications

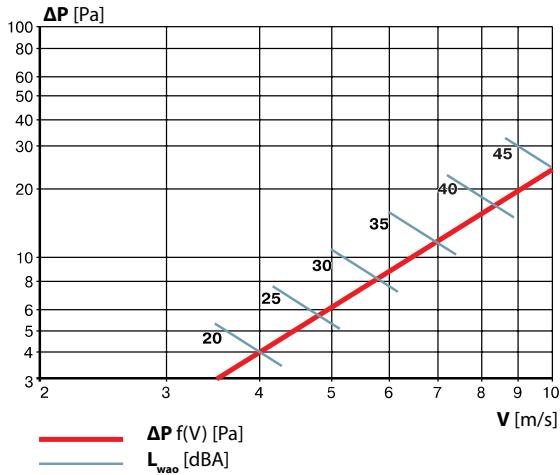
- Available modifications with an air flow regulator (R) and an adapter (A) for connection to air ducts.
- Available modifications with versatile fixing (u) or with special springs (p) for fast mounting.

## Standard size [mm] and air pass [m<sup>2</sup>]

| Height H [mm] | Length L [mm] |       |       |       |       |       |       |
|---------------|---------------|-------|-------|-------|-------|-------|-------|
|               | 100           | 150   | 200   | 250   | 300   | 350   | 400   |
| 100           | 0.002         | 0.008 | 0.014 | 0.018 | 0.023 | 0.027 | 0.033 |
| 150           | 0.005         | 0.011 | 0.017 | 0.021 | 0.026 | 0.030 | 0.036 |
| 200           | 0.008         | 0.018 | 0.025 | 0.031 | 0.040 | 0.045 | 0.054 |
| 250           | 0.010         | 0.021 | 0.032 | 0.038 | 0.048 | 0.055 | 0.066 |
| 300           | 0.013         | 0.027 | 0.041 | 0.051 | 0.062 | 0.071 | 0.084 |
| 350           | 0.016         | 0.031 | 0.046 | 0.057 | 0.073 | 0.081 | 0.096 |
| 400           | 0.019         | 0.037 | 0.055 | 0.068 | 0.087 | 0.100 | 0.114 |
| 450           | 0.022         | 0.042 | 0.062 | 0.077 | 0.098 | 0.112 | 0.132 |
| 500           | 0.024         | 0.047 | 0.069 | 0.085 | 0.109 | 0.125 | 0.144 |
| 600           | 0.029         | 0.056 | 0.083 | 0.102 | 0.131 | 0.149 | 0.175 |
| 700           | 0.034         | 0.066 | 0.098 | 0.120 | 0.154 | 0.175 | 0.205 |
| 800           | 0.038         | 0.075 | 0.112 | 0.138 | 0.177 | 0.201 | 0.235 |
| 900           | 0.043         | 0.085 | 0.127 | 0.156 | 0.20  | 0.227 | 0.266 |
| 1000          | 0.047         | 0.094 | 0.141 | 0.173 | 0.22  | 0.253 | 0.296 |



## Pressure loss and sound power level



### Calculation formula

$$\Delta P_p = \Delta P \times K_p$$

### Calculation formula

$$L_{WA} = L_{WAO} \times K$$

### Correction factor $K_p$

|       | 0° | 22°  | 45° |
|-------|----|------|-----|
| $K_p$ | 1  | 1.25 | 1.5 |

### Correction factor K

| $S_{ap}$ [m <sup>2</sup> ] | 0.01 | 0.02 | 0.05 | 0.1 | 0.2 | 0.4 |
|----------------------------|------|------|------|-----|-----|-----|
| K [dBA]                    | -9   | -6   | -3   | 0   | +3  | +6  |

### Designation:

$\Delta P_p$  – pressure loss at various vane positions [Pa]

$\Delta P$  – pressure loss [Pa]

$K_p$  – correction factor for pressure loss calculation depending on louvre deflection angle

$L_{WA}$  – sound power level [dBA]

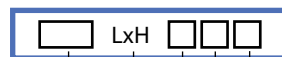
$L_{WAO}$  – sound power level for air pass 0.1 m<sup>2</sup> [dBA]

K – correction factor for sound power level calculation depending on air pass [dBA]

$S_{ap}$  – air pass [m<sup>2</sup>]

V – rated speed [m/s]

## Order code



### Grille type:

ORG – single-row grille with individually adjustable horizontal louvres

ORV – single-row grille with individually adjustable vertical louvres

### Grille size:

L – length [mm]

H – height [mm]

### Grille coating:

"\_\_" – colour\* (white by default)  
"Anodized"

### Accessories:

\_\_ – no  
R – air flow regulator  
A – adapter

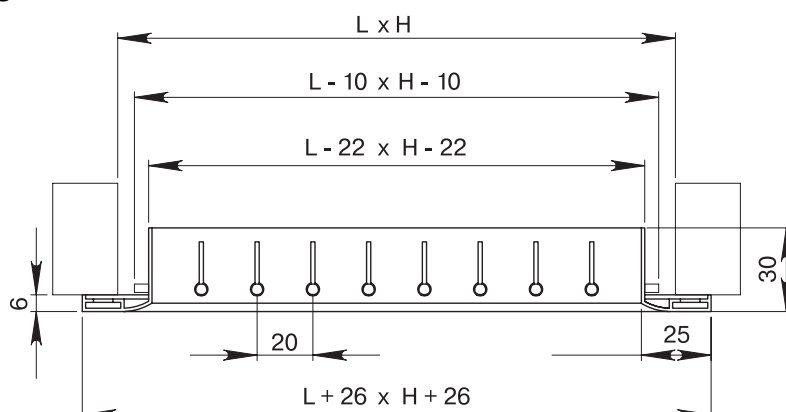
### Grille fixation:

u – versatile  
p – spring

### \* Standard polymer coating colours:



## Overall and mounting dimensions



## Series ORG R1/ORV R1



Single-row ventilation grille with first row adjustable louvers and a built-in air flow regulator

### Application

- For supply and exhaust ventilation, heating and air conditioning systems in industrial, commercial and domestic premises.

### Features

- Reduced thickness compared to single-row grilles with optional air flow control.
- Possibility to adjust the air flow from the indoor side using a special foot.

### Design

- Made of high quality extruded aluminium profile.
- The polymer or anodized coating of the grille provides resistance to adverse weather conditions.
- Grilles with special dimensions can be manufactured upon request.
- Grilles with movable front louvers for adjustment of the supply jet geometry and an integrated air volume regulator (second row of louvers) for changing the air quantity.

### Modifications

- Can be equipped with an adapter (A) (see the end of the section).
- Can be equipped with special springs (p) for quick installation (see the end of the section).

### ORG R1. Standard series and cross-sectional area [m<sup>2</sup>]

| Height H [mm] | Length L [mm] |       |       |       |       |       |       |       |       |       |       |       |       |       |
|---------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|               | 100           | 150   | 200   | 250   | 300   | 350   | 400   | 450   | 500   | 600   | 700   | 800   | 900   | 1000  |
| 100           | 0.005         | 0.007 | 0.012 | 0.014 | 0.018 | 0.021 | 0.025 | 0.027 | 0.029 | 0.036 | 0.043 | 0.050 | 0.057 | 0.064 |
| 150           | 0.008         | 0.011 | 0.019 | 0.022 | 0.029 | 0.033 | 0.040 | 0.043 | 0.047 | 0.057 | 0.068 | 0.079 | 0.090 | 0.101 |
| 200           | 0.011         | 0.016 | 0.026 | 0.031 | 0.041 | 0.046 | 0.056 | 0.061 | 0.066 | 0.080 | 0.096 | 0.111 | 0.126 | 0.142 |
| 250           | 0.014         | 0.020 | 0.033 | 0.039 | 0.052 | 0.059 | 0.071 | 0.078 | 0.084 | 0.101 | 0.121 | 0.140 | 0.159 | 0.179 |
| 300           | 0.017         | 0.025 | 0.041 | 0.049 | 0.064 | 0.072 | 0.088 | 0.096 | 0.103 | 0.124 | 0.148 | 0.172 | 0.196 | 0.219 |
| 350           | 0.021         | 0.030 | 0.049 | 0.058 | 0.076 | 0.086 | 0.104 | 0.113 | 0.123 | 0.145 | 0.173 | 0.201 | 0.229 | 0.256 |
| 400           | 0.024         | 0.035 | 0.056 | 0.067 | 0.088 | 0.099 | 0.121 | 0.131 | 0.142 | 0.169 | 0.201 | 0.233 | 0.265 | 0.297 |
| 450           | 0.027         | 0.039 | 0.063 | 0.075 | 0.099 | 0.112 | 0.136 | 0.148 | 0.160 | 0.189 | 0.226 | 0.262 | 0.298 | 0.334 |
| 500           | 0.031         | 0.044 | 0.071 | 0.085 | 0.112 | 0.125 | 0.152 | 0.166 | 0.179 | 0.213 | 0.253 | 0.294 | 0.334 | 0.375 |
| 600           | 0.036         | 0.052 | 0.085 | 0.101 | 0.133 | 0.149 | 0.181 | 0.197 | 0.213 | 0.193 | 0.231 | 0.268 | 0.305 | 0.342 |
| 700           | 0.042         | 0.061 | 0.099 | 0.117 | 0.155 | 0.173 | 0.211 | 0.230 | 0.248 | 0.221 | 0.264 | 0.307 | 0.350 | 0.392 |
| 800           | 0.049         | 0.071 | 0.114 | 0.136 | 0.179 | 0.201 | 0.244 | 0.266 | 0.287 | 0.259 | 0.309 | 0.358 | 0.408 | 0.458 |
| 900           | 0.055         | 0.079 | 0.128 | 0.152 | 0.201 | 0.225 | 0.274 | 0.298 | 0.323 | 0.287 | 0.342 | 0.397 | 0.453 | 0.508 |
| 1000          | 0.062         | 0.089 | 0.143 | 0.171 | 0.225 | 0.253 | 0.307 | 0.334 | 0.362 | 0.324 | 0.386 | 0.449 | 0.511 | 0.574 |

### ■ ORV R1. Standard series and cross-sectional area [m<sup>2</sup>]

| Height H [mm] | Length L [mm] |       |       |       |       |       |       |       |       |       |       |       |       |       |
|---------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|               | 100           | 150   | 200   | 250   | 300   | 350   | 400   | 450   | 500   | 600   | 700   | 800   | 900   | 1000  |
| 100           | 0.005         | 0.008 | 0.011 | 0.014 | 0.017 | 0.020 | 0.023 | 0.026 | 0.030 | 0.036 | 0.042 | 0.049 | 0.055 | 0.062 |
| 150           | 0.007         | 0.011 | 0.016 | 0.020 | 0.025 | 0.029 | 0.034 | 0.038 | 0.043 | 0.052 | 0.061 | 0.071 | 0.079 | 0.089 |
| 200           | 0.001         | 0.019 | 0.026 | 0.033 | 0.041 | 0.048 | 0.055 | 0.062 | 0.070 | 0.085 | 0.099 | 0.114 | 0.128 | 0.143 |
| 250           | 0.014         | 0.022 | 0.031 | 0.039 | 0.049 | 0.057 | 0.066 | 0.074 | 0.083 | 0.101 | 0.117 | 0.136 | 0.152 | 0.171 |
| 300           | 0.018         | 0.029 | 0.041 | 0.052 | 0.064 | 0.075 | 0.087 | 0.098 | 0.110 | 0.133 | 0.155 | 0.179 | 0.201 | 0.225 |
| 350           | 0.021         | 0.033 | 0.046 | 0.059 | 0.072 | 0.084 | 0.098 | 0.110 | 0.124 | 0.149 | 0.173 | 0.201 | 0.225 | 0.253 |
| 400           | 0.025         | 0.040 | 0.056 | 0.071 | 0.088 | 0.103 | 0.119 | 0.134 | 0.150 | 0.181 | 0.211 | 0.244 | 0.274 | 0.307 |
| 450           | 0.027         | 0.043 | 0.061 | 0.078 | 0.096 | 0.112 | 0.130 | 0.146 | 0.164 | 0.197 | 0.230 | 0.266 | 0.298 | 0.334 |
| 500           | 0.029         | 0.047 | 0.066 | 0.084 | 0.103 | 0.121 | 0.140 | 0.158 | 0.177 | 0.213 | 0.248 | 0.287 | 0.323 | 0.362 |
| 600           | 0.036         | 0.057 | 0.080 | 0.101 | 0.124 | 0.145 | 0.169 | 0.189 | 0.213 | 0.193 | 0.221 | 0.259 | 0.287 | 0.324 |
| 700           | 0.043         | 0.068 | 0.096 | 0.121 | 0.148 | 0.173 | 0.201 | 0.226 | 0.253 | 0.231 | 0.264 | 0.309 | 0.342 | 0.386 |
| 800           | 0.050         | 0.079 | 0.111 | 0.140 | 0.172 | 0.201 | 0.233 | 0.262 | 0.294 | 0.268 | 0.307 | 0.358 | 0.397 | 0.449 |
| 900           | 0.057         | 0.090 | 0.126 | 0.159 | 0.196 | 0.229 | 0.265 | 0.298 | 0.334 | 0.305 | 0.350 | 0.408 | 0.453 | 0.511 |
| 1000          | 0.064         | 0.101 | 0.142 | 0.179 | 0.219 | 0.256 | 0.297 | 0.334 | 0.375 | 0.342 | 0.392 | 0.458 | 0.508 | 0.574 |

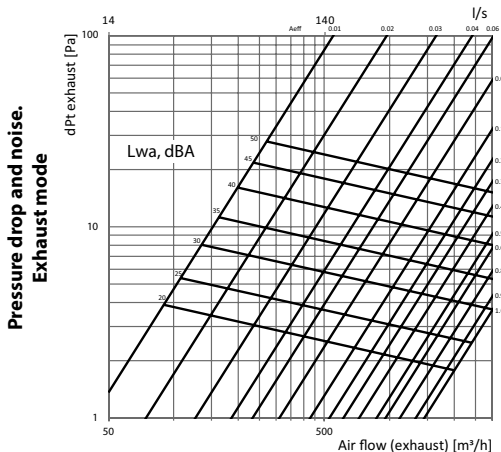
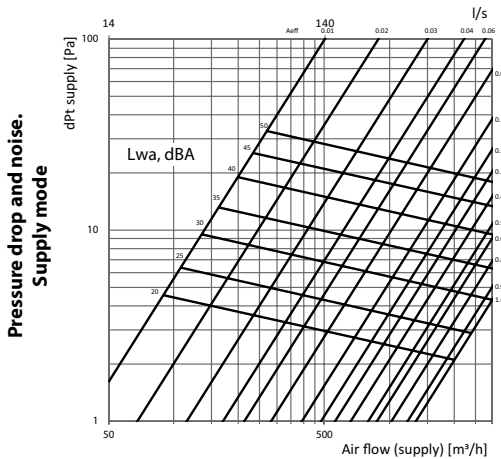
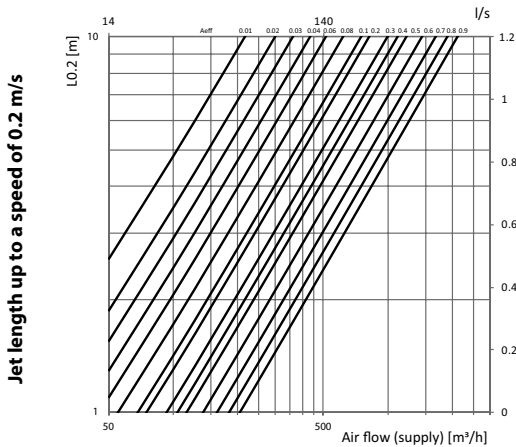
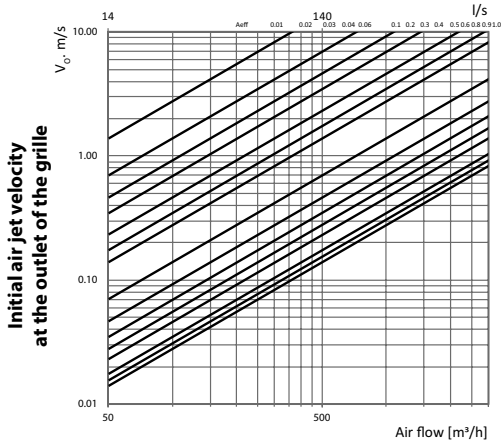
### ■ ORG R1. Weight [kg]

| Height H [mm] | Length L [mm] |      |      |      |      |      |      |      |      |      |      |      |       |       |
|---------------|---------------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|
|               | 100           | 150  | 200  | 250  | 300  | 350  | 400  | 450  | 500  | 600  | 700  | 800  | 900   | 1000  |
| 100           | 0.19          | 0.23 | 0.32 | 0.37 | 0.46 | 0.50 | 0.60 | 0.64 | 0.69 | 0.85 | 0.99 | 1.13 | 1.27  | 1.41  |
| 150           | 0.25          | 0.31 | 0.44 | 0.51 | 0.64 | 0.70 | 0.83 | 0.90 | 0.96 | 1.2  | 1.39 | 1.59 | 1.78  | 1.98  |
| 200           | 0.31          | 0.39 | 0.55 | 0.63 | 0.79 | 0.87 | 1.03 | 1.11 | 1.19 | 1.49 | 1.73 | 1.97 | 2.21  | 2.45  |
| 250           | 0.38          | 0.47 | 0.67 | 0.77 | 0.98 | 1.07 | 1.26 | 1.36 | 1.46 | 1.84 | 2.13 | 2.43 | 2.73  | 3.02  |
| 300           | 0.44          | 0.55 | 0.77 | 0.89 | 1.12 | 1.23 | 1.46 | 1.57 | 1.69 | 2.13 | 2.47 | 2.82 | 3.16  | 3.5   |
| 350           | 0.50          | 0.63 | 0.90 | 1.03 | 1.30 | 1.43 | 1.70 | 1.83 | 1.96 | 2.47 | 2.87 | 3.27 | 3.67  | 4.07  |
| 400           | 0.56          | 0.70 | 1.00 | 1.15 | 1.45 | 1.60 | 1.89 | 2.04 | 2.19 | 2.77 | 3.21 | 3.65 | 4.09  | 4.53  |
| 450           | 0.63          | 0.79 | 1.12 | 1.29 | 1.63 | 1.79 | 2.13 | 2.29 | 2.46 | 3.11 | 3.61 | 4.11 | 4.60  | 5.1   |
| 500           | 0.68          | 0.88 | 1.23 | 1.41 | 1.78 | 1.96 | 2.32 | 2.51 | 2.69 | 3.4  | 3.94 | 4.49 | 5.03  | 5.58  |
| 600           | 0.84          | 1.06 | 1.52 | 1.75 | 2.20 | 2.43 | 2.89 | 3.12 | 3.35 | 4.16 | 4.94 | 5.63 | 6.31  | 7     |
| 700           | 0.97          | 1.23 | 1.77 | 2.03 | 2.56 | 2.83 | 3.36 | 3.63 | 3.89 | 4.94 | 5.74 | 6.54 | 7.34  | 8.14  |
| 800           | 1.09          | 1.38 | 1.97 | 2.27 | 2.86 | 3.16 | 3.76 | 4.05 | 4.35 | 5.53 | 6.42 | 7.31 | 8.20  | 9.1   |
| 900           | 1.22          | 1.55 | 2.22 | 2.55 | 3.22 | 3.55 | 4.22 | 4.56 | 4.89 | 6.22 | 7.22 | 8.23 | 9.23  | 10.24 |
| 1000          | 1.34          | 1.69 | 2.43 | 2.79 | 3.52 | 3.89 | 4.62 | 4.98 | 5.35 | 6.8  | 7.90 | 9.00 | 10.09 | 11.19 |

