Ventilation unit
with heat and moisture recovery

FUTURA

Accessories catalog

CERTIFIED COMPONENT
Passive House Institute

ČLEN CENTRA PASIVNÍHO DOMU

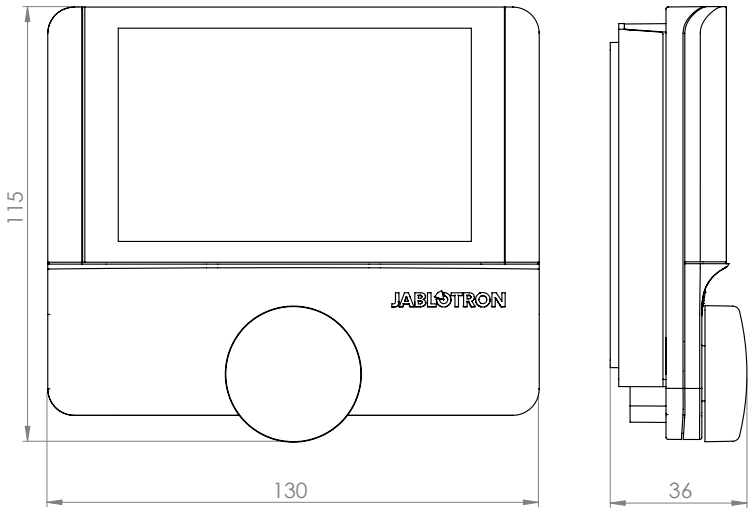
International PASSIVE HOUSE Association member iPHA

JABLOTRON
CREATING COMFORT

Contents

JABLOTRON
CREATING COMFORT

JLT_AL_S, JLT_AL_L



Alfa – wall-mounted control panel

Usage

Wall-mounted control panel enables control of the Futura ventilation unit, Volta electric boiler or Aura condensing gas boiler. It is equipped with CO_2, temperature and relative humidity sensors. Additional temperature sensor can be connected - for example a safety sensor for floor heating. The display also shows outdoor temperature and relative humidity values from connected device. E-ink display offers high contrast and great visibility even in direct sunlight.

Correction and calibration

Measured values can be corrected by entering correction values into Alfa's registries using ModbusTCP protocol. Registry specification is available to our installation partners.
CO_2 sensor is autocalibrated. Autocalibration runs continuously for seven days. To ensure correct autocalibration, the sensor should be exposed to fresh air for one hour per day.

Technical details

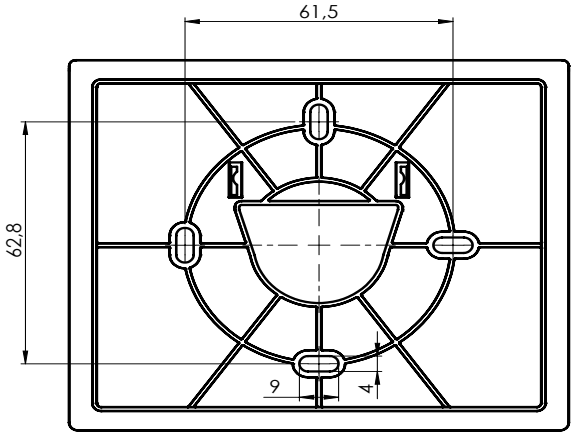
Material, color:	PC/ABS, white RAL9003
Dimensions:	130 × 115 × 36 mm
Temperature range and accuracy:	0–65 °C ±0,3 °C
Relative humidity range and accuracy:	0–100 % RH ±3 %
CO_2 range and accuracy:	0–10 000 PPM ±30 PPM (NDIR)
Power voltage and consumption:	24 VDC, 35 mA
Communication protocol:	ModbusRTU
Required parameters for ext'l sensor:	NTC 10 kΩ, B=3977

Any changes resulting from technical development are reserved.

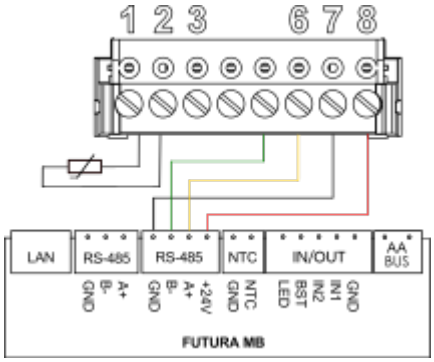
Variants

JLT_AL_S	Alfa S - panel with CO_2 sensor
JLT_AL_L	Alfa L - panel without CO_2 sensor

Dimensions



Connectors



1 ... NTC
2 ... NTC
3 ... Unused
4 ... Unused
5 ... RS485 B-
6 ... RS485 A+
7 ... GND
8 ... 24 VDC

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FU_ELE_04

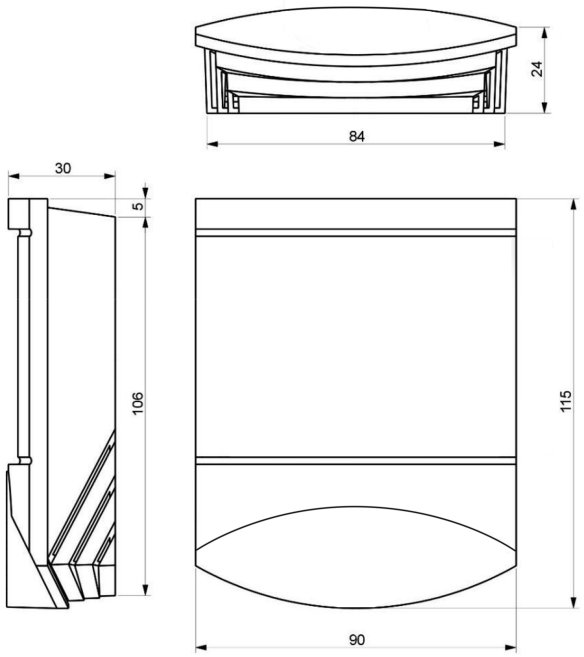
CO_2 sensor

Usage

NDIR sensor measures indoor CO_2 concentration.

Autocalibration

The sensor continuously monitors recorded values and requires the concentration of CO_2 to drop to outdoor air level (400 ppm) at least once every eight days. A concentration of 400 ppm is then assigned to the minimum recorded value. In specific cases, when the CO_2 concentration does not drop, the autocalibration function can be disabled.



Technical details

Interval:	0 - 5000 ppm
Measurement method:	NDIR (non-dispersive infrared)
Accuracy:	±50 ppm, ±3 % from measured value CO_2 measurement correction
Coverage:	IP20

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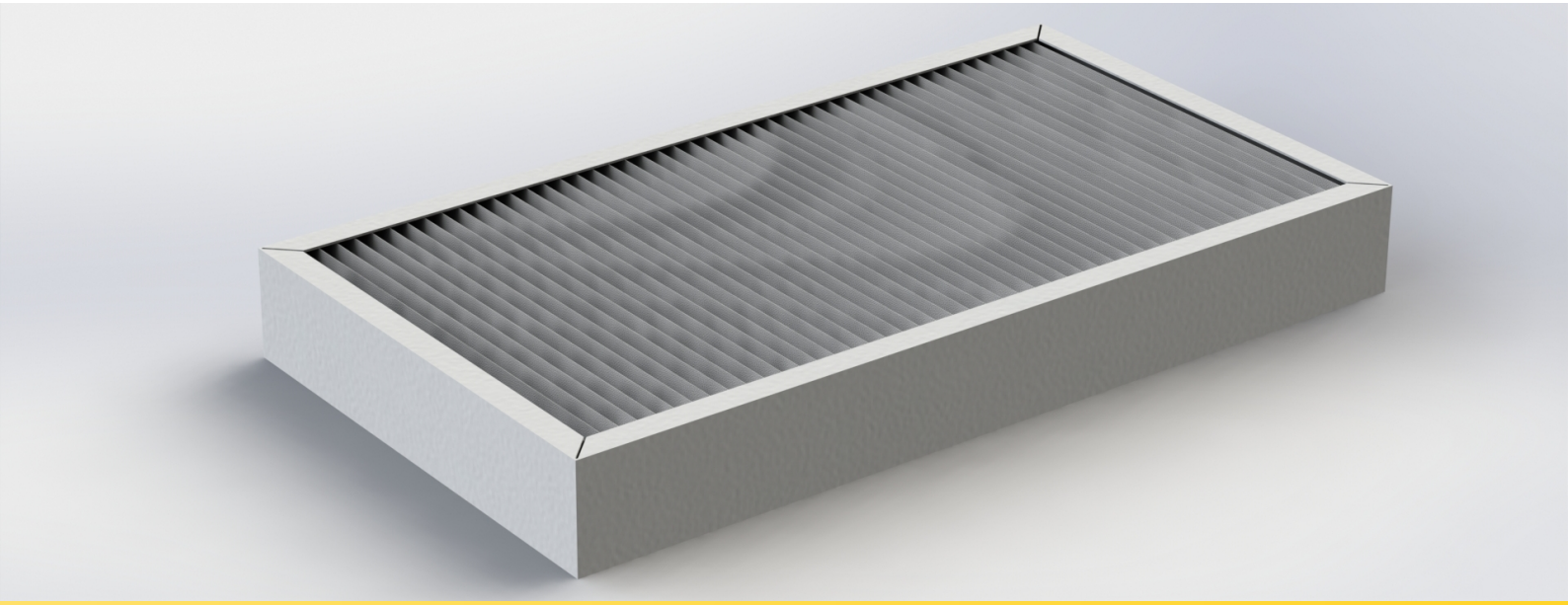
VZ_FIL_F702

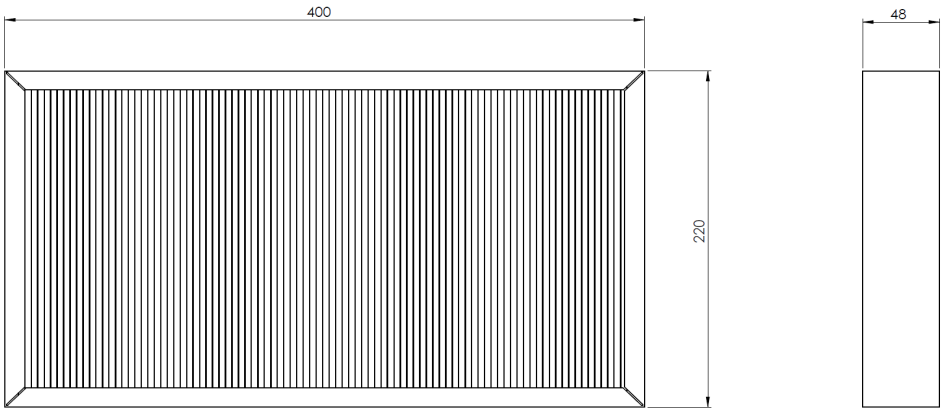


Filter - F7 / ePM1 55

Usage

Futura ventilation unit and CoolBreeze module use ePM1 55% filters. Filters are fitted at fresh air inlet and waste air extract. Regular change of both filters is necessary for correct operation of the ventilation unit.

