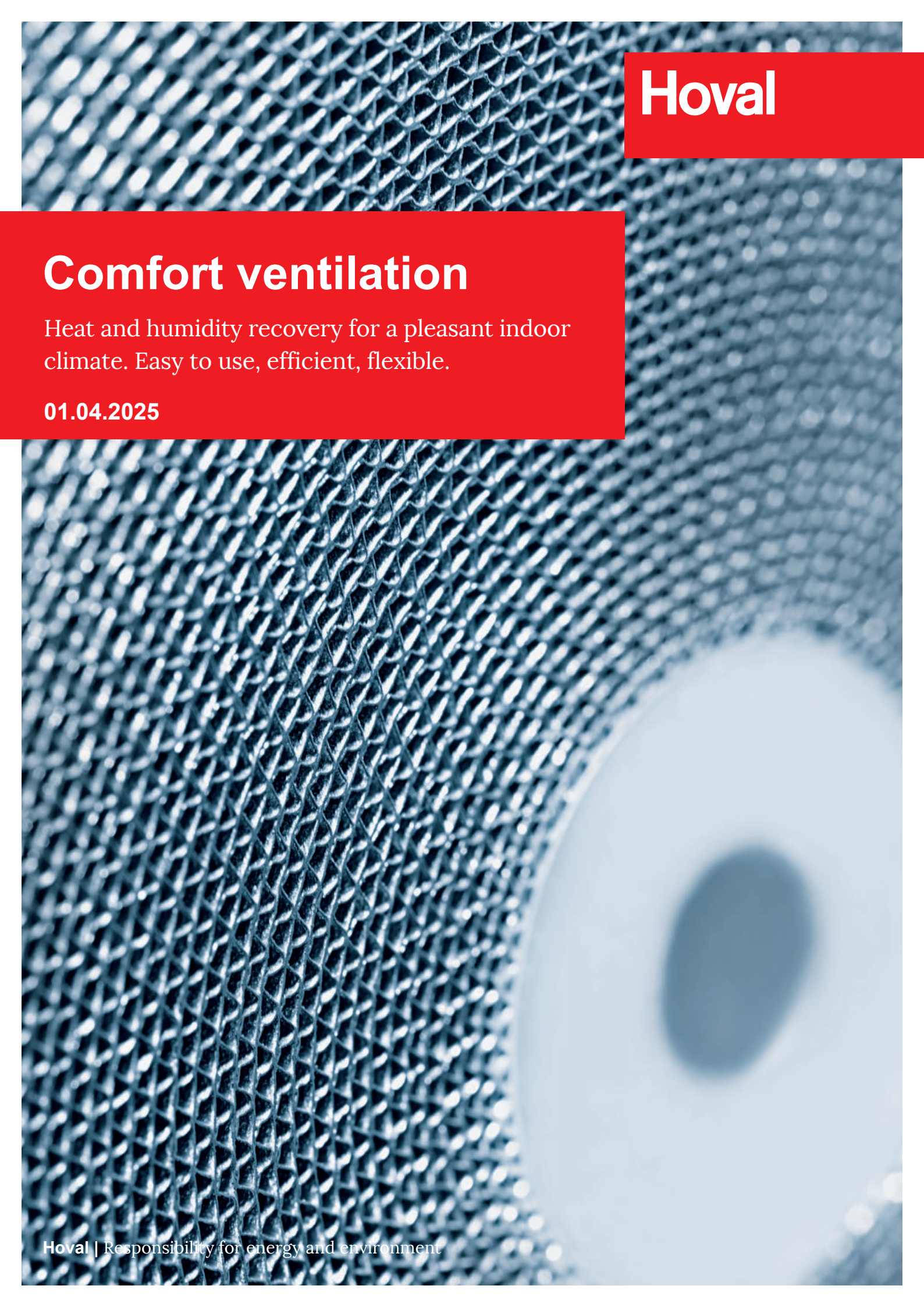




Hoval

Comfort ventilation

Heat and humidity recovery for a pleasant indoor climate. Easy to use, efficient, flexible.

01.04.2025

Comfort ventilation



Hoval HomeVent® ER (200-400)	
Comfort ventilation unit	
■ Description	3
■ Part numbers	6
■ Technical data	10
■ Dimensions	19



Hoval HomeVent® ERT (250-450)	
Comfort ventilation unit	
■ Description	27
■ Part numbers	30
■ Technical data	33
■ Dimensions	42



Hoval HomeVent® Components	
■ Part numbers	49
■ Technical data	80

Engineering



■ Engineering comfort ventilation	119
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■ Standard terms and conditions of delivery	121
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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 exchanger with speed regulation
- Two backward-curved EC fans (continuously adjustable 15-100 %)
- High-quality large-area filters
 - 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, IP40

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
 - Mains cable 3 m
 - 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

A⁺ → F

Energy recovery

The built-in enthalpy exchanger 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 exchanger 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 exchanger, 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 exchanger 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 can be 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 exchanger, 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.

