

Hoval HomeVent® ER (200-400)
Comfort ventilation unit

- Comfort ventilation unit with self-regulating heat and humidity recovery for any installation position.
- For use within or outside the insulated building shell.
- High-quality, heat and sound insulated inner casing made from EPP.
- External casing made of film-coated sheet steel (red).
- The casing is suitable for installation on both sides (accessible on both sides)
- Rotary enthalpy recovery unit with speed regulation
- Two backward-curved EC fans (continuously adjustable 15-100 %)
- High-quality filter
 - supply air: ePM_{1,0} 55 % (F7)
 - extract air: ePM₁₀ 60 % (G4)
- Integrated prefilter
- Filter monitoring (timer)
- Ready-to-connect electronics
- No need for preheating or a condensate drain

Data

- Colour: red
- Dimensions:
 - L x W x H: 560 x 374 x 1000 mm
- Weight: 31 kg
- Electrical connection: 230 V/50 Hz, IP 40

Required accessories:

- Standard operator terminal BG02 E or
- TopTronic® E room control module comfort plus

Options

- Air quality sensor VOC or CO₂
- Active cool recovery (CoolVent® option)
- Mounting set, base, IsiCube
- Supply air activated carbon filter

Delivery

- Comfort ventilation unit pre-assembled and packed
 - 2 mains cables 3 m
 - 1 RJ45 cable 3 m

On site

- 8-pin CAT 5 patch cable (parallel, not crossed) between comfort ventilation unit and operator terminal
- 230 V socket

Use

The HomeVent® comfort ventilation unit provides centralised supply and extract air handling for residential spaces. This can be a single family home or a residential unit in a multi-family house. The comfort ventilation unit is part of the HomeVent® ventilation system for comfort ventilation, which performs the following tasks:

- Supplies residential and commercial space with outdoor air
- Extracts used air (CO₂, aerosols, excess dampness, odours, etc.)
- Saves energy through intelligent latent heat recovery
- Cleans supply air using a fine dust filter



Tests

- TÜV SÜD according to EN 13141-7
- TÜV SÜD according to EN 60335-1

Model range

HomeVent® ER type		Flow rate m³/h	Heat recovery efficiency %
(200)	A+	30-200	90-130
(300)	A+	45-300	90-130
(400)	A	60-400	90-130

Energy recovery

The built-in enthalpy recovery unit withdraws energy from the extract air and transfers it to the supply air. This enables the intelligent (temperature) and the latent (humidity) energy to be transferred. The transmission performance is regulated depending on the outdoor temperature.

The advantages of the enthalpy recovery unit are:

- Temperature efficiency up to 90 %
- Degree of humidity recovery up to 95 %
- Steplessly controlled transmission performance
- No preheating required (down to -20 °C)
- No condensation
- No bypass required

Air filtration

The outdoor air goes through two cleaning stages, reaches the highest standard. A fine-meshed grate (washable) at the entry of the unit prevents insects, leaves, etc. from reaching the unit. When the outdoor air leaves the unit, it flows through a high-capacity fine pollen filter (ePM_{1.0} 55 % (F7)). The operator receives a message when it is time to change the filter. The activated carbon filter can be inserted in place of the standard supply air filter. This is a high-capacity filter (ePM_{2.5} 50 %) with high efficiency against particles (pollen, fine dust, etc.) and against gaseous pollutants and odours (agriculture, traffic, etc.).

Air delivery

Two backward-curved centrifugal fans with EC direct current motors deliver the air. The rotating wheel made of high-tech composite material is produced in one piece with optimised fluid mechanics, and ensures quiet operation of the unit. The electronics built into the engine enable the air volumes to be finely regulated between 15 and 100 %. The fans are arranged in such a way that no extract air can find its way to the supply air.

Suitability for winter

Due to the built-in enthalpy recovery unit, no condensate is formed in the unit. No preheating (electric air heater) is necessary for outdoor temperatures down to -20 °C. The flow rate ratio between supply and extract air is not changed.

Summer operation

The energy recovery is automatically reduced to a minimum at high outdoor temperatures. This enables night cooling (free cooling) in the summer as well as when the seasons change. It is not necessary to arrange for a bypass via dampers and a drive. In addition, the CoolVent® option can recover cold in air-conditioned buildings. The hot outdoor air is cooled and dried with the air-conditioned extract air.

Installation

The HomeVent® comfort ventilation unit is characterised by a compact design. It is possible to access the unit from both sides for servicing. No condensate forms in the unit, meaning that it can be installed in any position imaginable. We recommend the corresponding mounting sets with vibration dampers for the different installation positions.

Standard operator terminal BG02 E

The operator terminal consists of a plastic casing for on-wall mounting. The target air volume and the target air humidity can be set with two rotary knobs. With the party button, the air volume can be increased for a limited period of time. The connection to the HomeVent® comfort ventilation unit is made via RJ45 plug connection. The unit can also be installed in a secondary room.

TopTronic® E room control module comfort plus

The TopTronic® E room control module comfort plus is available either with a black or white design, operated by a colour touchscreen (4.3 inch). The connection to the HomeVent® comfort ventilation unit is made via RJ45 plug connection or plug terminals (max. 0.75 mm²). The unit can be installed on the wall with an on-wall mounted frame or with a wall-mounting plate and flush-mounted boxes. The unit can be installed in a secondary room.

Functional possibilities:

- Operation of all Hoval units connected to the bus.
- Authorisation management for operation.
- Efficient control of the ventilation system by working with day programmes.
- Selection between different start screens possible during commissioning.
- Customer-specific configuration of the screen for displaying the following elements:
 - Date and time
 - Moon phases
 - Current air volume in %
 - Maximum target humidity in %
 - Active day or week programme
 - Display of current room air quality (optional VOC or CO₂ air quality sensor must be installed for this purpose)
 - Display of the current weather or the weather forecast (only possible in combination with HovalConnect)

Air quality

Optionally, a VOC or CO₂ air quality sensor can be installed in the unit during commissioning. In addition, an activated carbon filter can be installed on the supply air side as an option. The VOC air quality sensor continuously monitors the extract air for volatile organic components and regulates the supplied or discharged air volume via the speed of the fans. This results in optimal air quality in the building with minimal energy input.

- VOC air quality sensor on the extract air side:
The extract air is continuously monitored for odours, cleansing agents, etc. If the concentration of the extract air exceeds a certain value, the air volume is increased correspondingly. The sensitivity can be chosen. On the TopTronic® E room control module comfort plus, the air quality is displayed by a bar, which will either be green (good air), orange (slightly contaminated air) or red (bad air).

Cooling

The fresh air can be pre-cooled using the CoolVent® option. However, this requires an air-conditioning system to be present in order to provide the necessary cooling in the room. The enthalpy recovery system extracts heat and humidity from the warm outdoor air and feeds it to the cold extract air. The energy consumption of the air-conditioning system is thereby reduced. The efficiency for this process is 85 %. The CoolVent® function is activated during commissioning.

Function HomeVent® ER (200-400)

The outside air fan draws in outdoor air via the main line. In the first stage, this air is cleaned via a fine-meshed grate. In the enthalpy recovery system, the supply air is heated, depending on the temperature, and humidified. The extent to which heat and humidity are recovered is dependent on the temperature and humidity differences between the exhaust air and the outdoor air as well as on the rotor speed. Then the pre-treated outdoor air is cleaned by means of a pollen fine dust filter. The exhaust air fan sucks in the used air via the coarse dust filter.