Dimensions



Technical details

Filtration class:	ePM1 55% (F7 according to EN 779 norm)
Dimensions:	400 × 220 × 48 mm
Filter surface:	1,053 m^2
Filtration material:	polypropylene, polyester

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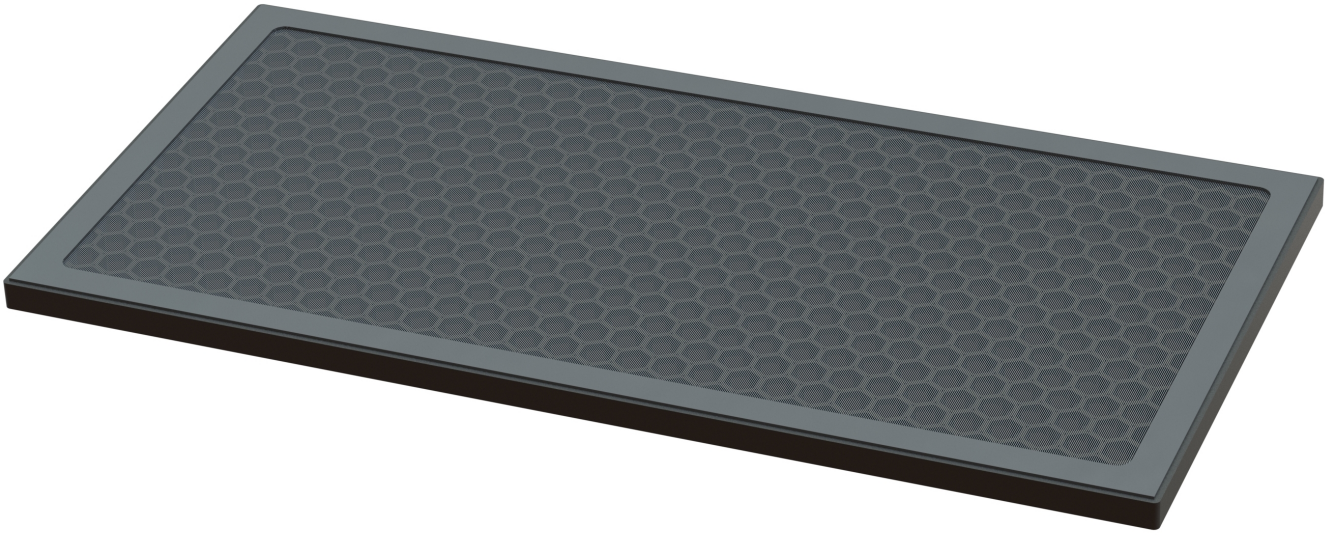
FU_FIL_UHL2

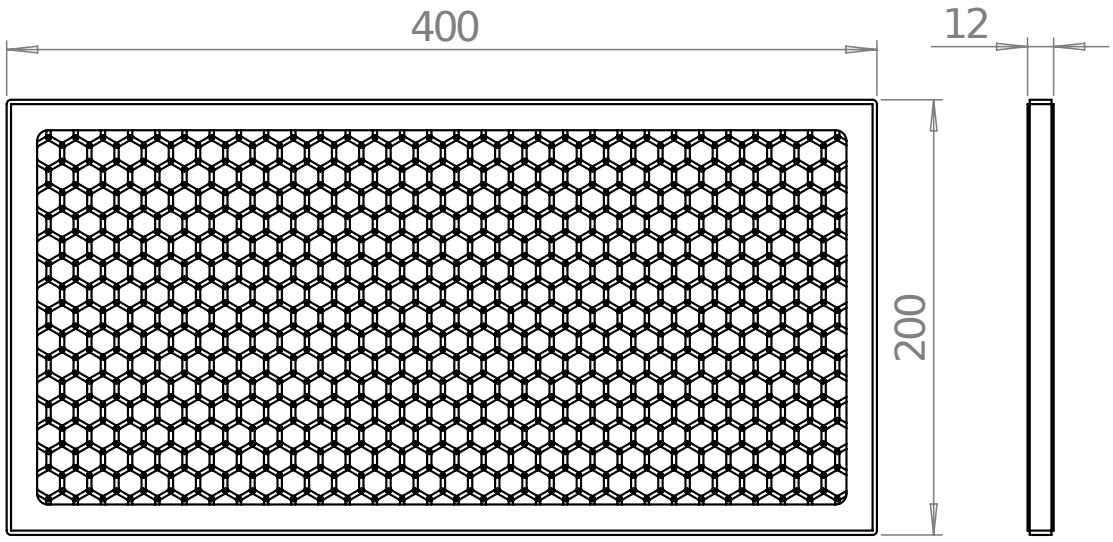


Filter - activated carbon

Usage

Activated carbon filter is an optional accessory of Futura ventilation unit. It has the capacity to bind gaseous pollutants and eliminate odors.

Dimensions



Technical details

Width:	200 mm
Depth:	400 mm
Height:	12 mm

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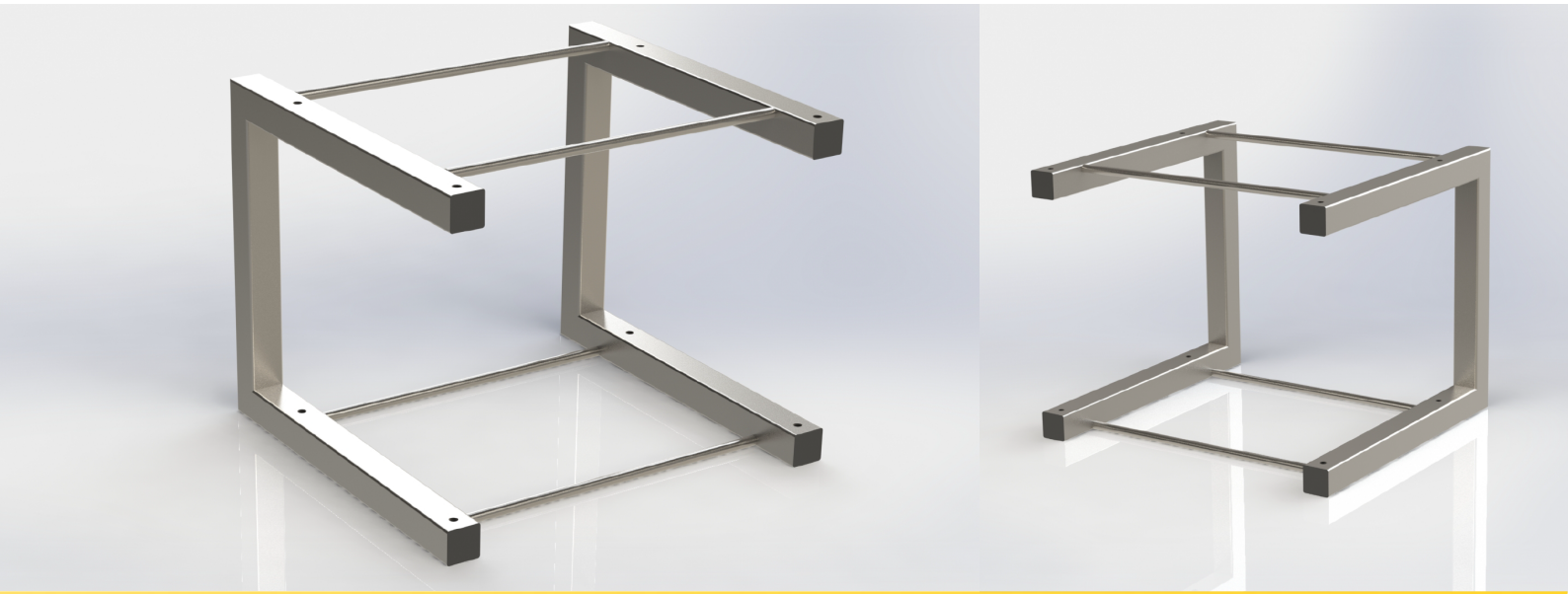
CB_MECH_KN

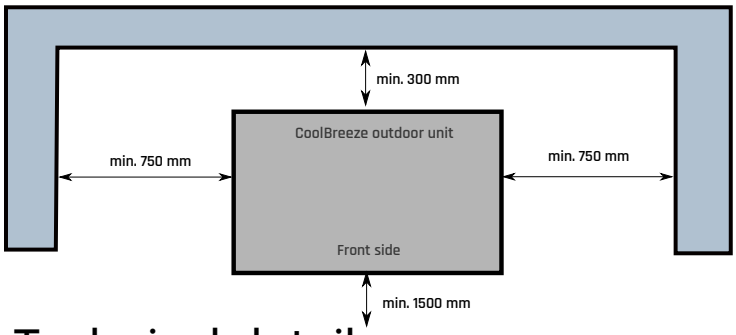


CoolBreeze - Stainless steel bracket

Usage

Stainless steel bracket is used to attach CoolBreeze outdoor unit to a suitable concrete base. We recommend using two cinder blocks (10 cm wide) placed in a drainage pit to a depth of 25 cm. The bracket is then anchored to the base with dowels or chemical anchors and 20 cm long stainless steel threaded rods (rods included in the delivery).

Proper placement

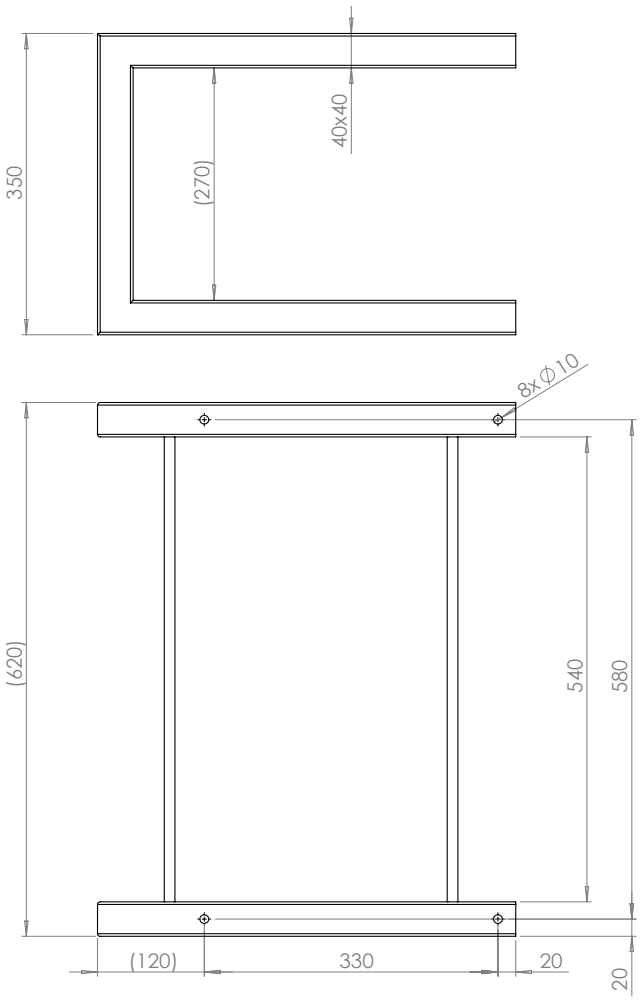


Technical details

Material:	stainless steel 17 240
Width:	620 mm
Height:	350 mm
Depth:	470 mm
Anchoring openings:	8 × 8 mm diameter
Base height:	250 mm
Bed:	gravel 4/8 to 16/32
Axial distance of the formwork:	580 mm

Any changes resulting from technical development are reserved.

