

Hoval HomeVent® ERT (250-450)
ventilation unit

- Comfort ventilation unit with self-adjusting heat and humidity recovery.
- 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).
- Unit can be equipped with adjustable feet or can be installed upright using the mounting set.
- 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 560 x 875 mm
Weight: 35 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 (Option CoolVent®)
- Mounting set, 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
- RJ45 socket
- 230 V socket



Tests

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

Model range

HomeVent® ERT type		Flow rate m ³ /h	Heat recovery efficiency %
(250)	A⁺	50-250	90-130
(350)	A⁺	70-350	90-130
(450)	A	80-450	90-130

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.

Office rooms, conference rooms and cloak-rooms are also ideal applications.

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

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 between 0 and 100 % 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 (electronic 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 the front for servicing. No condensate forms in the unit. The unit can be equipped with adjustable feet or can be installed upright using the mounting set.

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 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 precooled 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®
ERT (250-450)**

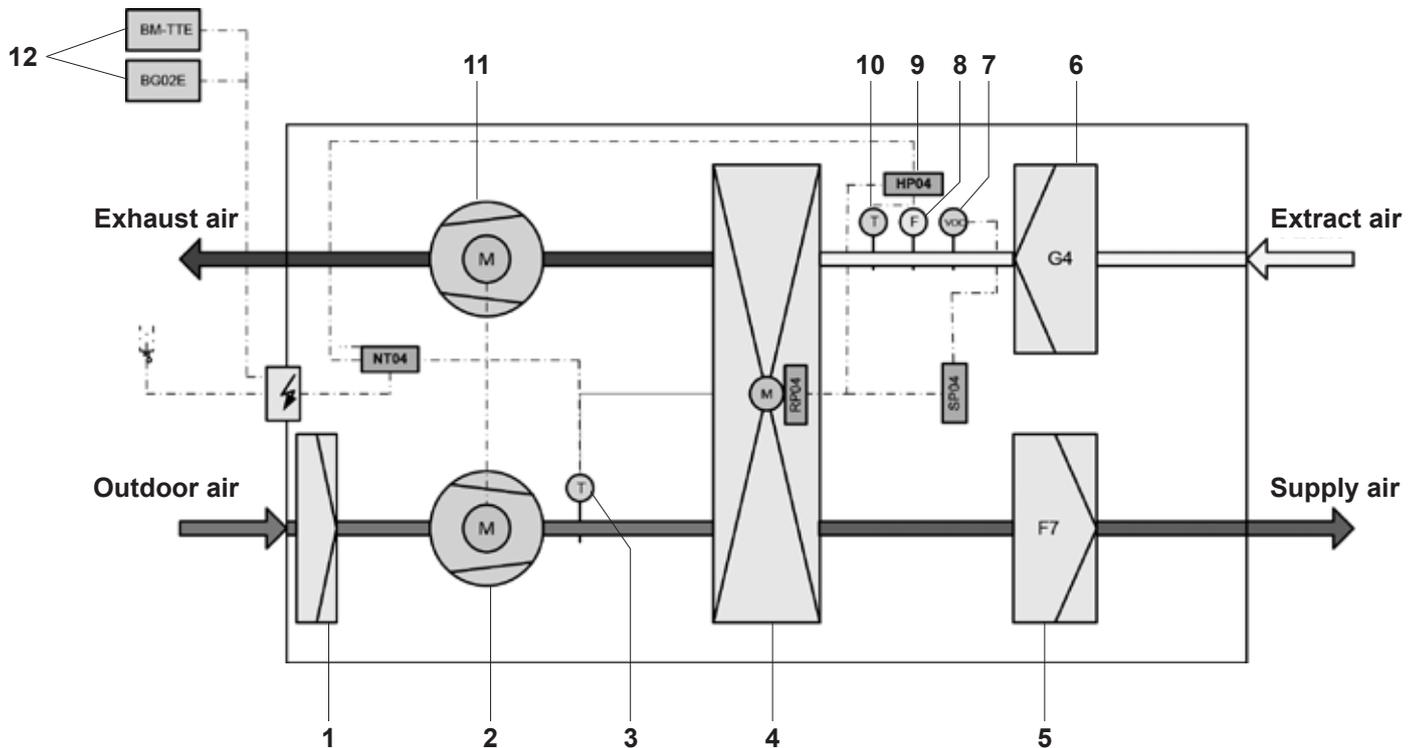
The outside air fan draws in outdoor air via the main line. In the first stage, this air is cleaned via a fine-meshed grate. In the enthalpy recovery system, the supply air is heated, depending on the temperature, and humidified. The extent to which heat and humidity are recovered is dependent on the 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 units



HomeVent® ERT (450)
Available starting June 2023

HomeVent® ERT (250-450)

Comfort ventilation unit for ventilating a residential unit with high-efficiency heat and humidity recovery.

HomeVent® ERT type		Nominal flow rate m³/h	Ext. pressure Pa
(250)	A+	250	100
(350)	A+	350	100
(450)	A	450	100

Part No.

7019 029
7019 030
7019 031

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.

Part No.

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

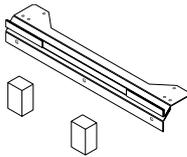
Notice

CO₂-sensor cannot be combined with VOC sensor



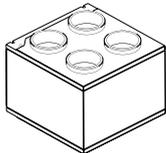
Cool recovery unit CoolVent®
for HomeVent® ER and ERT
Active-controlled cool recovery for air-conditioned buildings.
Activated by Hoval service technicians during commissioning.