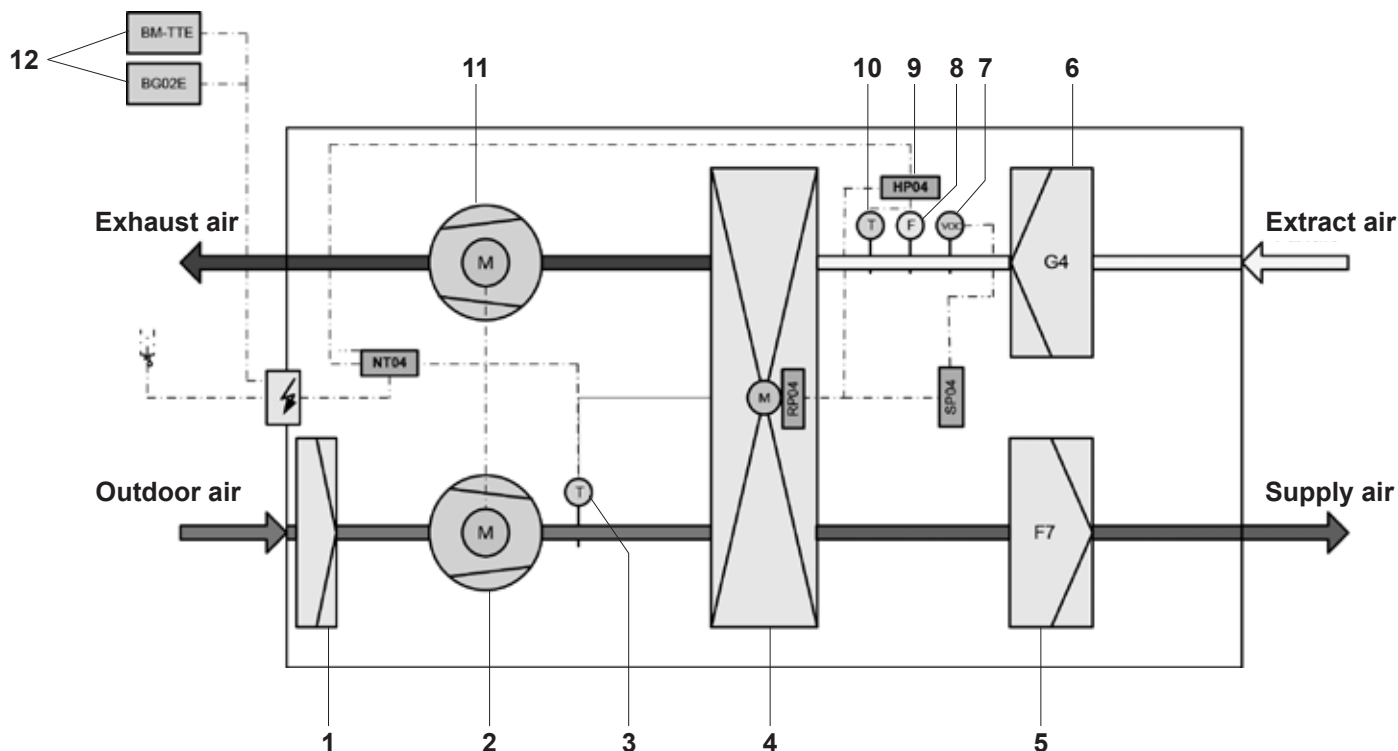
The enthalpy recovery system extracts heat and humidity from the air and passes these to the supply air.

The way the fans are positioned – with overpressure on the supply air side and underpressure on the extract air side – means that no extract air can find its way to the supply air.

The electronic controls and the operator terminal feature the following additional functions:

- The speed of the enthalpy recovery system is regulated by the outdoor temperature. In this way, the heat and humidity recovery is adjusted automatically.
- The humidity regulation changes the flow rate. Thus, if the humidity indoors is too high, for instance, more dry air is introduced from the outside.
- The functions of the unit are continuously monitored. In case of a malfunction, the device is switched to "fault" mode. The malfunction is displayed on the operator terminal.

- | | |
|---|---|
| 1 Prefilter | 8 Moisture sensor |
| 2 Outside air fan | 9 Electronics |
| 3 Outdoor sensor | 10 Extract air sensor |
| 4 Enthalpy recovery unit | 11 Exhaust air fan |
| 5 Supply air filter | 12 Operator terminal BG02 E or TopTronic® E |
| 6 Extract air filter | room control module comfort plus |
| 7 VOC or CO ₂ extract air sensor | |



Comfort ventilation unit



HomeVent® ER (200-400)			
Comfort ventilation unit for ventilating a residential unit with high-efficiency heat and humidity recovery for any installation positions.			
HomeVent® ER type		Nominal flow rate m³/h	Ext. pressure Pa
(200)	A+	200	100
(300)	A+	300	100
(400)	A	400	100

Part No.

7018 079
 7018 081
 7018 665

Required accessories



Operator terminal BG02 E
 for HomeVent® ER and ERT
 Plastic housing for on-wall mounting.
 Knob for flow rate and room air humidity.
 Service and fault display.

2066 444



TopTronic® E room control module comfort plus white
 for HomeVent® ER and ERT
 Operation of all Hoval ventilation units, heating and hot water circuits connected to the bus system.
 Customer-specific configurable start screen.

6037 072

incl. fitting accessories



TopTronic® E room control module comfort plus black
 for HomeVent® ER and ERT
 Operation of all Hoval ventilation units, heating and hot water circuits connected to the bus system.
 Customer-specific configurable start screen.

6042 543

incl. fitting accessories



HovalConnect
 HovalConnect LAN
 HovalConnect WLAN

6049 496
 6049 498

TopTronic® E interface modules
 HovalConnect Modbus
 HovalConnect KNX

6049 501
 6049 593

Technical information
 see separate chapter.

Recommended accessories



VOC air quality sensor
for HomeVent® ER and ERT
Can be installed on extract air side
Only in connection with the TopTronic® E room control module comfort plus.

6058 206



CO₂ air quality sensor
for HomeVent® ER and ERT
Can be installed on extract air side
Only in connection with the TopTronic® E room control module comfort plus.

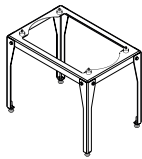
6058 211

Notice
CO₂ sensor cannot be combined with VOC sensor



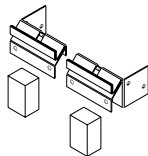
Cool recovery unit CoolVent®
for HomeVent® ER and ERT
Active-controlled cool recovery for air-conditioned buildings.
Activated by Hoval service technicians during commissioning.

6035 255



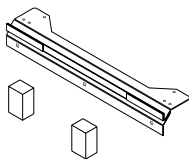
Unit base ER (200-400)
for HomeVent® ER
Red painted steel (device colour)
incl. 4 vibration dampers
height-adjustable feet
Height: 475-500 mm

6052 203



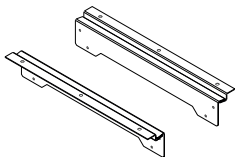
Horizontal wall mounting set
for HomeVent® ER
Steel bracket red coated
with vibration-damping support

6042 303



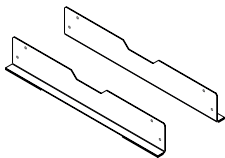
Vertical wall mounting set
for HomeVent® ER and ERT
Steel bracket red coated
with vibration-damping support

6046 215



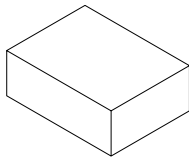
Ceiling mounting set
for HomeVent® ER
Steel bracket red coated
with vibration-damping support

6042 305



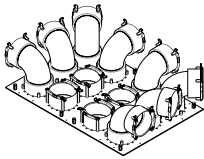
Floor mounting set
for HomeVent® ER
Steel bracket red coated
with vibration-damping support

6042 306



Floor mounting set upright
for HomeVent® ER
4 vibration-damping supports
80 x 60 x 30 mm

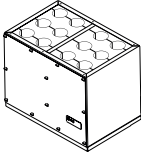
6044 961



Plywood 12 x 90
 consisting of:
 galvanised steel plate
 8 90° elbows
 4 straight nozzles

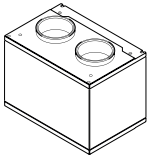
Part No.

6050 554



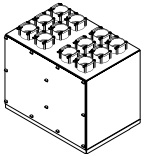
Acoustic insulating box for plywood 12 x 90
 for HomeVent® ER (200-400)
 Casing made from red foil-plated sheet steel
 Connection nozzle 2 x DN 160/180
 Can be screwed onto plywood
 Acoustic insulating body on supply and extract air sides,
 access panel, incl. throttle orifices
 Dimensions (L x W x H):
 440 x 560 x 374 mm

6056 894



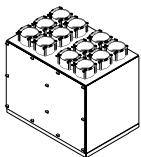
Acoustic insulating box SDB-160-400
 for HomeVent® ER (200-400)
 Casing made from red foil-plated sheet steel
 Connection nozzle 4 x DN 160/180
 Acoustic insulating body on supply and extract air sides
 Dimensions (L x W x H):
 400 x 560 x 374 mm

6051 854



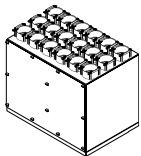
Distribution box VTB-160 12 x 75
 for HomeVent® ER (200-400)
 Casing made from red foil-plated sheet steel
 Connection nozzle 2 x DN 160/180
 Connection nozzle 12 x DN 75
 Acoustic insulating body on supply and extract air sides,
 access panel, incl. throttle orifices
 Dimensions (L x W x H):
 480 x 560 x 374 mm

6051 800



Distribution box VTB-160 12 x 90
 for HomeVent® ER (200-400)
 Casing made from red foil-plated sheet steel
 Connection nozzle 2 x DN 160/180
 Connection nozzle 12 x DN 90
 Acoustic insulating body on supply and extract air sides,
 access panel, incl. throttle orifices
 Dimensions (L x W x H):
 480 x 560 x 374 mm

6051 802



Distribution box VTB-160 18 x 75 3R
 for HomeVent® ER (200-400)
 and acoustic insulating box SDB-160-400
 Casing made from red foil-plated sheet steel
 Connection nozzle 2 x DN 160/180
 Connection nozzle 18 x DN 75
 Acoustic insulating body on supply and extract air sides,
 access panel, incl. throttle orifices
 Dimensions (L x W x H):
 480 x 560 x 374 mm

6051 904

Notice
 Use only in conjunction with additional silencers.