### ■ OPB P1. Weight [kg]

| Height H [mm] | Length L [mm] |      |      |      |      |      |      |      |      |      |      |      |       |       |
|---------------|---------------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|
|               | 100           | 150  | 200  | 250  | 300  | 350  | 400  | 450  | 500  | 600  | 700  | 800  | 900   | 1000  |
| 100           | 0.19          | 0.25 | 0.31 | 0.38 | 0.44 | 0.50 | 0.56 | 0.63 | 0.68 | 0.84 | 0.97 | 1.09 | 1.22  | 1.34  |
| 150           | 0.23          | 0.31 | 0.39 | 0.47 | 0.55 | 0.63 | 0.70 | 0.79 | 0.86 | 1.06 | 1.23 | 1.38 | 1.55  | 1.69  |
| 200           | 0.32          | 0.44 | 0.55 | 0.67 | 0.77 | 0.90 | 1.00 | 1.12 | 1.23 | 1.52 | 1.77 | 1.97 | 2.22  | 2.43  |
| 250           | 0.37          | 0.51 | 0.63 | 0.77 | 0.89 | 1.03 | 1.15 | 1.29 | 1.41 | 1.72 | 2.03 | 2.27 | 2.55  | 2.79  |
| 300           | 0.46          | 0.64 | 0.79 | 0.97 | 1.12 | 1.30 | 1.45 | 1.63 | 1.78 | 2.2  | 2.56 | 2.86 | 3.22  | 3.52  |
| 350           | 0.50          | 0.70 | 0.87 | 1.07 | 1.23 | 1.43 | 1.60 | 1.79 | 1.96 | 2.43 | 2.83 | 3.16 | 3.55  | 3.89  |
| 400           | 0.60          | 0.83 | 1.03 | 1.26 | 1.46 | 1.70 | 1.89 | 2.13 | 2.32 | 2.89 | 3.36 | 3.76 | 4.22  | 4.62  |
| 450           | 0.64          | 0.90 | 1.10 | 1.36 | 1.57 | 1.83 | 2.04 | 2.29 | 2.51 | 3.12 | 3.63 | 4.05 | 4.56  | 4.98  |
| 500           | 0.69          | 0.96 | 1.19 | 1.46 | 1.69 | 1.96 | 2.19 | 2.46 | 2.69 | 3.35 | 3.89 | 4.35 | 4.89  | 5.35  |
| 600           | 0.85          | 1.20 | 1.49 | 1.84 | 2.13 | 2.47 | 2.77 | 3.11 | 3.40 | 4.21 | 4.94 | 5.53 | 6.22  | 6.8   |
| 700           | 0.99          | 1.39 | 1.73 | 2.13 | 2.47 | 2.87 | 3.21 | 3.61 | 3.94 | 4.94 | 5.74 | 6.42 | 7.22  | 7.91  |
| 800           | 1.13          | 1.59 | 1.97 | 2.43 | 2.82 | 3.27 | 3.65 | 4.11 | 4.49 | 5.63 | 6.54 | 7.31 | 8.23  | 9     |
| 900           | 1.27          | 1.78 | 2.21 | 2.73 | 3.16 | 3.67 | 4.09 | 4.60 | 5.03 | 6.31 | 7.34 | 8.20 | 9.23  | 10.09 |
| 1000          | 1.41          | 1.98 | 2.45 | 3.02 | 3.50 | 4.07 | 4.53 | 5.10 | 5.58 | 7    | 8.14 | 9.10 | 10.24 | 11.19 |

## Technical data



The following factors are used to calculate the noise performance

### Sound power correction factor depending on octaves

| Aeff |                  | Octave frequency band [Hz] |     |     |     |      |      |      |      |
|------|------------------|----------------------------|-----|-----|-----|------|------|------|------|
|      |                  | 63                         | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 0,01 | Kok supply [dB]  | 6                          | 3   | 0   | -1  | -5   | -12  | -11  | -7   |
|      | Kok exhaust [dB] | 4                          | 2   | 0   | -2  | -3   | -11  | -12  | -6   |
| 0,1  | Kok supply [dB]  | 6                          | 4   | 0   | -2  | -6   | -12  | -11  | -8   |
|      | Kok exhaust [dB] | 4                          | 3   | -1  | -2  | -3   | -11  | -13  | -8   |
| 0,5  | Kok supply [dB]  | 7                          | 4   | -1  | -3  | -7   | -12  | -13  | -9   |
|      | Kok exhaust [dB] | 4                          | 4   | 0   | -3  | -4   | -15  | -14  | -7   |
| 1    | Kok supply [dB]  | 7                          | 5   | 0   | -3  | -8   | -14  | -13  | -9   |
|      | Kok exhaust [dB] | 5                          | 4   | 1   | -2  | -9   | -16  | -15  | -8   |

Sound power level in octaves is calculated as:

$$L_{waok} = L_{wa} + K_{ok}$$

### Correction factors for calculating the pressure drop and sound power level depending on the position of the grille louvers

Depending on the position of the plates of the second row, the values of the pressure drop and sound power change and must be corrected using correction factors.

| Second row closure |    | 0% | 25% | 50%  | 75%  |
|--------------------|----|----|-----|------|------|
| Supply             | Kp | 1  | 2.6 | 11.3 | 24.3 |
|                    | Kf | +0 | +15 | +20  | +27  |
| Exhaust            | Kp | 1  | 2.4 | 11   | 23.5 |
|                    | Kf | +0 | +14 | +20  | +25  |

Pressure drop correction

$$dPt' = dPt \times Kp$$

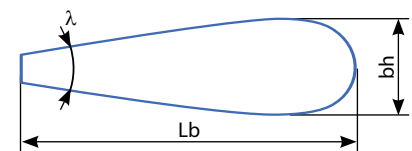
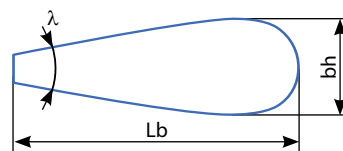
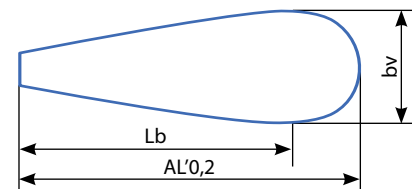
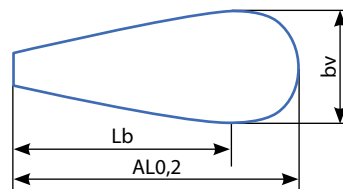
Sound power level correction

$$Lwa' = Lwa \times Kf$$

### Geometric parameters of the air jet

The nature and geometry of the jet varies depending on the height of the grille and the angle of its louvers.

| Discharge angle (front row of plates) | Without Coanda effect |       |       | With Coanda effect |      |       |
|---------------------------------------|-----------------------|-------|-------|--------------------|------|-------|
|                                       | h>300                 |       |       | h<300              |      |       |
|                                       | 0°                    | 44°   | 90°   | 0°                 | 44°  | 90°   |
| KL0,2                                 | 1                     | 0.84  | 0.57  | 1.37               | 0.97 | 0.71  |
| Lb                                    | 0.61                  | 0.6   | 0.39  | 0.75               | 0.75 | 0.51  |
| bv                                    | 0.14                  | 0.087 | 0.077 | 0.13               | 0.08 | 0.068 |
| bh                                    | 0.45                  | 0.49  | 0.58  | 0.47               | 0.51 | 0.63  |



$$L'0,2 = L0,2 \times KL0,2$$

$$Lb = L0,2 \times KLb$$

$$bv = L0,2 \times Kbv$$

$$bh = L0,2 \times Kbh$$

### Velocities at different jet distances

In addition to the given length L0,2, where the velocity is 0.2 m/s, the jet lengths with corresponding velocities at the end can also be calculated.

|    |     |      |      |      |      |
|----|-----|------|------|------|------|
| X  | 0.2 | 0.25 | 0.3  | 0.4  | 0.5  |
| Kx | 1   | 0.81 | 0.68 | 0.52 | 0.42 |

$$Lx = L0,2 \times Kx$$

The data applies to horizontally adjusted first and second row louvers (x0) and a grille positioned 800 mm from the ceiling (without Coanda effect).

### ■ Designation key

#### l0.2 - air jet length.

Defined as the maximum distance from the outlet of the jet from the diffuser to the point at which the air flow velocity is 0.2 m/s.

**Lb** – distance to maximum jet expansion [m].

**bv** – maximum vertical jet expansion [m].

**bh** – maximum horizontal jet expansion.

**V0** – initial air jet velocity at the outlet of the diffuser [m/s].

**Vx** – velocity on the jet axis at a distance x from the diffuser [m/s].

**x** – distance from the diffuser [m].

**dPt** – total pressure drop [Pa].

**LWA** – weighted average sound power level by filter A [dBA].

**LWAok** – octave sound power level [dB].

**Kok** – octave sound power correction factor [dB].

**dt** – temperature difference between supply and room air [°C].

**Kl0.2** – coefficient of jet length variation.

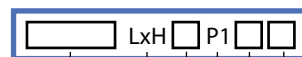
**Kbv** – vertical jet expansion coefficient.

**Kbh** – horizontal jet expansion coefficient.

**Kp** – correction factor for recalculating the total pressure drop.

**Kf** – correction factor for recalculating sound power level.

### ■ Ordering scheme



#### Grille type:

ORG – single-row grille with individually adjustable horizontal louvres

ORV – single-row grille with individually adjustable vertical louvres

#### Opening dimensions:

L – length [mm]

H – height [mm]

#### Grille coating:

\_\_\_\_\_ colour\* (white by default)

An – anodized

#### Accessories:

A – adapter

R1 – built-in air flow regulator

#### Grille fastening:

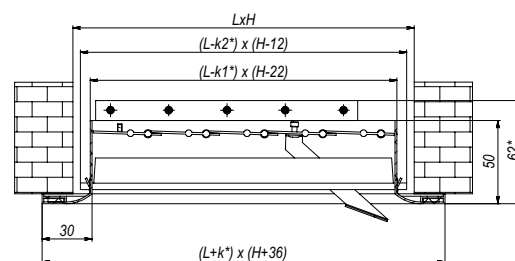
p – springs

#### \* Standard polymer coating colours:

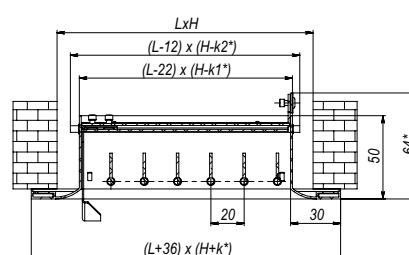


### ■ Overall and mounting dimensions

| Dimensions [mm] |    |      |      |
|-----------------|----|------|------|
| L               | k  | k1   | k2   |
| 100             | 37 | 20.8 | 8.8  |
| 150             | 22 | 35.8 | 23.8 |
| 200             | 42 | 15.8 | 3.8  |
| 250             | 27 | 30.8 | 18.8 |
| 300             | 47 | 10.8 | -1.2 |
| 350             | 32 | 25.8 | 13.8 |
| 400             | 52 | 5.8  | -6.2 |
| 450             | 37 | 20.8 | 8.8  |
| 500             | 22 | 35.8 | 23.8 |



**ORG R1**

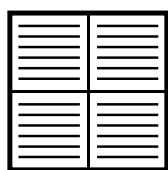


**ORV R1**

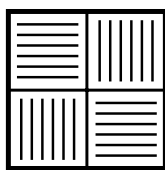
## Series ORK



Single-row sectional ventilation grille with adjustable louvers



ORK1 – parallel louvre position



ORK2 – pairwise perpendicular louvre position

### Application

- Supply and exhaust ventilation, heating and air conditioning networks in industrial, commercial and domestic premises.

### Design

- Made of high-quality extruded aluminium.
- Air flow direction control.
- Cross-flow partition provides extra rigidity.
- Polymer or anodized grille coating ensures weather-resistant properties.
- Non-standard sizes may be ordered.

### Modifications

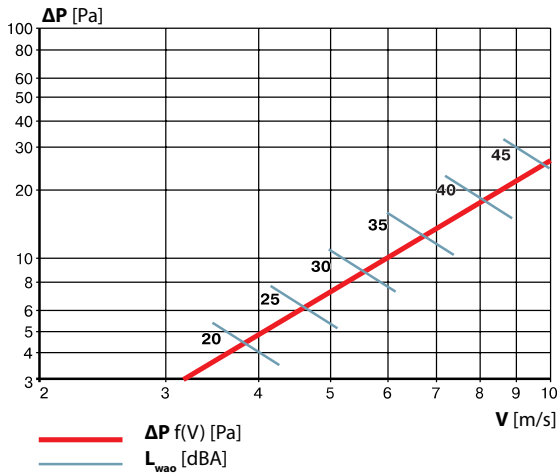
- Available modifications with an air flow regulator (R) and an adapter (A) for connection to air ducts.
- Available modifications with versatile fixing (u) for fast mounting.

## Standard size [mm] and air pass [m<sup>2</sup>]

| Height H [mm] | Length L [mm] |       |       |       |       |       |       |       |       |       |       |       |
|---------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|               | 450           | 500   | 550   | 600   | 650   | 700   | 750   | 800   | 850   | 900   | 950   | 1000  |
| 450           | 0.148         | 0.171 | 0.182 | 0.194 | 0.212 | 0.230 | 0.250 | 0.269 | 0.284 | 0.298 | 0.313 | 0.327 |
| 500           | 0.166         | 0.187 | 0.197 | 0.208 | 0.232 | 0.257 | 0.279 | 0.301 | 0.317 | 0.333 | 0.349 | 0.365 |
| 550           | 0.183         | 0.203 | 0.213 | 0.223 | 0.253 | 0.283 | 0.308 | 0.332 | 0.350 | 0.367 | 0.385 | 0.403 |
| 600           | 0.2           | 0.219 | 0.228 | 0.237 | 0.274 | 0.31  | 0.337 | 0.363 | 0.383 | 0.402 | 0.422 | 0.441 |
| 650           | 0.217         | 0.244 | 0.257 | 0.270 | 0.303 | 0.337 | 0.366 | 0.395 | 0.414 | 0.433 | 0.452 | 0.471 |
| 700           | 0.235         | 0.269 | 0.286 | 0.303 | 0.333 | 0.364 | 0.395 | 0.426 | 0.445 | 0.463 | 0.482 | 0.500 |
| 750           | 0.252         | 0.294 | 0.314 | 0.335 | 0.363 | 0.390 | 0.424 | 0.458 | 0.476 | 0.494 | 0.512 | 0.530 |
| 800           | 0.269         | 0.319 | 0.343 | 0.368 | 0.393 | 0.417 | 0.453 | 0.489 | 0.507 | 0.524 | 0.542 | 0.559 |
| 850           | 0.286         | 0.339 | 0.365 | 0.392 | 0.418 | 0.444 | 0.482 | 0.520 | 0.542 | 0.563 | 0.585 | 0.606 |
| 900           | 0.304         | 0.359 | 0.387 | 0.415 | 0.443 | 0.471 | 0.511 | 0.552 | 0.577 | 0.602 | 0.627 | 0.653 |
| 950           | 0.321         | 0.380 | 0.409 | 0.439 | 0.468 | 0.497 | 0.540 | 0.583 | 0.612 | 0.641 | 0.670 | 0.699 |
| 1000          | 0.338         | 0.4   | 0.431 | 0.462 | 0.493 | 0.524 | 0.569 | 0.614 | 0.647 | 0.68  | 0.713 | 0.746 |



## Pressure loss and sound power level



| Calculation formula                |
|------------------------------------|
| $\Delta P_p = \Delta P \times K_p$ |

| Correction factor $K_p$ |    |      |     |
|-------------------------|----|------|-----|
|                         | 0° | 22°  | 45° |
| $K_p$                   | 1  | 1.25 | 1.5 |

| Calculation formula         |
|-----------------------------|
| $L_{WA} = L_{WAO} \times K$ |

| Correction factor K        |      |      |      |      |     |     |
|----------------------------|------|------|------|------|-----|-----|
| $S_{ap}$ [m <sup>2</sup> ] | 0.01 | 0.02 | 0.05 | 0.07 | 0.1 | 0.2 |
| K [dBA]                    | -9   | -6   | -3   | -1.5 | 0   | +3  |

### Designation:

$\Delta P_p$  – pressure loss at various vane positions [Pa]

$\Delta P$  – pressure loss [Pa]

$K_p$  – correction factor for pressure loss calculation depending on louvre deflection angle

$L_{WA}$  – sound power level [dBA]

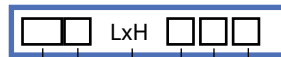
$L_{WAO}$  – sound power level for air pass 0.1 m<sup>2</sup> [dBA]

K – correction factor for sound power level calculation depending on air pass [dBA]

$S_{ap}$  – air pass [m<sup>2</sup>]

V – rated speed [m/s]

## Order code



**Grille type:** \_\_\_\_\_  
 ORK – single-row sectional grille with individually adjustable louvres

**Vane position:** \_\_\_\_\_  
 1 – parallel (deflection angle 0°)  
 2 – pairwise perpendicular (deflection angle 15°)

**Grille size:** \_\_\_\_\_  
 L – length [mm]  
 H – height [mm]

**Grille coating:** \_\_\_\_\_  
 "\_\_\_" – colour\* (white by default)  
 "Anodized"

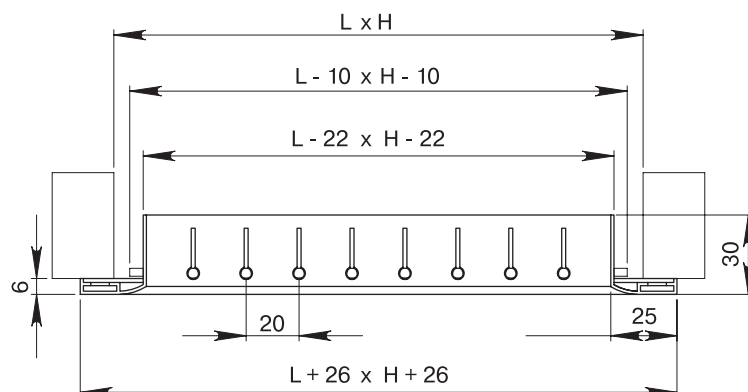
**Accessories:** \_\_\_\_\_  
 \_\_\_ – no  
 R – air flow regulator  
 A – adapter

**Grille fixation:** \_\_\_\_\_  
 u – versatile

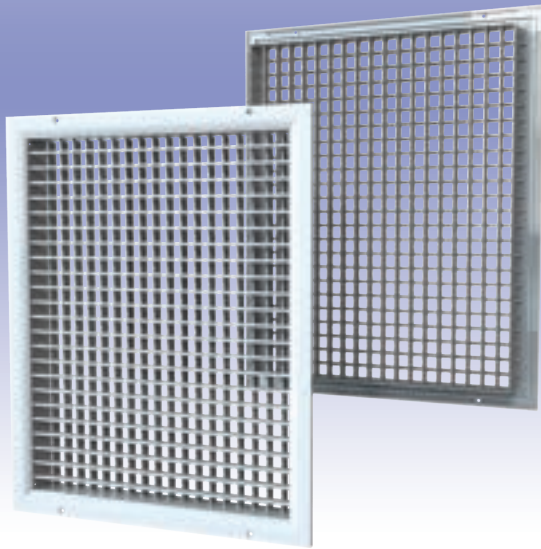
### \* Standard polymer coating colours:



## Overall and mounting dimensions



## Series DR



Double-row ventilation grille  
with adjustable louvers

### Application

- Supply and exhaust ventilation, heating and air conditioning networks in industrial, commercial and domestic premises.