Dimensions



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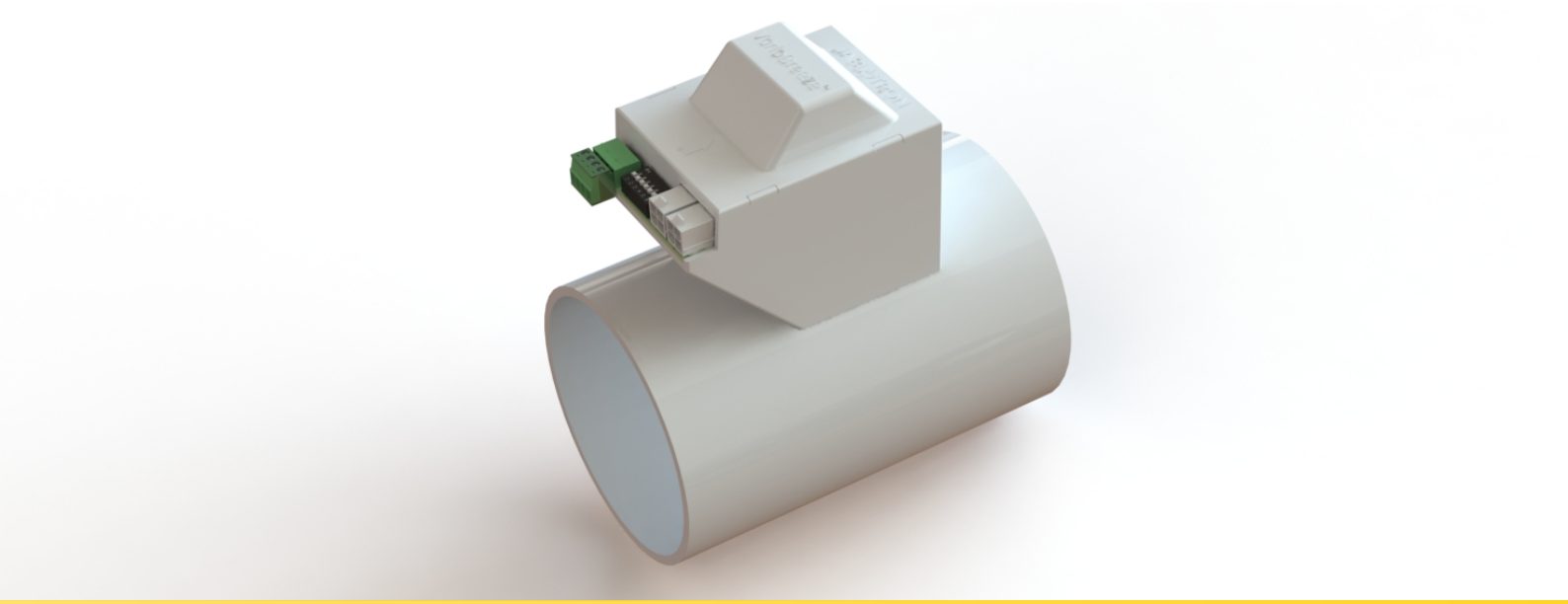
JLT_ZO_KZV



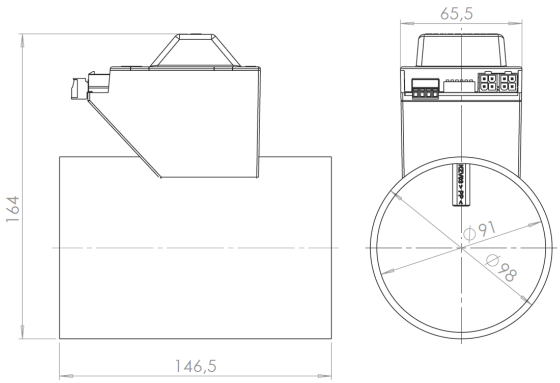
VarioBreeze™ room-by-room control valve

Usage

VarioBreeze™ room-by-room control valve is installed in the supply and extract ducting of the ventilation system. The valve regulates amount of air that passes through the duct depending on the requirements of each zone.

The valve is supplied with a 21 cm long connecting cable with Mini-Fit connectors for serial connection of the valve to the Modbus.

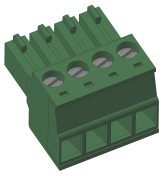
Dimensions

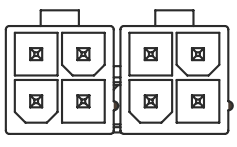


Technical details

Material:	PP, PC ABS
Maximum airflow:	120 m^3/hour
Valve length:	146,5 mm
Outside diameter:	98 mm
Inside diameter:	91 mm
Power voltage:	24 VDC
Communication protocol:	ModbusRTU

Connectors





24V GND A+ B-

B- A+ B- A+

GND 24V GND 24V

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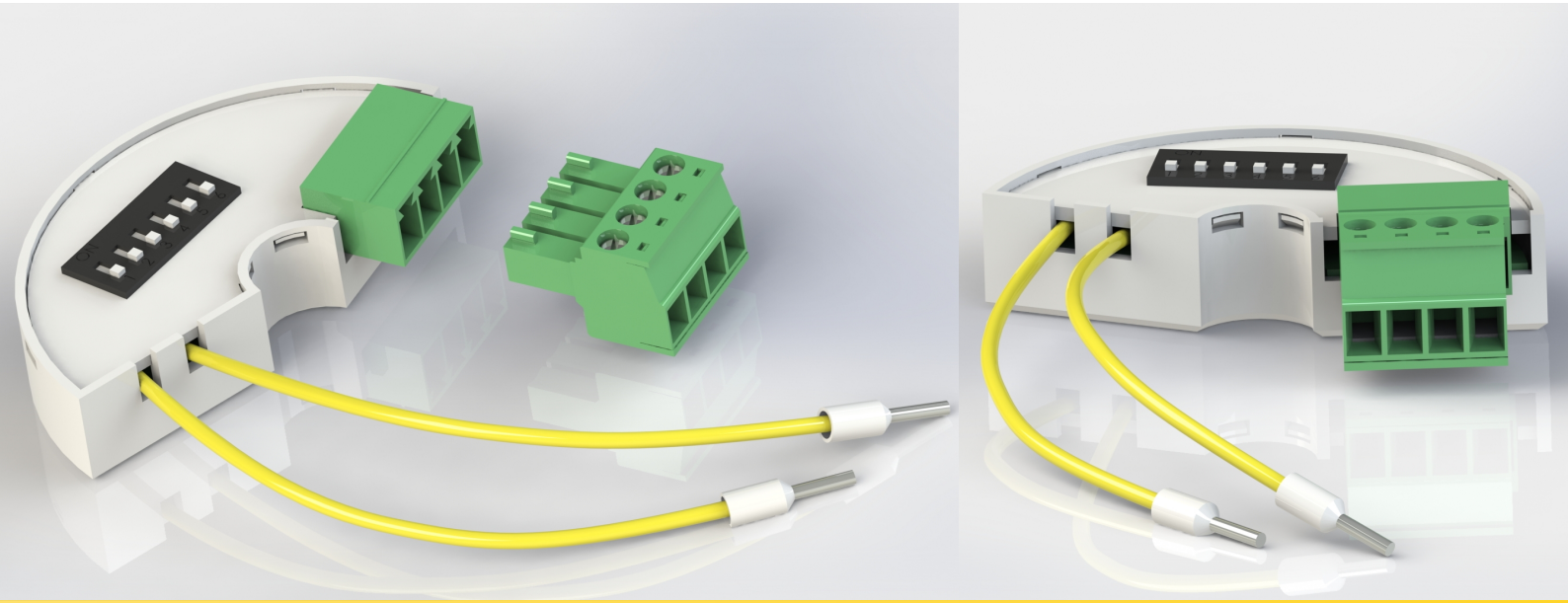
JLT_ZO_MBB



VarioBreeze™ boost button

Usage

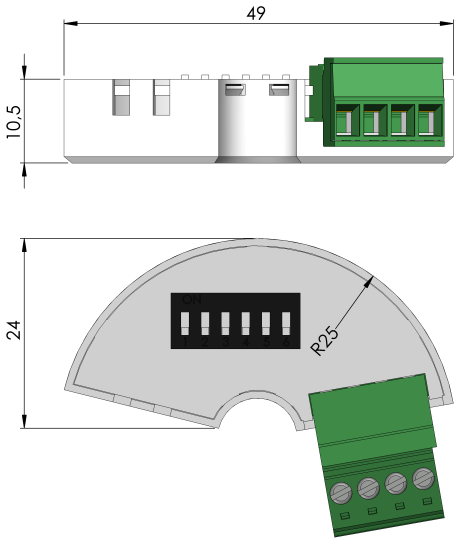
VarioBreeze™ boost button is used to turn on the boost function in extraction ducts of the Futura ventilation system.
It can be used to turn on extraction in the kitchen hood. In this case, the button should be placed underneath the hood button in the installation box.

You can find electrical connection topology and configuration details in the installation manual.

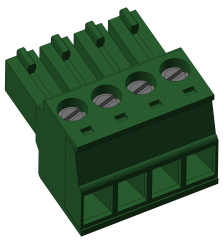
Technical details

Material:	CPE
Power voltage:	24 VDC
Consumption at standby:	5 mA
Dimensions without connector:	49 × 24 ×10,5 mm
Communtication protocol:	ModbusRTU
To be used with box:	KU 68

Dimensions



Connectors



24V GND A+ B-

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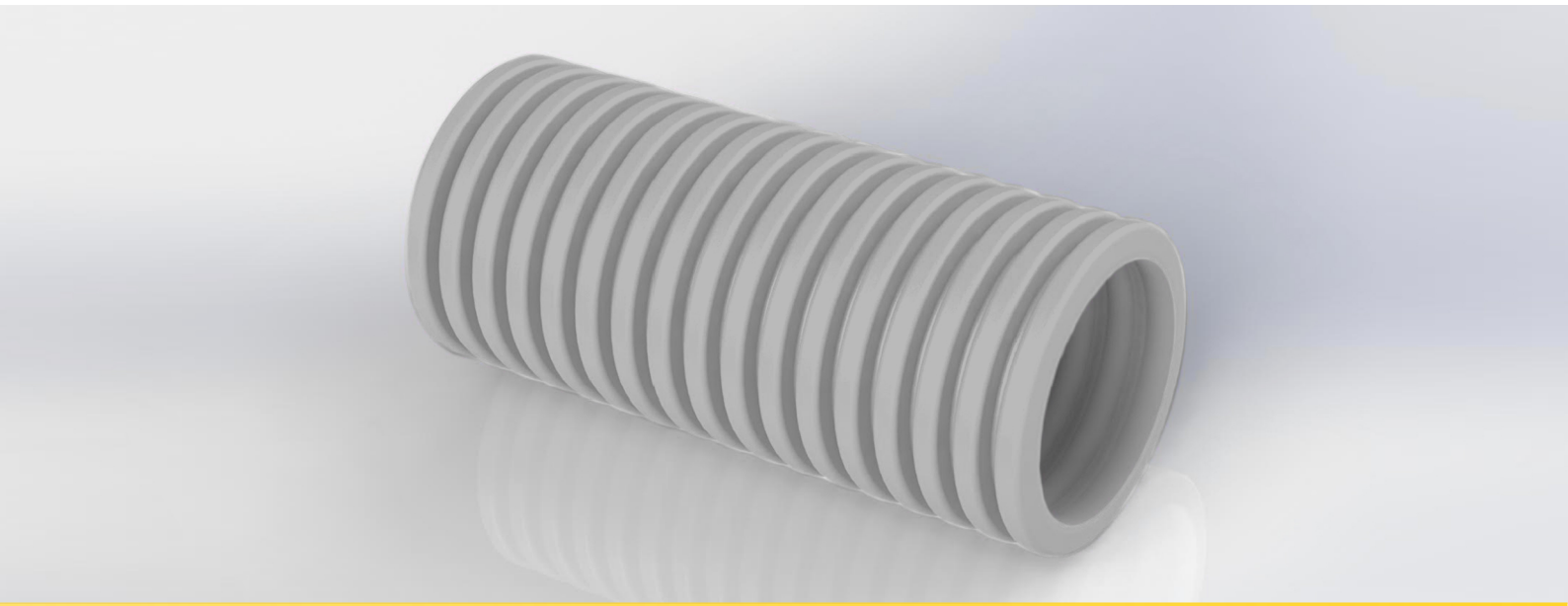
VZ_RZV_90JA