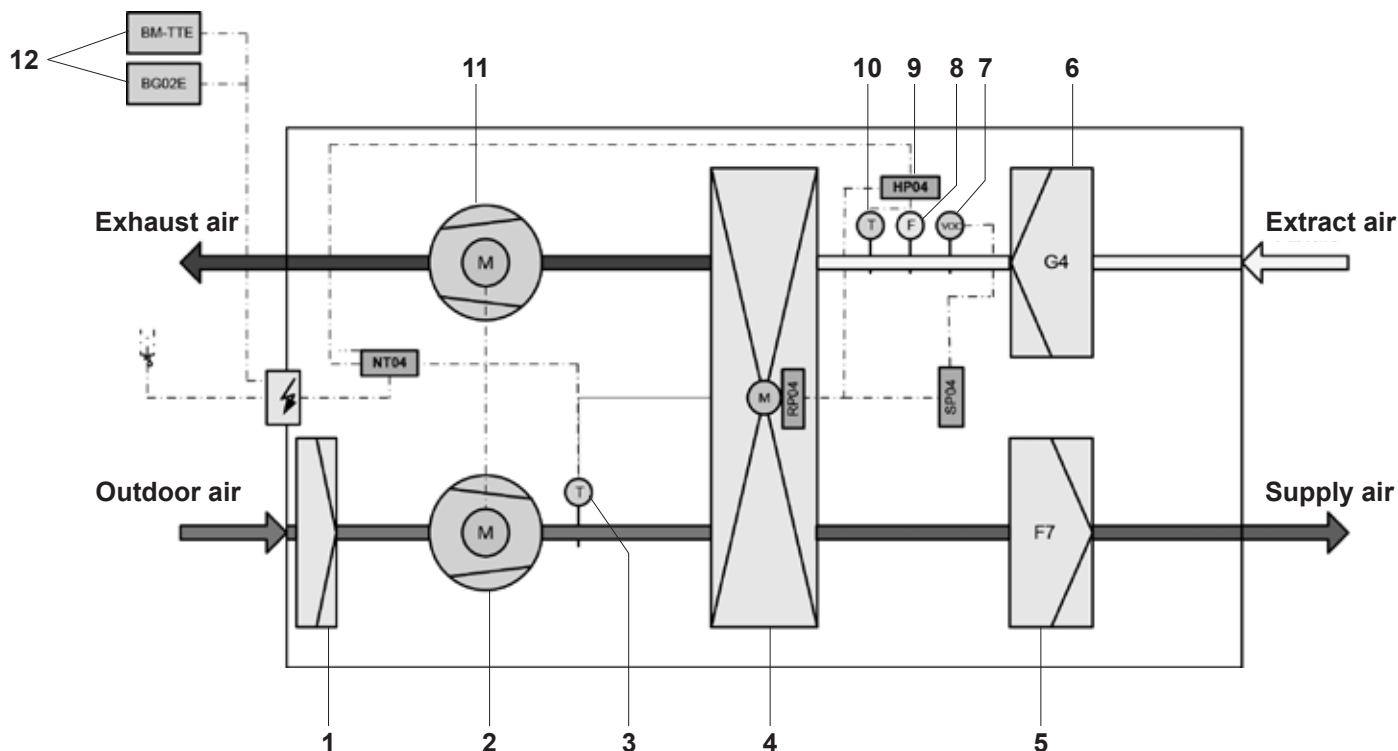
The enthalpy exchanger extracts heat and humidity from the air and passes these to the supply air.

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 exchanger 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 exchanger | 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)	200	100
(300)	300	100
(400)	400	100

Energy efficiency class
 see "Description"

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.

 incl. fitting accessories

6037 072



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.

 incl. fitting accessories

6042 543



HovalConnect
 HovalConnect LAN
 HovalConnect WLAN

TopTronic® E interface modules
 HovalConnect Modbus
 HovalConnect KNX

6049 496
 6049 498

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.

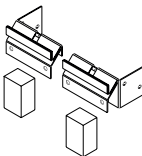
6058 211

Notice
CO₂ sensor cannot be combined with VOC sensor



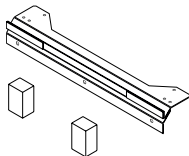
Unit base ER (200-400)
for HomeVent® ER
Red painted steel (device colour)
incl. 4 vibration dampers
height-adjustable feet
Height: 475-500 mm

6052 203



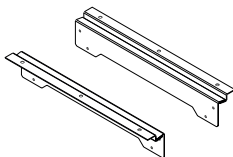
Horizontal wall mounting set
for HomeVent® ER
Steel bracket red coated
with vibration-damping support

6042 303



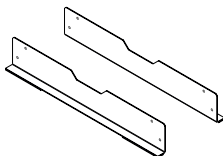
Vertical wall mounting set
for HomeVent® ER and ERT
Steel bracket red coated
with vibration-damping support

6046 215



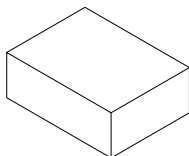
Ceiling mounting set
for HomeVent® ER
Steel bracket red coated
with vibration-damping support

6042 305



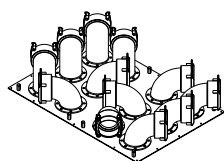
Floor mounting set
for HomeVent® ER
Steel bracket red coated
with vibration-damping support

6042 306



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

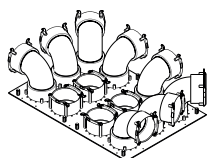
6044 961



Plywood 12 x 75
consisting of:
galvanised steel plate
12 90° elbows

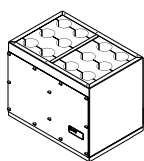
Part No.

6062 434



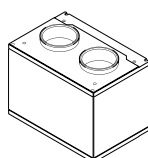
Plywood 12 x 90
consisting of:
galvanised steel plate
8 90° elbows
4 straight nozzles

6050 554



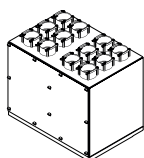
Acoustic insulating box for plywood
for HomeVent® ER (200-400)
Casing made from red
foil-plated sheet steel
Connection nozzles 2 x DN 160/180
Can be screwed onto plywood
Acoustic insulating body on supply
and extract air sides, access panel,
incl. throttle orifices
Dimensions (L x W x H):
440 x 560 x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

6061 472



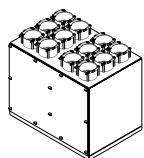
Acoustic insulating box SDB-160-400
for HomeVent® ER (200-400)
Casing made from red
foil-plated sheet steel
Connection nozzle 4 x DN 160/180
Acoustic insulating body on supply and
extract air sides
Dimensions (L x W x H):
400 x 560 x 374 mm

6051 854



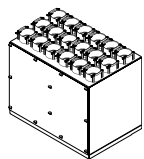
Distribution box VTB-160 12 x 75
for HomeVent® ER (200-400)
Casing made from red
foil-plated sheet steel
Connection nozzle 2 x DN 160/180
Connection nozzle 12 x DN 75
Acoustic insulating body on supply and
extract air sides,
access panel, incl. throttle orifices
Dimensions (L x W x H):
480 x 560 x 374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