Filter HomeVent® ER (200-400)



Supply air filter ER
for HomeVent® ER
Filter class ISO 16890: ePM_{1,0} 55 % (F7)

5038 283



Activated carbon filter ER
for HomeVent® ER
Protection against pollutants and odours
Alternative to supply air filter ER
Filter class ISO 16890: ePM_{2,5} 50 %

5039 587



Extract air filter ER
for HomeVent® ER
Filter class ISO 16890: ePM₁₀ 60 % (G4)

5038 284

HomeVent® ER ventilation unit (200-400)

Type		(200)	(300)	(400)
• Max. flow rate (at 100 Pa external pressure)	m³/h	200	300	400
• Air flow rate control range	m³/h	30-200	45-300	60-400
• Humidity setpoint setting	%		30...65	
Electrical connection				
• Voltage (AC)	V		230	
• Frequency	Hz		50	
• Max. current consumption	A	0.7	1.1	1.6
• Type of protection			IP 40	
• Power consumption (at 70 % of the max. flow rate, 50 Pa external pressure)	W	34	54	81
• Degree of heat processing (as per DIN 4719)	%		90-130	
• Temperature ratio (at 70 % of the max. flow rate)	%	84	83	82
• Humidity ratio (at 70 % of the max. flow rate)	%	90	88	86
• Specific fan power SFP (at 70 % of the max. flow rate)	W/m³/h	0.24	0.24	0.28
Filter class (as per ISO-16890)				
• Supply air filter			ePM _{1,0} 55 %	
• Extract air filter			ePM ₁₀ 60 %	
• Sound power level			see table on following page	
Leakage (as per EN 13141-7)				
• Leakage class	%		C1	
• Internal		0.1	0.1	0.1
• External	%	0.2	0.1	0.1
• Net weight	kg		31	
Application limits for device setup, weather-protected (EN 60721-3-3), 3K5 as per EN 50090-2-2				
• Ambient temperature	°C		-20...45	
• Ambient humidity	g/kg		max. 15	
• Dew point temp. in installation room	°C		< 15	
Air conditions (moderate outdoor climate EN 60721-2-1)				
• Outside air intake temperature	°C		-20...40	
• Outside air intake humidity	% r.h.		5...95	
• Extract air temperature	°C		18...35	
• Extract air humidity	% r.h.		5...80	
• Max. extract air humidity winter	g/kg		12	

Sound power: HomeVent® ER (200)

Casing

Flow rate SUP/EXT [m³/h]	External pressure [Pa]	125	250	500	1000	2000	4000	8000	Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
140	50	41.9	46.5	34.9	29.6	22.2	11.6	1.8	39.0
200	100	38.8	47.6	39.2	32.6	27.4	18.7	10.7	42.2

Fresh air

Flow rate [m³/h]	External pressure [Pa]	125	250	500	1000	2000	4000	8000	Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
140	50	49.6	55.1	46.0	45.0	40.2	35.1	28.7	51.1
200	100	50.1	60.7	54.2	47.7	46.4	43.2	38.8	57.2

Supply air

Flow rate [m³/h]	External pressure [Pa]	125	250	500	1000	2000	4000	8000	Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
140	50	47.9	50.4	38.4	32.9	23.9	17.2	16.3	42.9
200	100	49.0	53.3	45.7	37.0	29.9	21.3	16.5	47.9

Extract air

Flow rate [m³/h]	External pressure [Pa]	125	250	500	1000	2000	4000	8000	Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
140	50	44.3	54.6	37.0	34.9	23.4	17.6	16.3	45.8
200	100	47.4	57.5	45.9	39.2	29.4	22.4	17.0	51.3

Exhaust air

Flow rate [m³/h]	External pressure [Pa]	125	250	500	1000	2000	4000	8000	Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
140	50	45.5	56.1	48.2	43.5	39.2	33.7	23.4	50.5
200	100	48.4	59.0	54.1	49.0	45.2	41.1	32.6	56.0

Sound power: HomeVent® ER (200) + acoustic insulating box SDB-160-400**Supply air**

Flow rate [m³/h]	External pressure [Pa]	125	250	500	1000	2000	4000	8000	Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
140	50	38.2	39.7	22.3	15.8	14.1	15.7	16.2	31.5
200	100	41.2	40.8	31.1	19.1	15.3	15.8	16.2	34.7

Extract air

Flow rate [m³/h]	External pressure [Pa]	125	250	500	1000	2000	4000	8000	Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
140	50	39.8	44.0	21.8	16.5	13.8	15.5	16.2	34.7
200	100	42.2	43.8	30.8	20.5	15.1	15.9	16.3	36.8

Sound power: HomeVent® ER (200) + distribution box VTB-160 12 x 75**Sound power: HomeVent® ER (200) + distribution box VTB-160 12 x 90****Supply air**

Flow rate [m³/h]	External pressure [Pa]	125	250	500	1000	2000	4000	8000	Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
140	50	29.5	30.4	17.8	12.6	13.6	15.5	16.1	24.9
200	100	31.5	33.2	25.0	14.7	14.4	15.7	16.2	27.7

Extract air

Flow rate [m³/h]	External pressure [Pa]	125	250	500	1000	2000	4000	8000	Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
140	50	29.4	31.2	17.7	13.1	14.1	15.7	16.2	25.4
200	100	30.9	36.6	25.2	14.9	14.6	15.8	16.2	30.4

Sound power: HomeVent® ER (200) + IsiSound**Fresh air**

Flow rate [m³/h]	External pressure [Pa]	125	250	500	1000	2000	4000	8000	Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
140	50	47.8	52.4	34.1	34.7	28.6	23.0	19.5	45.2
200	100	49.3	53.0	41.8	37.4	34.6	30.7	27.6	47.7

Exhaust air

Flow rate [m³/h]	External pressure [Pa]	125	250	500	1000	2000	4000	8000	Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
140	50	46.1	51.4	37.8	34.0	26.5	20.4	16.9	43.7
200	100	48.8	52.2	43.8	39.4	32.4	26.8	19.9	47.3

Sound power: HomeVent® ER (300)

Casing

Flow rate SUP/EXT [m³/h]	External pressure [Pa]	125	250	500	1000	2000	4000	8000	Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
210	50	39.9	49.9	36.0	31.6	24.6	14.5	6.4	42.8
300	100	44.6	47.5	46.2	38.5	32.4	25.2	18.0	45.5

Fresh air

Flow rate [m³/h]	External pressure [Pa]	125	250	500	1000	2000	4000	8000	Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
210	50	47.9	59.6	49.7	46.3	46.2	41.9	36.3	55.5
300	100	54.6	56.8	64.2	52.0	50.7	49.7	44.1	61.8

Supply air

Flow rate [m³/h]	External pressure [Pa]	125	250	500	1000	2000	4000	8000	Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
210	50	46.4	52.2	42.5	35.4	29.1	20.5	16.4	46.5
300	100	51.5	51.9	48.7	42.2	34.6	27.1	17.4	49.0

Extract air

Flow rate [m³/h]	External pressure [Pa]	125	250	500	1000	2000	4000	8000	Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
210	50	46.2	58.0	43.6	38.0	29.0	22.1	16.9	51.6
250	100	53.1	54.6	53.3	46.1	35.2	28.8	19.4	52.5

Exhaust air

Flow rate [m³/h]	External pressure [Pa]	125	250	500	1000	2000	4000	8000	Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
210	50	47.0	57.0	51.6	47.8	44.2	40.3	31.1	54.2
250	100	54.0	56.9	61.7	54.9	50.7	48.3	40.2	60.7

Sound power: HomeVent® ER (300) + acoustic insulating box SDB-160-400

Supply air

Flow rate [m³/h]	External pressure [Pa]	125	250	500	1000	2000	4000	8000	Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
210	50	39.8	38.5	26.0	18.0	15.2	16.0	16.3	31.8
300	100	44.6	39.6	35.2	25.1	17.5	16.4	16.3	35.6

Extract air

Flow rate [m³/h]	External pressure [Pa]	125	250	500	1000	2000	4000	8000	Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
210	50	41.2	41.9	27.1	19.4	15.0	15.9	16.4	34.7
300	100	45.1	40.9	37.8	27.5	17.2	17.1	16.9	37.2