Jablotron flexi antibacterial pipe Ø 90 mm

Usage

Flexible plastic pipe for ventilation enables transport of air into individual rooms with low pressure loss. It is suitable for both air supply and extraction. The inside of flexi pipe is coated with antibacterial layer. Flexi pipe is sold in 50 m rolls.

Technical details

External diameter:	90 mm
Internal diameter:	75 mm
Material:	outer layer polyethylene
	inner layer silver phosphate glass
Color:	light grey, white, green
Pressure drop:	2,13 Pa/m (at air flow 30m^3/h)
Resistance to ext'l pressure:	500 N
Reaction to fire:	D-s2
Length:	50 m roll
Package dimensions:	130 x 130 x 50 cm
Package weight:	23 kg

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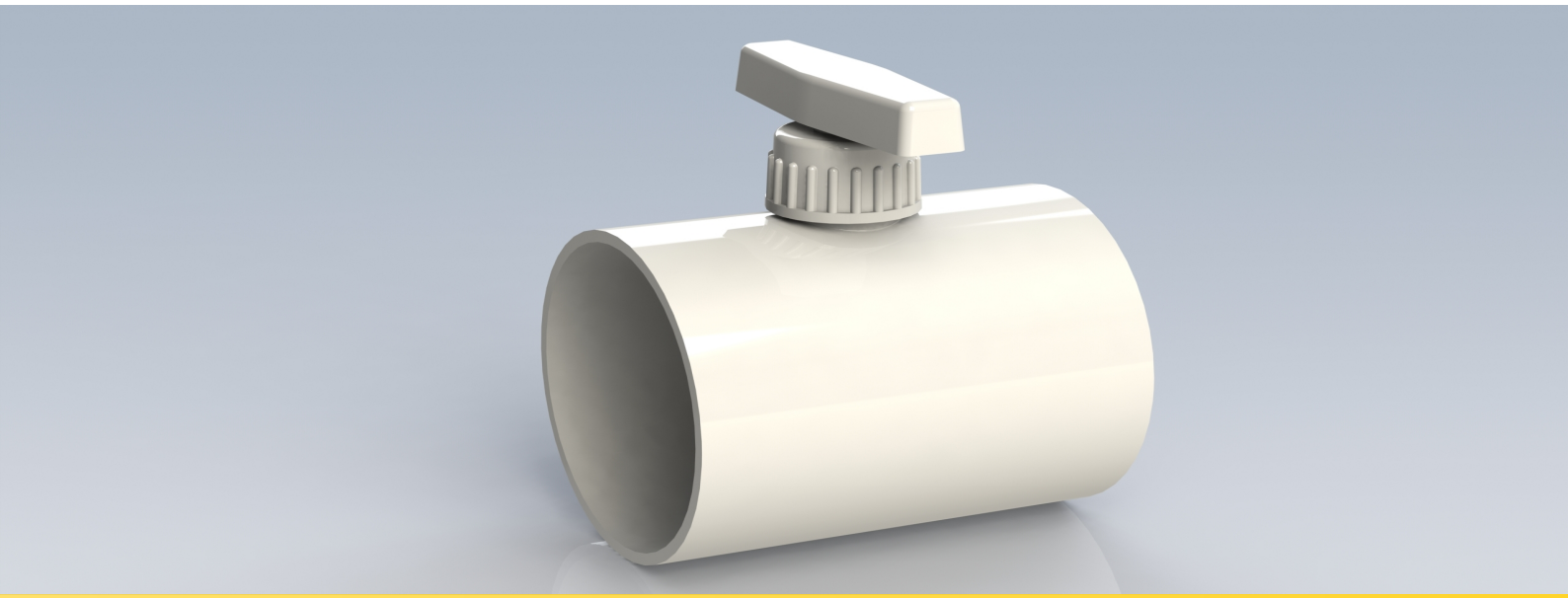
VZ_MECH_REKLP90

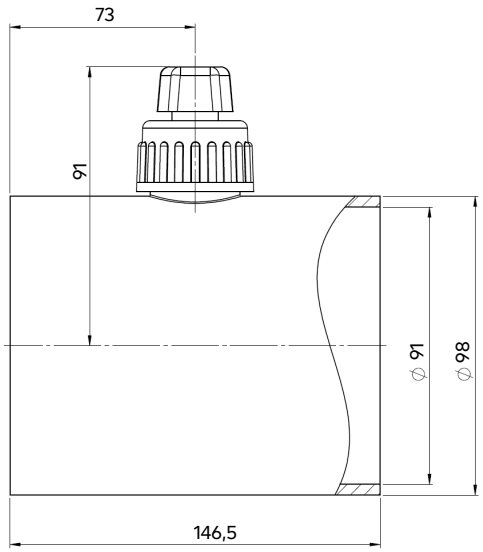


Mechanical control valve 90 mm

Usage

Mechanical control valve is used to adjust airflow in individual ducts. The valve has full range of control (full opening - full closure) and is made of polypropylene. It is designed to fit flexible pipe DN 90.

Dimensions



Technical details

Reaction to fire classification:	E (according to EN 13501-1)
Material:	PP polypropylene
Color:	RAL 9016

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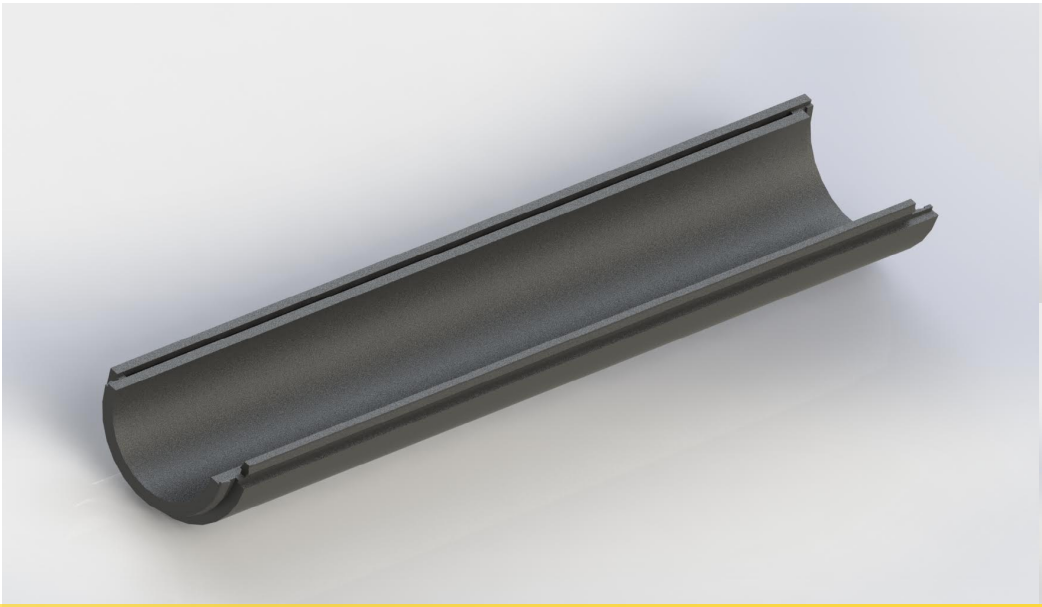
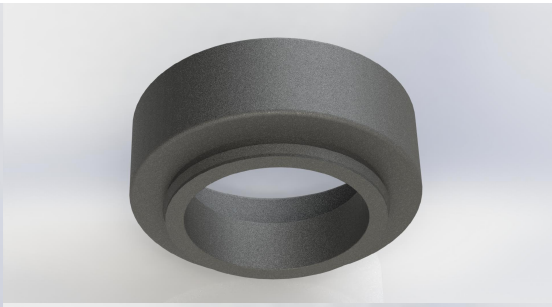
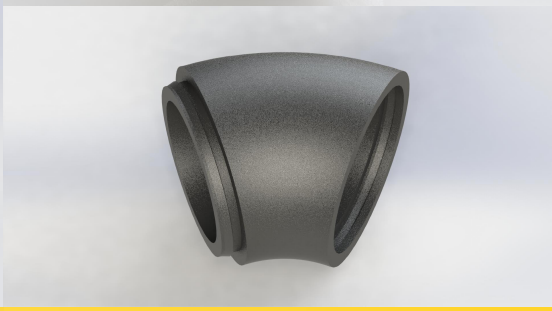
VZ_EPP_01, VZ_EPP_02, FU_EPP_03







EPP system - elbow, tube, flange

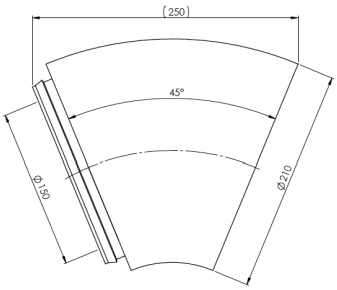
Usage

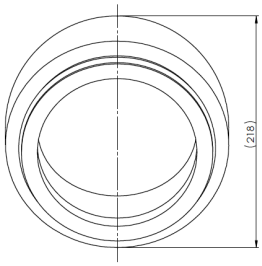
EPP is a moisture-proof duct system with an outstanding insulating efficiency thanks to 30 mm wall thickness. It complies with provisions of EnEV 2009 to insulate ventilation air ducts. EPP system is used for air supply and air extract ducting between Futura ventilation unit or Ambienta W water heater and outdoor environment.

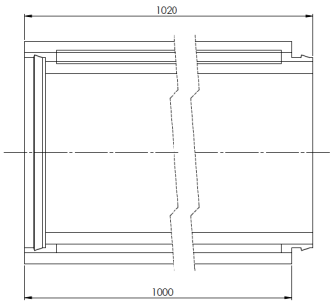
Installation: The latch must be installed horizontally. When ducts are coupled and X-piece is used, the system is self-supporting up to 4m. We recommend using a hot wire cutter to shorten the ducts. Installation must comply with all local building code requirements.