### Design

- Made of high-quality extruded aluminium.
- Two louvre rows provide smooth air flow distribution.
- Smooth air direction adjustment (360°).
- Polymer or anodized grille coating ensures weather-resistant properties.
- Non-standard sizes may be ordered.

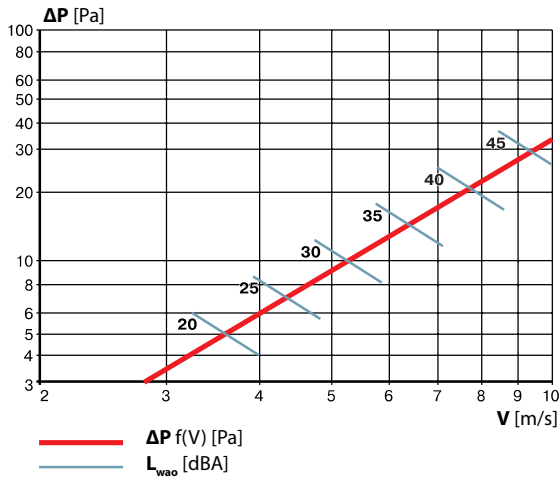
### Modifications

- Available modifications with an air flow regulator (R) and an adapter (A) for connection to air ducts.
- Available modifications with versatile fixing (u) for fast mounting.

## Standard size [mm] and air pass [m<sup>2</sup>]

| Height H [mm] | Length L [mm] |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|---------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|               | 100           | 150   | 200   | 250   | 300   | 350   | 400   | 450   | 500   | 550   | 600   | 650   | 700   | 750   | 800   | 850   | 900   | 950   | 1000  |
| 100           | 0.004         | 0.008 | 0.014 | 0.018 | 0.023 | 0.027 | 0.033 | 0.038 | 0.044 | 0.046 | 0.049 | 0.055 | 0.061 | 0.067 | 0.072 | 0.076 | 0.080 | 0.084 | 0.088 |
| 150           |               | 0.015 | 0.020 | 0.026 | 0.031 | 0.037 | 0.042 | 0.044 | 0.047 | 0.049 | 0.052 | 0.058 | 0.064 | 0.070 | 0.075 | 0.079 | 0.083 | 0.087 | 0.091 |
| 200           |               |       | 0.025 | 0.034 | 0.040 | 0.048 | 0.054 | 0.063 | 0.072 | 0.077 | 0.082 | 0.089 | 0.096 | 0.104 | 0.112 | 0.118 | 0.124 | 0.130 | 0.136 |
| 250           |               |       |       | 0.045 | 0.053 | 0.064 | 0.072 | 0.082 | 0.093 | 0.099 | 0.105 | 0.112 | 0.118 | 0.128 | 0.138 | 0.146 | 0.153 | 0.161 | 0.168 |
| 300           |               |       |       |       | 0.062 | 0.075 | 0.084 | 0.098 | 0.113 | 0.121 | 0.129 | 0.140 | 0.150 | 0.163 | 0.175 | 0.185 | 0.194 | 0.204 | 0.213 |
| 350           |               |       |       |       |       | 0.091 | 0.102 | 0.116 | 0.130 | 0.140 | 0.150 | 0.161 | 0.171 | 0.186 | 0.200 | 0.211 | 0.222 | 0.232 | 0.243 |
| 400           |               |       |       |       |       |       | 0.118 | 0.137 | 0.155 | 0.167 | 0.179 | 0.191 | 0.203 | 0.221 | 0.238 | 0.251 | 0.264 | 0.276 | 0.289 |
| 450           |               |       |       |       |       |       |       | 0.148 | 0.171 | 0.182 | 0.194 | 0.212 | 0.230 | 0.250 | 0.269 | 0.284 | 0.298 | 0.313 | 0.327 |
| 500           |               |       |       |       |       |       |       |       | 0.187 | 0.197 | 0.208 | 0.232 | 0.257 | 0.279 | 0.301 | 0.317 | 0.333 | 0.349 | 0.365 |
| 550           |               |       |       |       |       |       |       |       |       | 0.199 | 0.223 | 0.253 | 0.283 | 0.308 | 0.332 | 0.350 | 0.367 | 0.385 | 0.403 |
| 600           |               |       |       |       |       |       |       |       |       |       | 0.237 | 0.274 | 0.310 | 0.337 | 0.363 | 0.383 | 0.402 | 0.422 | 0.441 |
| 650           |               |       |       |       |       |       |       |       |       |       |       | 0.137 | 0.233 | 0.314 | 0.395 | 0.414 | 0.433 | 0.452 | 0.471 |
| 700           |               |       |       |       |       |       |       |       |       |       |       |       | 0.155 | 0.291 | 0.426 | 0.445 | 0.463 | 0.482 | 0.500 |
| 750           |               |       |       |       |       |       |       |       |       |       |       |       |       | 0.145 | 0.458 | 0.476 | 0.494 | 0.512 | 0.530 |
| 800           |               |       |       |       |       |       |       |       |       |       |       |       |       |       | 0.489 | 0.507 | 0.524 | 0.542 | 0.559 |
| 850           |               |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 0.253 | 0.393 | 0.500 | 0.606 |
| 900           |               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 0.262 | 0.457 | 0.653 |
| 950           |               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 0.229 | 0.699 |
| 1000          |               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 0.746 |

## Pressure loss and sound power level



| Calculation formula                | Correction factor $K_p$ |     |      |     |
|------------------------------------|-------------------------|-----|------|-----|
|                                    | 0°                      | 22° | 45°  |     |
| $\Delta P_p = \Delta P \times K_p$ | $K_p$                   | 1   | 1.25 | 1.5 |

| Calculation formula         | Correction factor K        |      |      |      |      |   |    |
|-----------------------------|----------------------------|------|------|------|------|---|----|
|                             | $S_{ap}$ [m <sup>2</sup> ] | 0.01 | 0.02 | 0.05 | 0.07 | 1 | 2  |
| $L_{WA} = L_{WAO} \times K$ | $K$ [dBA]                  | -9   | -6   | -3   | -1.5 | 0 | +3 |

### Designation:

$\Delta P_p$  – pressure loss at various vane positions [Pa]

$\Delta P$  – pressure loss [Pa]

$K_p$  – correction factor for pressure loss calculation depending on louvre deflection angle

$L_{WA}$  – sound power level [dBA]

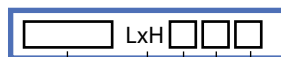
$L_{WAO}$  – sound power level for air pass 0.1 m<sup>2</sup> [dBA]

$K$  – correction factor for sound power level calculation depending on air pass [dBA]

$S_{ap}$  – air pass [m<sup>2</sup>]

$V$  – rated speed [m/s]

## Order code



### Grille type:

DR – double-row grille with individually adjustable louvres

### Grille size:

L – length [mm]

H – height [mm]

### Grille coating:

"\_\_\_" – colour\* (white by default)

"Anodized"

### Accessories:

\_\_\_ – no

R – air flow regulator

A – adapter

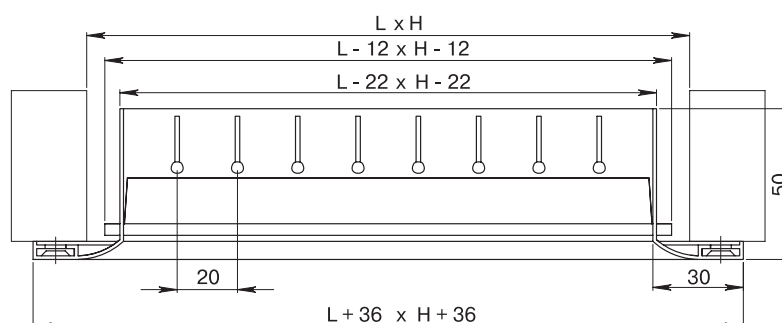
### Grille fixation:

u – versatile

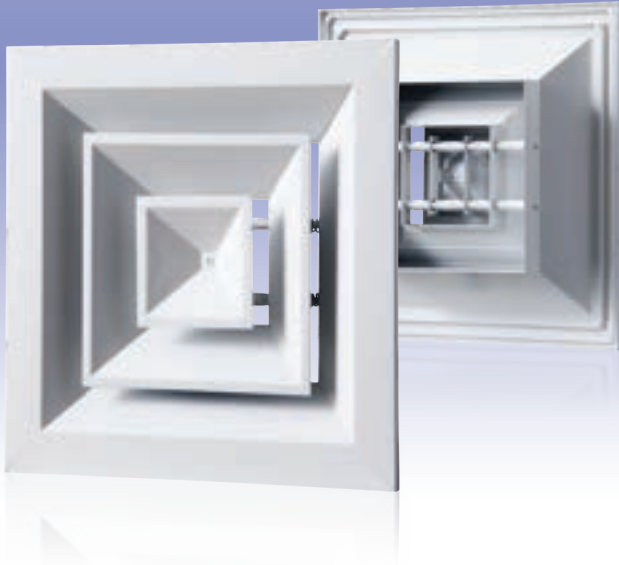
### \* Standard polymer coating colours:



## Overall and mounting dimensions



## Series DP



Ceiling diffuser with fixed vanes

### ■ Application

- Supply and exhaust ventilation, heating and air conditioning networks in industrial, commercial and domestic premises.

### ■ Design

- Made of high-quality extruded aluminium.
- Four-sided uniform air flow distribution.
- Ideal solution for installation into the Armstrong suspended ceilings.
- Polymer or anodized grille coating ensures weather-resistant properties.
- Non-standard sizes may be ordered.

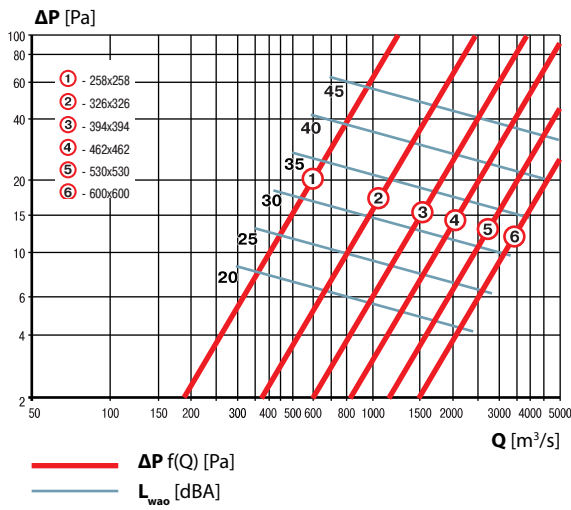
### ■ Modifications

- Available modifications with an air flow regulator (R) and an adapter (A) for connection to air ducts.

## Standard size [mm] and air pass [m<sup>2</sup>]

|               |     | Length L [mm] |       |       |       |       |       |       |     |
|---------------|-----|---------------|-------|-------|-------|-------|-------|-------|-----|
|               |     | L             | 258   | 326   | 394   | 462   | 530   | 600   |     |
| Height H [mm] | H   | h             | l     | 146   | 213   | 282   | 349   | 418   | 488 |
|               | 258 | 146           | 0.015 | 0.020 | 0.024 | 0.029 | 0.034 | 0.038 |     |
|               | 326 | 213           |       | 0.030 | 0.037 | 0.044 | 0.051 | 0.058 |     |
|               | 394 | 282           |       |       | 0.049 | 0.058 | 0.068 | 0.077 |     |
|               | 462 | 349           |       |       |       | 0.073 | 0.085 | 0.096 |     |
|               | 530 | 418           |       |       |       |       | 0.101 | 0.115 |     |
|               | 600 | 488           |       |       |       |       |       | 0.134 |     |

## Pressure loss and sound power level



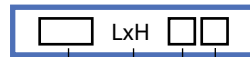
### Designation:

$\Delta P$  – pressure loss [Pa]

$Q$  – air flow [m<sup>3</sup>/h]

$L_{wao}$  – sound power level [dBA]

## Order code



**Grille type:** \_\_\_\_\_  
DP – ceiling diffuser

**Grille size:** \_\_\_\_\_  
L – length [mm]  
H – height [mm]

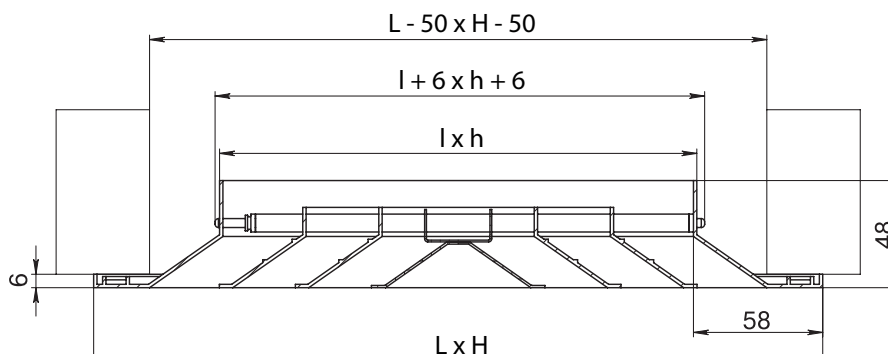
**Grille coating:** \_\_\_\_\_  
"\_\_\_" – colour\* (white by default)  
"Anodized"

**Accessories:** \_\_\_\_\_  
\_\_\_ – no  
R – air flow regulator  
A – adapter

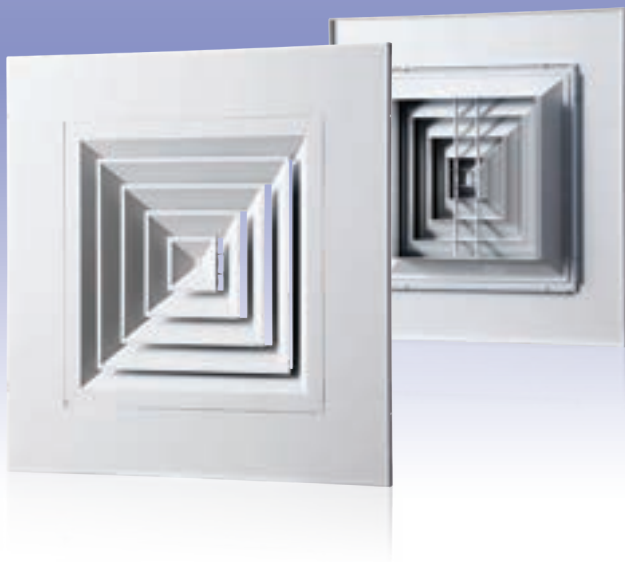
\* Standard polymer coating colours:



## Overall and mounting dimensions



## Series DPp



Ceiling diffuser with fixed vanes

### Application

- Supply and exhaust ventilation, heating and air conditioning networks in industrial, commercial and domestic premises.

### Design

- Made of high-quality extruded aluminium.
- Four-sided uniform air flow distribution.
- Ideal solution for installation into the Armstrong suspended ceilings.
- Polymer or anodized grille coating ensures weather-resistant properties.
- Non-standard sizes may be ordered.

### Modifications

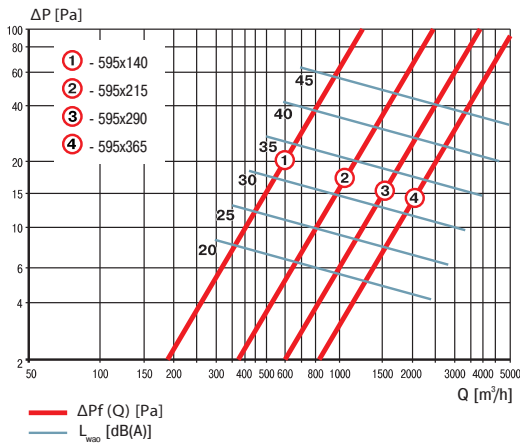
- Available modifications with an air flow regulator (R) and an adapter (A) for connection to air ducts.

## Standard size [mm] and air pass [m<sup>2</sup>]

| A   | B   | Air pass [m <sup>2</sup> ] |  |  |  |
|-----|-----|----------------------------|--|--|--|
| 595 | 140 | 0.014                      |  |  |  |
| 595 | 215 | 0.034                      |  |  |  |
| 595 | 290 | 0.053                      |  |  |  |
| 595 | 365 | 0.084                      |  |  |  |



### Pressure loss and sound power level



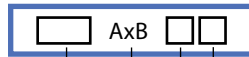
**Designation:**

**ΔP** – pressure loss [Pa]

**Q** – air flow [m³/h]

**L<sub>WA</sub>** – sound power level [dBA]

### Order code



**Grille type:** \_\_\_\_\_  
DPP – ceiling diffuser

**Grille coating:** \_\_\_\_\_  
"\_\_\_" – colour\* (white by default)  
"Anodized"

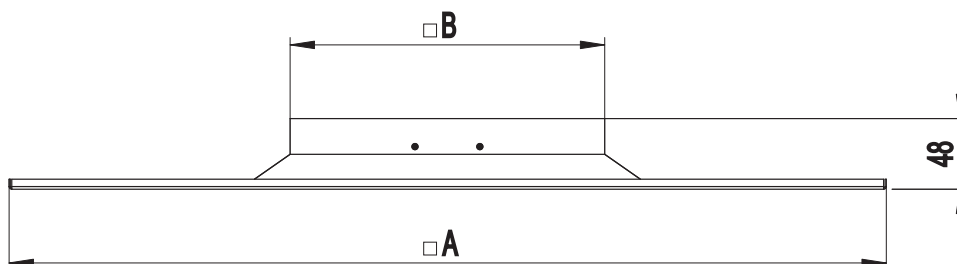
**Grille size:** \_\_\_\_\_  
A – outer size [mm]  
V – cross section size [mm]

**Accessories:** \_\_\_\_\_  
\_\_\_ – no  
R – air flow regulator  
A – adapter

\* Standard polymer coating colours:



### Overall and mounting dimensions



## Series DS



Slit diffuser

### Application

- Supply and exhaust ventilation, heating and air conditioning networks in industrial, commercial and domestic premises.

### Design

- Made of high-quality extruded aluminium.
- Focused air flow distribution.
- Air flow direction control.
- Polymer or anodized grille coating ensures weather-resistant properties.
- Non-standard sizes may be ordered.

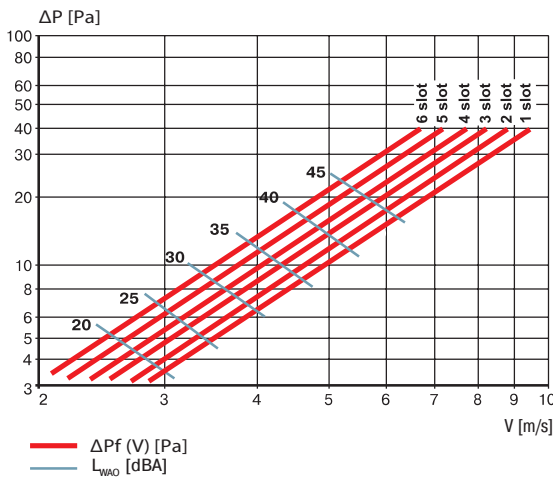
### Modifications

- Available modifications with an adapter (A) for connection to air ducts.
- Available modifications with versatile fixing (u) or with special springs (p) for fast mounting.