Sound power: HomeVent® ER (300) + distribution box VTB-160 12 x 75

Supply air

Flow rate [m³/h]	External pressure [Pa]	125	250	500	1000	2000	4000	8000	Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
210	50	30.1	32.0	23.0	14.6	14.3	15.6	16.2	27.3
300	100	35.0	36.0	36.2	22.9	16.6	16.4	16.3	34.3

Extract air

Flow rate [m³/h]	External pressure [Pa]	125	250	500	1000	2000	4000	8000	Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
210	50	29.6	35.2	23.8	14.8	15.0	15.7	16.1	29.2
300	100	34.8	35.2	36.3	21.6	16.8	16.4	16.3	34.1

Sound power: HomeVent® ER (300) + IsiSound

Fresh air

Flow rate [m³/h]	External pressure [Pa]	125	250	500	1000	2000	4000	8000	Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
210	50	46.7	50.7	37.6	36	33.4	29.6	25.7	45.6
300	100	52.1	50.9	47.6	41.4	38.9	37.3	33.5	49.2

Exhaust air

Flow rate [m³/h]	External pressure [Pa]	125	250	500	1000	2000	4000	8000	Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
210	50	47.0	50.3	41.7	38.6	31.4	26.1	19.1	45.4
300	100	52.2	50.7	50.7	45.7	37.9	33.9	25.8	50.6

Sound power: HomeVent® ER (400)

Casing

Flow rate SUP/EXT [m³/h]	External pressure [Pa]	125	250	500	1000	2000	4000	8000	Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
280	50	41.5	47.1	43.6	37.0	30.1	22.4	14.7	43.7
400	100	45.6	50.0	51.5	40.7	36.6	30.2	24.3	49.9

Fresh air

Flow rate [m³/h]	External pressure [Pa]	125	250	500	1000	2000	4000	8000	Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
280	50	50.4	55.1	56.9	49.9	48.8	46.7	40.9	57.1
400	100	55.7	58.5	66.7	54.0	54.8	54.3	49.8	65.3

Supply air

Flow rate [m³/h]	External pressure [Pa]	125	250	500	1000	2000	4000	8000	Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
280	50	50.1	50.5	46.9	39.5	32.2	24.4	16.7	47.0
400	100	54.2	54.2	58.6	44.8	38.0	31.7	20.0	56.2

Extract air

Flow rate [m³/h]	External pressure [Pa]	125	250	500	1000	2000	4000	8000	Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
280	50	49.9	55.8	51.1	43.6	33.0	26.1	17.9	51.5
400	100	55.1	55.0	53.3	46.8	39.7	33.7	23.2	53.1

Exhaust air

Flow rate [m³/h]	External pressure [Pa]	125	250	500	1000	2000	4000	8000	Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
280	50	50.5	58.2	60.3	53.7	48.5	45.3	36.7	59.2
400	100	57.7	59.4	66.4	58.4	54.9	53.3	46.0	65.3

Sound power: HomeVent® ER (400) + acoustic insulating box SDB-160-400

Supply air

Flow rate [m³/h]	External pressure [Pa]	125	250	500	1000	2000	4000	8000	Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
280	50	44.9	38.4	33.8	23.3	16.4	16.2	16.3	34.2
400	100	48.5	43.4	38.0	27.5	20.7	18.0	16.7	39.3

Extract air

Flow rate [m³/h]	External pressure [Pa]	125	250	500	1000	2000	4000	8000	Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
280	50	43.2	40.4	38.6	25.4	16.2	16.5	16.6	36.9
400	100	47.9	43.8	36.8	28.4	21.2	19.5	18.5	39.3

Sound power: HomeVent® ER (400) + IsiSound

Fresh air

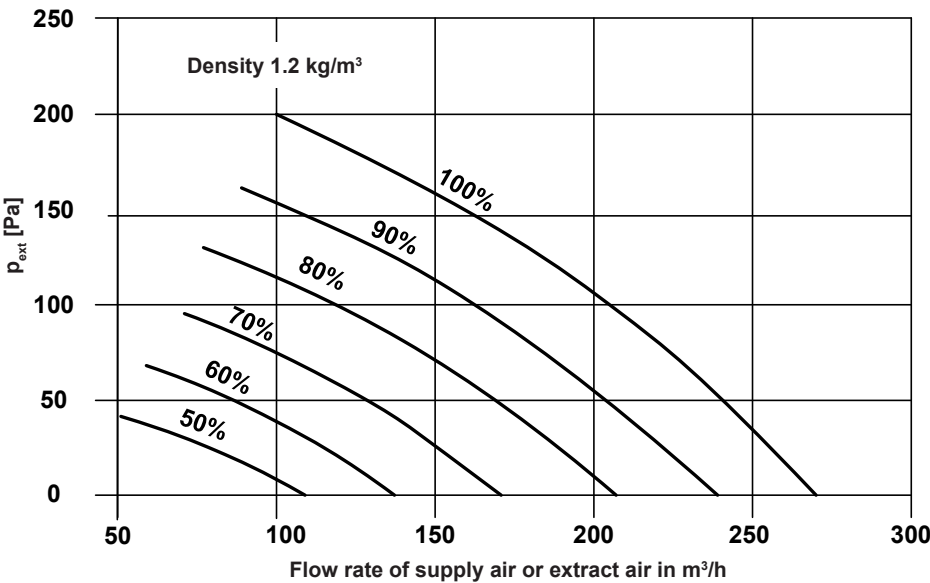
Flow rate [m³/h]	External pressure [Pa]								Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
		125	250	500	1000	2000	4000	8000	
280	50	49.2	49.7	44.7	39.8	37.2	34.7	30.2	47.3
400	100	54.5	54.5	53.1	43.9	43.2	42.3	39.5	53.5

Exhaust air

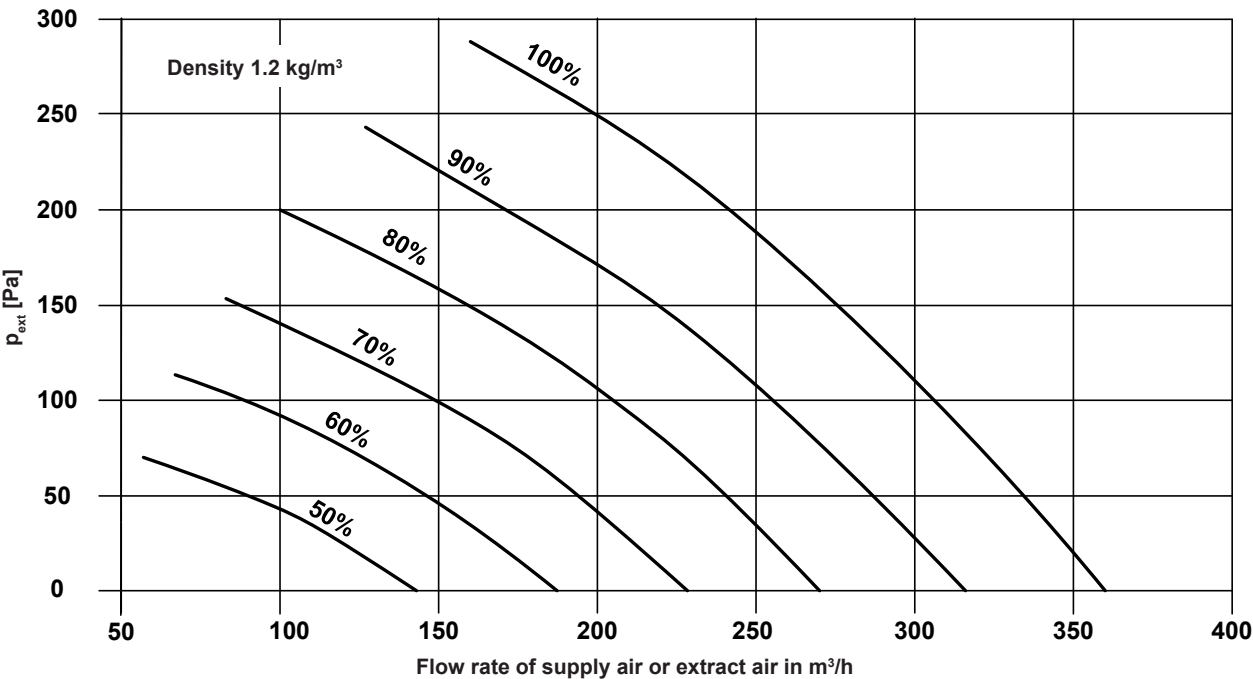
Flow rate [m³/h]	External pressure [Pa]								Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
		125	250	500	1000	2000	4000	8000	
280	50	49.7	49.6	47.2	44.0	35.7	30.9	22.8	48.3
400	100	57.0	54.1	56.2	49.2	42.3	38.8	31.2	55.5