6035 255



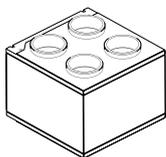
Vertical wall mounting set
for HomeVent® ER and ERT
Steel bracket red coated with vibration-damping support

6046 215



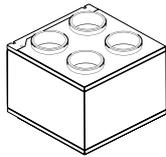
Acoustic insulating box ERT extract-supply air front
for HomeVent® ERT
Casing made from red foil-plated sheet steel
connection nozzles 4 x DN 160.
Extract air front left,
supply air front right
Exhaust air back left,
fresh air back right
All 4 air ducts are sound-insulated.
Dimensions (L x W x H):
400 x 560 x 560 mm

6046 018



Acoustic insulating box ERT extract air-supply air right
for HomeVent® ERT
Casing made from red foil-plated sheet steel
Connection nozzles 4 x DN 160.
Extract air front right,
supply air rear right
Exhaust air front left,
fresh air rear left
All 4 air ducts are sound-insulated.
Dimensions (L x W x H):
400 x 560 x 560 mm

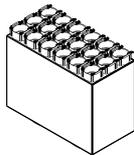
6046 019



Acoustic insulating box ERT extract-supply air left
for HomeVent® ERT
Casing made from red foil-plated sheet steel
connection nozzles 4 x DN 160.
Extract air rear left,
supply air front left
Exhaust air back right,
fresh air front right
All 4 air ducts are sound-insulated.
Dimensions (L x W x H):
400 x 560 x 560 mm

Part No.

6046 020



Distribution box VTB-180 18 x 75
for HomeVent® ERT
Casing made from aluzinc sheet
2 connections DIN 180
18 connections DIN 75
Acoustic insulating body on supply and extract air sides, access panel, incl. throttle orifices
Dimensions (L x W x H):
400 x 560 x 280 mm

6045 932

Filter HomeVent® ERT



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

5043 550



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

5043 778



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

5043 611

HomeVent® comfort ERT (250-450)

Type		(250)	(350)	(450)
• Max. flow rate (at 100 Pa external pressure)	m ³ /h	250	350	450
• Air flow rate control range	m ³ /h	50-250	70-350	80-450
• Humidity setpoint setting	%		30...65	
Electrical connection				
• Voltage (AC)	V		230	
• Frequency	Hz		50	
• Max. current consumption	A	0.82	1.26	2.34
• Type of protection			IP 40	
• Power consumption (at 70 % of the max. flow rate, 50 Pa external pressure)	W	42	63	94
• Degree of heat processing (as per DIN 4719)	%		90-130	
• Temperature ratio (at 70 % of the max. flow rate)	%	85	84	82
• Humidity ratio (at 70 % of the max. flow rate)	%	86	86	81
• Specific fan power SFP (at 70 % of the max. flow rate)	W/m ³ /h	0.25	0.27	0.31
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)				
• Internal	%	0.1	0.1	0.1
• External	%	0.2	0.1	0.1
• Net weight	kg		35	
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® ERT (250)

Casing

Flow rate SUP/EXT [m³/h]	External pressure [Pa]	L _w [dB]							Sound pressure _{e level LWA} 125 Hz ... 8 kHz [dB(A)]
		125	250	500	1000	2000	4000	8000	
175	50	40	49	34	22	14	10	10	40
250	100	45	51	45	28	20	11	11	45

Fresh air

Flow rate [m³/h]	External pressure [Pa]	L _w [dB]							Sound pressure _{e level LWA} 125 Hz ... 8 kHz [dB(A)]
		125	250	500	1000	2000	4000	8000	
175	50	48	54	49	40	37	31	23	49
250	100	55	56	56	47	44	39	33	55

Supply air

Flow rate [m³/h]	External pressure [Pa]	L _w [dB]							Sound pressure _{e level LWA} 125 Hz ... 8 kHz [dB(A)]
		125	250	500	1000	2000	4000	8000	
175	50	44	52	48	39	34	27	18	48
250	100	49	52	55	46	41	35	26	53

Extract air

Flow rate [m³/h]	External pressure [Pa]	L _w [dB]							Sound pressure _{e level LWA} 125 Hz ... 8 kHz [dB(A)]
		125	250	500	1000	2000	4000	8000	
175	50	47	54	42	33	32	23	18	46
250	100	51	54	50	34	38	32	26	50

Exhaust air

Flow rate [m³/h]	External pressure [Pa]	L _w [dB]							Sound pressure _{e level LWA} 125 Hz ... 8 kHz [dB(A)]
		125	250	500	1000	2000	4000	8000	
175	50	45	51	43	43	39	34	17	48
250	100	51	55	57	48	46	43	29	56

Sound power: HomeVent® ERT (250) + acoustic insulating box ERT

Casing

Flow rate SUP/EXT [m³/h]	External pressure [Pa]	L _w [dB]							Sound pressure _{e level LWA} 125 Hz ... 8 kHz [dB(A)]
		125	250	500	1000	2000	4000	8000	
175	50	40	49	34	22	14	10	10	40
250	100	44	51	44	28	19	10	11	45

Fresh air

Flow rate [m³/h]	External pressure [Pa]	L _w [dB]							Sound pressure _{e level LWA} 125 Hz ... 8 kHz [dB(A)]
		125	250	500	1000	2000	4000	8000	
175	50	34	38	29	15	14	15	16	31
250	100	38	39	31	20	18	17	17	63

Supply air

Flow rate [m³/h]	External pressure [Pa]	L _w [dB]							Sound pressure _{e level LWA} 125 Hz ... 8 kHz [dB(A)]
		125	250	500	1000	2000	4000	8000	
175	50	33	39	28	15	14	15	16	32
250	100	38	40	37	21	17	16	16	36

Extract air

Flow rate [m³/h]	External pressure [Pa]	L _w [dB]							Sound pressure _{e level LWA} 125 Hz ... 8 kHz [dB(A)]
		125	250	500	1000	2000	4000	8000	
175	50	33	37	26	15	15	15	16	30
250	100	39	41	36	22	19	16	16	36

Exhaust air

Flow rate [m³/h]	External pressure [Pa]	L _w [dB]							Sound pressure _{e level LWA} 125 Hz ... 8 kHz [dB(A)]
		125	250	500	1000	2000	4000	8000	
175	50	34	38	28	17	15	15	11	31
250	100	40	41	36	23	21	18	12	36

Sound power: HomeVent® ERT (350)

Casing

Flow rate SUP/EXT [m³/h]	External pressure [Pa]	L _w [dB]							Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
		125	250	500	1000	2000	4000	8000	
245	50	42	52	38	24	17	10	12	44
350	100	48	48	46	31	24	13	8	45

Fresh air

Flow rate [m³/h]	External pressure [Pa]	L _w [dB]							Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
		125	250	500	1000	2000	4000	8000	
245	50	50	54	52	43	41	37	29	52
350	100	58	55	62	50	49	45	39	60