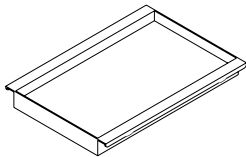
Distribution box VTB-160 18 x 75
for HomeVent® ER (200-400)
and acoustic insulating box SDB-160-400
Casing made from red
foil-plated sheet steel
Connection nozzle 2 x DN 160/180
Connection nozzle 18 x DN 75
Acoustic insulating body on supply and
extract air sides,
access panel, incl. throttle orifices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



Pre-filter set G4 ER and FR
for HomeVent® ER and FR
Filter class ISO 16890: ePM₁₀ 60 % (G4)

6063 113



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

5038 283



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

5039 587



Extract air filter ER and FR
for HomeVent® ER and FR
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			IP40	
• 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	%	0.3	0.2	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 ZUL/ABL [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	42	47	35	30	22	12	2	39
200	100	39	48	39	33	27	19	11	42

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	50	55	46	45	40	35	29	51
200	100	50	61	54	48	46	43	39	57

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	48	50	38	33	24	17	16	43
200	100	49	53	46	37	30	21	17	48

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	55	37	35	23	18	16	46
200	100	47	58	46	39	29	22	17	51

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	56	48	44	39	34	23	51
200	100	48	59	54	49	45	41	33	56

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	40	22	16	14	16	16	32
200	100	41	41	31	19	15	16	16	35

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	40	44	22	17	14	16	16	35
200	100	42	44	31	21	15	16	16	37

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	30	30	18	13	14	16	16	25
200	100	32	33	25	15	14	16	16	28

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	31	18	13	14	16	16	25
200	100	31	37	25	15	15	16	16	30

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	48	52	34	35	29	23	20	45
200	100	49	53	42	37	35	31	28	48

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	51	38	34	27	20	17	44
200	100	49	52	44	39	32	27	20	47

Sound power: HomeVent® ER (300)

Casing

Flow rate ZUL/ABL [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	40	50	36	32	25	15	6	43
300	100	45	48	46	39	32	25	18	46

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	48	60	50	46	46	42	36	56
300	100	55	57	64	52	51	50	44	62

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	52	43	35	29	21	16	47
300	100	52	52	49	42	35	27	17	49

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	58	44	38	29	22	17	52
250	100	53	55	53	46	35	29	19	53

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	57	52	48	44	40	31	54
250	100	54	57	62	55	51	48	40	61

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	40	39	26	18	15	16	16	32
300	100	45	40	35	25	18	16	16	36

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	42	27	19	15	16	16	35
300	100	45	41	38	28	17	17	17	37

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	32	23	15	14	16	16	27
300	100	35	36	36	23	17	16	16	34

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	30	35	24	15	15	16	16	29
300	100	35	35	36	22	17	16	16	34

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	47	51	38	36	33	30	26	46
300	100	52	51	48	41	39	37	34	49

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	50	42	39	31	26	19	45
300	100	52	51	51	46	38	34	26	51

Sound power: HomeVent® ER (400)

Casing

Flow rate ZUL/ABL [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	42	47	44	37	30	22	15	44
400	100	46	50	52	41	37	30	24	50

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	55	57	50	49	47	41	57
400	100	56	59	67	54	55	54	50	65

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	51	47	40	32	24	17	47
400	100	54	54	59	45	38	32	20	56

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	50	56	51	44	33	26	18	52
400	100	55	55	53	47	40	34	23	53

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	51	58	60	54	49	45	37	59
400	100	58	59	66	58	55	53	46	65

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	45	38	34	23	16	16	16	34
400	100	49	43	38	28	21	18	17	39

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	40	39	25	16	17	17	37
400	100	48	44	37	28	21	20	19	39

Sound power: HomeVent® ER (400) + IsiSound

Fresh air

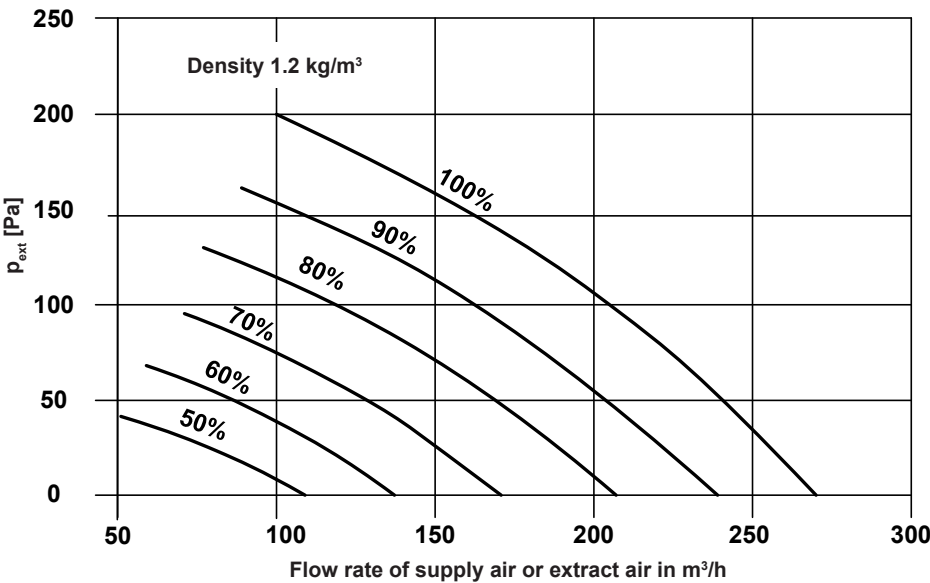
Flow rate [m³/h]	External pressure [Pa]	125	250	500	1000	2000	4000	8000	Sound pressure level L _{WA} 125 Hz - 8 kHz [dB(A)]
280	50	49	50	45	40	37	35	30	47
400	100	55	55	53	44	43	42	40	54