## Standard size [mm] and air pass [m<sup>2</sup>]

| Height H [mm]   |       | Length L [mm] |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|-----------------|-------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Number of slits | H, mm | 200           | 300    | 400    | 500    | 600    | 700    | 800    | 900    | 1000   | 1200   | 1400   | 1500   | 1600   | 1800   | 2000   |
| 1               | 62    | 0.0043        | 0.0067 | 0.009  | 0.0114 | 0.0138 | 0.0162 | 0.0186 | 0.0209 | 0.0233 | 0.0281 | 0.0328 | 0.0352 | 0.0376 | 0.0423 | 0.0471 |
| 2               | 106   | 0.0086        | 0.0134 | 0.0180 | 0.0228 | 0.0276 | 0.0324 | 0.0372 | 0.0418 | 0.0466 | 0.0562 | 0.0656 | 0.0704 | 0.0752 | 0.0846 | 0.0942 |
| 3               | 151   | 0.0129        | 0.0201 | 0.0270 | 0.0342 | 0.0414 | 0.0486 | 0.0558 | 0.0627 | 0.0699 | 0.0843 | 0.0984 | 0.1056 | 0.1128 | 0.1269 | 0.1413 |
| 4               | 195   | 0.0172        | 0.0268 | 0.0360 | 0.0456 | 0.0552 | 0.0648 | 0.0744 | 0.0836 | 0.0932 | 0.1124 | 0.1312 | 0.1408 | 0.1504 | 0.1692 | 0.1884 |
| 5               | 239   | 0.0215        | 0.0335 | 0.0450 | 0.0570 | 0.0690 | 0.0810 | 0.0930 | 0.1045 | 0.1165 | 0.1405 | 0.1640 | 0.1760 | 0.1880 | 0.2115 | 0.2355 |
| 6               | 283   | 0.0258        | 0.0402 | 0.0540 | 0.0684 | 0.0828 | 0.0972 | 0.1116 | 0.1254 | 0.1398 | 0.1686 | 0.1968 | 0.2112 | 0.2256 | 0.2538 | 0.2826 |

## Pressure loss and sound power level



| Calculation formula                | Correction factor $K_p$ |     |
|------------------------------------|-------------------------|-----|
|                                    | 0°                      | 45° |
| $\Delta P_p = \Delta P \times K_p$ | $K_p$                   |     |
|                                    | 1                       | 1.5 |

| Calculation formula         | Correction factor $K$      |      |      |      |     |     |     |
|-----------------------------|----------------------------|------|------|------|-----|-----|-----|
|                             | $S_{ap}$ [m <sup>2</sup> ] | 0.01 | 0.02 | 0.05 | 0.1 | 0.2 | 0.4 |
| $L_{WA} = L_{WAO} \times K$ | $K$ [dBA]                  | -9   | -6   | -3   | 0   | +3  | +6  |

### Designation:

$\Delta P_p$  – pressure loss at various vane positions [Pa]

$\Delta P$  – pressure loss [Pa]

$K_p$  – correction factor for pressure loss calculation depending on louvre deflection angle

$L_{WA}$  – sound power level [dBA]

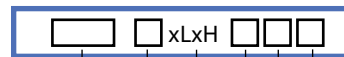
$L_{WAO}$  – sound power level for air pass 0.1 m<sup>2</sup> [dBA]

$K$  – correction factor for sound power level calculation depending on air pass [dBA]

$S_{ap}$  – air pass [m<sup>2</sup>]

$V$  – rated speed [m/s]

## Order code



Grille type: \_\_\_\_\_

DS – slit diffuser

Number of slits: \_\_\_\_\_

1, 2, 3, 4, 5, 6

Grille size: \_\_\_\_\_

L – length [mm]

H – height [mm]

Grille coating:

"\_\_" – colour\* (white by default)

"Anodized"

Accessories:

\_\_\_ – no

A – adapter

Grille fixation:

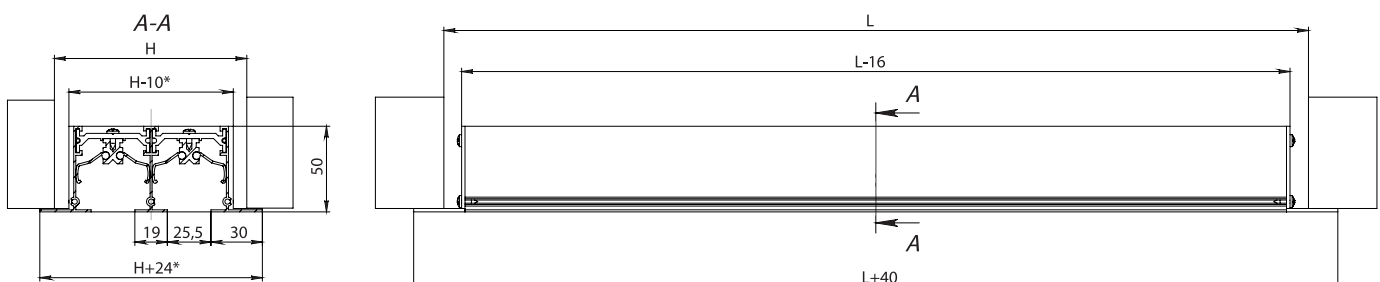
u – versatile

p – spring

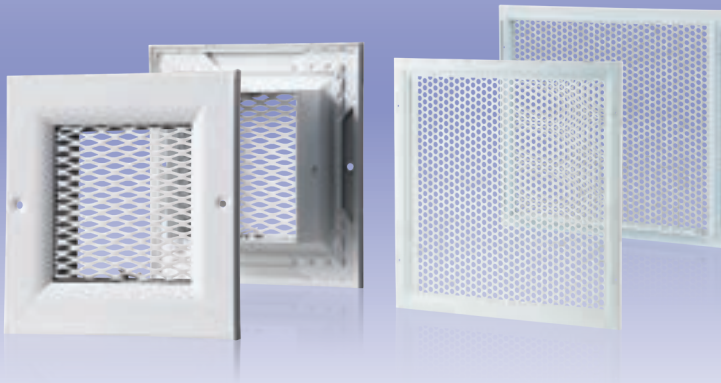
\* Standard polymer coating colours:



## Overall and mounting dimensions



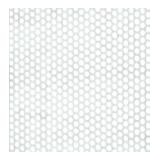
## Series RP



Exhaust ventilation grille with a mesh insert



RP1 – expanded metal insert



RP2 –perforated insert with round holes

### Application

- Supply and exhaust ventilation, heating and air conditioning networks in industrial, commercial and domestic premises.

### Design

- Made of high-quality extruded aluminium shape and an insert piece of perforated steel or expanded mesh.
- Polymer or anodized grille coating ensures weather-resistant properties.
- Non-standard sizes may be ordered.

### Modifications

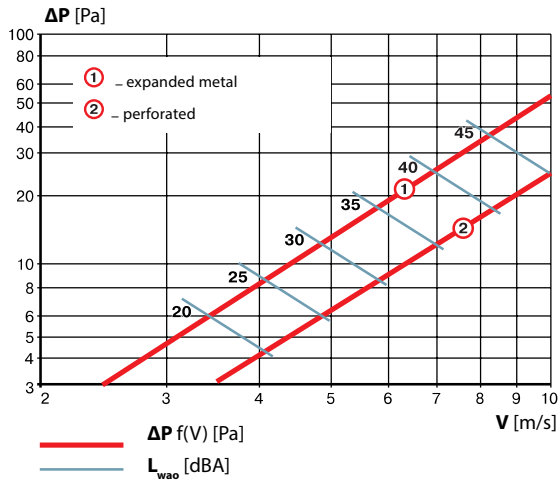
- Available modifications with an adapter (A) for connection to air ducts.
- Available modifications with versatile fixing (u) or with special springs (p) for fast mounting.

## Standard size [mm] and air pass [m<sup>2</sup>]

|                      | Height H [mm] | Length L [mm] |       |       |       |       |       |       |       |       |       |       |       |       |       |
|----------------------|---------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                      |               | 100           | 150   | 200   | 250   | 300   | 350   | 400   | 450   | 500   | 600   | 700   | 800   | 900   | 1000  |
| Expanded metal sheet | 100           | 0.006         | 0.008 | 0.010 | 0.012 | 0.016 | 0.018 | 0.020 | 0.023 | 0.026 | 0.033 | 0.037 | 0.043 | 0.047 | 0.050 |
|                      | 150           |               | 0.010 | 0.015 | 0.019 | 0.024 | 0.027 | 0.030 | 0.041 | 0.046 | 0.051 | 0.059 | 0.068 | 0.075 | 0.082 |
|                      | 200           |               |       | 0.022 | 0.028 | 0.036 | 0.040 | 0.044 | 0.054 | 0.062 | 0.076 | 0.087 | 0.102 | 0.113 | 0.124 |
|                      | 250           |               |       |       | 0.038 | 0.042 | 0.048 | 0.054 | 0.073 | 0.083 | 0.103 | 0.118 | 0.138 | 0.153 | 0.168 |
|                      | 300           |               |       |       |       | 0.058 | 0.065 | 0.071 | 0.099 | 0.112 | 0.139 | 0.159 | 0.176 | 0.199 | 0.221 |
|                      | 350           |               |       |       |       |       | 0.067 | 0.087 | 0.110 | 0.123 | 0.153 | 0.175 | 0.211 | 0.231 | 0.252 |
|                      | 400           |               |       |       |       |       |       | 0.102 | 0.120 | 0.134 | 0.166 | 0.190 | 0.245 | 0.264 | 0.282 |
|                      | 450           |               |       |       |       |       |       |       | 0.143 | 0.162 | 0.201 | 0.230 | 0.269 | 0.299 | 0.328 |
|                      | 500           |               |       |       |       |       |       |       |       | 0.184 | 0.228 | 0.261 | 0.305 | 0.338 | 0.371 |
|                      | 600           |               |       |       |       |       |       |       |       |       | 0.283 | 0.324 | 0.378 | 0.419 | 0.460 |
|                      | 700           |               |       |       |       |       |       |       |       |       |       | 0.370 | 0.433 | 0.480 | 0.527 |
|                      | 800           |               |       |       |       |       |       |       |       |       |       |       | 0.505 | 0.561 | 0.616 |
|                      | 900           |               |       |       |       |       |       |       |       |       |       |       |       | 0.628 | 0.684 |
| 1000                 |               |               |       |       |       |       |       |       |       |       |       |       |       | 0.751 |       |

|                  | Height H [mm] | Length L [mm] |       |       |       |       |       |       |       |       |       |       |       |       |       |
|------------------|---------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                  |               | 100           | 150   | 200   | 250   | 300   | 350   | 400   | 450   | 500   | 600   | 700   | 800   | 900   | 1000  |
| Perforated sheet | 100           | 0.003         | 0.005 | 0.007 | 0.009 | 0.011 | 0.013 | 0.015 | 0.017 | 0.019 | 0.024 | 0.026 | 0.032 | 0.035 | 0.038 |
|                  | 150           |               | 0.008 | 0.012 | 0.014 | 0.017 | 0.021 | 0.024 | 0.027 | 0.031 | 0.039 | 0.043 | 0.520 | 0.058 | 0.063 |
|                  | 200           |               |       | 0.017 | 0.021 | 0.026 | 0.031 | 0.035 | 0.040 | 0.046 | 0.057 | 0.063 | 0.076 | 0.084 | 0.092 |
|                  | 250           |               |       |       | 0.026 | 0.032 | 0.038 | 0.044 | 0.050 | 0.057 | 0.071 | 0.078 | 0.094 | 0.104 | 0.114 |
|                  | 300           |               |       |       |       | 0.041 | 0.049 | 0.056 | 0.063 | 0.071 | 0.088 | 0.101 | 0.118 | 0.131 | 0.143 |
|                  | 350           |               |       |       |       |       | 0.059 | 0.066 | 0.074 | 0.083 | 0.104 | 0.119 | 0.139 | 0.154 | 0.169 |
|                  | 400           |               |       |       |       |       |       | 0.076 | 0.085 | 0.095 | 0.120 | 0.137 | 0.160 | 0.177 | 0.194 |
|                  | 450           |               |       |       |       |       |       |       | 0.096 | 0.109 | 0.135 | 0.149 | 0.180 | 0.198 | 0.216 |
|                  | 500           |               |       |       |       |       |       |       |       | 0.123 | 0.138 | 0.153 | 0.170 | 0.204 | 0.246 |
|                  | 600           |               |       |       |       |       |       |       |       |       | 0.154 | 0.171 | 0.190 | 0.228 | 0.274 |
|                  | 700           |               |       |       |       |       |       |       |       |       |       | 0.189 | 0.210 | 0.253 | 0.304 |
|                  | 800           |               |       |       |       |       |       |       |       |       |       |       | 0.233 | 0.281 | 0.338 |
|                  | 900           |               |       |       |       |       |       |       |       |       |       |       |       | 0.338 | 0.407 |
| 1000             |               |               |       |       |       |       |       |       |       |       |       |       |       | 0.489 |       |

## Pressure loss and sound power level

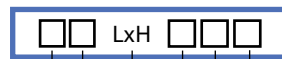


| Calculation formula    | Correction factor K        |       |      |      |      |     |     |     |
|------------------------|----------------------------|-------|------|------|------|-----|-----|-----|
|                        | $S_{ap}$ [m <sup>2</sup> ] | 0.001 | 0.01 | 0.02 | 0.05 | 0.1 | 0.2 | 0.4 |
| $L_{WA} = L_{WAO} + K$ | K [dBA]                    | -     | -    | -    | -    | 0   | +3  | +6  |

### Designation:

- $\Delta P$  – pressure loss [Pa]
- $L_{WA}$  – sound power level [dBA]
- $L_{WAO}$  – sound power level for air pass 0.1 m<sup>2</sup> [dBA]
- K – correction factor for sound power level calculation depending on air pass [dBA]
- $S_{ap}$  – air pass [m<sup>2</sup>]
- V – rated speed [m/s]

## Order code



**Grille type:** \_\_\_\_\_  
 RP – grille with a mesh insert

**Filling insert type:** \_\_\_\_\_  
 1 – expanded metal  
 2 – perforated with round holes

**Grille size:** \_\_\_\_\_  
 L – length [mm]  
 H – height [mm]

**Grille coating:** \_\_\_\_\_  
 "\_\_\_" – colour\* (white by default)  
 "Anodized"

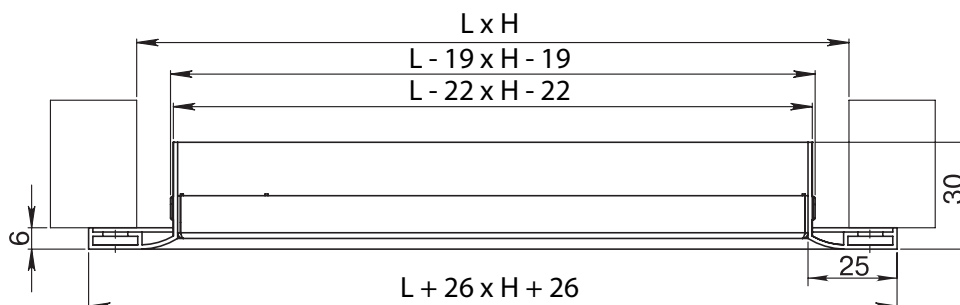
**Accessories:** \_\_\_\_\_  
 \_\_\_ – no  
 A – adapter

**Grille fixation:** \_\_\_\_\_  
 u – versatile  
 p – spring

\* Standard polymer coating colours:



## Overall and mounting dimensions



## Series RN



Supply and exhaust ventilation grille with fixed vanes

### Application

- Supply and exhaust ventilation, heating and air conditioning networks in industrial, commercial and domestic premises.

### Design

- Made of high-quality extruded aluminium shape and an insert piece of perforated steel or expanded mesh.
- Reinforced frame design provides 100 % grille rigidity.
- Special vane design prevents water ingress into a ventilation system.
- A built-in protecting mesh prevents ingress of foreign objects into a ventilation system.
- Polymer or anodized grille coating ensures weather-resistant properties.
- Non-standard sizes may be ordered.

### Modifications

- Available modifications with an adapter (A) for connection to air ducts.
- Available modifications with versatile fixing (u) for fast mounting.

## Air flow distributions



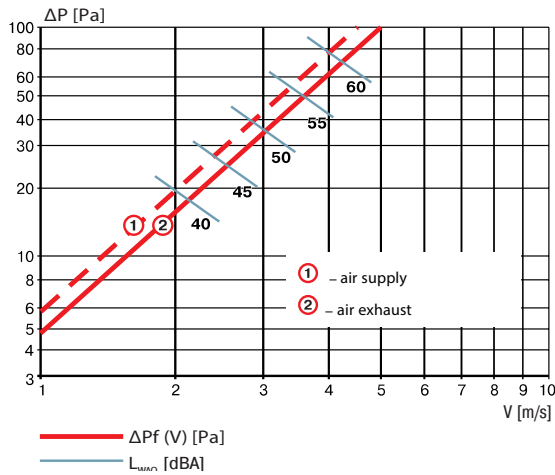
fixed (45°)

## Standard size [mm] and air pass [m<sup>2</sup>]

| Height H [mm] | Length L [mm] |       |       |       |       |       |       |       |       |       |
|---------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|               | 300           | 350   | 400   | 450   | 500   | 600   | 700   | 800   | 900   | 1000  |
| 300           | 0.039         | 0.047 | 0.054 | 0.061 | 0.067 | 0.079 | 0.087 | 0.099 | 0.115 | 0.127 |
| 350           |               | 0.059 | 0.066 | 0.074 | 0.082 | 0.096 | 0.106 | 0.121 | 0.140 | 0.155 |
| 400           |               |       | 0.078 | 0.087 | 0.096 | 0.112 | 0.125 | 0.143 | 0.164 | 0.182 |
| 450           |               |       |       | 0.102 | 0.111 | 0.131 | 0.144 | 0.165 | 0.189 | 0.210 |
| 500           |               |       |       |       | 0.125 | 0.150 | 0.163 | 0.187 | 0.213 | 0.237 |
| 600           |               |       |       |       |       | 0.168 | 0.201 | 0.231 | 0.262 | 0.292 |
| 700           |               |       |       |       |       |       | 0.239 | 0.275 | 0.311 | 0.347 |
| 800           |               |       |       |       |       |       |       | 0.318 | 0.360 | 0.401 |
| 900           |               |       |       |       |       |       |       |       | 0.409 | 0.456 |
| 1000          |               |       |       |       |       |       |       |       |       | 0.511 |



## Pressure loss and sound power level

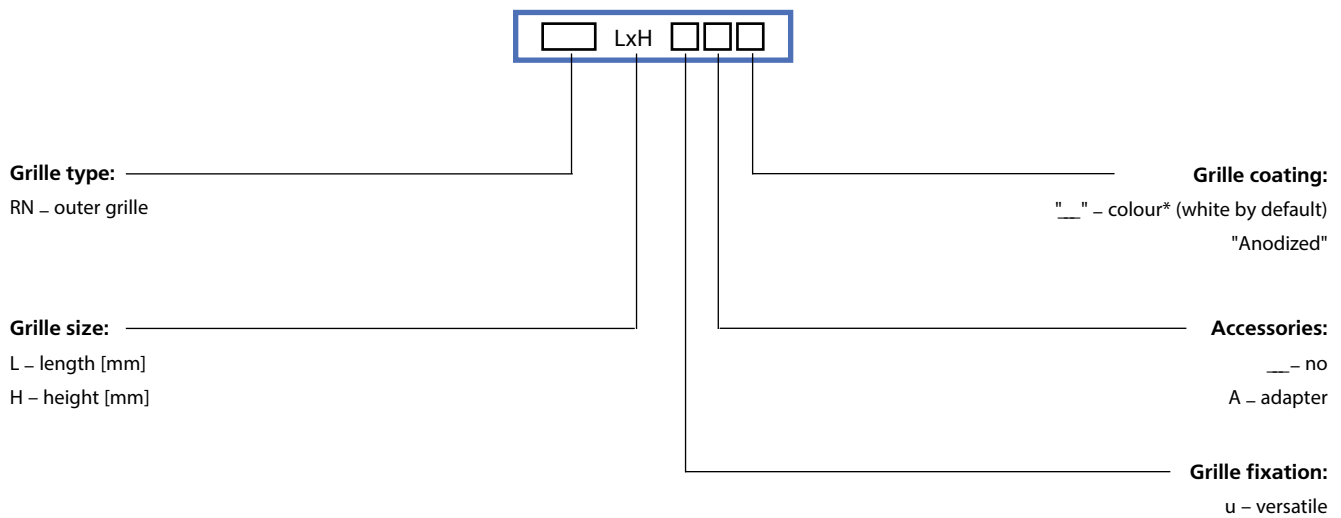


| Calculation formula    | Correction factor K        |      |      |      |      |      |     |      |     |
|------------------------|----------------------------|------|------|------|------|------|-----|------|-----|
|                        | $S_{ap}$ [m <sup>2</sup> ] | 0.03 | 0.05 | 0.07 | 0.10 | 0.15 | 0.2 | 0.3  | 0.4 |
| $L_{wa} = L_{wa0} + K$ | K [dBA]                    | 4.5  | 3    | 1.5  | 0    | +1.5 | +3  | +4.5 | +6  |