Supply air

Flow rate [m³/h]	External pressure [Pa]	L _w [dB]							Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
		125	250	500	1000	2000	4000	8000	
245	50	48	56	51	43	39	33	23	52
350	100	53	54	61	50	46	41	33	59

Extract air

Flow rate [m³/h]	External pressure [Pa]	L _w [dB]							Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
		125	250	500	1000	2000	4000	8000	
245	50	48	53	46	38	36	30	22	48
350	100	53	53	52	43	42	37	31	52

Exhaust air

Flow rate [m³/h]	External pressure [Pa]	L _w [dB]							Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
		125	250	500	1000	2000	4000	8000	
245	50	48	54	48	47	44	41	24	53
350	100	54	53	61	53	51	48	36	60

Sound power: HomeVent® ERT (350) + acoustic insulating box ERT

Casing

Flow rate SUP/EXT [m³/h]	External pressure [Pa]	L _w [dB]							Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
		125	250	500	1000	2000	4000	8000	
245	50	42	52	38	24	17	10	12	44
350	100	48	48	46	31	24	13	8	45

Fresh air

Flow rate [m³/h]	External pressure [Pa]	L _w [dB]							Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
		125	250	500	1000	2000	4000	8000	
245	50	36	39	32	17	16	16	16	33
350	100	41	38	41	24	21	20	20	38

Supply air

Flow rate [m³/h]	External pressure [Pa]	L _w [dB]							Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
		125	250	500	1000	2000	4000	8000	
245	50	36	39	32	18	15	15	16	33
350	100	43	39	41	25	20	17	16	39

Extract air

Flow rate [m³/h]	External pressure [Pa]	L _w [dB]							Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
		125	250	500	1000	2000	4000	8000	
245	50	35	39	29	19	17	16	16	33
350	100	42	40	38	26	24	17	16	37

Exhaust air

Flow rate [m³/h]	External pressure [Pa]	L _w [dB]							Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
		125	250	500	1000	2000	4000	8000	
245	50	38	40	32	20	18	17	11	34
350	100	45	41	42	28	25	22	14	40

Sound power: HomeVent® ERT (450)

Casing

Flow rate SUP/EXT [m³/h]	External pressure [Pa]	L _w [dB]							Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
		125	250	500	1000	2000	4000	8000	
315	50	46	48	44	29	21	10	11	44
450	100	49	51	49	33	28	16	8	49

Fresh air

Flow rate [m³/h]	External pressure [Pa]	L _w [dB]							Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
		125	250	500	1000	2000	4000	8000	
315	50	52	53	58	50	45	42	35	56
450	100	59	57	62	53	52	50	44	61

Supply air

Flow rate [m³/h]	External pressure [Pa]	L _w [dB]							Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
		125	250	500	1000	2000	4000	8000	
315	50	50	52	58	47	43	38	29	56
450	100	56	56	62	53	50	46	38	61

Extract air

Flow rate [m³/h]	External pressure [Pa]	L _w [dB]							Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
		125	250	500	1000	2000	4000	8000	
315	50	50	52	50	41	39	34	27	50
450	100	55	55	53	45	45	41	36	54

Exhaust air

Flow rate [m³/h]	External pressure [Pa]	L _w [dB]							Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
		125	250	500	1000	2000	4000	8000	
315	50	50	52	56	50	48	45	30	56
450	100	57	56	61	54	54	53	42	62

Sound power: HomeVent® ERT (450) + acoustic insulating box ERT

Casing

Flow rate SUP/EXT [m³/h]	External pressure [Pa]	L _w [dB]							Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
		125	250	500	1000	2000	4000	8000	
315	50	46	48	44	29	21	10	11	44
450	100	41	51	49	33	28	16	8	49

Fresh air

Flow rate [m³/h]	External pressure [Pa]	L _w [dB]							Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
		125	250	500	1000	2000	4000	8000	
315	50	39	36	39	22	18	18	18	36
450	100	46	41	43	27	25	24	25	41

Supply air

Flow rate [m³/h]	External pressure [Pa]	L _w [dB]							Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
		125	250	500	1000	2000	4000	8000	
315	50	40	37	39	22	17	16	16	36
450	100	47	42	43	28	24	20	18	41

Extract air

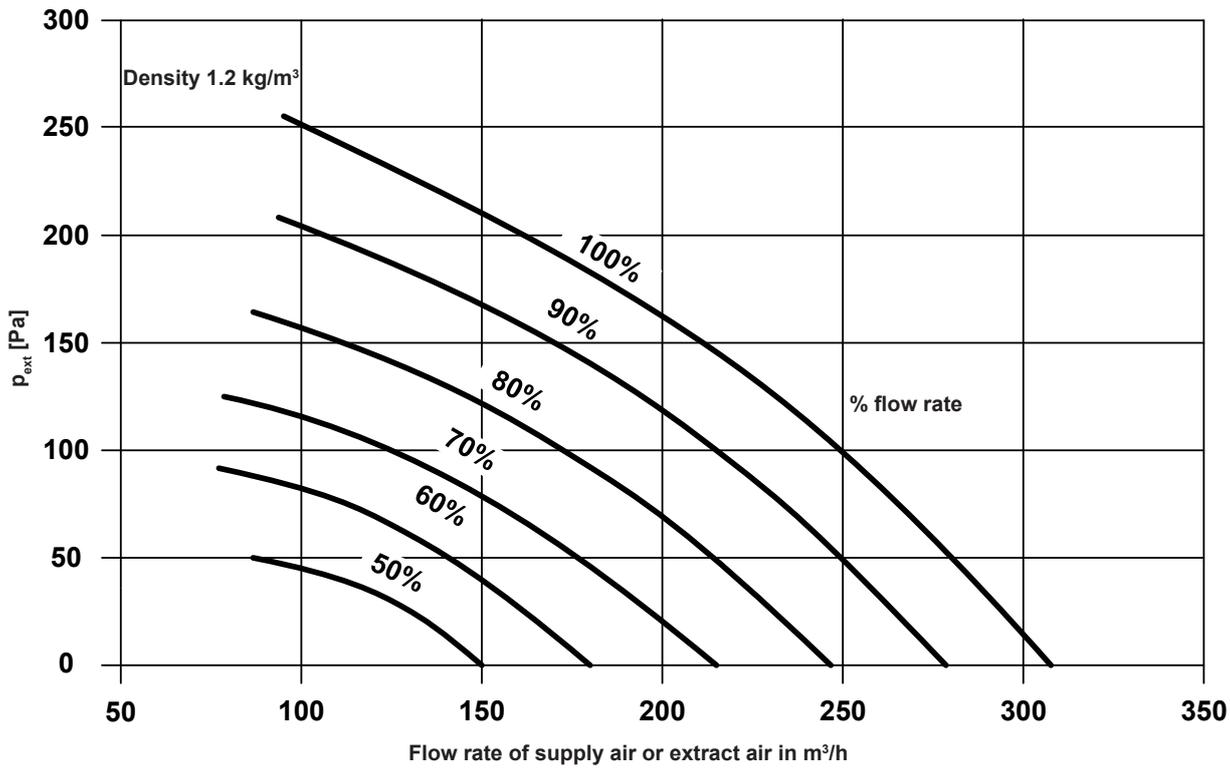
Flow rate [m³/h]	External pressure [Pa]	L _w [dB]							Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
		125	250	500	1000	2000	4000	8000	
315	50	38	38	35	22	19	16	16	34
450	100	45	42	39	29	27	19	17	39