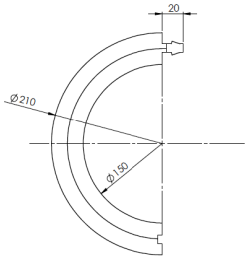
Order codes: elbow VZ_EPP_01, tube VZ_EPP_02, flange FU_EPP_03

Dimensions



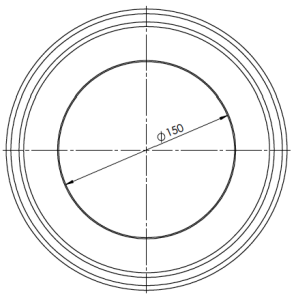


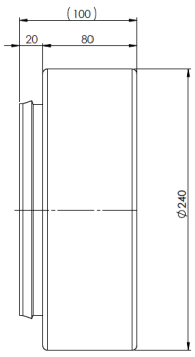




Technical details

Duct length:	1000 mm
Internal/external diameter:	150/210 mm
Max. recommended airflow:	375 m³/h
DIN 4102-1 specification:	self-supporting, class B2
Tightness:	airtight, up to 200 Pa
Attenuation: elbow (45°) LP 1,3 dB/piece, duct LP 3 dB/m	





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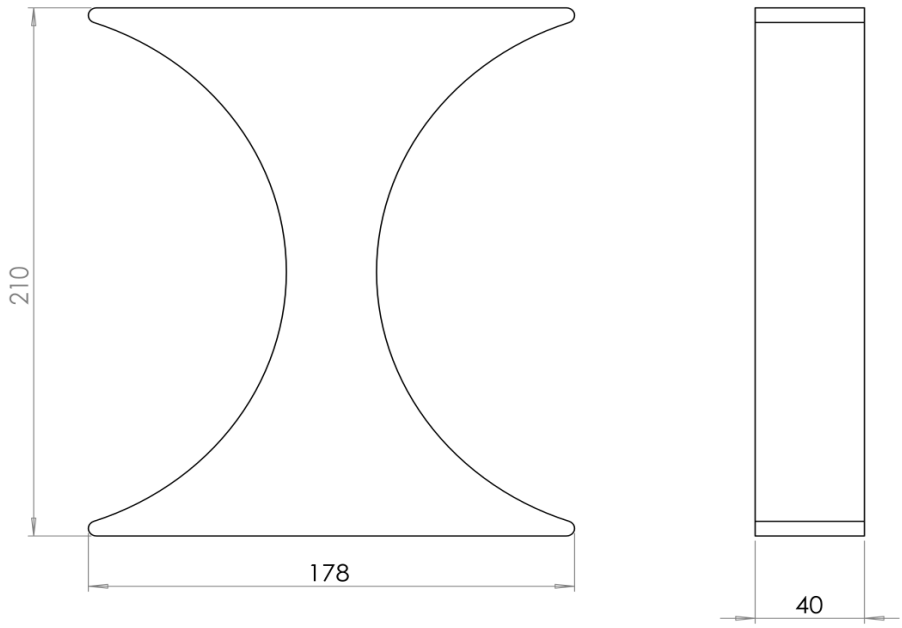
VZ_RZV_X_EPS

EPS X-spacer for EPP pipes

Usage

X-spacer is designed to secure proper distance between two parallel ventilation ducts VZ_EPP_02. The width of the gap created by the X-spacer corresponds to the distance between the flanges in Futura ventilation unit and also to the distance between ducts in the facade boxes VZ_FBX_HSLV, VZ_FBX_HSPV, VZ_FBX_SSSV, VZ_FBX_SSHV. Thanks to its excellent insulating properties the X-spacer can be used as a filling of the service gap in the exterior wall.

Dimensions



Technical details

Material:	polystyrene (EPS)

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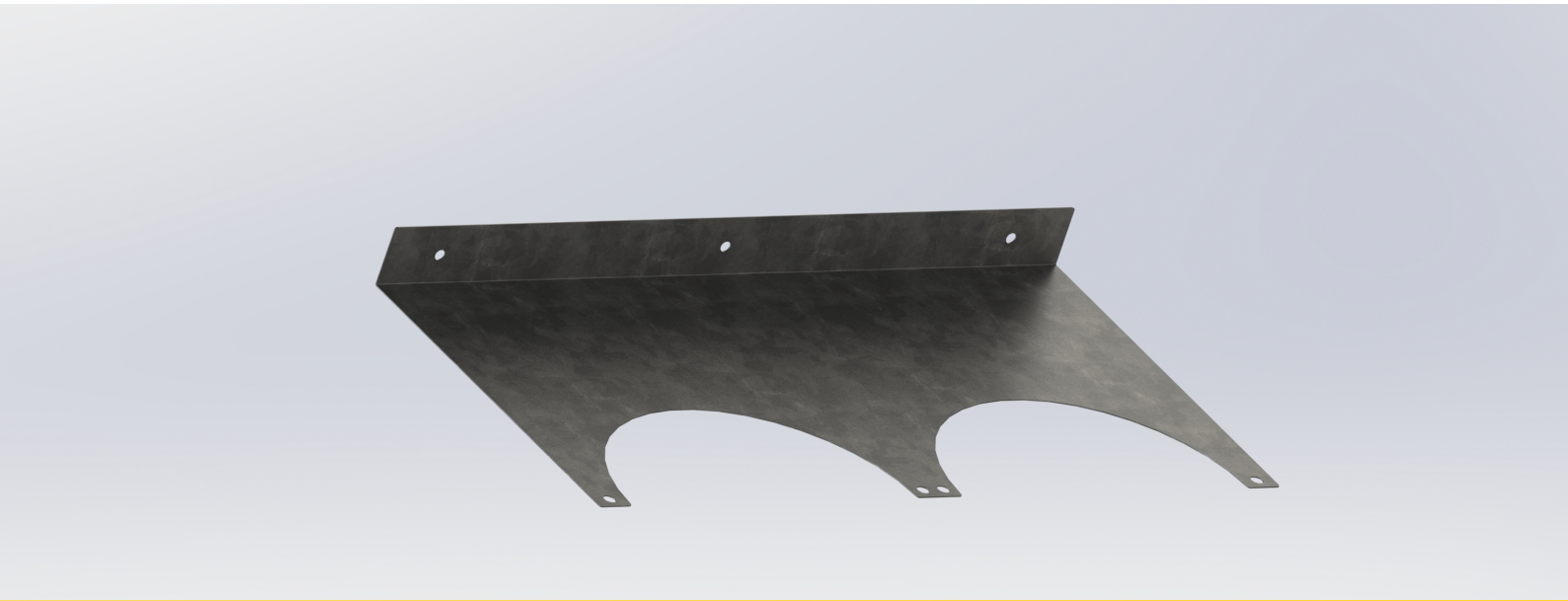
VZ_RZV_MSEPP

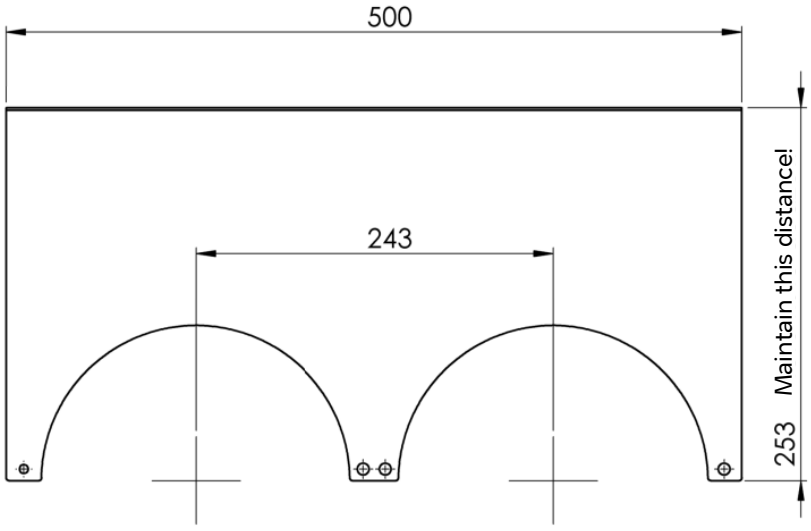


Mounting template for 2x EPP ducting

Usage

Mounting template is used during the installation of EPP ducts to secure their proper alignment with Futura flanges. The template helps maintain proper distance between two ducts as well as their distance from the wall - therefore it is necessary to install the template on the finished wall. We recommend to mount the template to 1/3 - 1/2 of the planned vertical position of Futura. The right edge of the template marks the center of Futura, while the mounting plate of Futura has an arrow indicating its center to ensure correct horizontal position. We recommend using a spirit level when mounting the template. If necessary, trim vertical ducts just before hanging the ventilation unit on the wall. The template can be removed after trimming the ducts.

Dimensions



Technical details

Width:	500 mm
Depth:	253 mm
Distance between duct centers:	243 mm
Material:	zinc-plated metal sheet

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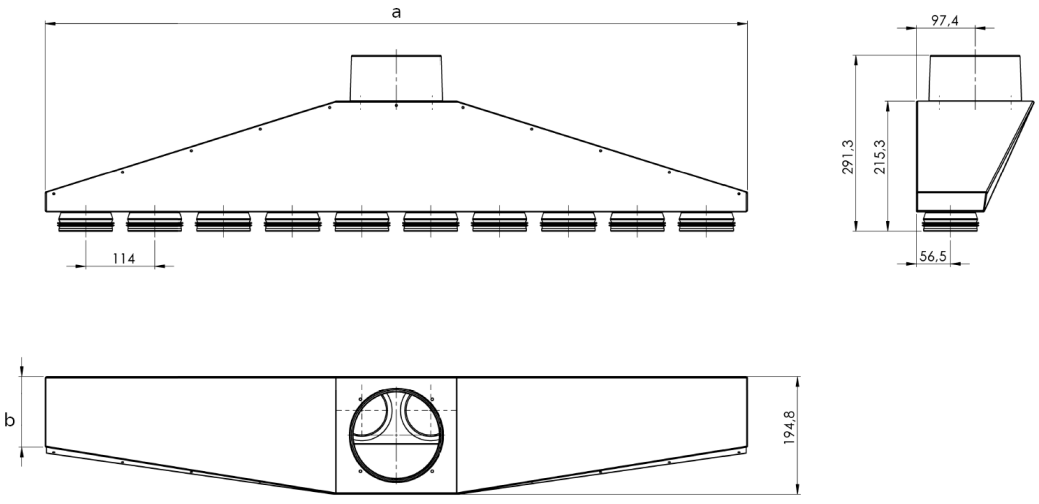
VZ_RBX_PJx_GIZ

Straight single-row distribution box with seal and insulation

Usage

Distribution box with o-ring seals for an easy installation of mechanical control valves or VarioBreeze™ room-by-room ventilation valves. Shape of the box secures equal distribution of airflow and pressure. Distribution box comes in three variants with 6, 8 or 10 flanges.