Exhaust air

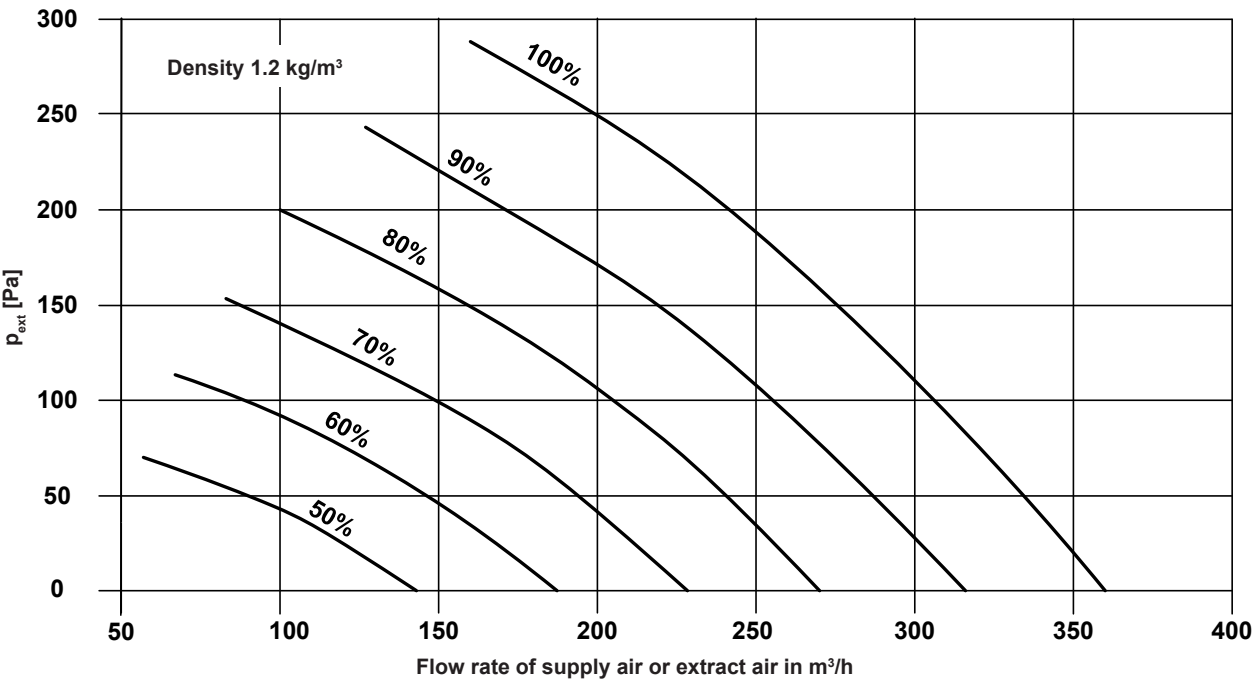
Flow rate [m³/h]	External pressure [Pa]	125	250	500	1000	2000	4000	8000	Sound pressure level L _{WA} 125 Hz - 8 kHz [dB(A)]
280	50	50	50	47	44	36	31	23	48
400	100	57	54	56	49	42	39	31	56