Exhaust air

Flow rate [m³/h]	External pressure [Pa]	L _w [dB]							Sound pressure level L _{WA} 125 Hz ... 8 kHz [dB(A)]
		125	250	500	1000	2000	4000	8000	
315	50	42	39	38	25	21	19	12	37
450	100	49	45	43	32	29	26	18	43

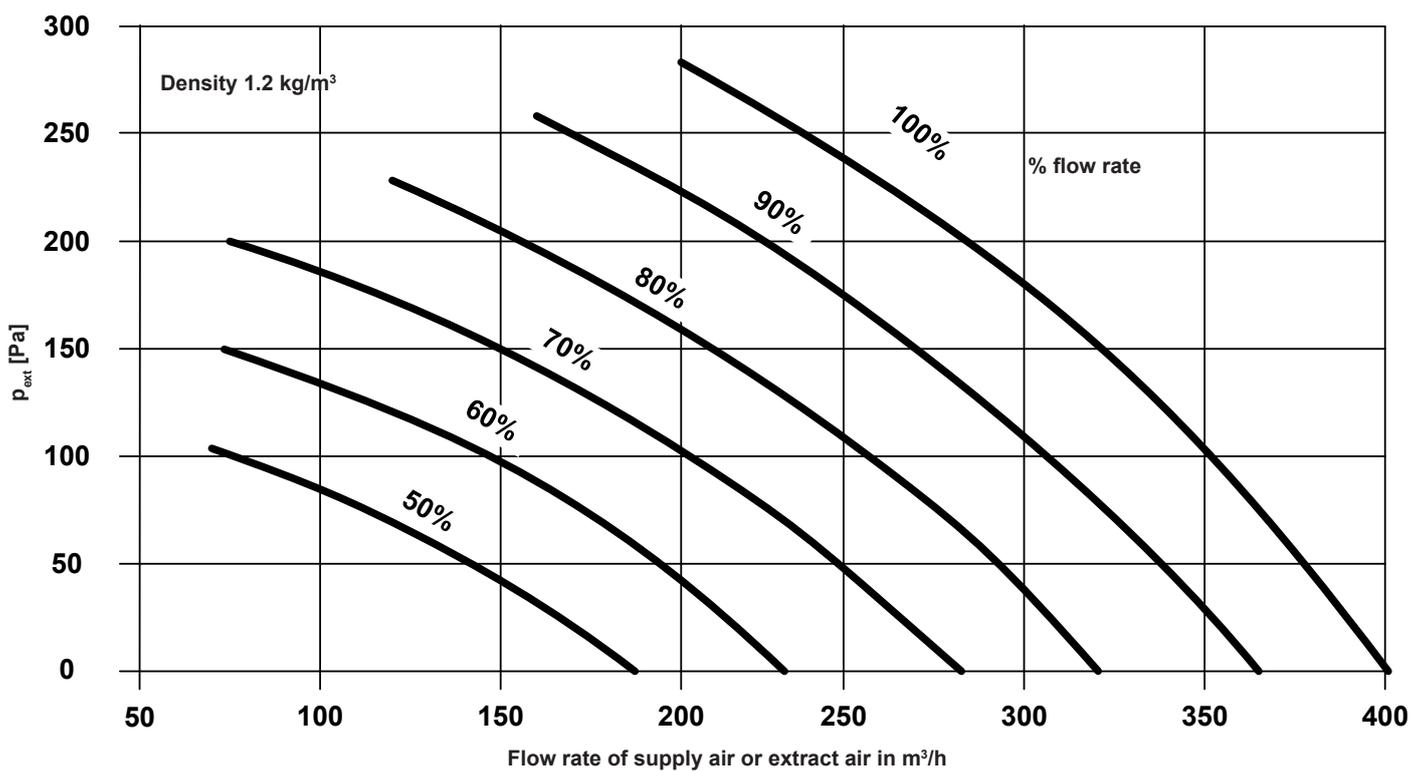
Performance chart for air flow rate, HomeVent® ERT (250)