### Designation:

- $\Delta P$  – pressure loss [Pa]
- $L_{wa}$  – sound power level [dBA]
- $L_{wa0}$  – sound power level for air pass 0.1 m<sup>2</sup> [dBA]
- $K$  – correction factor for sound power level calculation depending on air pass [dBA]
- $S_{ap}$  – air pass [m<sup>2</sup>]
- $V$  – rated speed [m/s]

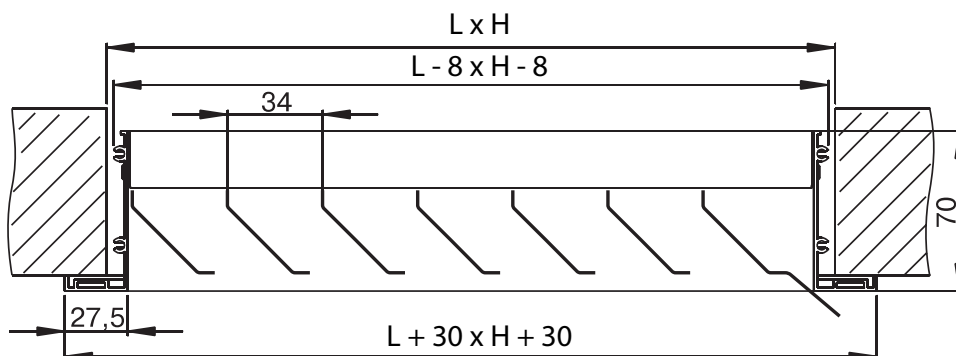
## Order code



\* Standard polymer coating colours:



## Overall and mounting dimensions



## Series RG



Ventilation grille with gravity shutters

### Application

- Exhaust ventilation, heating and air conditioning networks in industrial, commercial and domestic premises.

### Design

- Made of high-quality extruded aluminium shape and an insert piece of perforated steel or expanded mesh.
- Polymer or anodized grille coating ensures weather-resistant properties.
- Non-standard sizes may be ordered.

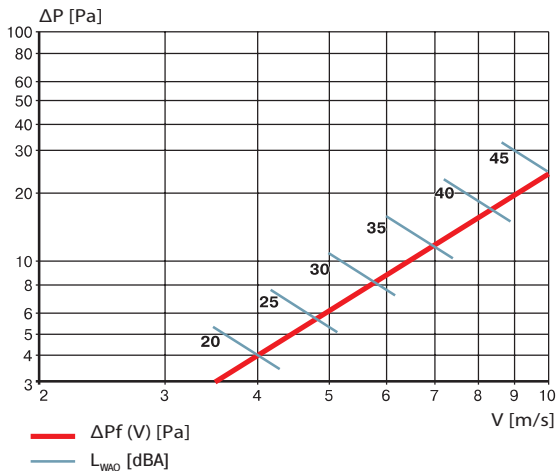
### Modifications

- Available modifications with an adapter (A) for connection to air ducts.
- Available modifications with versatile fixing (u) for fast mounting.

## Standard size [mm] and air pass [m<sup>2</sup>]

| Height H [mm] | Length L [mm] |       |       |       |       |       |       |       |       |
|---------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|
|               | 100           | 150   | 200   | 250   | 300   | 350   | 400   | 450   | 500   |
| 100           | 0.002         | 0.008 | 0.014 | 0.018 | 0.023 | 0.027 | 0.033 | 0.038 | 0.044 |
| 150           | 0.005         | 0.011 | 0.017 | 0.021 | 0.026 | 0.030 | 0.036 | 0.041 | 0.047 |
| 200           | 0.008         | 0.018 | 0.025 | 0.031 | 0.040 | 0.045 | 0.054 | 0.062 | 0.072 |
| 250           | 0.010         | 0.021 | 0.032 | 0.038 | 0.048 | 0.055 | 0.066 | 0.076 | 0.084 |
| 300           | 0.013         | 0.027 | 0.041 | 0.051 | 0.062 | 0.071 | 0.084 | 0.096 | 0.113 |
| 350           | 0.016         | 0.031 | 0.046 | 0.057 | 0.073 | 0.081 | 0.096 | 0.11  | 0.13  |
| 400           | 0.019         | 0.037 | 0.055 | 0.068 | 0.087 | 0.100 | 0.114 | 0.131 | 0.155 |
| 450           | 0.022         | 0.042 | 0.062 | 0.077 | 0.098 | 0.112 | 0.132 | 0.148 | 0.171 |
| 500           | 0.024         | 0.047 | 0.069 | 0.085 | 0.109 | 0.125 | 0.144 | 0.166 | 0.187 |

## Pressure loss and sound power level



| Calculation formula                | Correction factor $K_p$ |      |     |
|------------------------------------|-------------------------|------|-----|
|                                    | 0°                      | 22°  | 45° |
| $\Delta P_p = \Delta P \times K_p$ | 1                       | 1.25 | 1.5 |

| Calculation formula         | Correction factor $K$      |      |      |      |     |     |     |
|-----------------------------|----------------------------|------|------|------|-----|-----|-----|
|                             | $S_{ap}$ [m <sup>2</sup> ] | 0.01 | 0.02 | 0.05 | 0.1 | 0.2 | 0.4 |
| $L_{WA} = L_{WAO} \times K$ | $K$ [dBA]                  | -9   | -6   | -3   | 0   | +3  | +6  |

### Designation:

$\Delta P_p$  – pressure loss at various vane positions [Pa]

$\Delta P$  – pressure loss [Pa]

$K_p$  – correction factor for pressure loss calculation depending on louvre deflection angle

$L_{WA}$  – sound power level [dBA]

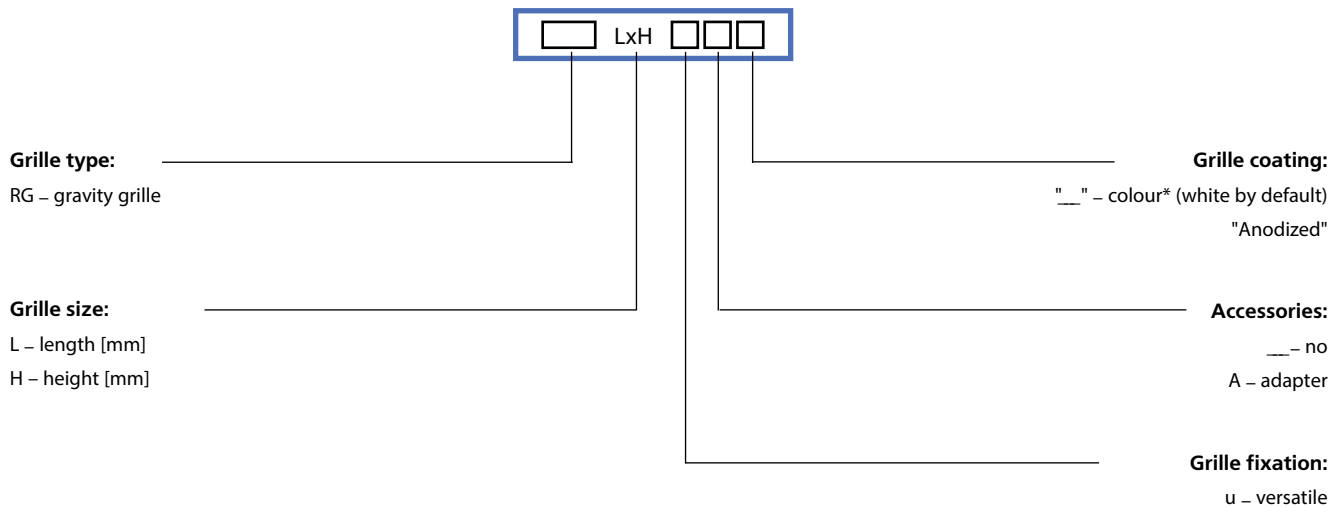
$L_{WAO}$  – sound power level for air pass 0.1 m<sup>2</sup> [dBA]

$K$  – correction factor for sound power level calculation depending on air pass [dBA]

$S_{ap}$  – air pass [m<sup>2</sup>]

$V$  – rated speed [m/s]

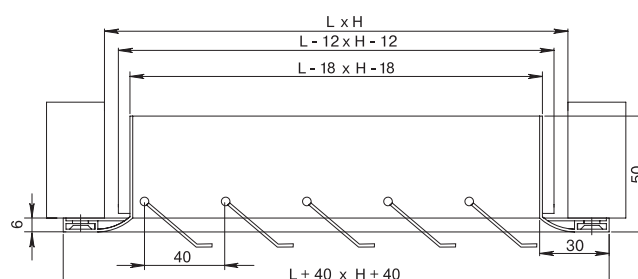
## Order code



\* Standard polymer coating colours:



## Overall and mounting dimensions



## Series RGS



Sectional ventilation grille with gravity shutters

### Application

- Exhaust ventilation, heating and air conditioning networks in industrial, commercial and domestic premises.

### Design

- Made of high-quality extruded aluminium shape and an insert piece of perforated steel or expanded mesh.
- Polymer or anodized grille coating ensures weather-resistant properties.
- Non-standard sizes may be ordered.

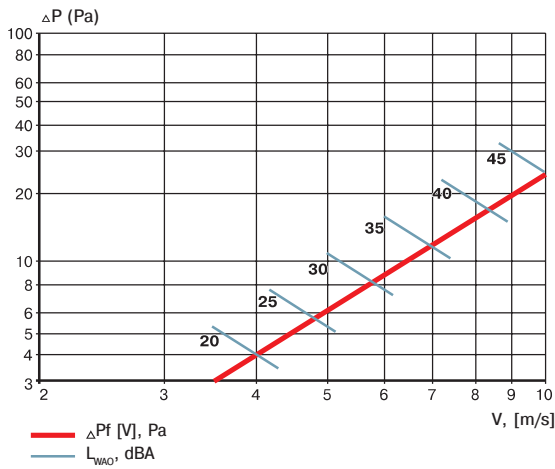
### Modifications

- Available modifications with an adapter (A) for connection to air ducts.
- Available modifications with versatile fixing (u) or with special springs (p) for fast mounting.

## Standard size [mm] and air pass [m<sup>2</sup>]

| Height H [mm] | Length L [mm] |       |       |       |       |       |       |      |       |       |       |       |       |       |       |       |       |      |       |       |       |       |       |
|---------------|---------------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|
|               | 100           | 140   | 180   | 220   | 260   | 300   | 340   | 380  | 420   | 460   | 500   | 540   | 580   | 620   | 660   | 700   | 740   | 780  | 820   | 860   | 900   | 940   | 980   |
| 100           | -             | -     | -     | -     | -     | -     | -     | -    | -     | -     | -     | 0.045 | 0.048 | 0.053 | 0.058 | 0.061 | 0.066 | 0.07 | 0.074 | 0.078 | 0.08  | 0.083 | 0.087 |
| 140           | -             | -     | -     | -     | -     | -     | -     | -    | -     | -     | -     | 0.064 | 0.068 | 0.075 | 0.083 | 0.086 | 0.093 | 0.1  | 0.106 | 0.111 | 0.115 | 0.119 | 0.123 |
| 180           | -             | -     | -     | -     | -     | -     | -     | -    | -     | -     | -     | 0.083 | 0.088 | 0.097 | 0.108 | 0.111 | 0.12  | 0.13 | 0.138 | 0.144 | 0.15  | 0.155 | 0.159 |
| 220           | -             | -     | -     | -     | -     | -     | -     | -    | -     | -     | -     | 0.102 | 0.108 | 0.119 | 0.133 | 0.136 | 0.147 | 0.16 | 0.17  | 0.177 | 0.185 | 0.191 | 0.195 |
| 260           | -             | -     | -     | -     | -     | -     | -     | -    | -     | -     | -     | 0.121 | 0.128 | 0.141 | 0.158 | 0.161 | 0.174 | 0.19 | 0.202 | 0.21  | 0.22  | 0.227 | 0.231 |
| 300           | -             | -     | -     | -     | -     | -     | -     | -    | -     | -     | -     | 0.14  | 0.148 | 0.163 | 0.183 | 0.186 | 0.201 | 0.22 | 0.234 | 0.243 | 0.255 | 0.263 | 0.267 |
| 340           | -             | -     | -     | -     | -     | -     | -     | -    | -     | -     | -     | 0.159 | 0.168 | 0.185 | 0.208 | 0.211 | 0.228 | 0.25 | 0.266 | 0.276 | 0.29  | 0.299 | 0.303 |
| 380           | -             | -     | -     | -     | -     | -     | -     | -    | -     | -     | -     | 0.178 | 0.188 | 0.207 | 0.233 | 0.236 | 0.255 | 0.28 | 0.298 | 0.309 | 0.325 | 0.335 | 0.339 |
| 420           | -             | -     | -     | -     | -     | -     | -     | -    | -     | -     | -     | 0.197 | 0.208 | 0.229 | 0.258 | 0.261 | 0.282 | 0.31 | 0.33  | 0.342 | 0.36  | 0.371 | 0.375 |
| 460           | -             | -     | -     | -     | -     | -     | -     | -    | -     | -     | -     | 0.216 | 0.228 | 0.251 | 0.283 | 0.286 | 0.309 | 0.34 | 0.362 | 0.375 | 0.395 | 0.407 | 0.411 |
| 500           | -             | -     | -     | -     | -     | -     | -     | -    | -     | -     | -     | 0.235 | 0.248 | 0.273 | 0.308 | 0.311 | 0.336 | 0.37 | 0.394 | 0.408 | 0.43  | 0.443 | 0.447 |
| 540           | 0.024         | 0.04  | 0.078 | 0.104 | 0.118 | 0.1   | 0.125 | 0.14 | 0.145 | 0.172 | 0.231 | 0.254 | 0.268 | 0.295 | 0.333 | 0.336 | 0.363 | 0.4  | 0.426 | 0.441 | 0.465 | 0.479 | 0.483 |
| 580           | 0.026         | 0.043 | 0.084 | 0.112 | 0.127 | 0.107 | 0.134 | 0.15 | 0.155 | 0.184 | 0.248 | 0.273 | 0.288 | 0.317 | 0.358 | 0.361 | 0.39  | 0.43 | 0.458 | 0.474 | 0.5   | 0.515 | 0.519 |
| 620           | 0.028         | 0.046 | 0.09  | 0.12  | 0.136 | 0.114 | 0.143 | 0.16 | 0.165 | 0.196 | 0.265 | 0.292 | 0.308 | 0.339 | 0.383 | 0.386 | 0.417 | 0.46 | 0.49  | 0.507 | 0.535 | 0.551 | 0.555 |
| 660           | 0.03          | 0.049 | 0.096 | 0.128 | 0.145 | 0.121 | 0.152 | 0.17 | 0.175 | 0.208 | 0.282 | 0.311 | 0.328 | 0.361 | 0.408 | 0.411 | 0.444 | 0.49 | 0.522 | 0.54  | 0.57  | 0.587 | 0.591 |
| 700           | 0.032         | 0.052 | 0.102 | 0.136 | 0.154 | 0.128 | 0.161 | 0.18 | 0.185 | 0.22  | 0.299 | 0.33  | 0.348 | 0.383 | 0.433 | 0.436 | 0.471 | 0.52 | 0.554 | 0.573 | 0.605 | 0.623 | 0.627 |
| 740           | 0.034         | 0.055 | 0.108 | 0.144 | 0.163 | 0.135 | 0.17  | 0.19 | 0.195 | 0.232 | 0.316 | 0.349 | 0.368 | 0.405 | 0.458 | 0.461 | 0.498 | 0.55 | 0.586 | 0.606 | 0.64  | 0.659 | 0.663 |
| 780           | 0.036         | 0.058 | 0.114 | 0.152 | 0.172 | 0.142 | 0.179 | 0.2  | 0.205 | 0.244 | 0.333 | 0.368 | 0.388 | 0.427 | 0.483 | 0.486 | 0.525 | 0.58 | 0.618 | 0.639 | 0.675 | 0.695 | 0.699 |
| 820           | 0.038         | 0.061 | 0.12  | 0.16  | 0.181 | 0.149 | 0.188 | 0.21 | 0.215 | 0.256 | 0.35  | 0.387 | 0.408 | 0.449 | 0.508 | 0.511 | 0.552 | 0.61 | 0.65  | 0.672 | 0.71  | 0.731 | 0.735 |
| 860           | 0.04          | 0.064 | 0.126 | 0.168 | 0.19  | 0.156 | 0.197 | 0.22 | 0.225 | 0.268 | 0.367 | 0.406 | 0.428 | 0.471 | 0.533 | 0.536 | 0.579 | 0.64 | 0.682 | 0.705 | 0.745 | 0.767 | 0.771 |
| 900           | 0.042         | 0.067 | 0.132 | 0.176 | 0.199 | 0.163 | 0.206 | 0.23 | 0.235 | 0.28  | 0.384 | 0.425 | 0.448 | 0.493 | 0.558 | 0.561 | 0.606 | 0.67 | 0.714 | 0.738 | 0.78  | 0.803 | 0.807 |
| 940           | 0.044         | 0.07  | 0.138 | 0.184 | 0.208 | 0.17  | 0.215 | 0.24 | 0.245 | 0.292 | 0.401 | 0.444 | 0.468 | 0.515 | 0.583 | 0.586 | 0.633 | 0.7  | 0.746 | 0.771 | 0.815 | 0.839 | 0.843 |
| 980           | 0.046         | 0.073 | 0.144 | 0.192 | 0.217 | 0.177 | 0.224 | 0.25 | 0.255 | 0.304 | 0.418 | 0.463 | 0.488 | 0.537 | 0.608 | 0.611 | 0.66  | 0.73 | 0.778 | 0.804 | 0.85  | 0.875 | 0.879 |

## Pressure loss and sound power level



| Calculation formula                | Correction factor $K_p$ |     |      |     |
|------------------------------------|-------------------------|-----|------|-----|
|                                    | 0°                      | 22° | 45°  |     |
| $\Delta P_p = \Delta P \times K_p$ | $K_p$                   | 1   | 1.25 | 1.5 |

| Calculation formula         | Correction factor K        |      |      |      |     |     |     |
|-----------------------------|----------------------------|------|------|------|-----|-----|-----|
|                             | $S_{ap}$ [m <sup>2</sup> ] | 0.01 | 0.02 | 0.05 | 0.1 | 0.2 | 0.4 |
| $L_{WA} = L_{WAO} \times K$ | K [dBA]                    | -9   | -6   | -3   | 0   | +3  | +6  |

### Designation:

$\Delta P_p$  – pressure loss at various vane positions [Pa]

$\Delta P$  – pressure loss [Pa]

$K_p$  – correction factor for pressure loss calculation depending on louvre deflection angle

$L_{WA}$  – sound power level [dBA]

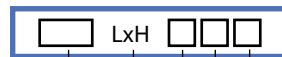
$L_{WAO}$  – sound power level for air pass 0.1 m<sup>2</sup> [dBA]

K – correction factor for sound power level calculation depending on air pass [dBA]

$S_{ap}$  – air pass [m<sup>2</sup>]

V – rated speed [m/s]

## Order code



### Grille type:

RGS – gravity grille

### Grille size:

L – length [mm]

H – height [mm]

### Grille coating:

"\_" – colour\* (white by default)

"Anodized"

### Accessories:

\_\_ – no

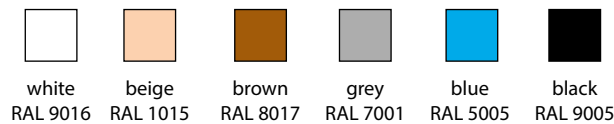
A – adapter

### Grille fixation:

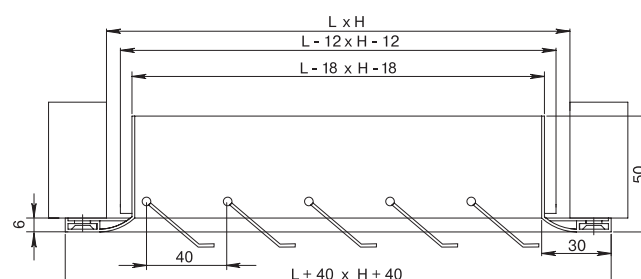
u – versatile

P – spring

### \* Standard polymer coating colours:



## Overall and mounting dimensions



## Series GRM



Ventilation grille with gravity shutters

### ■ Application

- Exhaust ventilation, heating and air conditioning networks in industrial, commercial and domestic premises.