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

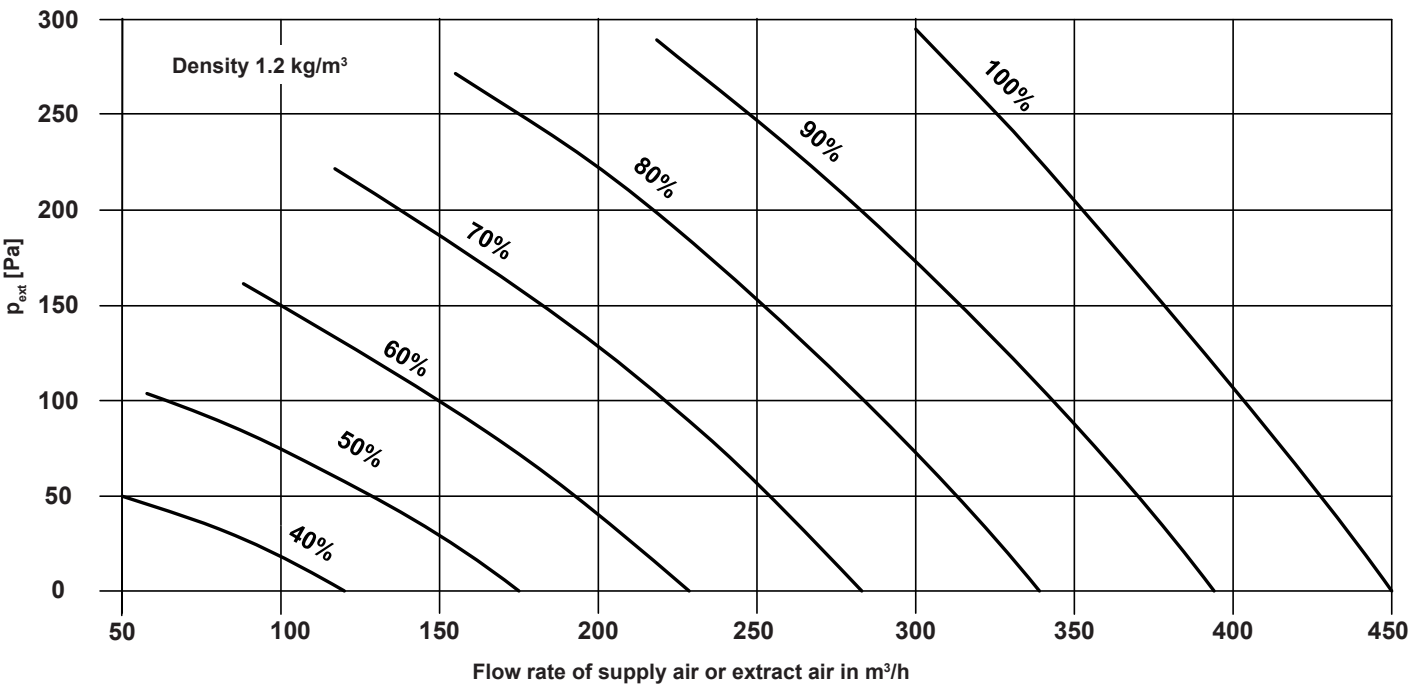
p_{ext} Sum of external pressure drops



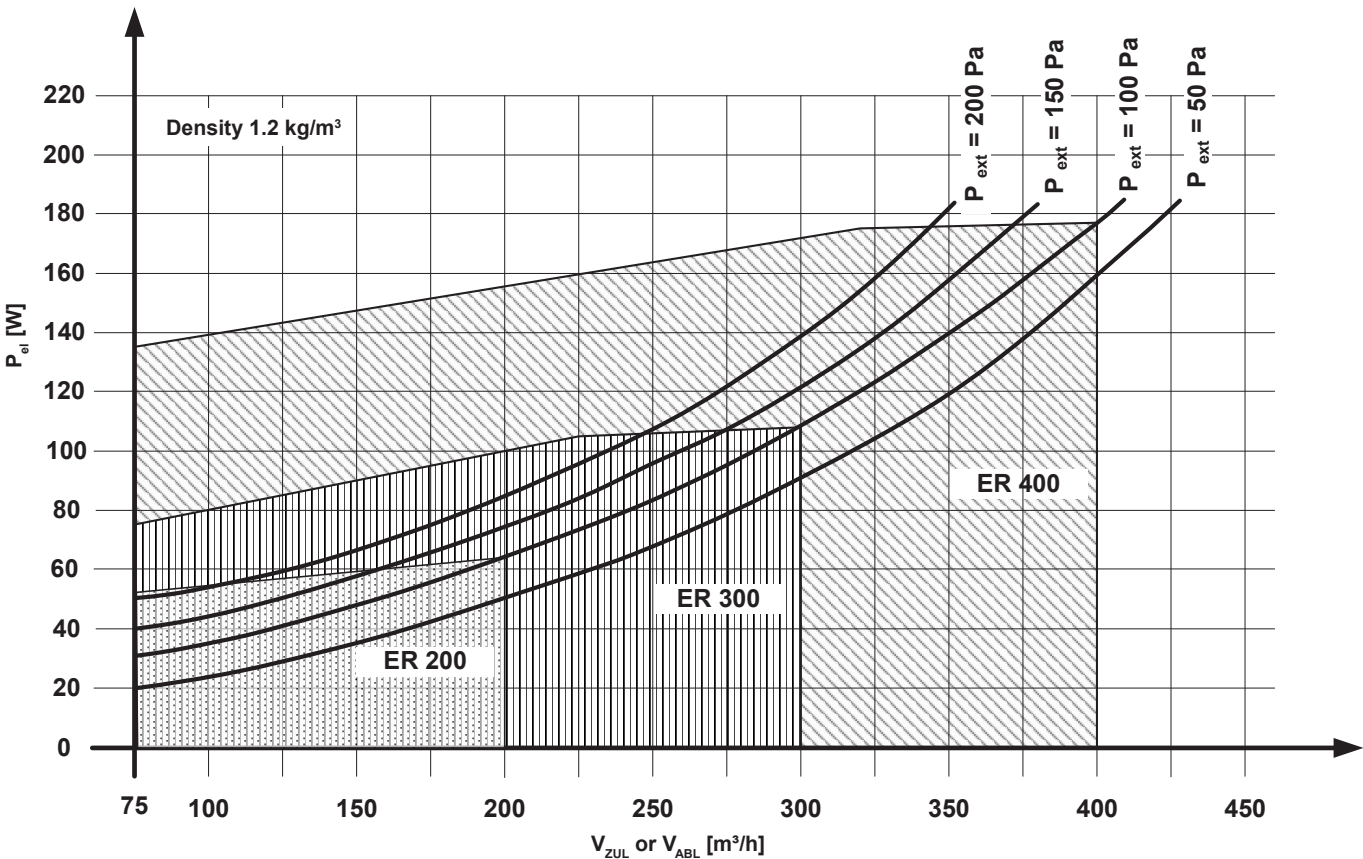
Performance chart for air flow rate, HomeVent® ER (300)



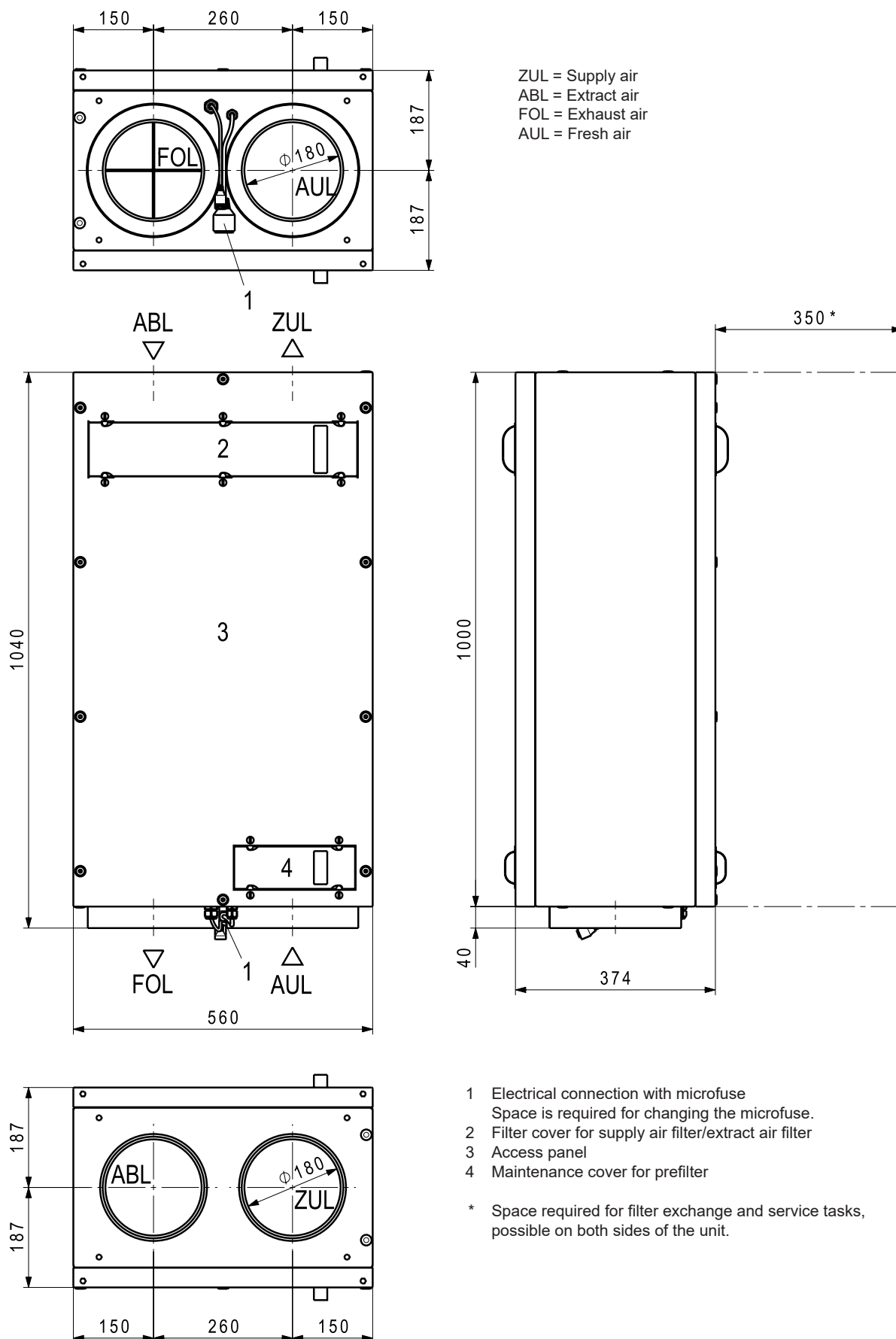
Performance chart for air flow rate, HomeVent® ER (400)