p_{ext} Sum of external pressure drops



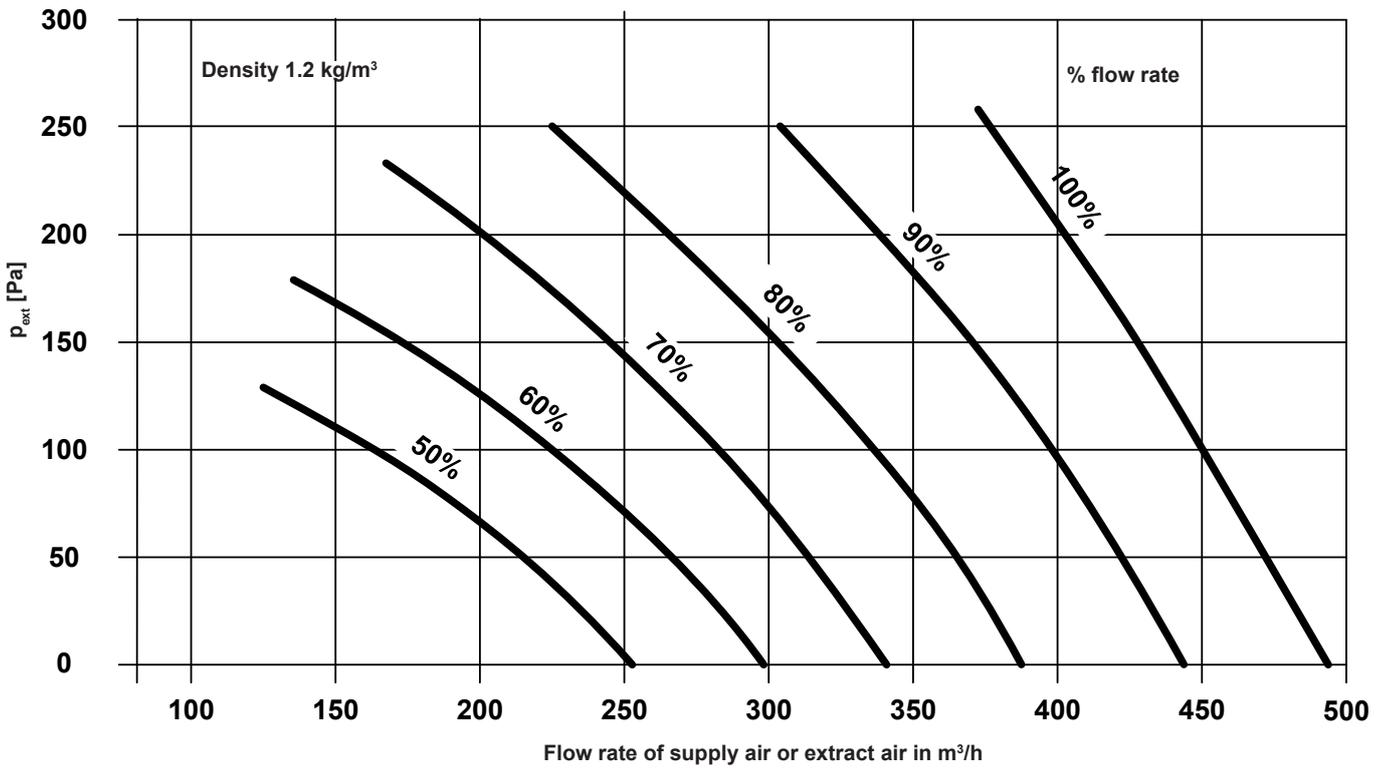
Performance chart for air flow rate, HomeVent® ERT (350)

p_{ext} Sum of external pressure drops

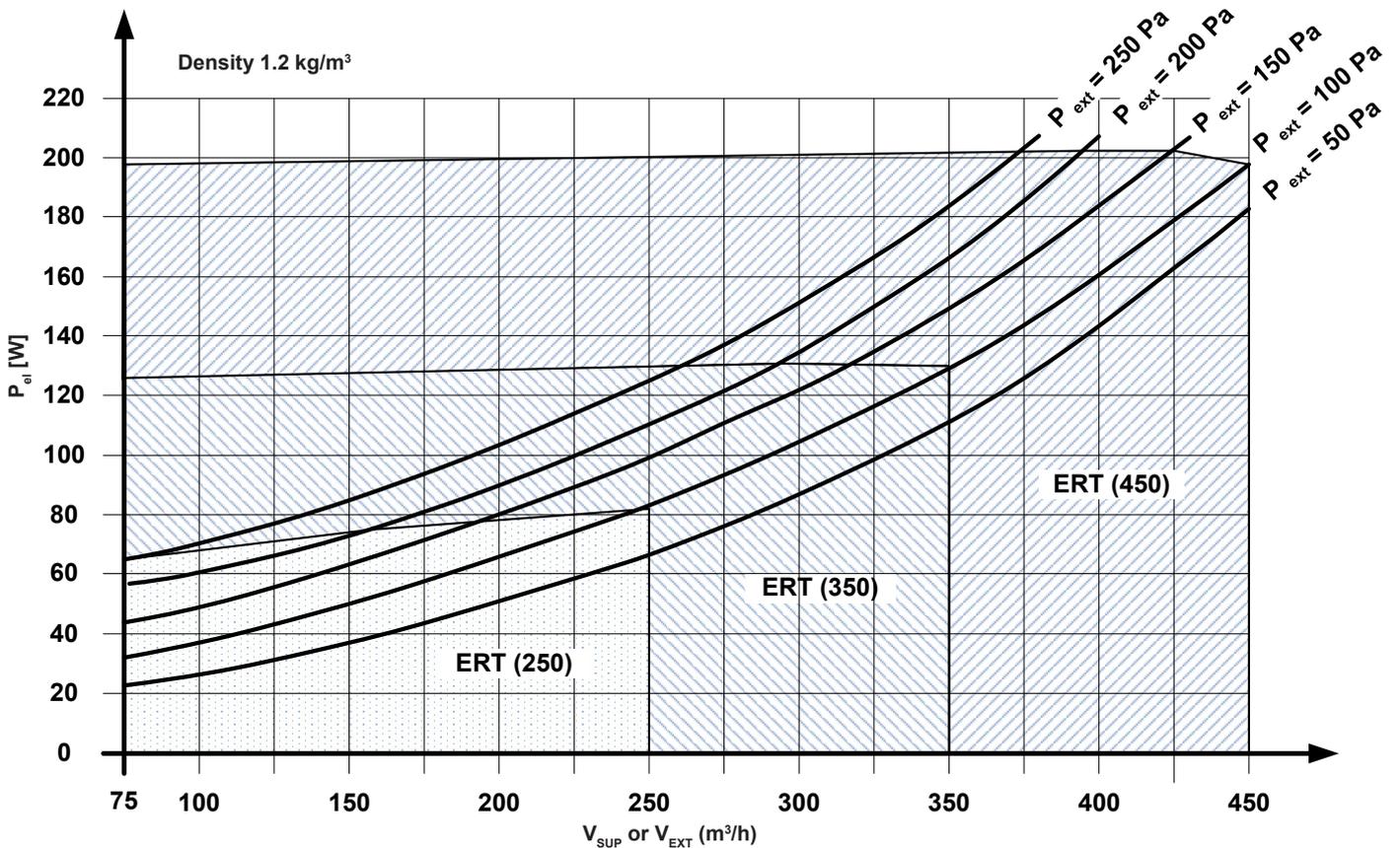


Performance chart for air flow rate HomeVent® ERT (450)