### ■ Design

- Made of high-quality metal shape with polymer coating
- Polymer or anodized grille coating ensures weather-resistant properties.
- Shutters are made of PVC plastic.
- Non-standard sizes may be ordered.

### ■ Modifications

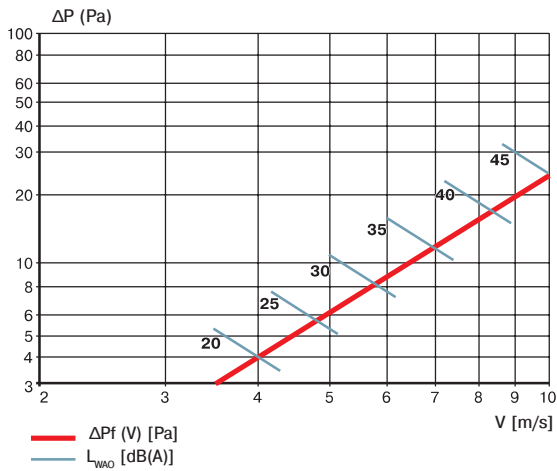
- Available modifications with an adapter (A) for connection to air ducts.
- Available modifications with versatile fixing (u) or with special springs (p) for fast mounting.

## Standard size [mm]

| Model   | Inner cross section size | L   | L1  | L2  | e     |
|---------|--------------------------|-----|-----|-----|-------|
| GRM 200 | 116x116                  | 200 | 150 | 136 | –     |
| GRM 250 | 166x166                  | 250 | 200 | 186 | –     |
| GRM 285 | 200x200                  | 284 | 234 | 220 | –     |
| GRM 300 | 216x216                  | 300 | 250 | 236 | –     |
| GRM 335 | 250x250                  | 334 | 284 | 270 | –     |
| GRM 350 | 266x266                  | 350 | 300 | 286 | –     |
| GRM 385 | 300x300                  | 384 | 334 | 320 | –     |
| GRM 400 | 316x316                  | 400 | 350 | 336 | –     |
| GRM 435 | 350x350                  | 434 | 384 | 370 | –     |
| GRM 450 | 366x366                  | 450 | 400 | 386 | –     |
| GRM 485 | 400x400                  | 484 | 434 | 420 | –     |
| GRM 535 | 450x450                  | 534 | 484 | 470 | –     |
| GRM 550 | 466x466                  | 550 | 500 | 486 | –     |
| GRM 585 | 500x500                  | 584 | 534 | 520 | 257.0 |
| GRM 635 | 550x550                  | 634 | 584 | 570 | 282.0 |
| GRM 655 | 571x571                  | 655 | 605 | 591 | 292.5 |
| GRM 685 | 601x601                  | 685 | 635 | 621 | 307.5 |
| GRM 715 | 630x630                  | 714 | 664 | 650 | 322.0 |
| GRM 725 | 641x641                  | 725 | 675 | 661 | 327.5 |
| GRM 805 | 721x721                  | 805 | 755 | 741 | 367.5 |
| GRM 835 | 751x751                  | 835 | 785 | 771 | 382.5 |



## Pressure loss and sound power level



| Calculation formula                | Correction factor $K_p$ |     |      |     |
|------------------------------------|-------------------------|-----|------|-----|
|                                    | 0°                      | 22° | 45°  |     |
| $\Delta P_p = \Delta P \times K_p$ | $K_p$                   | 1   | 1.25 | 1.5 |

| Calculation formula         | Correction factor $K$      |      |      |      |     |     |     |
|-----------------------------|----------------------------|------|------|------|-----|-----|-----|
|                             | $S_{ap}$ [m <sup>2</sup> ] | 0.01 | 0.02 | 0.05 | 0.1 | 0.2 | 0.4 |
| $L_{WA} = L_{wAO} \times K$ | $K$ [dBA]                  | -9   | -6   | -3   | 0   | +3  | +6  |

### Designation:

$\Delta P_p$  – pressure loss at various vane positions [Pa]

$\Delta P$  – pressure loss [Pa]

$K_p$  – correction factor for pressure loss calculation depending on louvre deflection angle

$L_{WA}$  – sound power level [dBA]

$L_{wAO}$  – sound power level for air pass 0.1 m<sup>2</sup> [dBA]

$K$  – correction factor for sound power level calculation depending on air pass [dBA]

$S_{ap}$  – air pass [m<sup>2</sup>]

$V$  – rated speed [m/s]

## Order code



**Grille type:**  
GRM – gravity grille

**Grille size:**  
L – outer size [mm]

**Grille coating:**  
"\_\_\_" – colour\* (white by default)

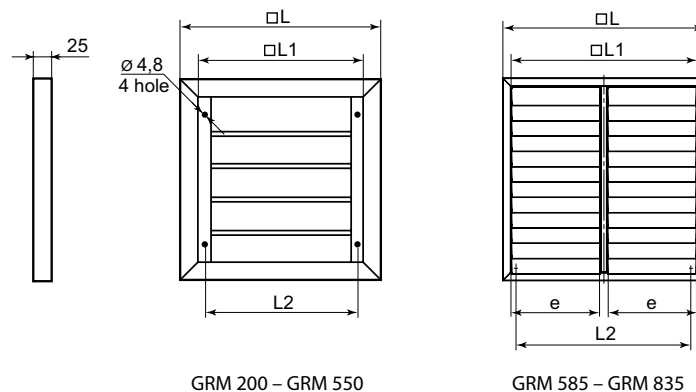
**Accessories:**  
\_\_\_ – no  
A – adapter

**Grille fixation:**  
u – versatile  
p – springs

\* Standard polymer coating colours:



## Overall and mounting dimensions



## Series DVK



Swirl diffusers

### Application

- Supply and exhaust ventilation, heating and air conditioning networks in industrial, commercial and domestic premises.

### Design

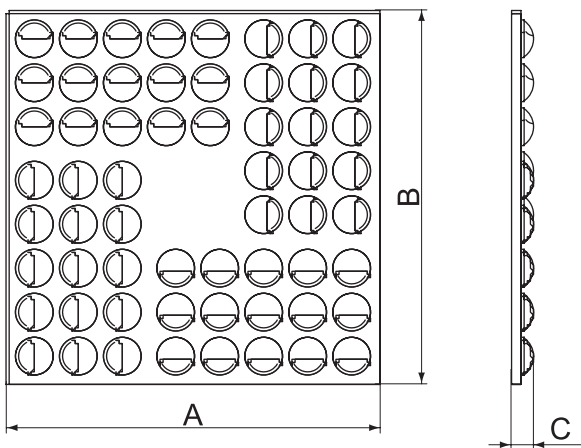
- The base made of high-quality polymer coated steel, the plastic inserts.
- Non-standard sizes may be ordered.

### Modifications

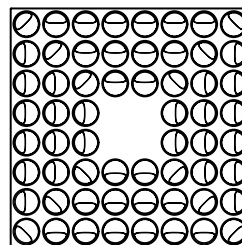
- Suspended ceiling mounting.
- Air flow direction adjustment.

### Overall and mounting dimensions [mm]

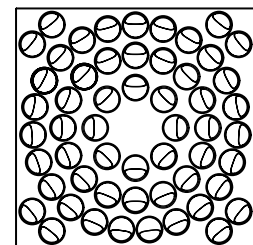
| Type    | A   | B   | C  | Air pass [m <sup>2</sup> ] |
|---------|-----|-----|----|----------------------------|
| DVK 295 | 295 | 295 | 25 | 0.015                      |
| DVK 305 | 305 | 305 | 25 | 0.015                      |
| DVK 395 | 395 | 395 | 25 | 0.030                      |
| DVK 445 | 445 | 445 | 25 | 0.030                      |
| DVK 495 | 495 | 495 | 25 | 0.050                      |
| DVK 595 | 595 | 595 | 25 | 0.075                      |
| DVK 620 | 620 | 620 | 25 | 0.075                      |
| DVK 695 | 695 | 695 | 25 | 0.075                      |
| DVK 795 | 795 | 795 | 25 | 0.075                      |



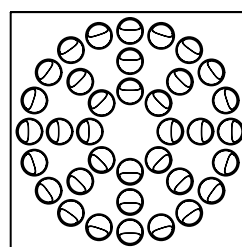
DVK2



DVK1



DVK3



DVK4

## Series DVP



Swirl diffusers

### Application

- Supply and exhaust ventilation, heating and air conditioning networks in industrial, commercial and domestic premises.

### Design

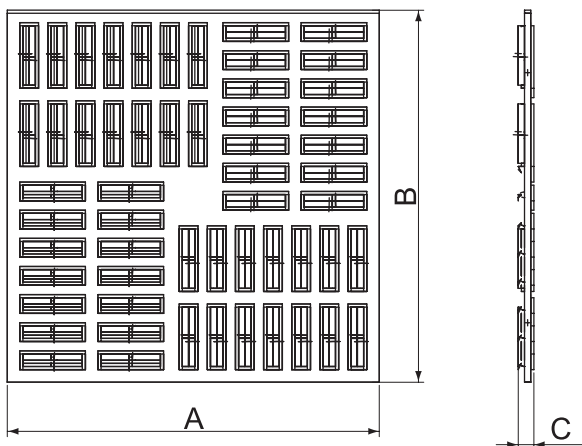
- The base made of high-quality polymer coated steel, the plastic inserts.
- Non-standard sizes may be ordered.

### Modifications

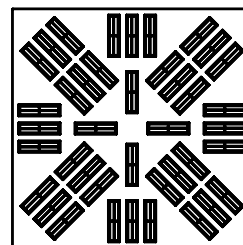
- Suspended ceiling mounting.
- Air flow direction adjustment

## Overall and mounting dimensions [mm]

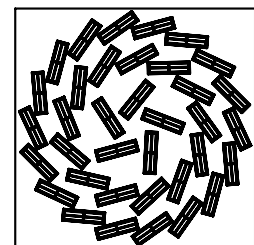
| Type    | A   | B   | C  | Air pass [m <sup>2</sup> ] | Number of inserts |
|---------|-----|-----|----|----------------------------|-------------------|
| DVP 295 | 295 | 295 | 25 | 0.010                      | 8                 |
| DVP 305 | 305 | 305 | 25 | 0.010                      | 8                 |
| DVP 395 | 395 | 395 | 25 | 0.018                      | 15                |
| DVP 445 | 445 | 445 | 25 | 0.026                      | 21                |
| DVP 495 | 495 | 495 | 25 | 0.029                      | 24                |
| DVP 595 | 595 | 595 | 25 | 0.044                      | 36                |
| DVP 620 | 620 | 620 | 25 | 0.044                      | 36                |
| DVP 695 | 695 | 695 | 25 | 0.046                      | 38                |
| DVP 795 | 795 | 795 | 25 | 0.073                      | 60                |



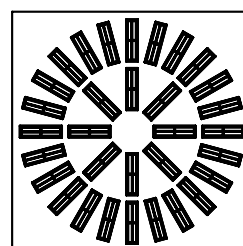
DVP1



DVP2

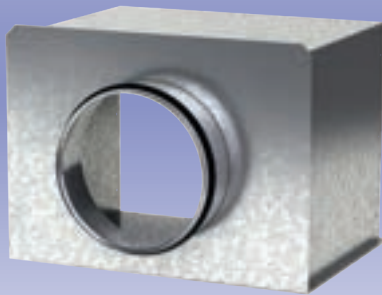


DVP3



DVP4

## Adapter A DP



### Application

- For connection of the square ceiling diffusers DP to round air ducts.

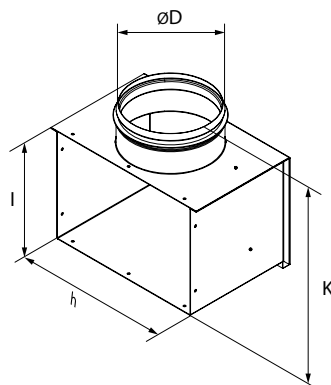
### Design

- Made of galvanized steel.
- Equipped with a sealing ring for tight connection to air ducts.
- Two modifications: vertical and horizontal connection to the air duct.

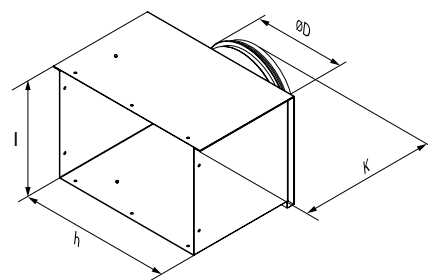
### Overall and mounting dimensions of the adapter for ceiling diffusers

| Order code (grille size, mm) | l [mm] | h [mm] | øD [mm] | K [mm] | Weight [kg] |
|------------------------------|--------|--------|---------|--------|-------------|
| Ab DP 225x225/100            | 113.6  | 113.6  | 100     | 178.6  | 0.62        |
| Av DP 225x225/100            | 113.6  | 113.6  | 100     | 205.2  | 0.62        |
| Ab DP 260x260/100            | 148.6  | 148.6  | 100     | 213.6  | 0.83        |
| Av DP 260x260/100            | 148.6  | 148.6  | 100     | 205.2  | 0.83        |
| Ab DP 260x260/125            | 148.6  | 148.6  | 125     | 213.6  | 0.92        |
| Av DP 260x260/125            | 148.6  | 148.6  | 125     | 230.2  | 0.92        |
| Ab DP 300x300/150            | 188.6  | 188.6  | 150     | 253.6  | 1.3         |
| Av DP 300x300/150            | 188.6  | 188.6  | 150     | 255.2  | 1.3         |
| Ab DP 325x325/100            | 213.6  | 213.6  | 100     | 278.6  | 1.2         |
| Av DP 325x325/100            | 213.6  | 213.6  | 100     | 205.2  | 1.2         |
| Ab DP 325x325/160            | 213.6  | 213.6  | 160     | 278.6  | 1.56        |
| Av DP 325x325/160            | 213.6  | 213.6  | 160     | 265.2  | 1.56        |
| Ab DP 394x260/125            | 282.6  | 148.6  | 125     | 213.6  | 1.22        |
| Av DP 394x260/125            | 282.6  | 148.6  | 125     | 205.2  | 1.22        |
| Ab DP 394x325/150            | 282.6  | 213.6  | 150     | 278.6  | 1.9         |
| Av DP 394x325/150            | 282.6  | 213.6  | 150     | 276.2  | 1.9         |
| Ab DP 394x394/100            | 282.6  | 282.6  | 100     | 347.6  | 1.74        |
| Av DP 394x394/100            | 282.6  | 282.6  | 100     | 205.2  | 1.74        |
| Ab DP 394x394/200            | 282.6  | 282.6  | 200     | 347.6  | 2.4         |
| Av DP 394x394/200            | 282.6  | 282.6  | 200     | 305.2  | 2.4         |
| Ab DP 460x260/125            | 348.6  | 148.6  | 125     | 213.6  | 1.41        |
| Av DP 460x260/125            | 348.6  | 148.6  | 125     | 205.2  | 1.41        |
| Ab DP 460x325/150            | 348.6  | 213.6  | 150     | 278.6  | 2.2         |
| Av DP 460x325/150            | 348.6  | 213.6  | 150     | 276.2  | 2.2         |
| Ab DP 460x394/250            | 348.6  | 282.6  | 250     | 347.6  | 3.02        |
| Av DP 460x394/250            | 348.6  | 282.6  | 250     | 346.2  | 3.02        |
| Ab DP 460x460/100            | 348.6  | 348.6  | 100     | 413.6  | 2.28        |
| Av DP 460x460/100            | 348.6  | 348.6  | 100     | 205.2  | 2.28        |
| Ab DP 460x460/200            | 348.6  | 348.6  | 200     | 413.6  | 3.12        |
| Av DP 460x460/200            | 348.6  | 348.6  | 200     | 305.2  | 3.12        |

| Order code (grille size, mm) | l [mm] | h [mm] | øD [mm] | K [mm] | Weight [kg] |
|------------------------------|--------|--------|---------|--------|-------------|
| Ab DP 460x460/250            | 348.6  | 348.6  | 250     | 413.6  | 3.5         |
| Av DP 460x460/250            | 348.6  | 348.6  | 250     | 355.2  | 3.5         |
| Ab DP 530x260/125            | 418.6  | 148.6  | 125     | 213.6  | 1.62        |
| Av DP 530x260/125            | 418.6  | 148.6  | 125     | 205.2  | 1.62        |
| Ab DP 530x325/150            | 418.6  | 213.6  | 150     | 278.6  | 2.5         |
| Av DP 530x325/150            | 418.6  | 213.6  | 150     | 276.2  | 2.5         |
| Ab DP 530x394/250            | 418.6  | 282.6  | 250     | 347.6  | 3.4         |
| Av DP 530x394/250            | 418.6  | 282.6  | 250     | 346.2  | 3.4         |
| Ab DP 530x460/315            | 418.6  | 348.6  | 315     | 413.6  | 4.4         |
| Av DP 530x460/315            | 418.6  | 348.6  | 315     | 416.2  | 4.4         |
| Ab DP 596x596/160            | 484.6  | 484.6  | 160     | 549.6  | 4.2         |
| Av DP 596x596/160            | 484.6  | 484.6  | 160     | 265.2  | 4.2         |
| Ab DP 596x596/315            | 484.6  | 484.6  | 315     | 549.6  | 5.98        |
| Av DP 596x596/315            | 484.6  | 484.6  | 315     | 420.2  | 5.98        |
| Ab DP 596x260/125            | 488.6  | 148.6  | 125     | 213.6  | 1.82        |
| Av DP 596x260/125            | 488.6  | 148.6  | 125     | 205.2  | 1.82        |
| Ab DP 596x325/150            | 488.6  | 213.6  | 150     | 278.6  | 2.79        |
| Av DP 596x325/150            | 488.6  | 213.6  | 150     | 276.2  | 2.79        |
| Ab DP 596x394/250            | 488.6  | 282.6  | 250     | 347.6  | 3.8         |
| Av DP 596x394/250            | 488.6  | 282.6  | 250     | 346.2  | 3.8         |
| Ab DP 596x460/315            | 488.6  | 348.6  | 315     | 413.6  | 4.9         |
| Av DP 596x460/315            | 488.6  | 348.6  | 315     | 416.2  | 4.9         |
| Ab DP 596x530/315            | 488.6  | 418.6  | 315     | 483.6  | 5.45        |
| Av DP 596x530/315            | 488.6  | 418.6  | 315     | 416.2  | 5.45        |
| Ab DP 620x620/250            | 508.6  | 508.6  | 250     | 573.6  | 6.75        |
| Av DP 620x620/250            | 508.6  | 508.6  | 250     | 455.2  | 6.75        |
| Ab DP 695x695/315            | 583.6  | 583.6  | 315     | 648.6  | 8.04        |
| Av DP 695x695/315            | 583.6  | 583.6  | 315     | 455.2  | 8.04        |
| Ab DP 795x795/315            | 683.6  | 683.6  | 315     | 748.6  | 9.88        |
| Av DP 795x795/315            | 683.6  | 683.6  | 315     | 455.2  | 9.88        |