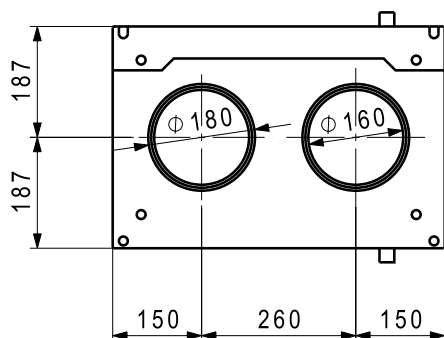
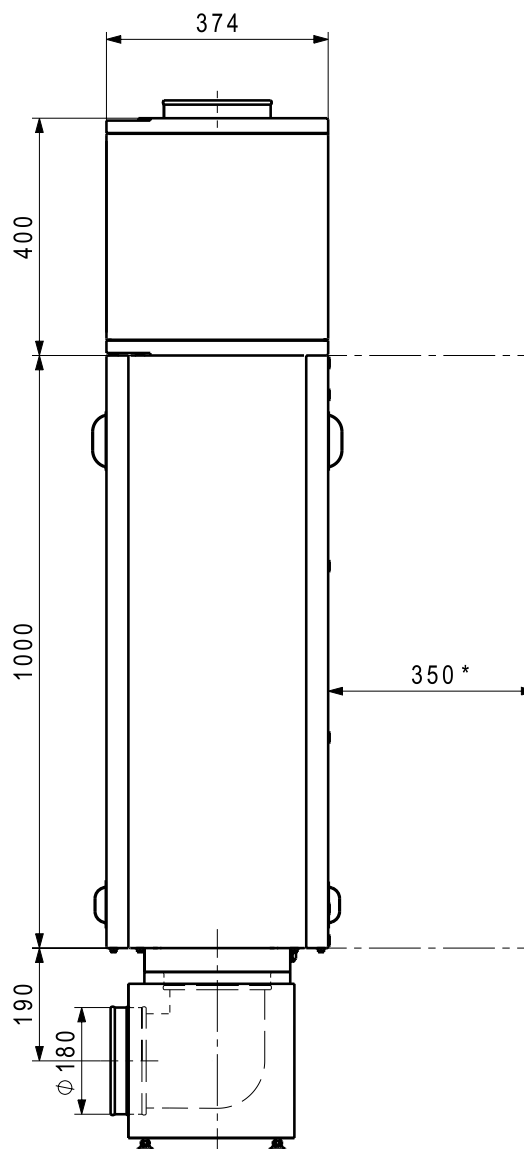
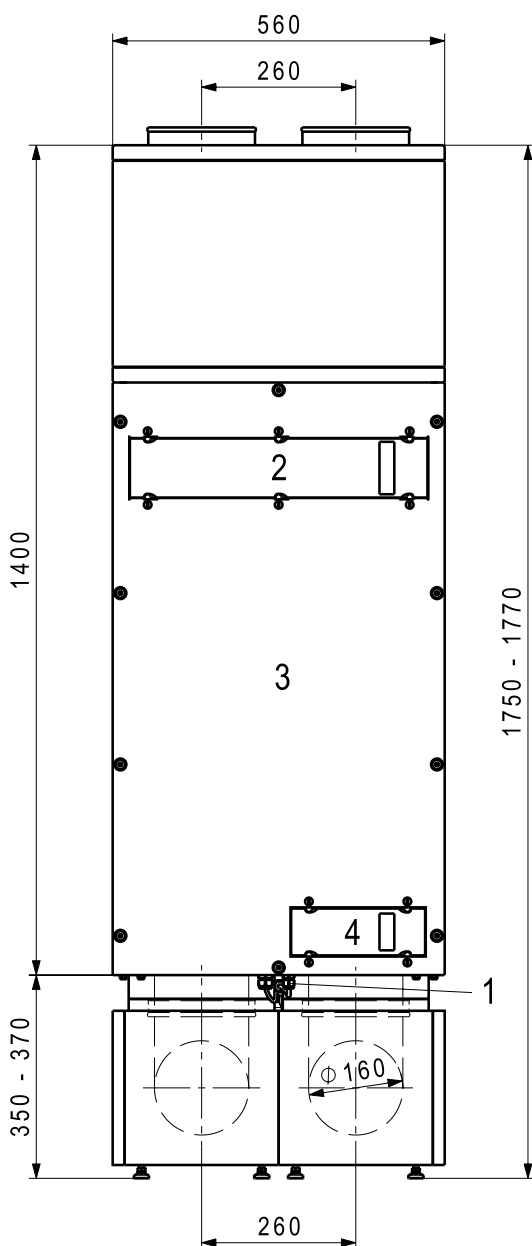
Electrical power consumption HomeVent® ER (200-400)