Performance chart for air flow rate, HomeVent® ER (200)

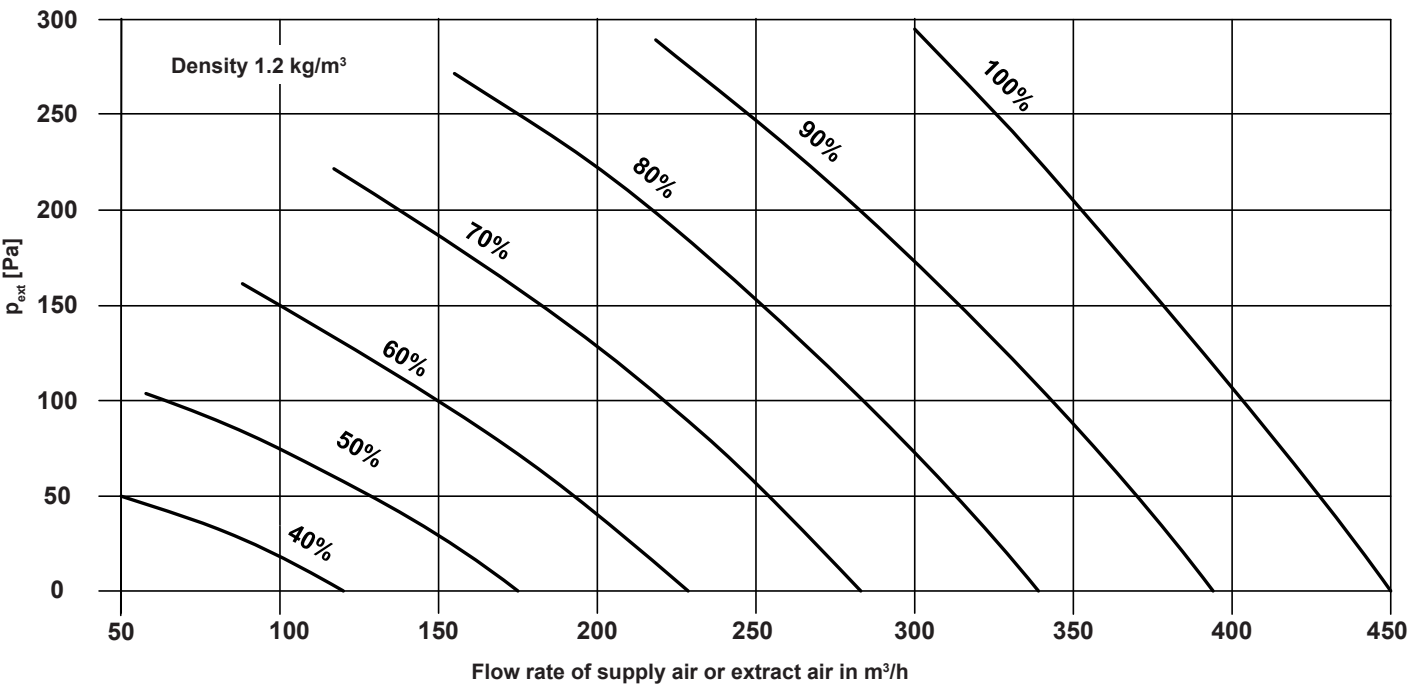
p_{ext} Sum of external pressure drops



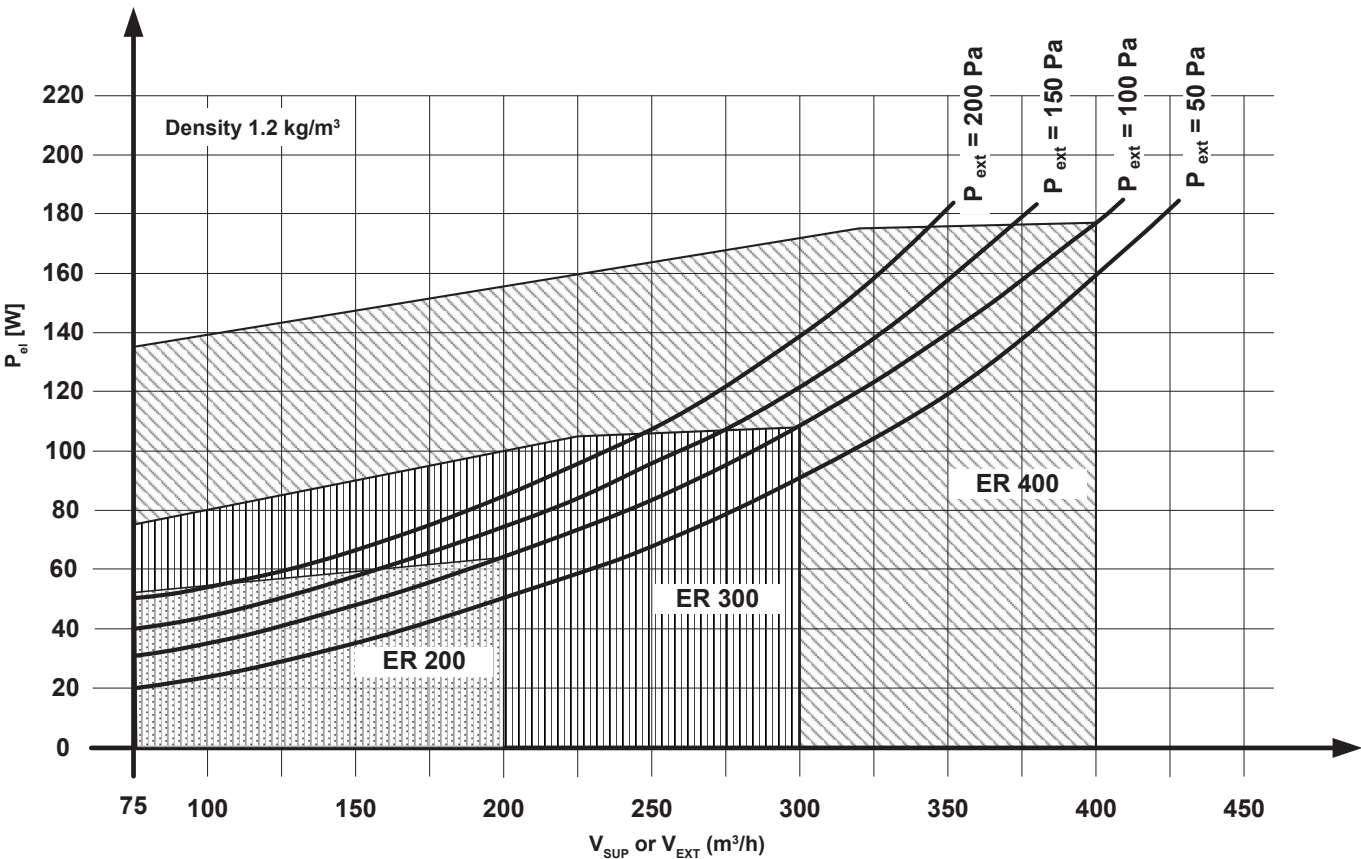
Performance chart for air flow rate, HomeVent® ER (300)