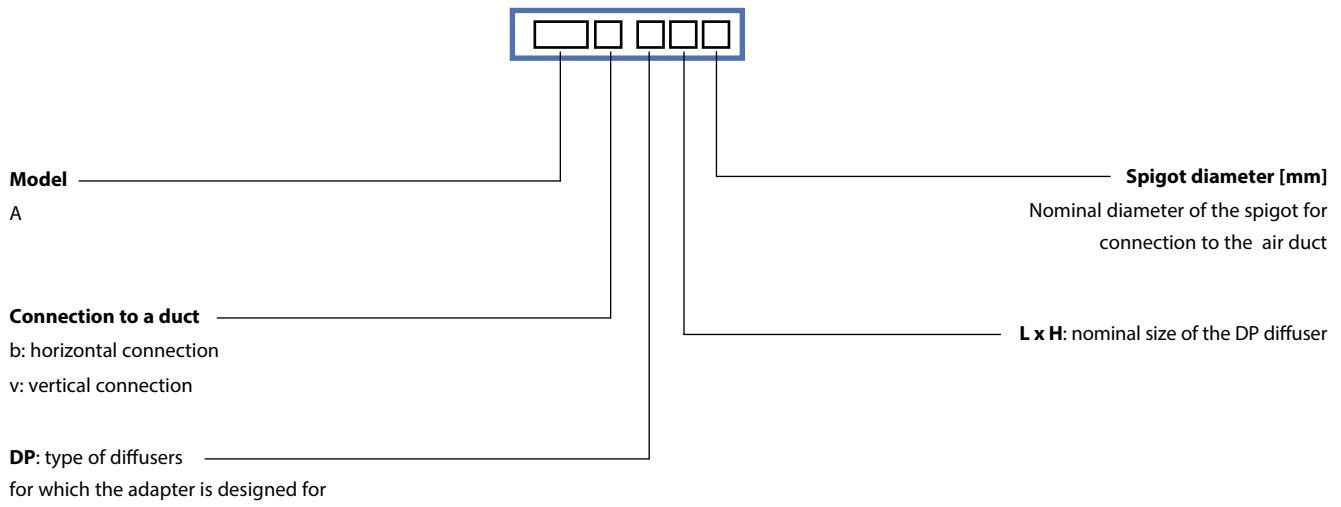


Horizontal adapter

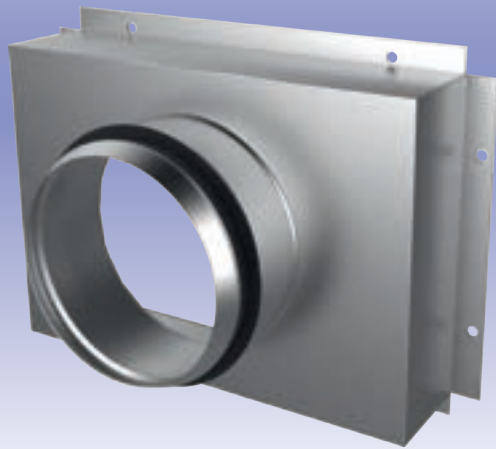


Vertical adapter

## Order generation system



## Adapter A DR/ORK



### Application

- For connection of the ORK and DR grilles to round air ducts.

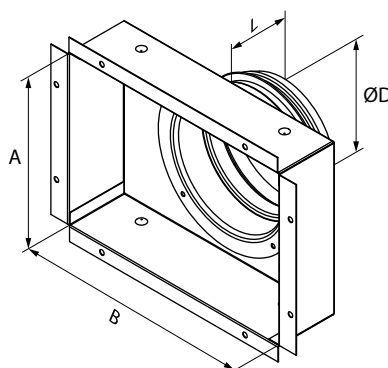
### Design

- Made of galvanised steel.
- Equipped with a sealing ring for tight connection to air ducts.
- One modification: vertical connection to the air duct.

### Overall and mounting dimensions of the adapter for ceiling diffusers:

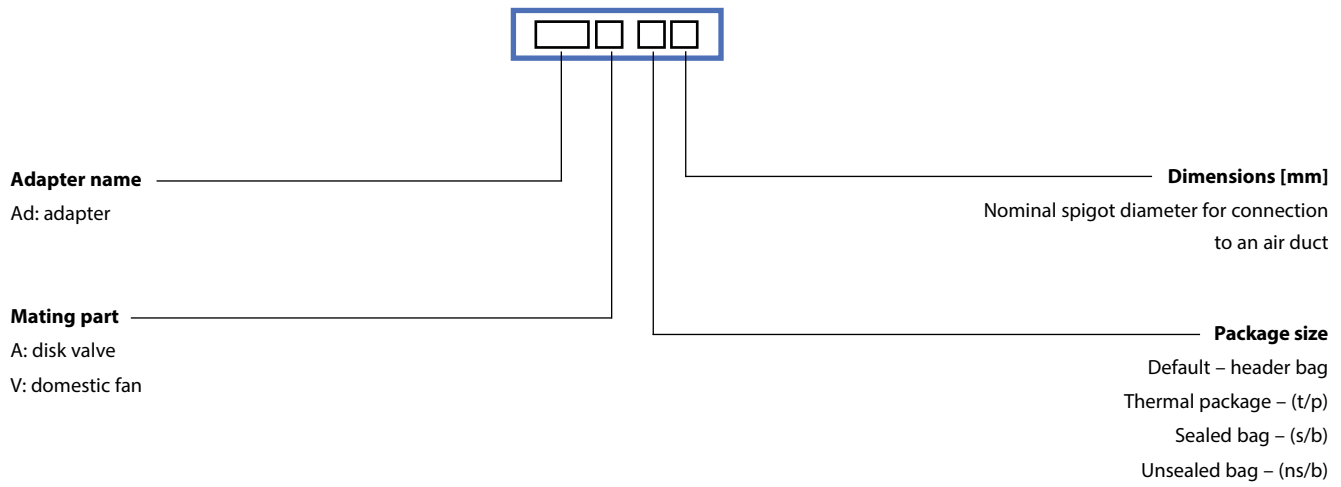
| Code (grille size, mm) | a [mm] | b [mm] | ØD [mm] | Weight [kg] |
|------------------------|--------|--------|---------|-------------|
| Av ORV 100x100/80      | 120.2  | 123.2  | 81      | 0.2         |
| Av ORV 150x100/80      | 120.2  | 183.2  | 81      | 0.25        |
| Av ORV 200x100/80      | 120.2  | 223.2  | 81      | 0.29        |
| Av ORV 250x100/80      | 120.2  | 283.2  | 81      | 0.33        |
| Av ORV 300x100/80      | 120.2  | 323.2  | 81      | 0.37        |
| Av ORV 350x100/80      | 120.2  | 383.2  | 81      | 0.42        |
| Av ORV 400x100/80      | 120.2  | 423.2  | 81      | 0.46        |
| Av ORV 450x100/80      | 120.2  | 483.2  | 81      | 0.5         |
| Av ORV 500x100/80      | 120.2  | 523.2  | 81      | 0.55        |
| Av ORV 550x100/80      | 120.2  | 583.2  | 81      | 0.59        |
| Av ORV 600x100/80      | 120.2  | 623.2  | 81      | 0.63        |
| Av ORV 150x150/125     | 170.2  | 183.2  | 126     | 0.32        |
| Av ORV 200x150/125     | 170.2  | 223.2  | 126     | 0.37        |
| Av ORV 250x150/125     | 170.2  | 283.2  | 126     | 0.43        |
| Av ORV 300x150/125     | 170.2  | 323.2  | 126     | 0.48        |
| Av ORV 350x150/125     | 170.2  | 383.2  | 126     | 0.53        |
| Av ORV 400x150/125     | 170.2  | 423.2  | 126     | 0.59        |
| Av ORV 450x150/125     | 170.2  | 483.2  | 126     | 0.64        |
| Av ORV 500x150/125     | 170.2  | 523.2  | 126     | 0.69        |
| Av ORV 550x150/125     | 170.2  | 583.2  | 126     | 0.75        |
| Av ORV 600x150/125     | 170.2  | 623.2  | 126     | 0.8         |
| Av ORV 200x200/150     | 220.2  | 223.2  | 151     | 0.45        |
| Av ORV 250x200/150     | 220.2  | 283.2  | 151     | 0.51        |
| Av ORV 300x200/150     | 220.2  | 323.2  | 151     | 0.58        |
| Av ORV 350x200/150     | 220.2  | 283.2  | 151     | 0.64        |
| Av ORV 400x200/150     | 220.2  | 423.2  | 151     | 0.7         |
| Av ORV 450x200/150     | 220.2  | 483.2  | 151     | 0.77        |
| Av ORV 500x200/150     | 220.2  | 523.2  | 151     | 0.83        |
| Av ORV 550x200/150     | 220.2  | 583.2  | 151     | 0.89        |
| Av ORV 600x200/150     | 220.2  | 623.2  | 151     | 0.95        |
| Av ORV 250x250/150     | 270.2  | 283.2  | 201     | 0.6         |
| Av ORV 300x250/150     | 270.2  | 323.2  | 201     | 0.66        |
| Av ORV 350x250/150     | 270.2  | 383.2  | 201     | 0.74        |
| Av ORV 400x250/150     | 270.2  | 423.2  | 201     | 0.81        |
| Av ORV 450x250/150     | 270.2  | 483.2  | 201     | 0.88        |

| Code (grille size, mm) | a [mm] | b [mm] | ØD [mm] | Weight [kg] |
|------------------------|--------|--------|---------|-------------|
| Av ORV 500x250/150     | 270.2  | 523.2  | 201     | 0.96        |
| Av ORV 550x250/150     | 270.2  | 583.2  | 201     | 1.03        |
| Av ORV 600x250/150     | 270.2  | 623.2  | 201     | 1.1         |
| Av ORV 300x300/200     | 320.2  | 323.2  | 201     | 0.75        |
| Av ORV 350x300/200     | 320.2  | 383.2  | 201     | 0.83        |
| Av ORV 400x300/200     | 320.2  | 423.2  | 201     | 0.91        |
| Av ORV 450x300/200     | 320.2  | 483.2  | 201     | 0.99        |
| Av ORV 500x300/200     | 320.2  | 523    | 201     | 1.08        |
| Av ORV 550x300/200     | 320.2  | 573    | 201     | 1.16        |
| Av ORV 600x300/200     | 320.2  | 623    | 201     | 1.24        |
| Av ORV 350x350/315     | 370.6  | 373    | 316     | 0.87        |
| Av ORV 400x350/315     | 370.6  | 423    | 316     | 0.97        |
| Av ORV 450x350/315     | 370.6  | 473    | 316     | 1.06        |
| Av ORV 500x350/315     | 370.6  | 523    | 316     | 1.15        |
| Av ORV 550x350/315     | 370.6  | 573    | 316     | 1.25        |
| Av ORV 600x350/315     | 370.6  | 623    | 316     | 1.34        |
| Av ORV 400x400/350     | 420.6  | 423    | 350     | 0.97        |
| Av ORV 450x400/350     | 420.6  | 473    | 350     | 1.07        |
| Av ORV 500x400/350     | 420.6  | 523    | 350     | 1.18        |
| Av ORV 550x400/350     | 420.6  | 573    | 350     | 1.28        |
| Av ORV 600x400/350     | 420.6  | 623    | 350     | 1.38        |
| Av ORV 450x450/400     | 470.6  | 473    | 400     | 1.29        |
| Av ORV 500x450/400     | 470.6  | 523    | 400     | 1.4         |
| Av ORV 550x450/400     | 470.6  | 573    | 400     | 1.51        |
| Av ORV 600x450/400     | 470.6  | 623    | 400     | 1.62        |
| Av ORV 500x500/400     | 520.6  | 523    | 400     | 1.52        |
| Av ORV 550x500/400     | 520.6  | 573    | 400     | 1.64        |
| Av ORV 600x500/400     | 520.6  | 623    | 400     | 1.77        |
| Av ORV 200x140/100     | 320.6  | 423    | 101     | 0.89        |
| Av ORV 240x140/100     | 220.6  | 232    | 101     | 0.56        |
| Av ORV 400x300/100     | 220.6  | 423    | 101     | 0.68        |
| Av ORV 300x200/100     | 170.6  | 273    | 101     | 0.42        |
| Av ORV 400x200/100     | 470.6  | 473    | 400     | 1.29        |
| Av ORV 250x150/100     | 420.6  | 523    | 400     | 1.4         |





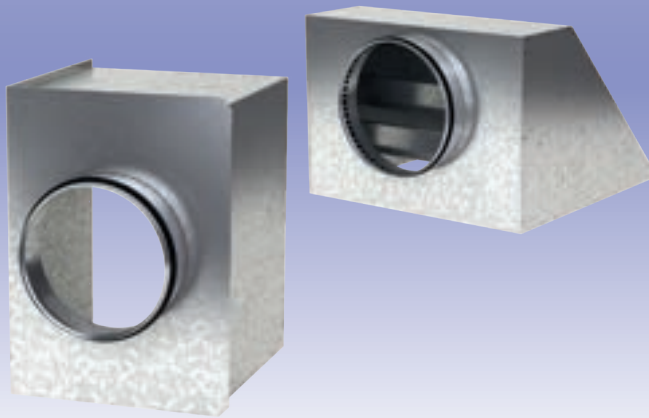
### ■ Adapter designation guide



### ■ Designation example

| Short name     | Full name              | Description   |
|----------------|------------------------|---|
| Ad A 100       | Ad A 100 adapter       | Adapter for a disk valve 100 mm in diameter, packing – header bag   |
| Ad V 150 (s/b) | Ad V 150 (s/b) adapter | Adapter for a domestic fan 150 mm in diameter, packing – sealed bag |

## Adapter A DVK/DVP



### Application

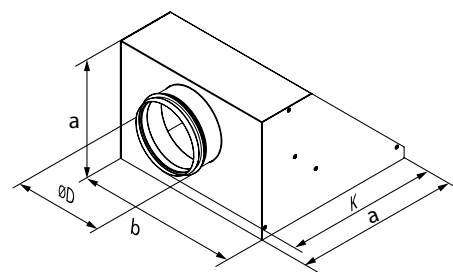
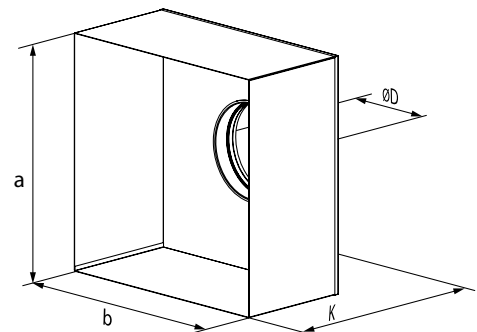
- For connection of the square ceiling diffusers DVP and DVK to round air ducts.

### Design

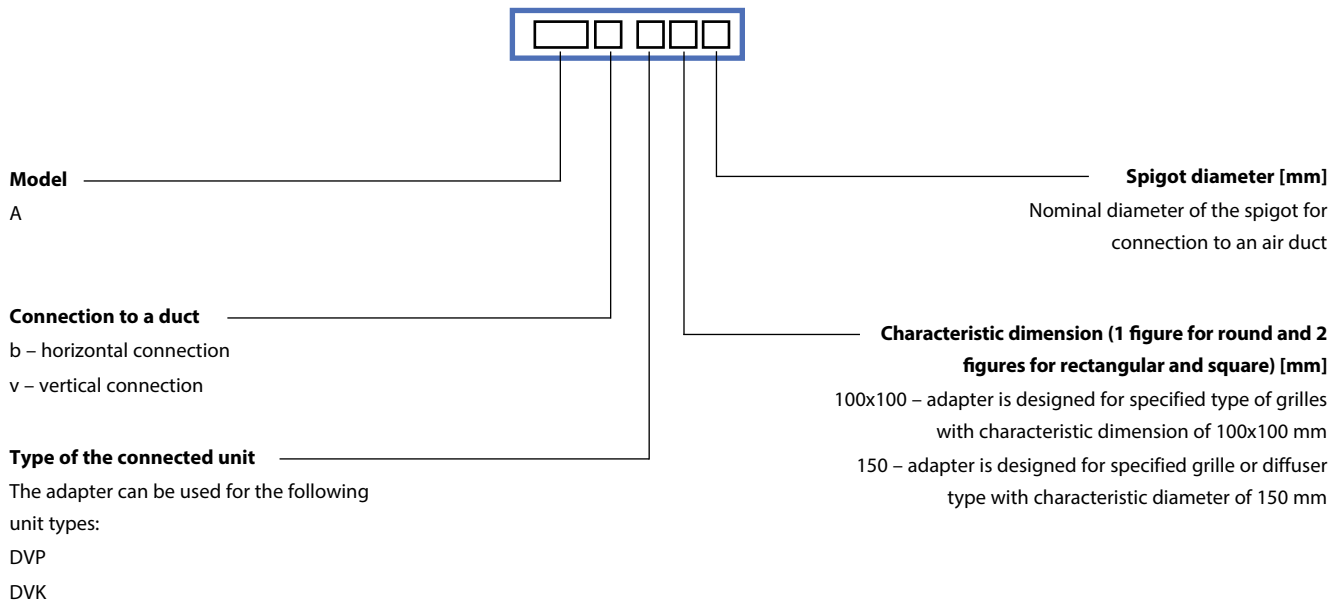
- Made of galvanized steel.
- Equipped with a sealing ring for tight connection to air ducts.
- Two modifications: vertical and horizontal connection to an air duct.