Dimensions



Technical details

Model	No. of flanges	Dimension a	Dimension b
VZ_RBX_PJ6_GIZ	6	701,3 mm	120 mm
VZ_RBX_PJ8_GIZ	8	932,6 mm	118 mm
VZ_RBX_PJ10_GIZ	10	1160,3 mm	117 mm
Material:	zinc-plated metal sheet		

Any changes resulting from technical development are reserved.

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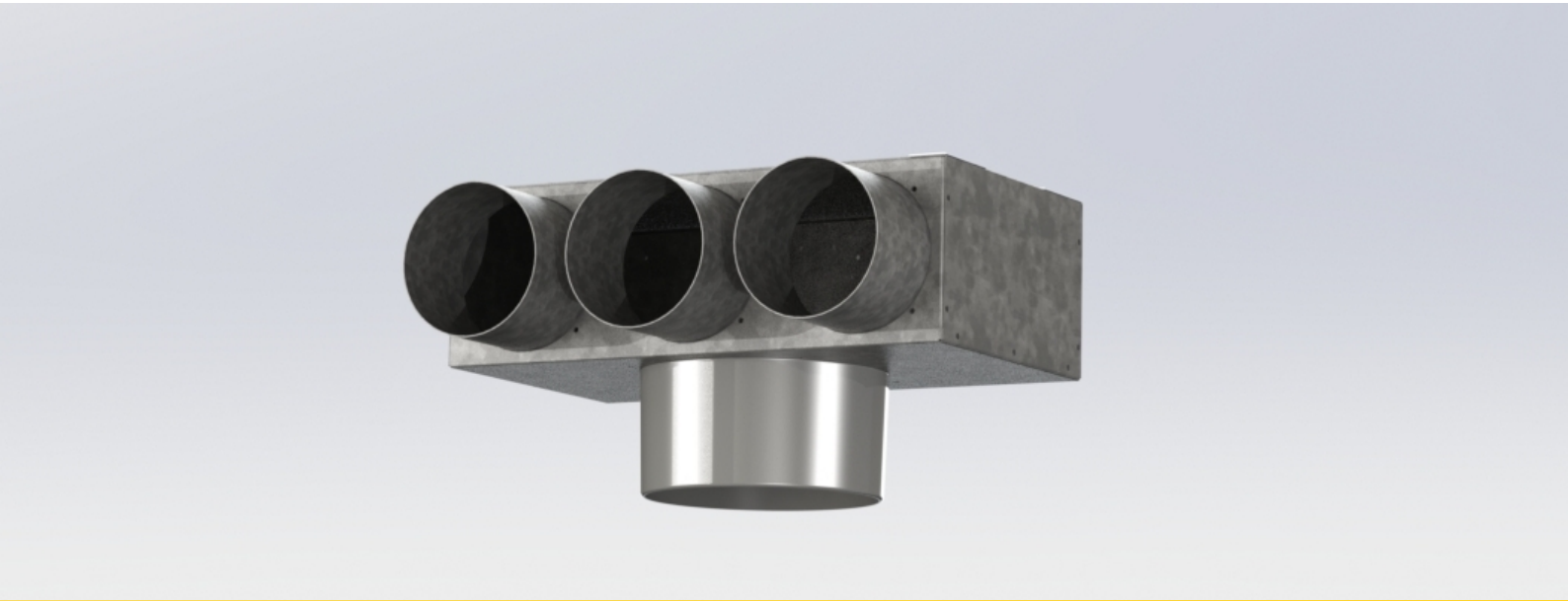
VZ_RBX_FBR02

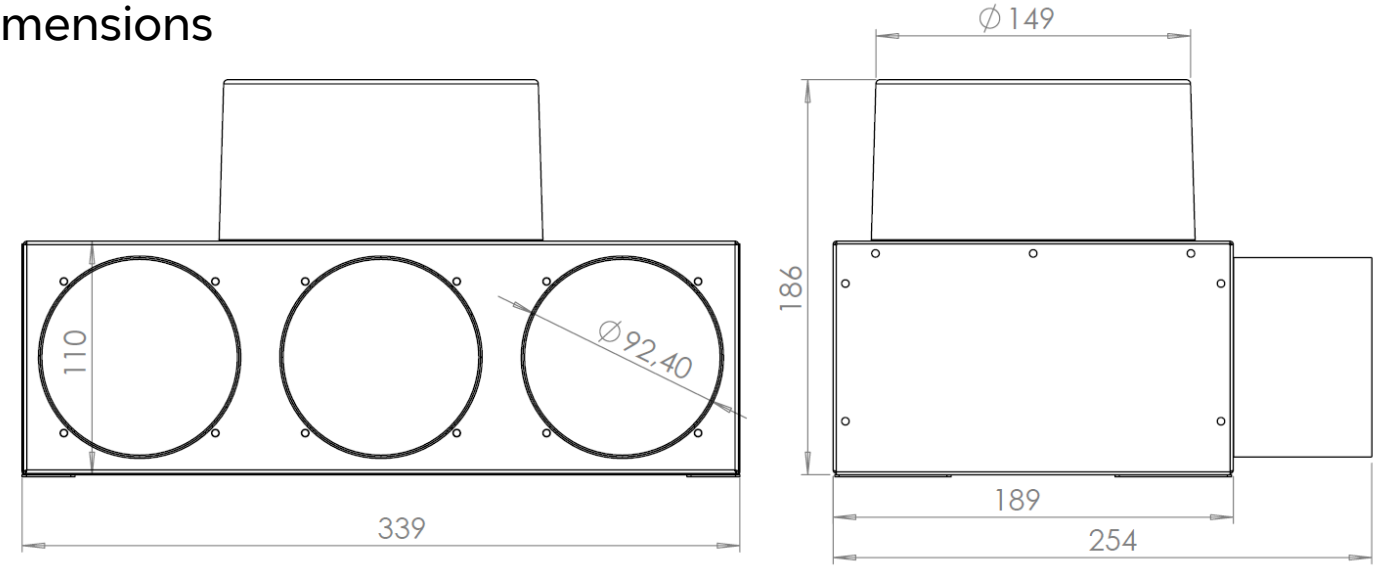


Perpendicular distribution box

Usage

The distribution box enables integrating Faber kitchen hood into VarioBreeze™ room-by-room ventilation system.

Dimensions



Technical details

Dimensions:	339 × 254 × 186 mm
Material:	zinc-plated metal sheet 0,5 mm thickness
Flange material:	polypropylene
Flange diameters:	1×150, 3×90

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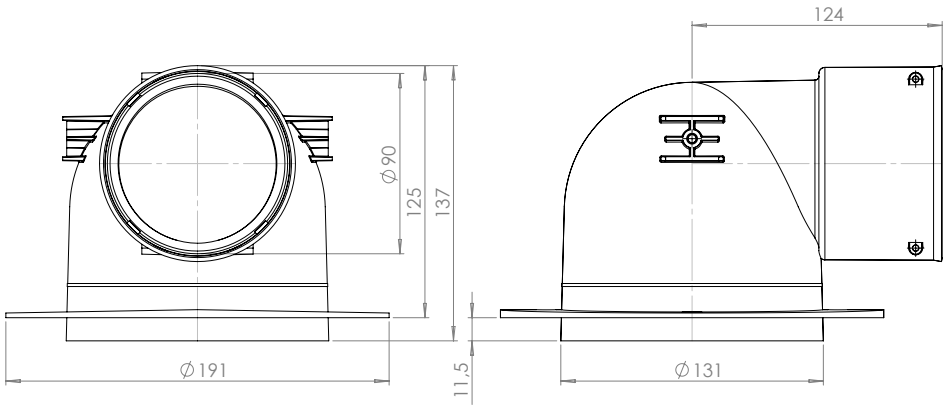
VZ_VYK_PL05

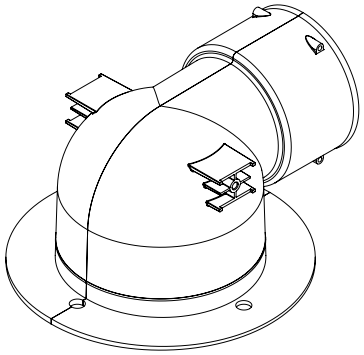
Register boot 1×90/1×125

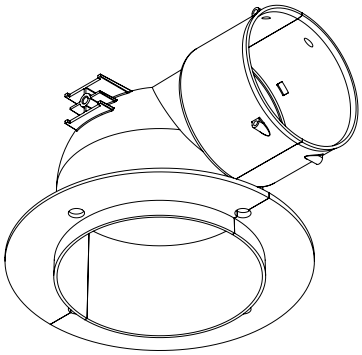
Usage

Register boot enables quick installation of the ⌀90 mm flexi pipe with just one click. It is supplied with two O-rings (to be threaded onto the first and third thread from the edge of the pipe) and a spring locking pin to prevent the boot from loosening. The boot is installed in the ceiling plasterboard into a ⌀132 mm opening. It is fixed into the mounting collar through the plasterboard screws 3,5×25 mm. Recommended service cavity for installation is 125 mm. Suitable for the following ⌀125 mm vents: VZ_MDV_TV125PL (plastic round), VZ_MDV_0210 (plastic square), VZ_MDV_0001-0004 (glass square/round).

Dimensions







Technical details

Material:	polypropylene
Color:	black
Spring locking pin:	galvanized steel
Flange dimensions:	1×125, 1×90 mm

Any changes resulting from technical development are reserved.

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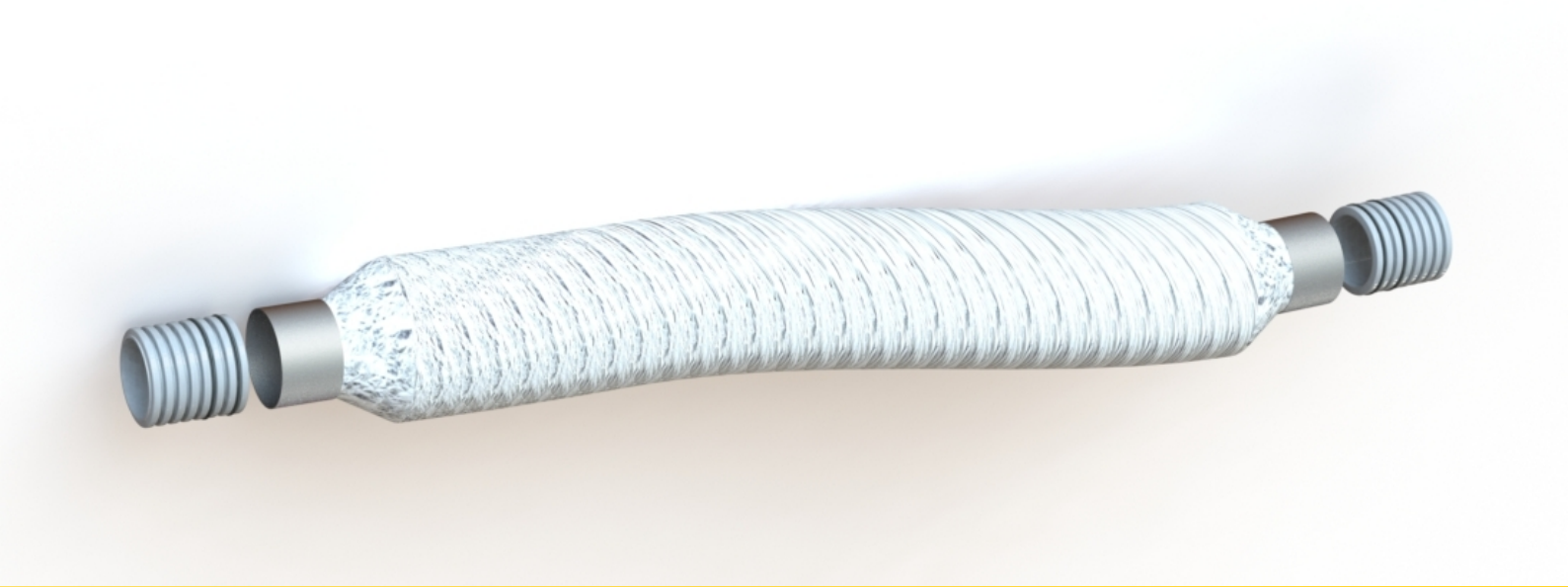
VZ_RZV_TL90