HomeVent® comfort ventilation unit



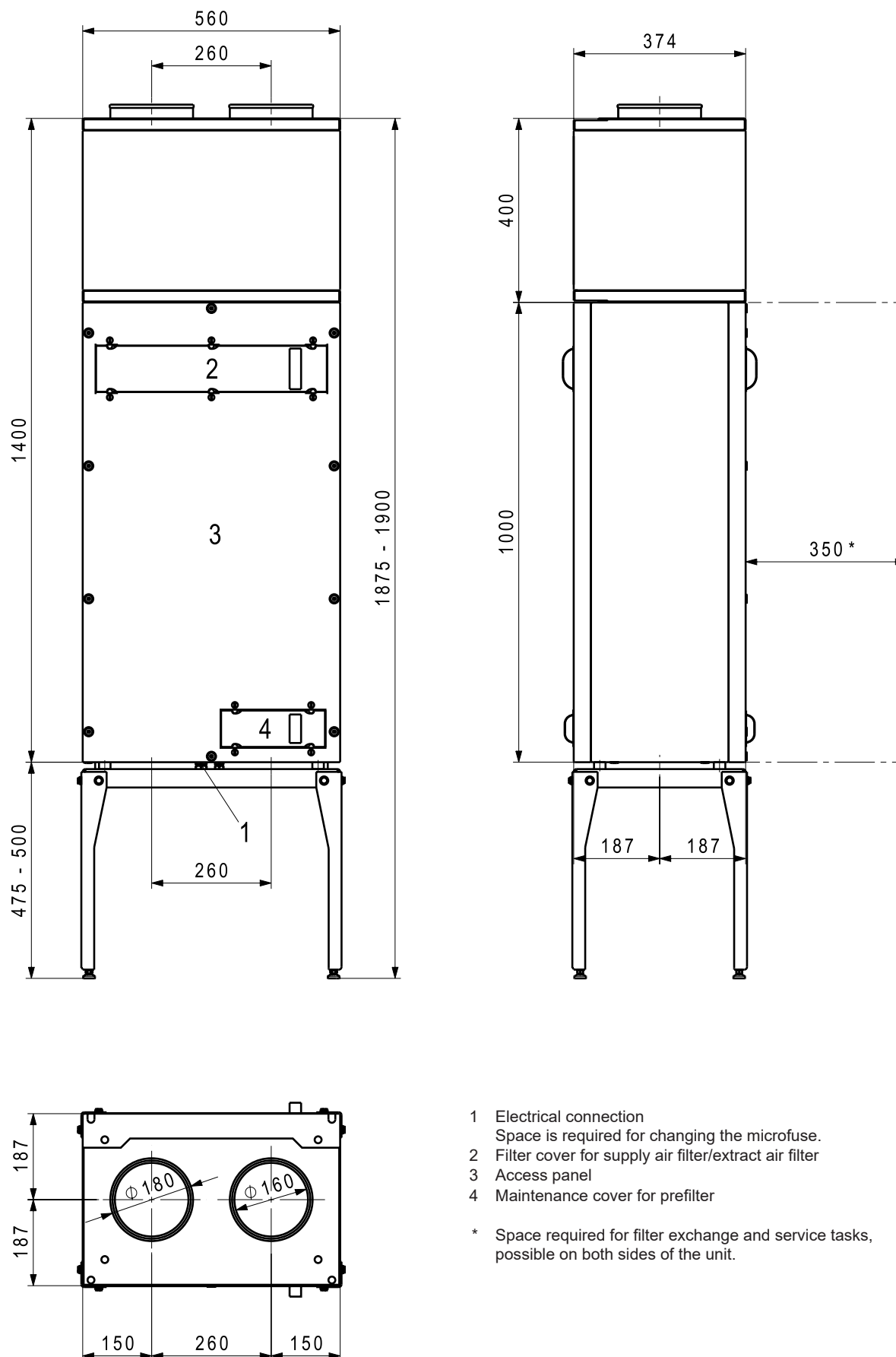
HomeVent® comfort ventilation unit with acoustic insulating box and IsiCube



- 1 Electrical connection
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

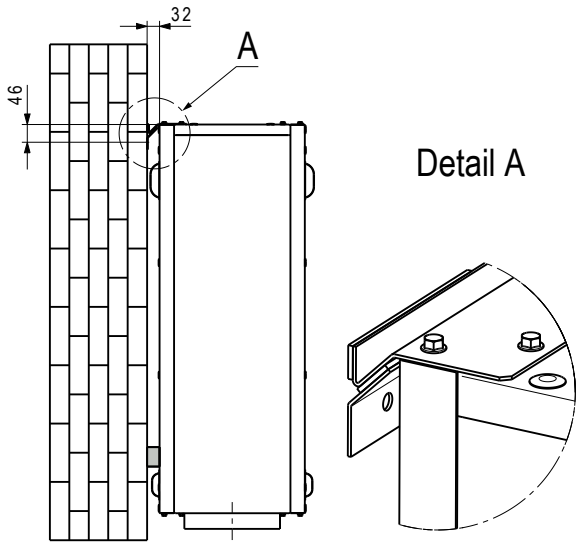
* Space required for filter exchange and service tasks, possible on both sides of the unit.