## Overall dimensions and mounting dimensions of the adapter for ceiling diffusers

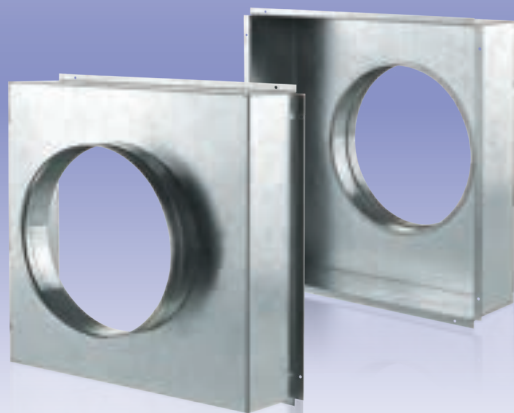
| Order code (grille size, mm) | a [mm] | b [mm] | ØD [mm] | K [mm] | Weight [kg] |
|------------------------------|--------|--------|---------|--------|-------------|
| Ab DVP/DVK 295x295/125       | 292.6  | 292.6  | 125     | 347    | 1.42        |
| Av DVP/DVK 295 x295/125      | 292.6  | 292.6  | 125     | 305.5  | 1.88        |
| Ab DVP/DVK 295x295/140       | 292.6  | 292.6  | 140     | 347    | 1.44        |
| Av DVP/DVK 295 x295/140      | 292.6  | 292.6  | 140     | 305.5  | 1.88        |
| Ab DVP/DVK 305x305/125       | 302.6  | 302.6  | 125     | 357    | 1.49        |
| Av DVP/DVK 305x305/125       | 302.6  | 302.6  | 125     | 305.5  | 1.96        |
| Ab DVP/DVK 305x305/140       | 302.6  | 302.6  | 140     | 357    | 1.51        |
| Av DVP/DVK 305x305/140       | 302.6  | 302.6  | 140     | 305.5  | 1.96        |
| Ab DVP/DVK 395x395/160       | 392.6  | 392.6  | 160     | 447    | 2.46        |
| Av DVP/DVK 395x395/160       | 392.6  | 392.6  | 160     | 305.5  | 2.69        |
| Ab DVP/DVK 395x395/200       | 392.6  | 392.6  | 200     | 447    | 2.52        |
| Av DVP/DVK 395x395/200       | 392.6  | 392.6  | 200     | 305.5  | 2.69        |
| Ab DVP/DVK 445x445/160       | 442.6  | 442.6  | 160     | 497    | 2.9         |
| Av DVP/DVK 445x445/160       | 442.6  | 442.6  | 160     | 305.5  | 3.1         |
| Ab DVP/DVK 445x445/200       | 442.6  | 442.6  | 200     | 497    | 2.9         |
| Av DVP/DVK 445x445/200       | 442.6  | 442.6  | 200     | 305.5  | 3.1         |
| Ab DVP/DVK 495x495/200       | 492.6  | 492.6  | 200     | 547    | 3.94        |
| Av DVP/DVK 495x495/200       | 492.6  | 492.6  | 200     | 305.5  | 3.59        |
| Ab DVP/DVK 495x495/250       | 492.6  | 492.6  | 250     | 547    | 4           |
| Av DVP/DVK 495x495/250       | 492.6  | 492.6  | 250     | 305.5  | 3.55        |
| Ab DVP/DVK 595x595/250       | 592.6  | 592.6  | 250     | 647    | 5.44        |
| Ab DVP/DVK 595x595/200       | 592.6  | 592.6  | 200     | 647    | 5.51        |
| Av DVP/DVK 595x595/250       | 592.6  | 592.6  | 250     | 305.5  | 4.55        |
| Ab DVP/DVK 595x595/315       | 592.6  | 592.6  | 315     | 647    | 5.55        |
| Av DVP/DVK 595x595/315       | 592.6  | 592.6  | 315     | 305.5  | 4.47        |
| Ab DVP/DVK 620x620/250       | 617.6  | 617.6  | 250     | 672    | 5.77        |
| Av DVP/DVK 620x620/250       | 617.6  | 617.6  | 250     | 305.5  | 4.81        |
| Ab DVP/DVK 620x620/315       | 617.6  | 617.6  | 315     | 672    | 5.89        |
| Av DVP/DVK 620x620/315       | 617.6  | 617.6  | 315     | 305.5  | 4.73        |
| Ab DVP/DVK 695x695/250       | 692.6  | 692.6  | 250     | 747    | 6.54        |
| Av DVP/DVK 695x695/250       | 692.6  | 692.6  | 250     | 305.5  | 5.64        |
| Ab DVP/DVK 695x695/315       | 692.6  | 692.6  | 315     | 747    | 6.63        |
| Av DVP/DVK 695x695/315       | 692.6  | 692.6  | 315     | 305.5  | 5.56        |
| Ab DVP/DVK 795x795/250       | 792.6  | 792.6  | 250     | 847    | 7.98        |
| Av DVP/DVK 795x795/250       | 792.6  | 792.6  | 250     | 305.5  | 6.83        |
| Ab DVP/DVK 795x795/315       | 792.6  | 792.6  | 315     | 847    | 8.13        |
| Av DVP/DVK 795x795/315       | 792.6  | 792.6  | 315     | 305.5  | 6.75        |



## Order generation system



## Adapter



### Application

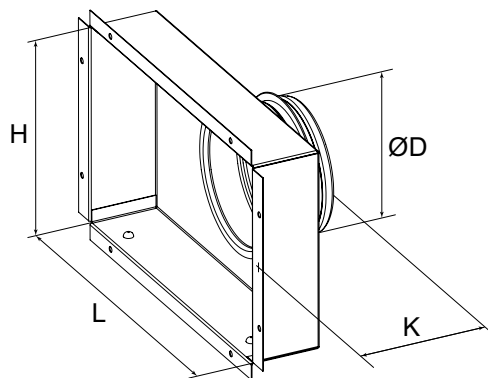
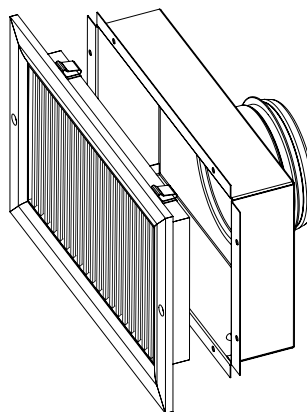
- For connection of the DP, ORH, ORV, ONH, ONV, ORK, ONL, ONS ventilation grilles with round air ducts.

### Design

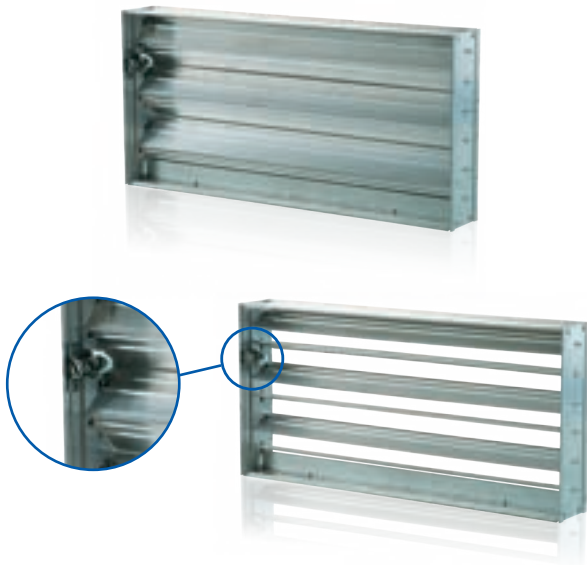
- Made of galvanized steel.
- Equipped with a sealing ring for tight connection to air ducts.

## Overall and mounting dimensions [mm]

| Order code (grille size [mm]) | L [mm] | H [mm] | ØD [mm] | K [mm] | Weight [kg] |     |       |
|-------------------------------|--------|--------|---------|--------|-------------|-----|-------|
| A (100x100)                   | 86.4   | 96.4   | 80      | 100    | 0.053       |     |       |
| A (100x150)                   | 86.4   | 146.4  |         |        | 0.081       |     |       |
| A (100x200)                   | 86.4   | 196.4  |         |        | 0.108       |     |       |
| A (100x250)                   | 86.4   | 246.4  |         |        | 0.136       |     |       |
| A (100x300)                   | 86.4   | 296.4  |         |        | 0.164       |     |       |
| A (100x350)                   | 86.4   | 346.4  |         |        | 0.191       |     |       |
| A (100x400)                   | 86.4   | 396.4  |         |        | 0.219       |     |       |
| A (100x450)                   | 86.4   | 446.4  |         |        | 0.246       |     |       |
| A (100x500)                   | 86.4   | 496.4  |         |        | 0.274       |     |       |
| A (150x150)                   | 136.4  | 146.4  |         |        | 125         | 100 | 0.128 |
| A (150x200)                   | 136.4  | 196.4  | 0.171   |        |             |     |       |
| A (150x250)                   | 136.4  | 246.4  | 0.215   |        |             |     |       |
| A (150x300)                   | 136.4  | 296.4  | 0.258   |        |             |     |       |
| A (150x350)                   | 136.4  | 346.4  | 0.302   |        |             |     |       |
| A (150x400)                   | 136.4  | 396.4  | 0.345   |        |             |     |       |
| A (150x450)                   | 136.4  | 446.4  | 0.389   |        |             |     |       |
| A (150x500)                   | 136.4  | 496.4  | 0.432   |        |             |     |       |
| A (150x600)                   | 136.4  | 596.4  | 0.519   |        |             |     |       |
| A (200x200)                   | 186.4  | 196.4  | 150     | 150    |             |     | 0.234 |
| A (200x250)                   | 186.4  | 246.4  |         |        | 0.293       |     |       |
| A (200x300)                   | 186.4  | 296.4  |         |        | 0.353       |     |       |
| A (200x350)                   | 186.4  | 346.4  |         |        | 0.412       |     |       |
| A (200x400)                   | 186.4  | 396.4  |         |        | 0.472       |     |       |
| A (200x450)                   | 186.4  | 446.4  |         |        | 0.531       |     |       |
| A (200x500)                   | 186.4  | 496.4  |         |        | 0.591       |     |       |
| A (200x600)                   | 186.4  | 596.4  |         |        | 0.710       |     |       |
| A (250x250)                   | 236.4  | 246.4  |         |        | 200         | 150 | 0.372 |
| A (250x300)                   | 236.4  | 296.4  |         |        |             |     | 0.447 |
| A (250x350)                   | 236.4  | 346.4  | 0.523   |        |             |     |       |
| A (250x400)                   | 236.4  | 396.4  | 0.598   |        |             |     |       |
| A (250x450)                   | 236.4  | 446.4  | 0.674   |        |             |     |       |
| A (250x500)                   | 236.4  | 496.4  | 0.749   |        |             |     |       |
| A (300x300)                   | 236.4  | 296.4  | 315     | 150    |             |     | 0.542 |
| A (300x350)                   | 236.4  | 346.4  |         |        |             |     | 0.634 |
| A (300x400)                   | 236.4  | 396.4  |         |        |             |     | 0.725 |
| A (300x450)                   | 236.4  | 446.4  |         |        |             |     | 0.816 |
| A (300x500)                   | 236.4  | 496.4  |         |        | 0.908       |     |       |
| A (300x600)                   | 236.4  | 596.4  |         |        | 1.091       |     |       |
| A (350x350)                   | 336.4  | 346.4  |         |        | 350         | 150 | 0.744 |
| A (350x400)                   | 336.4  | 396.4  |         |        |             |     | 0.852 |
| A (350x450)                   | 336.4  | 446.4  |         |        |             |     | 0.959 |
| A (350x500)                   | 336.4  | 496.4  |         |        |             |     | 1.066 |
| A (400x400)                   | 386.4  | 396.4  | 400     | 150    |             |     | 0.978 |
| A (400x450)                   | 386.4  | 446.4  |         |        |             |     | 1.102 |
| A (400x500)                   | 386.4  | 496.4  |         |        |             |     | 1.225 |
| A (450x450)                   | 436.4  | 446.4  |         |        |             |     | 1.244 |
| A (450x500)                   | 436.4  | 496.4  |         |        |             |     | 1.383 |
| A (500x500)                   | 486.4  | 496.4  |         |        |             |     | 1.542 |



## Air flow regulator



### Application

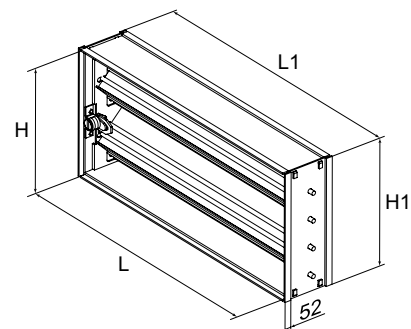
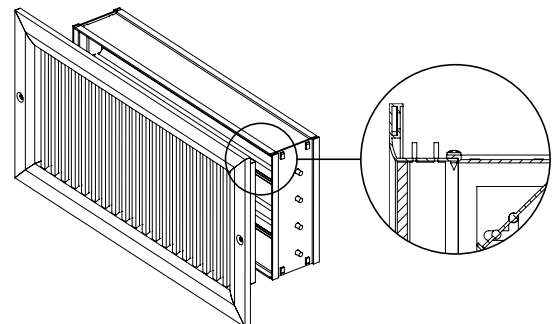
- Multi-vane air flow regulator with counter-rotated vanes is designed for air flow regulation of the DR, ORH, ORV, ONV, ORK, ONL, ONS ventilation grilles.

### Design

- Made of galvanized steel. The aluminium rotating vanes are turned due to plastic gears.
- Equipped with a limit position stopper regulated by a butterfly bolt.

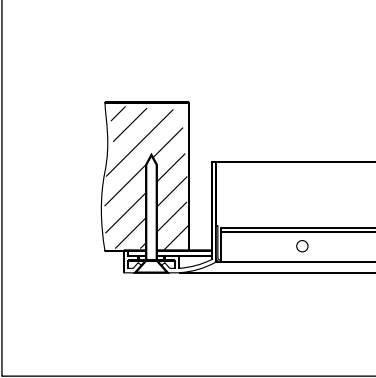
## Overall and mounting dimensions [mm]

| Order code (grille size [mm]) | L [mm] | H [mm] | L1 [mm] | H1 [mm] | Weight [kg] |       |       |
|-------------------------------|--------|--------|---------|---------|-------------|-------|-------|
| R (100x100)                   | 79     | 79     | 86      | 81.8    | 0.125       |       |       |
| R (100x150)                   | 129    |        | 136     |         | 0.168       |       |       |
| R (100x200)                   | 179    |        | 186     |         | 0.21        |       |       |
| R (100x250)                   | 229    |        | 236     |         | 0.253       |       |       |
| R (100x300)                   | 279    |        | 286     |         | 0.295       |       |       |
| R (100x350)                   | 329    |        | 336     |         | 0.343       |       |       |
| R (100x400)                   | 379    |        | 386     |         | 0.38        |       |       |
| R (100x450)                   | 429    |        | 436     |         | 0.425       |       |       |
| R (100x500)                   | 479    |        | 486     |         | 0.465       |       |       |
| R (150x150)                   | 129    |        | 129     |         | 136         | 131.8 | 0.235 |
| R (150x200)                   | 176    | 186    |         | 0.295   |             |       |       |
| R (150x250)                   | 226    | 236    |         | 0.355   |             |       |       |
| R (150x300)                   | 279    | 286    |         | 0.415   |             |       |       |
| R (150x350)                   | 329    | 336    |         | 0.475   |             |       |       |
| R (150x400)                   | 379    | 386    |         | 0.535   |             |       |       |
| R (150x450)                   | 429    | 436    |         | 0.295   |             |       |       |
| R (150x500)                   | 476    | 486    |         | 0.655   |             |       |       |
| R (150x600)                   | 579    | 586    |         | 0.775   |             |       |       |
| R (200x200)                   | 179    | 179    |         | 186     | 181.8       |       | 0.406 |
| R (200x250)                   | 229    |        | 236     | 0.477   |             |       |       |
| R (200x300)                   | 279    |        | 286     | 0.548   |             |       |       |
| R (200x350)                   | 329    |        | 336     | 0.619   |             |       |       |
| R (200x400)                   | 379    |        | 386     | 0.69    |             |       |       |
| R (200x450)                   | 429    |        | 436     | 0.761   |             |       |       |
| R (200x500)                   | 476    |        | 486     | 0.832   |             |       |       |
| R (200x600)                   | 579    |        | 586     | 1.0     |             |       |       |
| R (250x250)                   | 229    |        | 229     | 236     |             | 231.8 | 0.63  |
| R (250x300)                   | 279    |        |         | 286     |             |       | 0.7   |
| R (250x350)                   | 329    | 336    |         | 0.77    |             |       |       |
| R (250x400)                   | 379    | 386    |         | 0.84    |             |       |       |
| R (250x450)                   | 429    | 436    |         | 0.91    |             |       |       |
| R (250x500)                   | 479    | 486    |         | 0.98    |             |       |       |
| R (300x300)                   | 279    | 279    |         | 286     | 281.8       |       | 0.75  |
| R (300x350)                   | 329    |        |         | 336     |             |       | 0.855 |
| R (300x400)                   | 379    |        |         | 386     |             |       | 0.96  |
| R (300x450)                   | 429    |        |         | 436     |             |       | 1.065 |
| R (300x500)                   | 479    |        | 486     | 1.175   |             |       |       |
| R (300x600)                   | 579    |        | 586     | 1.39    |             |       |       |
| R (350x350)                   | 329    |        | 319     | 336     |             | 321.8 | 0.9   |
| R (350x400)                   | 379    |        |         | 386     |             |       | 1.13  |
| R (350x450)                   | 429    |        |         | 436     |             |       | 1.36  |
| R (350x500)                   | 479    |        |         | 486     |             |       | 1.59  |
| R (400x400)                   | 379    | 379    | 386     | 381.8   | 1.2         |       |       |
| R (400x450)                   | 429    |        | 436     |         | 1.43        |       |       |
| R (400x500)                   | 479    |        | 486     |         | 1.66        |       |       |
| R (450x450)                   | 429    |        | 429     |         | 436         | 431.8 | 1.52  |
| R (450x500)                   | 479    | 486    |         | 1.77    |             |       |       |
| R (500x500)                   | 479    | 486    |         | 481.8   | 2           |       |       |



## Standard fixing

Fixing with a mounting pair (not included into the delivery set)

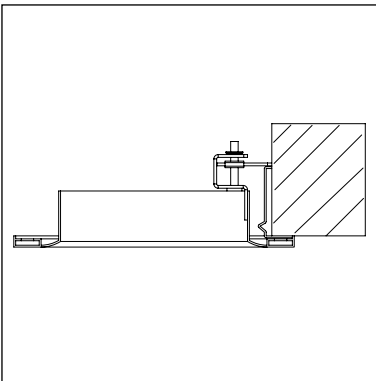


### Features:

- mounting pair: versatile screw 3.5x35 mm; nylon dowel 6x40 mm;
- used for grille fixation into concrete or brick walls;
- the screw head has the grille colour;
- cross-shaped slot.

## Versatile fixing

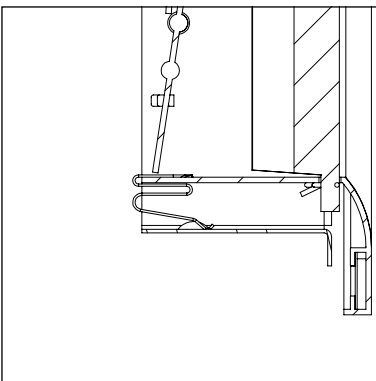
Fixing with a versatile lock fixed on the grille



### Features:

- versatile lock enables mounting into walls and ceilings
- easy mounting with a screw-driver
- concealed fixing.

## Spring fixation

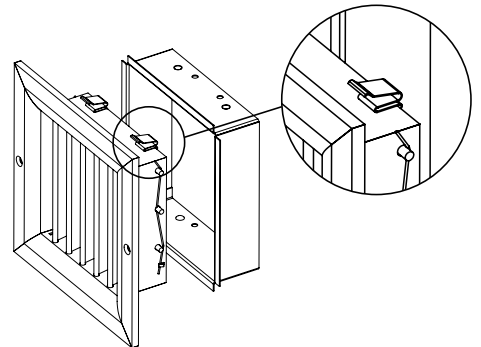


### Features:

- mounting into walls (no ceiling mounting);
- concealed fixing.

The mounting kit delivery set includes:

- flange for fixation of the grille into the wall opening;
- set of springs.





## ventilation systems

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Domestic ventilation



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