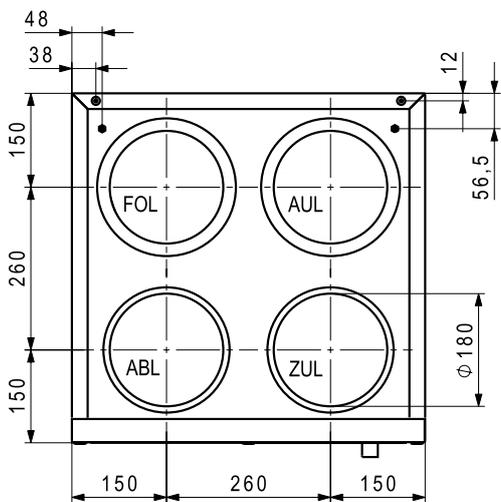
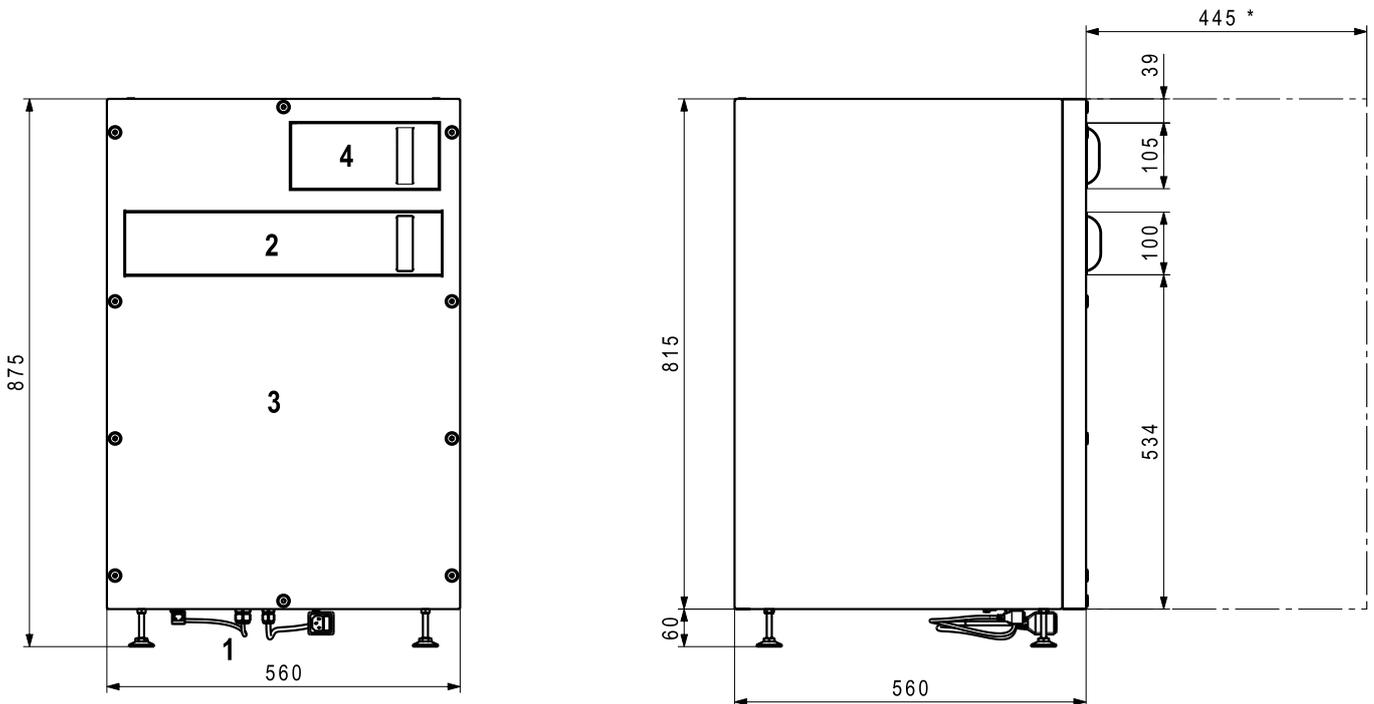
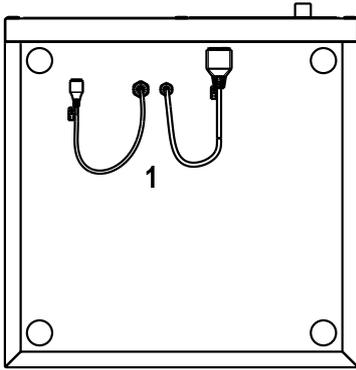
p_{ext} Sum of external pressure drops



Electrical power consumption HomeVent® ERT (250-450)