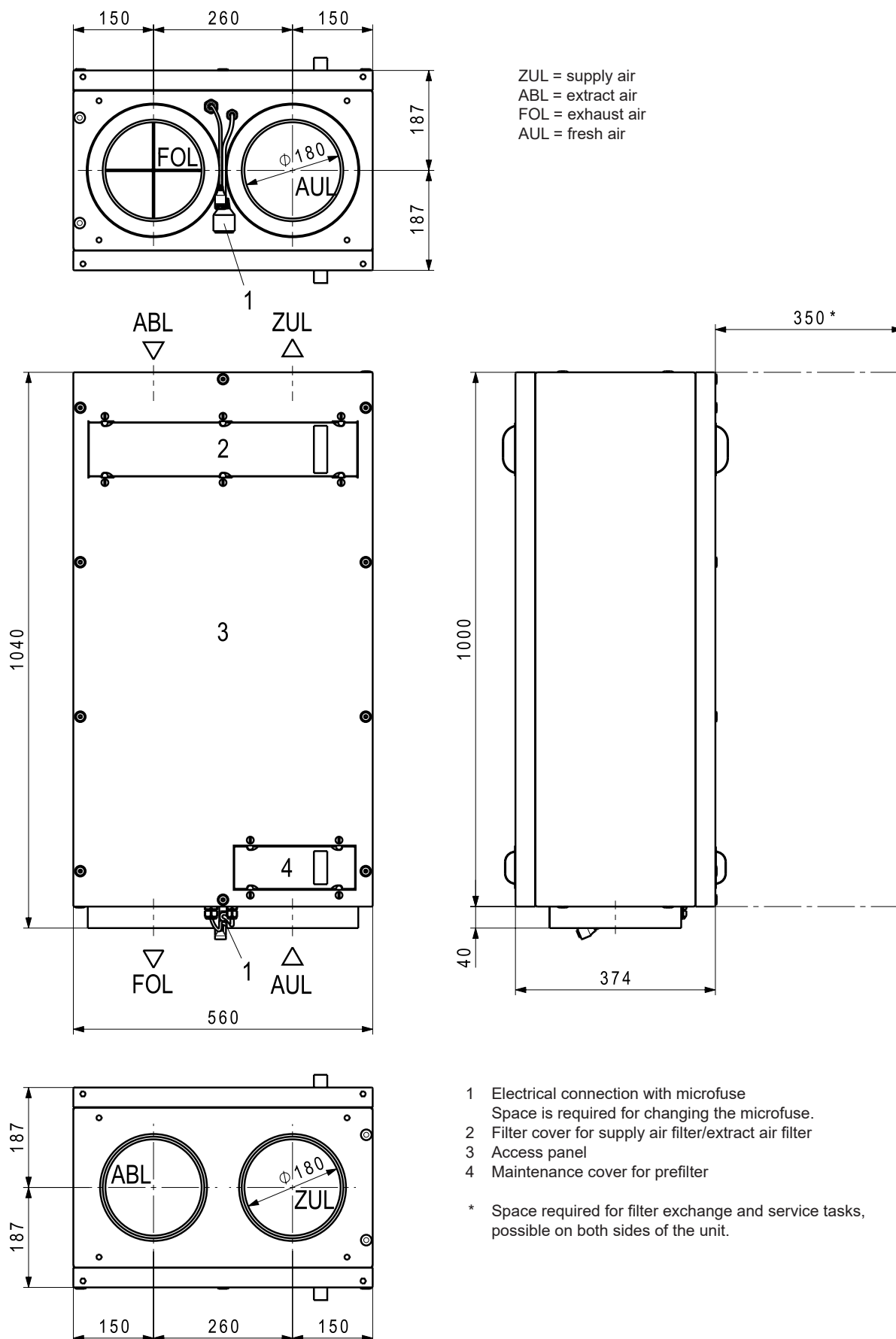
Performance chart for air flow rate, HomeVent® ER (400)



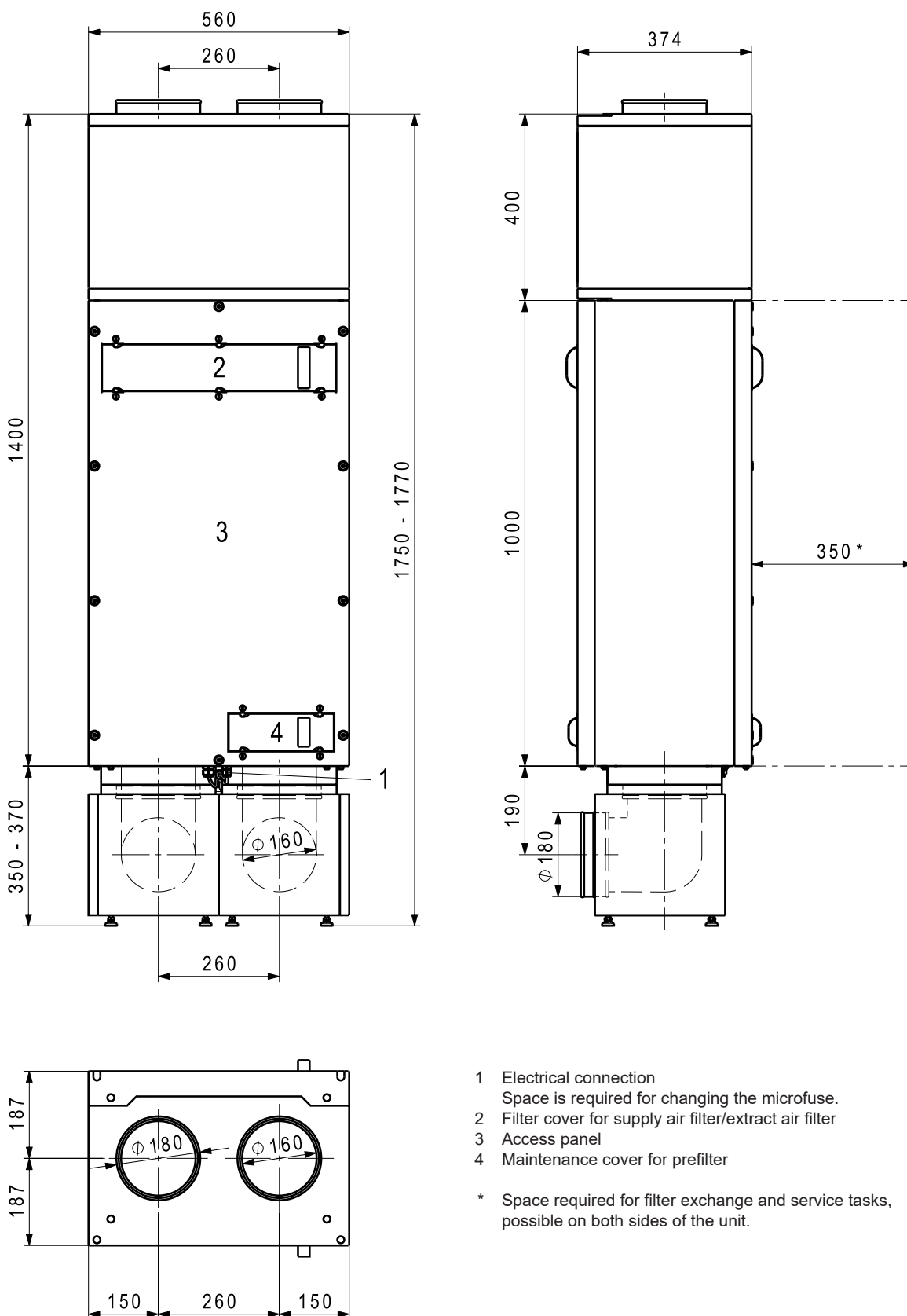
Electrical power consumption HomeVent® ER (200-400)