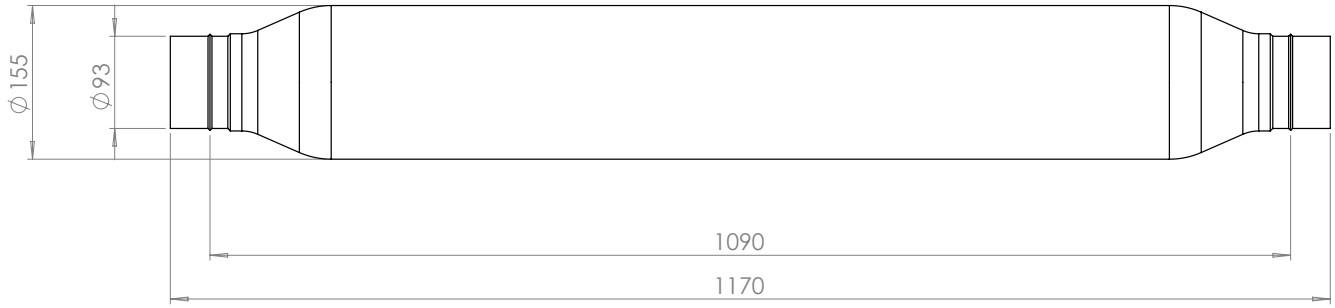


Silencer ⌀90/25 x 1 m

Usage

Silencer limits transmission of sound in air ducts from the ventilation unit to rooms as well as among individual rooms. When used in each route, it replaces acoustic insulation in distribution box. The silencer is made of light, flexible and acoustically insulated material. For a convenient installation use two O-rings at each end of the duct. O-rings are included in the delivery.

Dimensions



Technical details

Material:	polyester, aluminium, glass fiber, stainless steel							
Frequency (Hz):	63	125	250	500	1000	2000	4000	8000
Attenuation (dB):	13	17	28	35	34	38	44	22
Connector diameter: 93 mm								

Any changes resulting from technical development are reserved.

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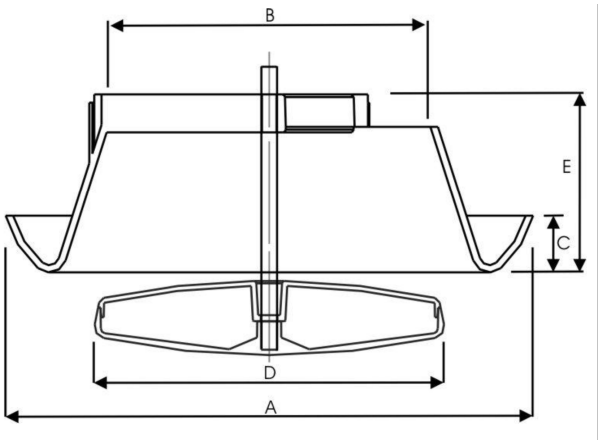
VZ_MDV_TV125PL

Air diffuser - plastic, round

Usage

Air diffuser with aerodynamic design and outstanding parameters of low pressure loss, low noise level and high airflow capacity. It is suitable for air supply or extraction. To be mounted onto a register boot with a 125mm diameter (for example VZ_VYK_PL05).

Dimensions



Technical details

Diameter:	125 mm				
Dimensions (mm):	A	B	C	D	E
	165	92	20	104	60
Material:	polypropylene				
Color:	white RAL9003				
Reaction to fire class:	E				

Any changes resulting from technical development are reserved.

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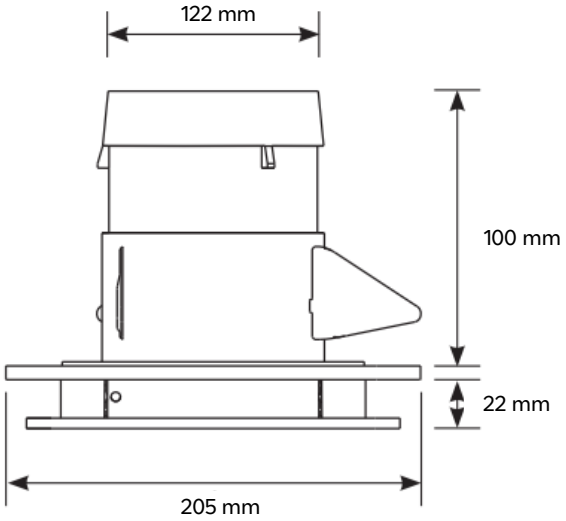
VZ_MDV_0210

Air diffuser - plastic, square, 4-way

Usage

Four-way air diffuser enables precise regulation of the direction of air flow. Suitable for air supply and extraction; can be used on the ceiling or on the wall. To be mounted onto a register boot with a 125 mm diameter (for example VZ_VYK_PL05).

Dimensions



Technical details

Dimensions:	205 × 205 mm
Duct diameter:	125 mm
Material:	polypropylene
Color:	white RAL 9003
Reaction to fire class:	E

Any changes resulting from technical development are reserved.

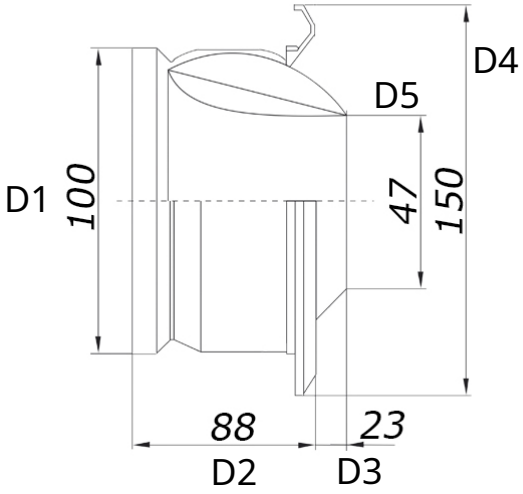
VZ_MDV_DYZA

Jet nozzle diffuser ø100

Usage

Jet nozzle diffuser is an alternative for spaces that can not be equipped with standard air ducts. Suitable for horizontal and vertical installation. The nozzle can be rotated within 30° range in any direction.

Dimensions

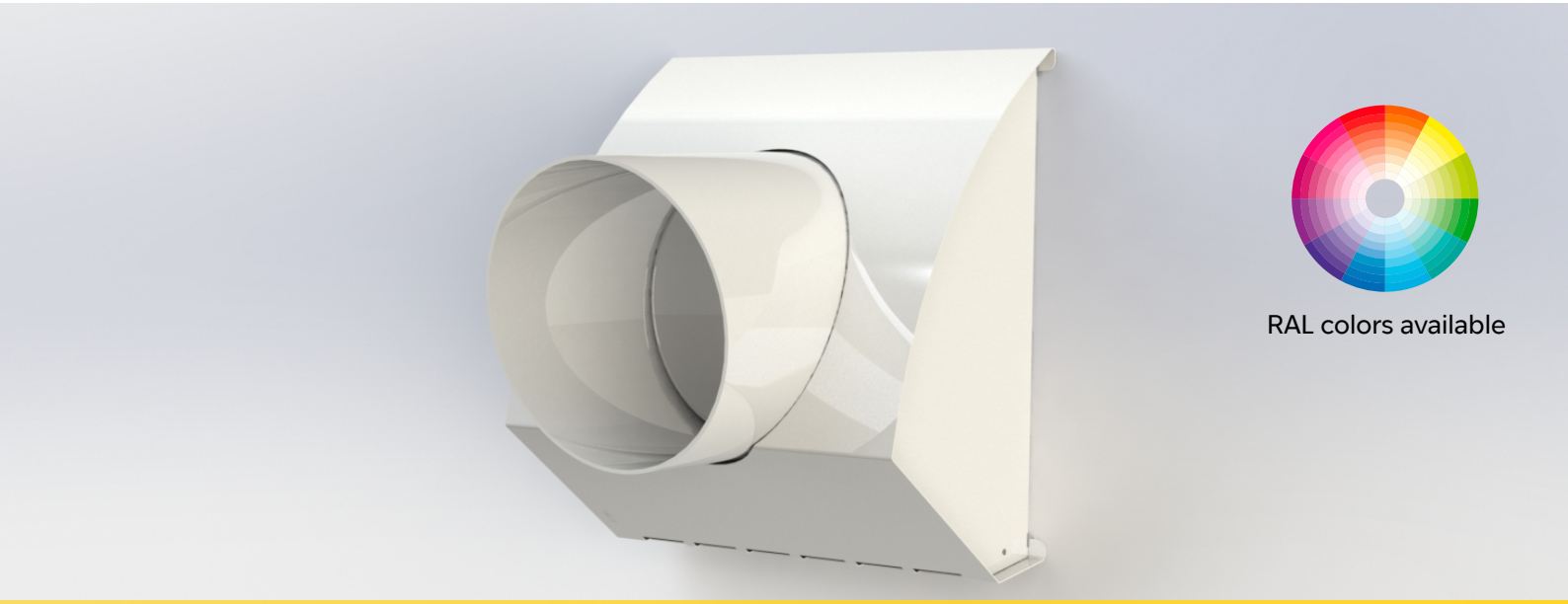


Technical details

Dimensions ±3 mm:	D1	D2	D3	D4	D5
mm	100	88	23	47	150
Airflow:	50 - 140 m^3/hour				
Range:	3 - 10 m				
Material:	ABS plastic				
Color:	RAL 9010				

Any changes resulting from technical development are reserved.