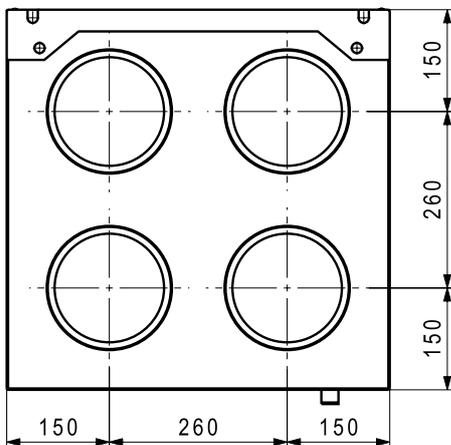
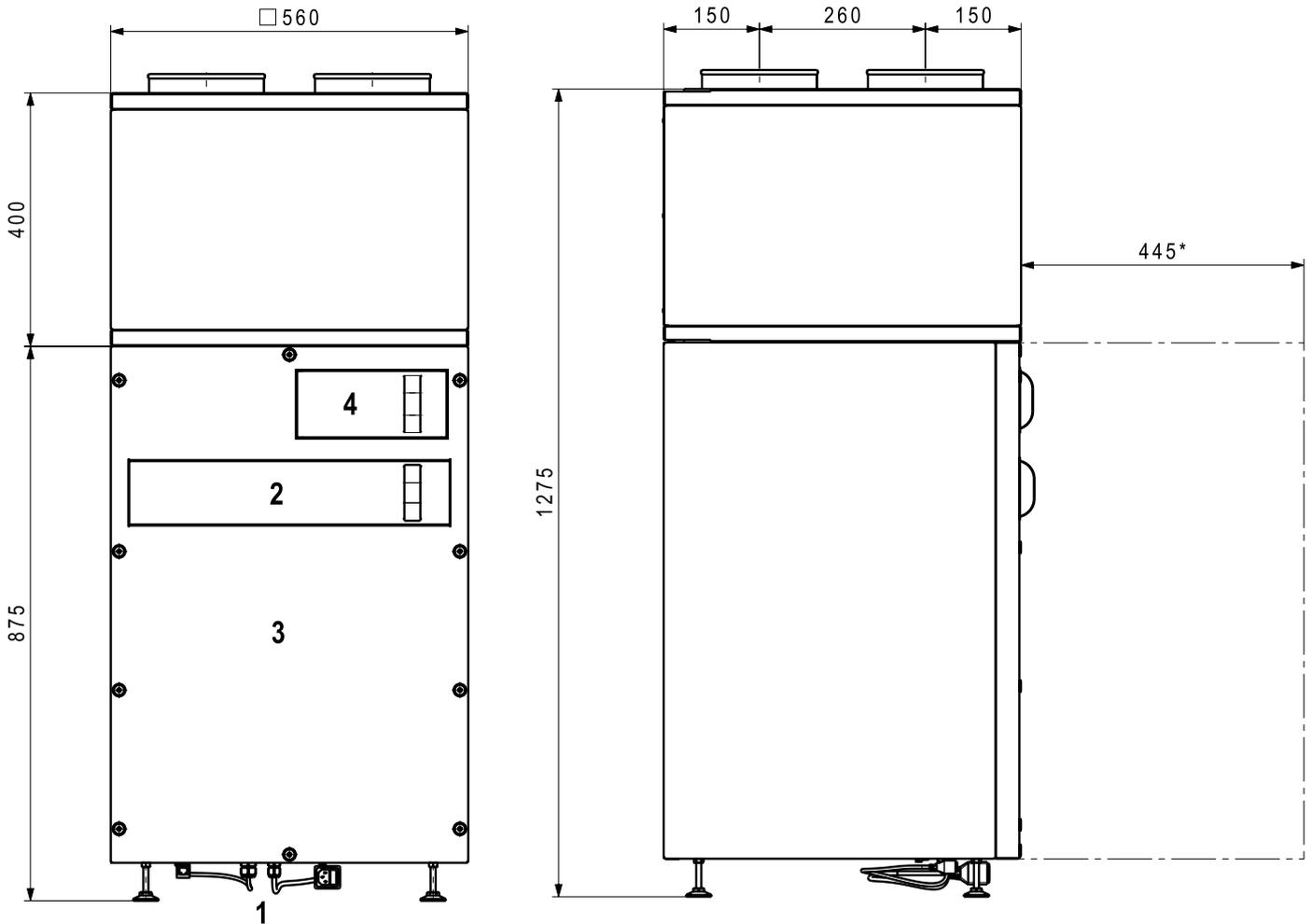
HomeVent® comfort ventilation unit



- 1 Electrical connection with microfuse
Space is required for changing the microfuse.
- 2 Filter cover for supply air filter/extract air filter
- 3 Access panel
- 4 Maintenance cover for prefilter

* Space requirements for filter change and service tasks

HomeVent® comfort ventilation unit with acoustic insulating box



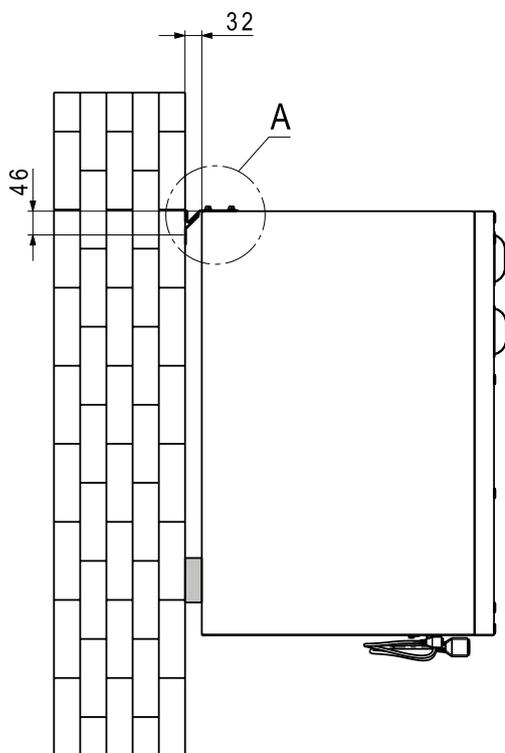
- 1 Electrical connection with microfuse
Space is required for changing the microfuse.
- 2 Filter cover for supply air filter/extract air filter
- 3 Access panel
- 4 Maintenance cover for prefilter