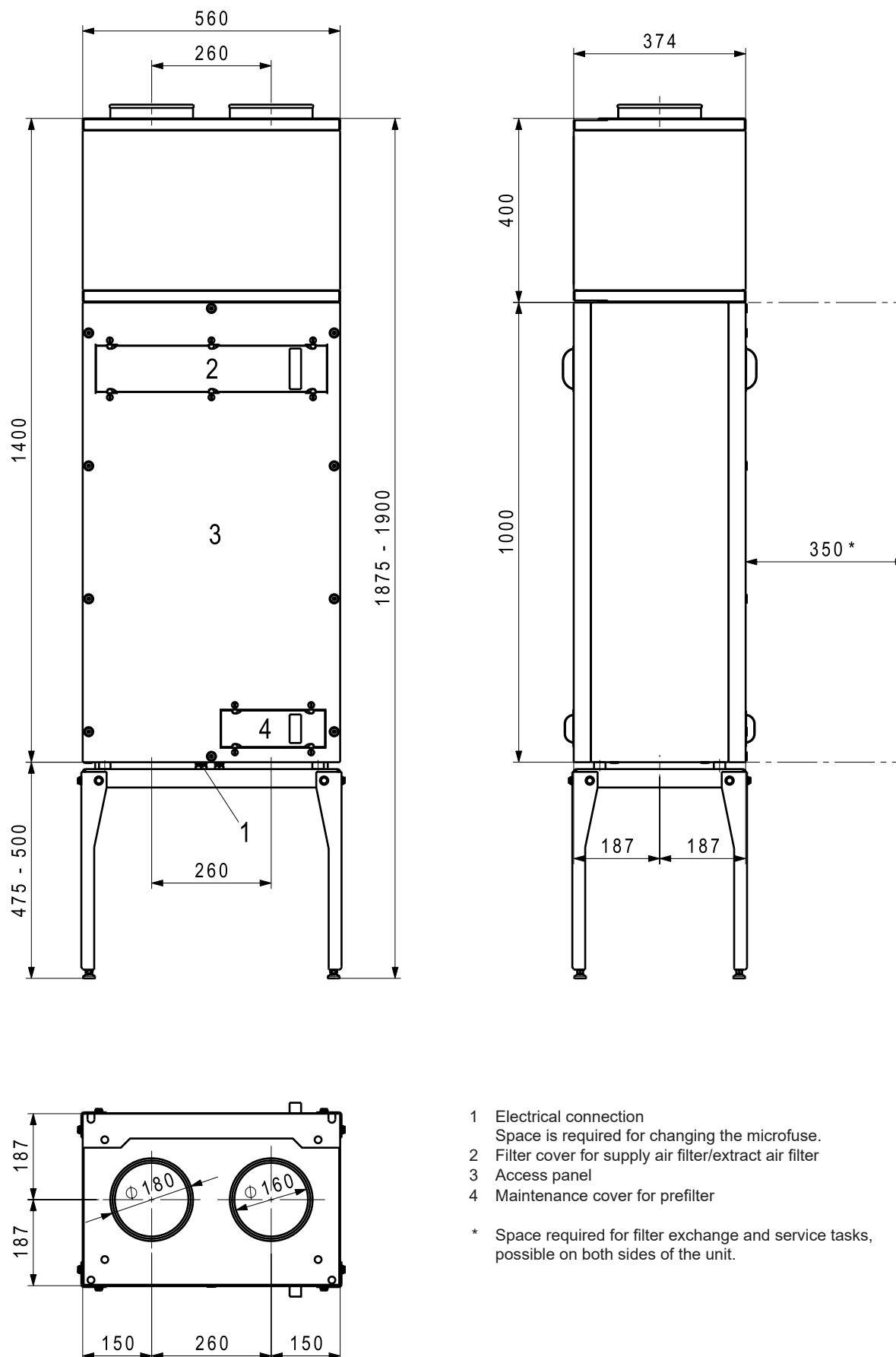
HomeVent® comfort ventilation unit



HomeVent® comfort ventilation unit with acoustic insulating box and IsiCube

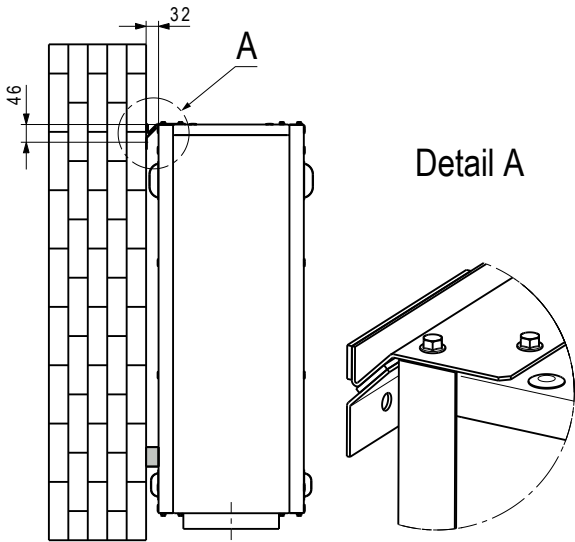


HomeVent® comfort ventilation unit with acoustic insulating box

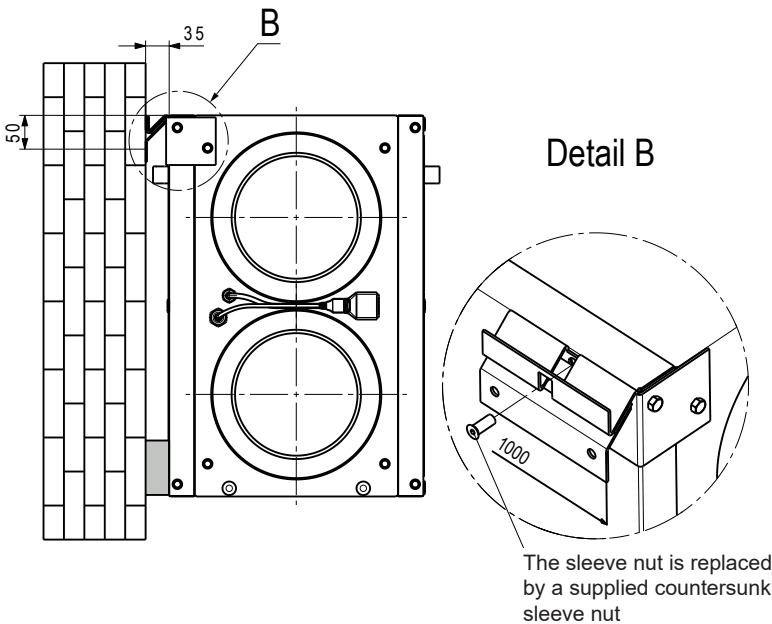


HomeVent® comfort ventilation unit
Installation with vibration dampers

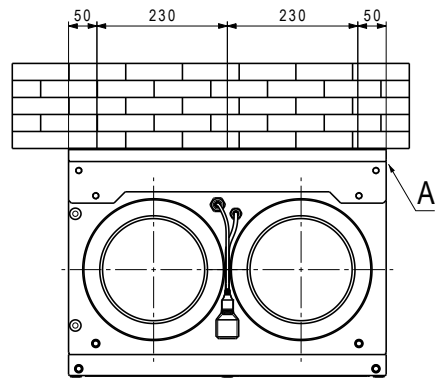
Vertical wall installation: S-WV



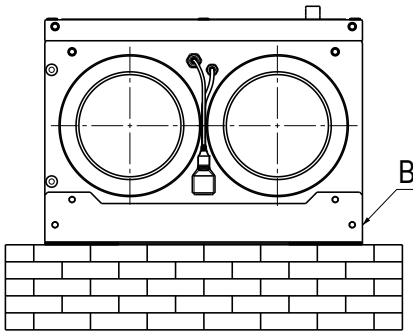
Horizontal wall installation: S-WH



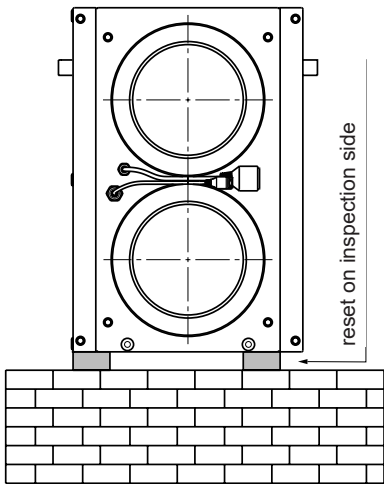
Ceiling installation: S-D



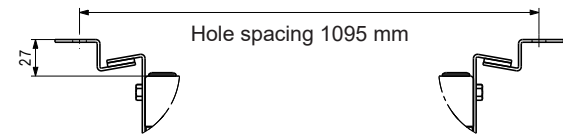
Floor installation: S-B



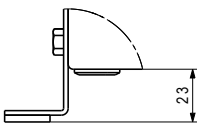
Floor installation: upright



Detail A



Detail B



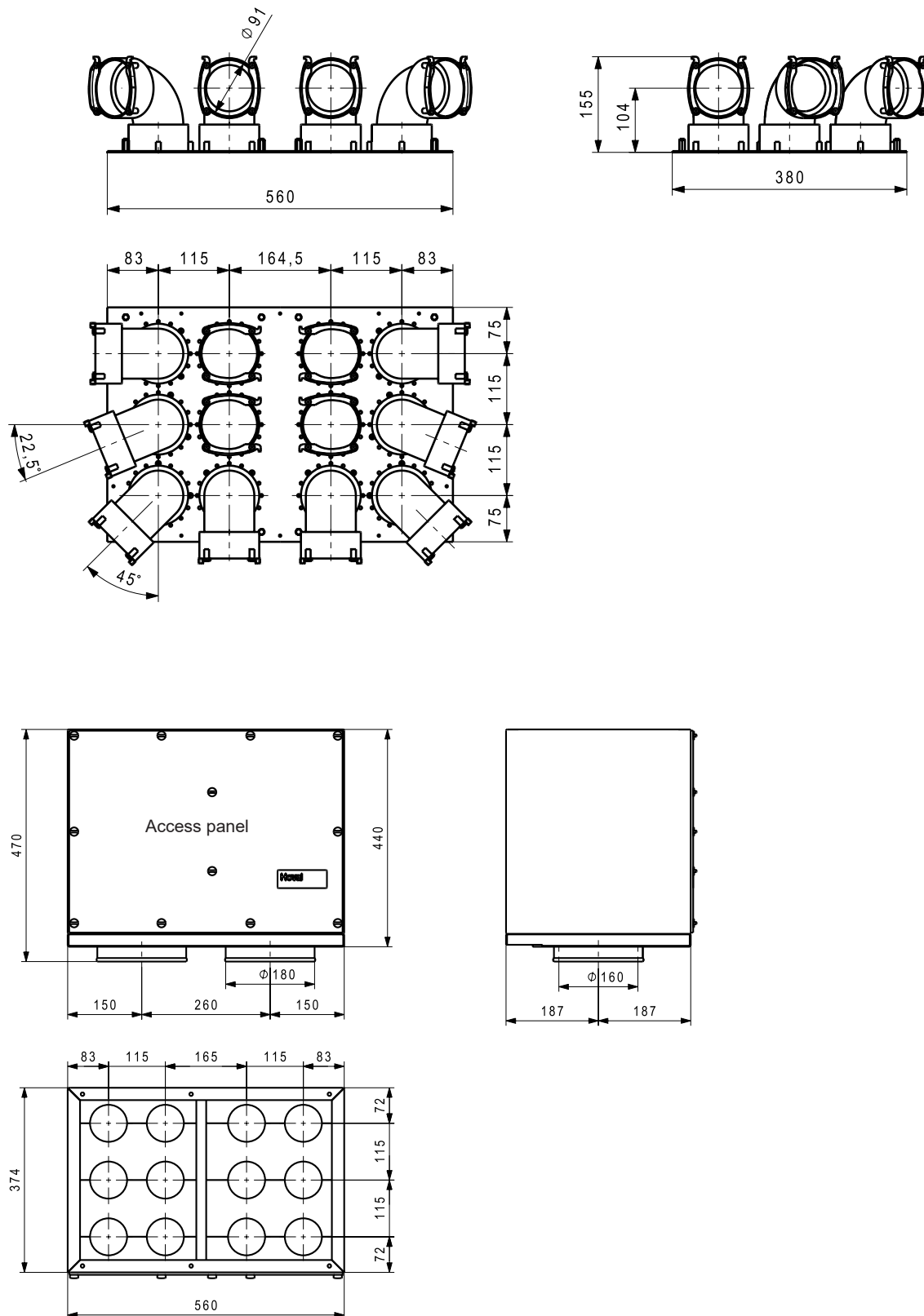
Can be installed in any position.