VZ_FBX_VYF



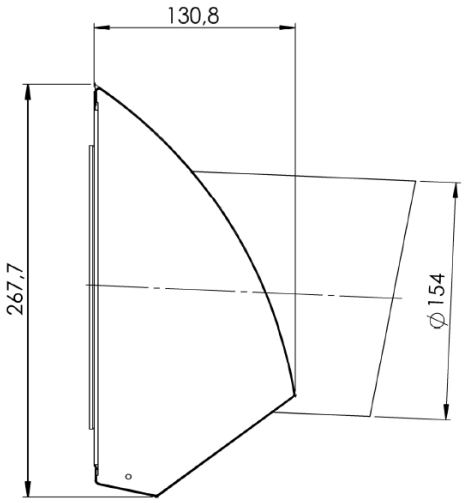
RAL colors available

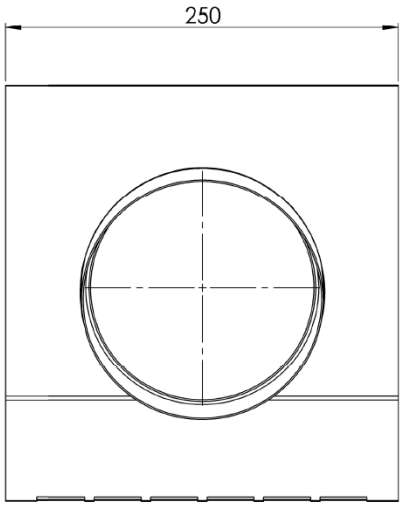
Facade box exhaust ⌀ 150

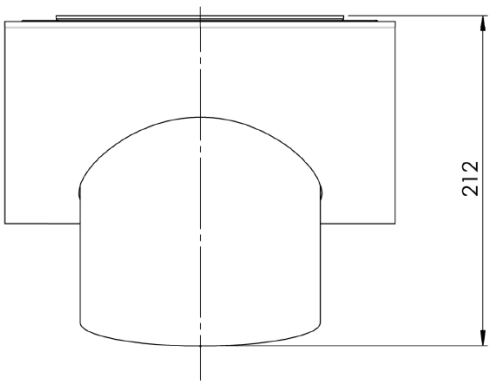
Usage

Facade box exhaust is used for Jablotron Futura ventilation unit and Jablotron Ambienta W water heater. Opening of the exhaust is bird-proofed with a mesh (20 mm holes). The box is equipped with a drip edge that prevents condensate from running down the wall.

Dimensions







Technical details

Dimensions:	250 × 267,7 × 21 mm
Material:	steel plate 0,6 mm thickness
	stainless steel on request
Mesh material:	stainless steel
Color:	white RAL 9003, more colors on request

Any changes resulting from technical development are reserved.

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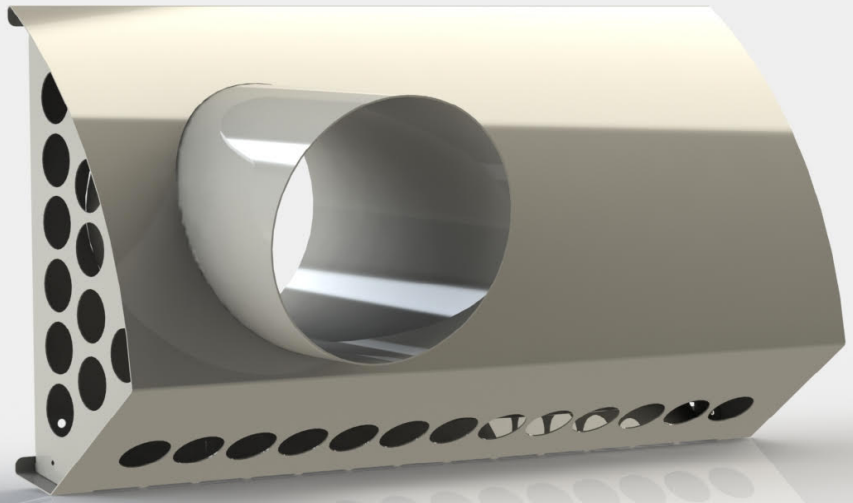
VZ_FBX_HSLV, VZ_FBX_HSPV



RAL colors available

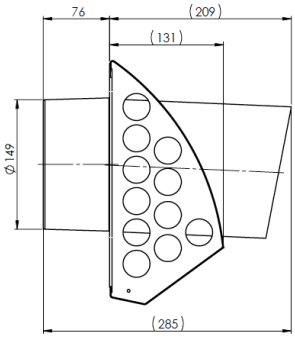
Facade box - horizontal (left/right)

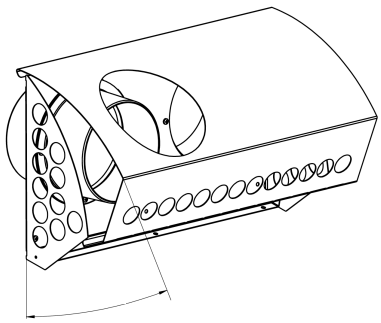
Usage

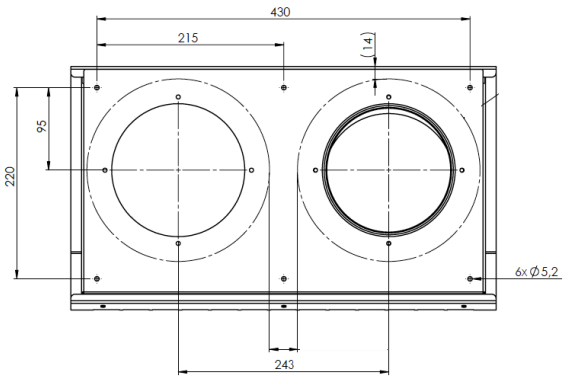
Facade box exhaust is used for Jablotron Futura ventilation unit and Jablotron Ambienta W water heater. It allows for an easy connection to EPP duct. Its construction minimizes the risk of repeated waste air intake thanks to the waste air outlet directed perpendicular to the facade while the fresh air suction is directed along the facade.
Opening of the exhaust is bird-proofed with a mesh (20 mm holes). The box is equipped with a drip edge that prevents condensate from running down the wall.
Order code: left exhaust VZ_FBX_HSLV, right exhaust VZ_FBX_HSPV

Dimensions

Note: Left exhaust version pictured.

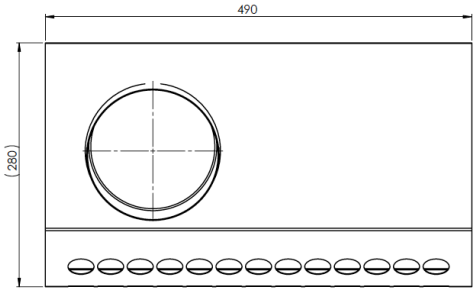






Technical details

Dimensions:	490 × 280 × 285 mm
Material:	steel plate 0,6 mm thickness
Mesh material:	stainless steel
Color:	white RAL 9003, more colors or stainless steel
	on request



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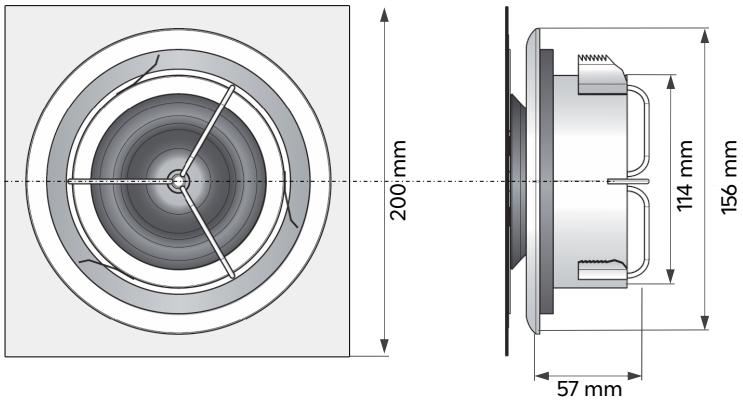
VZ_MDV_GRDS, VZ_MDV_GRDM

Air diffuser - glass, round, shiny/matt

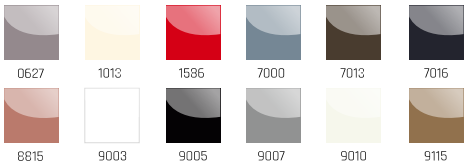
Usage

An air diffuser with sleek glass design. It is suitable for air supply and extraction and can be mounted on a ceiling or on a wall. The diffuser has two parts - the body and the front plate, which is available in round or square shape. The diffuser body is attached to the ducting by three metal springs. The front glass plate is attached to the body by metal springs as well. The front plate is available in shiny or matt finish.

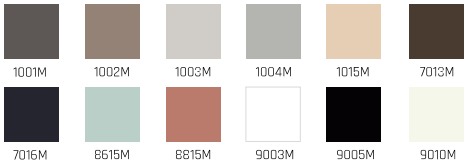
Dimensions



Available colors - shiny:



Available colors - matt:



Technical details

Order code:	shiny VZ_MDV_GRDS
	matt VZ_MDV_GRDM
Front plate diameter:	200 mm
Duct diameter:	125 mm
Material:	galvanized metal, glass
Color:	RAL colors available

Any changes resulting from technical development are reserved.

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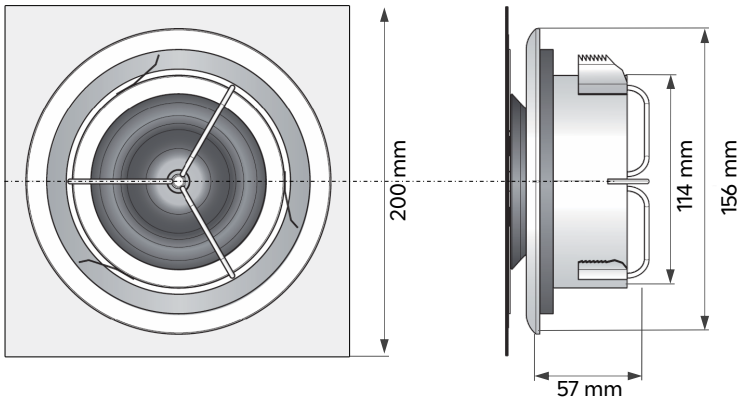
VZ_MDV_GSQS, VZ_MDV_GSQM

Air diffuser - glass, square, shiny/matt

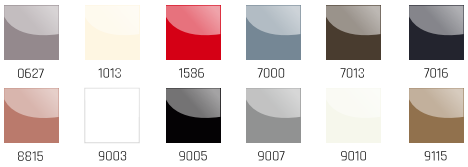
Usage

An air diffuser with sleek glass design. It is suitable for air supply and extraction and can be mounted on a ceiling or on a wall. The diffuser has two parts - the body and the front plate, which is available in round or square shape. The diffuser body is attached to the ducting by three metal springs. The front glass plate is attached to the body by metal springs as well. The front plate is available in shiny or matte finish.

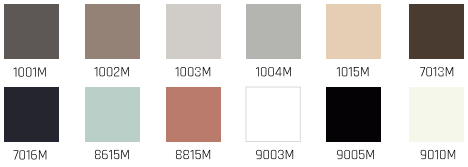
Dimensions



Available colors - shiny:



Available colors - matt:



Technical details

Order code:	shiny VZ_MDV_GSQS
	matte VZ_MDV_GSQM
Front plate size:	200 × 200 mm
Duct diameter:	125 mm
Material:	galvanized metal, glass
Color:	RAL colors available

Any changes resulting from technical development are reserved.

Your installer/distributor:

JABLOTRON LIVING TECHNOLOGY CZ s.r.o.
Holešovská 1692, 769 01 Holešov, Czech Republic
Tel: +420 775 587 595 | E-mail: info@jablotronlt.com | Web: JABLOTRONLT.COM