* Space requirements for filter change and service tasks

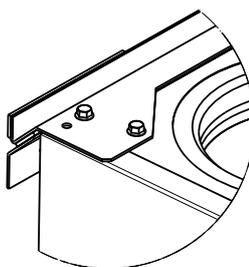
Space requirements

HomeVent® comfort ventilation unit

Installation with installation set



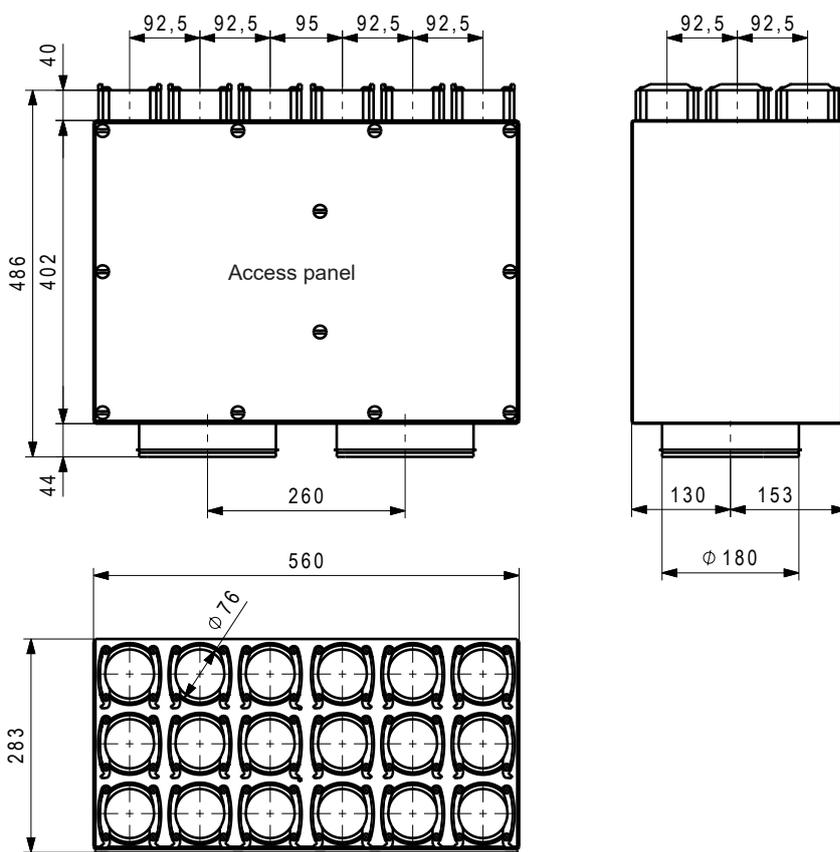
Detail A



Distribution boxes DN 180

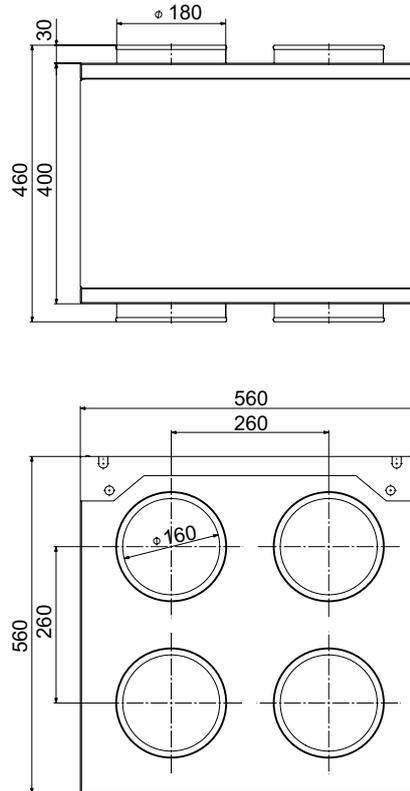
Distribution box VTB-180 18 x 75

for HomeVent® ERT (250)
 Casing made from aluzinc sheet with sound insulation element supply air and extract air side, access panel incl. throttle orifices.
 Additional silencer recommended.
 Connection nozzles:
 2 x DN 180
 SUP 9 x 75, EXT 9 x 75
 Included accessories:
 end covers and throttle orifices



Acoustic insulating box ERT

Casing made from red insulated sheet steel.
 All 4 air ducts are sound-insulated.
 Connection nozzles:
 4 x DN 160



**Pressure drop at 100 % air flow rate:
 ERT (250) 100 %**

Silencer, straight	
ZUL [Δp Pa]	1
AUL [Δp Pa]	0
FOL [Δp Pa]	0
ABL [Δp Pa]	1

ERT (250) 100 %

Silencer, on the left/right	
ZUL [Δp Pa]	14
AUL [Δp Pa]	8
FOL [Δp Pa]	11
ABL [Δp Pa]	10

ERT (350) 100 %

Silencer, straight	
ZUL [Δp Pa]	7
AUL [Δp Pa]	1
FOL [Δp Pa]	2
ABL [Δp Pa]	6

ERT (350) 100 %

Silencer, on the left/right	
ZUL [Δp Pa]	27
AUL [Δp Pa]	26
FOL [Δp Pa]	21
ABL [Δp Pa]	23

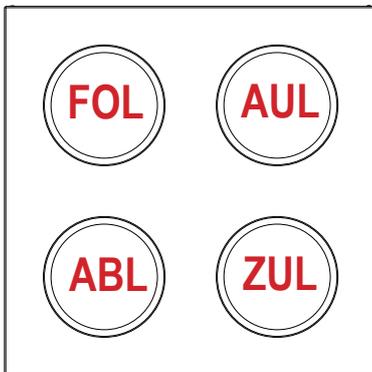
ERT (450) 100 %

Silencer, straight	
ZUL [Δp Pa]	19
AUL [Δp Pa]	4
FOL [Δp Pa]	10
ABL [Δp Pa]	19

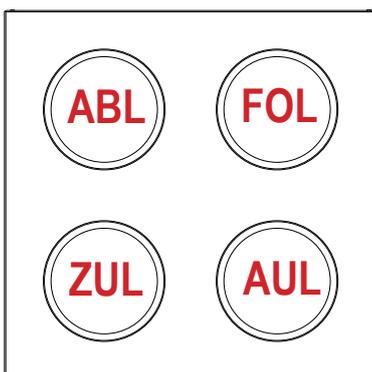
ERT (450) 100 %

Silencer, on the left/right	
ZUL [Δp Pa]	41
AUL [Δp Pa]	35
FOL [Δp Pa]	31
ABL [Δp Pa]	37

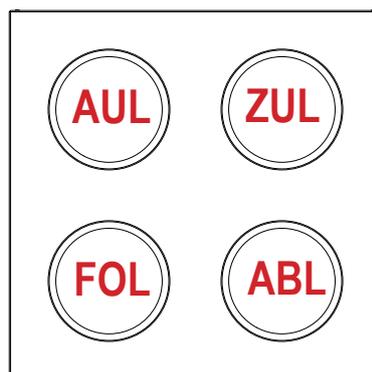
Acoustic insulating box ERT straight



Acoustic insulating box ERT left



Acoustic insulating box ERT right



FOL = Exhaust air
 AUL = Fresh air
 ABL = Extract air
 ZUL = Supply air