Plywood and acoustic insulating box for plywood 12 x 90

Casing made of red foiled sheet steel with sound insulation elements on supply air and extract air sides, can be screwed onto plywood 12 x 90

Connection nozzles:

2 x DN 160/180



Distribution boxes DN 160

Distribution box VTB-160 12 x 75 resp. 90

Casing made of red foiled sheet steel with access panel.

Sound insulation elements on supply air side and extract air side.

Connection nozzles:

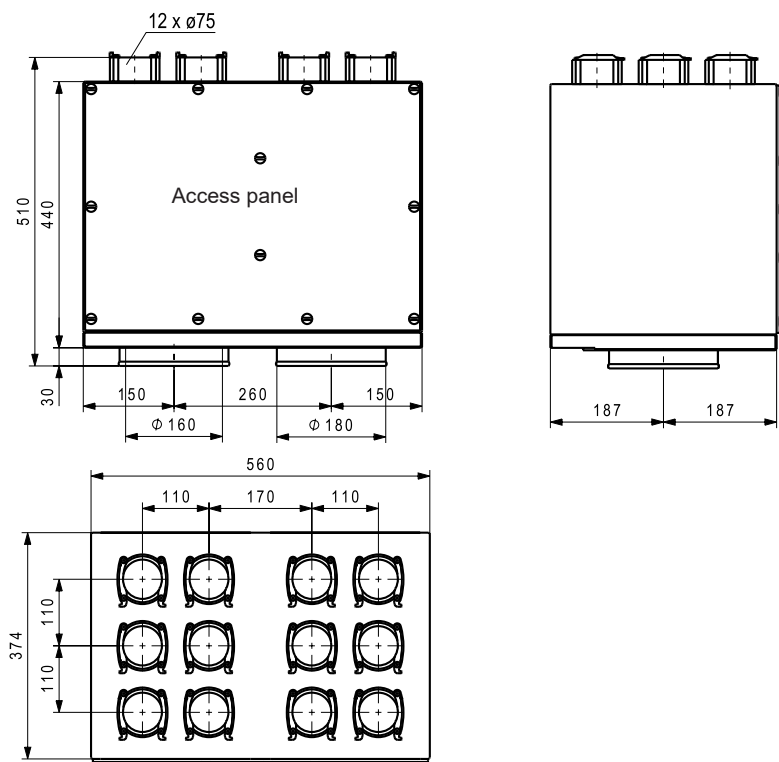
2 x DN 160/180

SUP 6 x 75, EXT 6 x 75

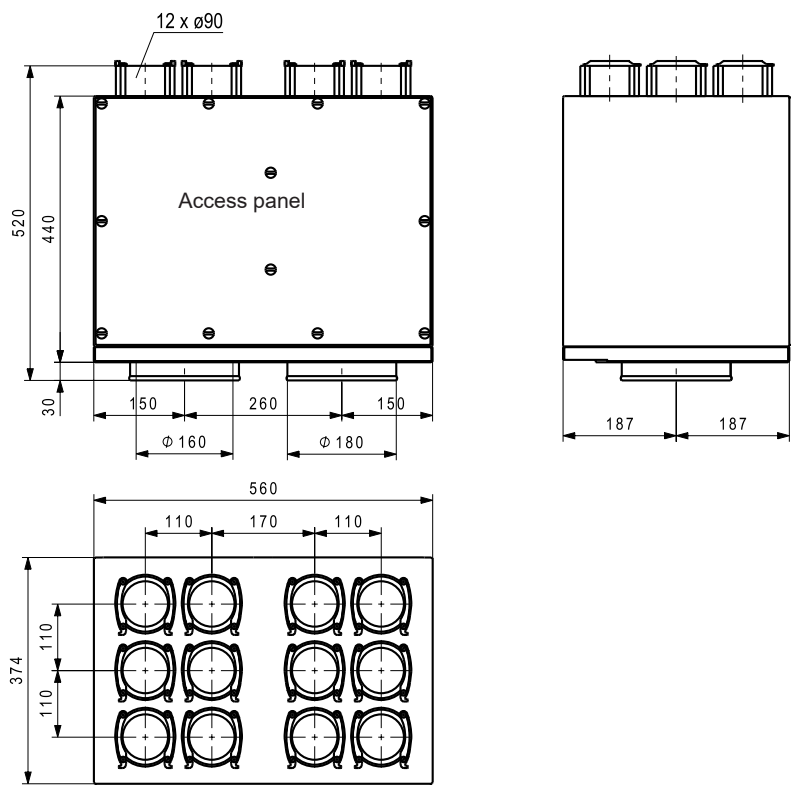
SUP 6 x 90, EXT 6 x 90

Included accessories: end caps and throttle orifices

Distribution box VTB-160 12 x 75



Distribution box VTB-160 12 x 90



Distribution box VTB-160 18 x 75 3R

Casing made of red foiled sheet steel with access panel.

Sound insulation elements on supply air side and extract air side.

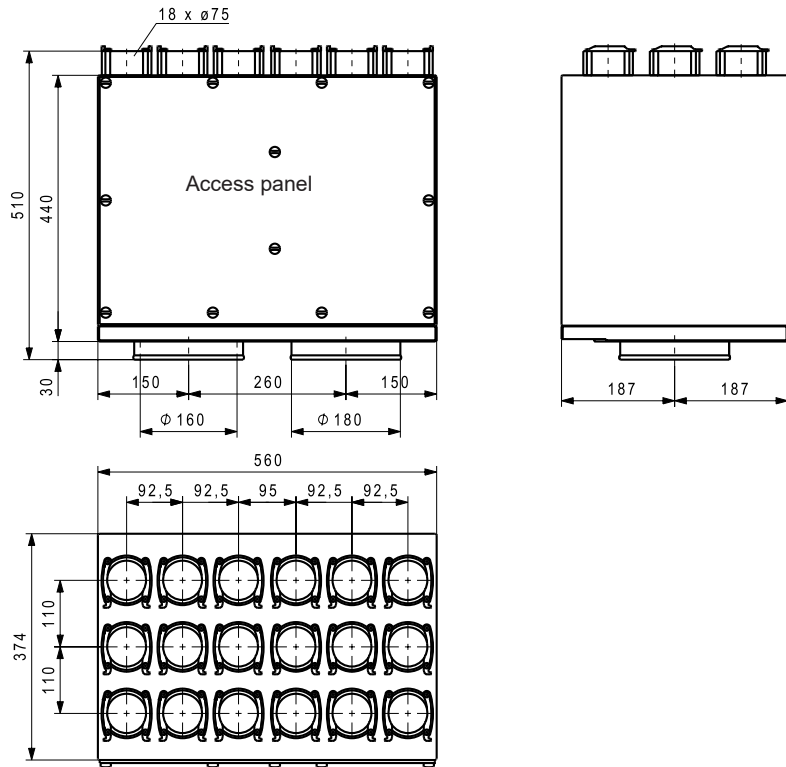
Additional silencer recommended

Connection nozzles:

2 x DN 160/180

SUP 9 x 75, EXT 9 x 75

Included accessories: end caps and throttle orifices



Acoustic insulating box SDB-160-400

Casing made from red foil-plated sheet steel

Sound insulation elements on supply air side and extract air side