HomeVent® comfort ventilation unit with acoustic insulating box

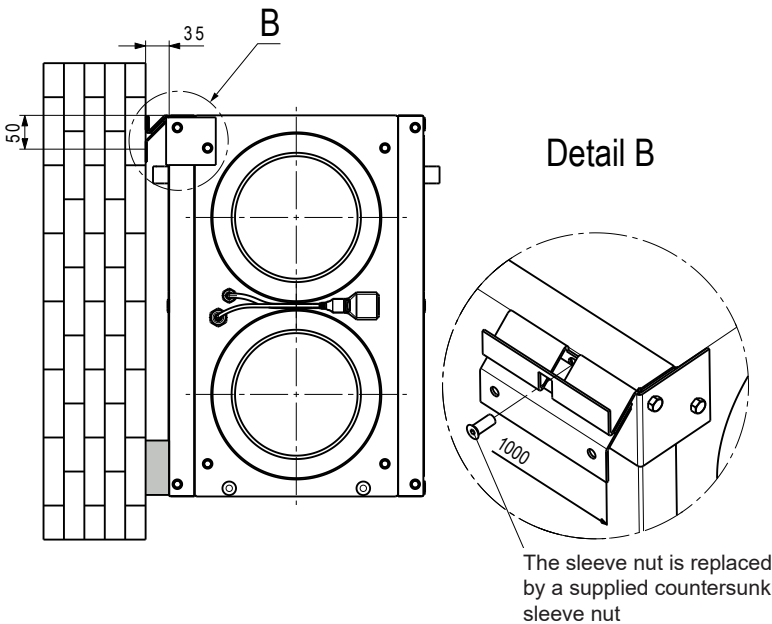


HomeVent® comfort ventilation unit
Installation with vibration dampers

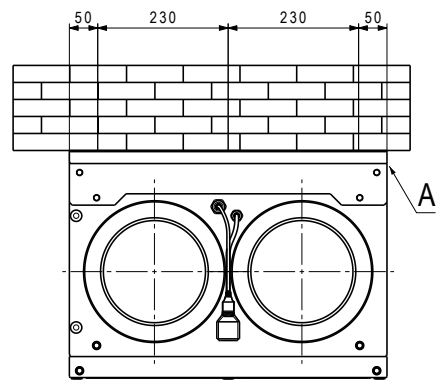
Vertical wall installation: S-WV



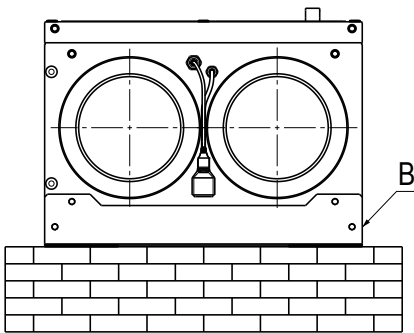
Horizontal wall installation: S-WH



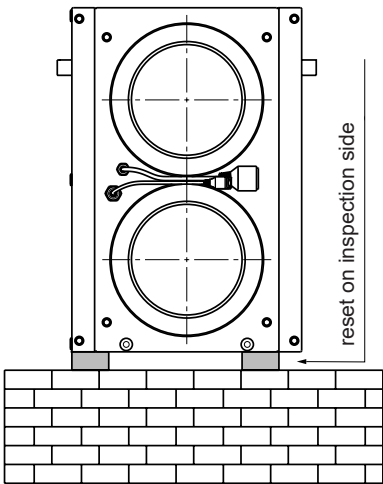
Ceiling installation: S-D



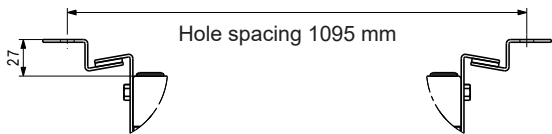
Floor installation: S-B



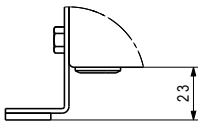
Floor installation: upright



Detail A



Detail B



Can be installed in any position.

Acoustic insulating box for plywood 12 x 75 and 12 x 90

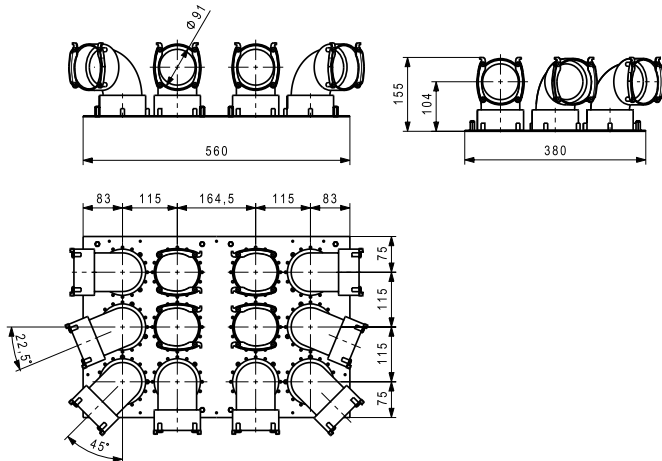
Casing made of red foiled sheet steel
with sound insulation elements on supply
air and extract air sides

Can be screwed onto plywood

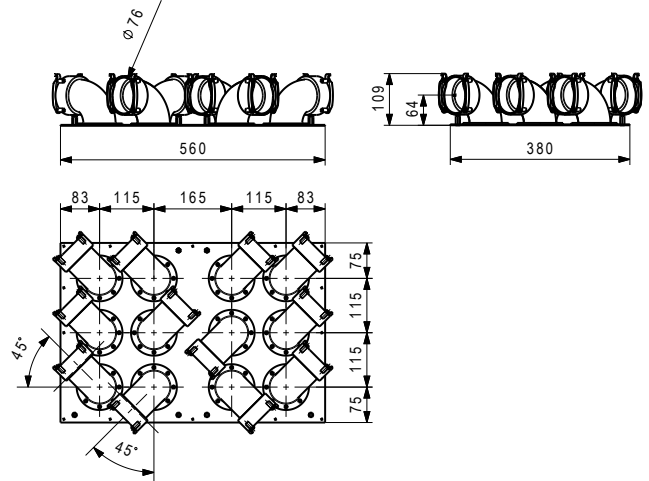
Connection nozzles:

2 x DN 160/180

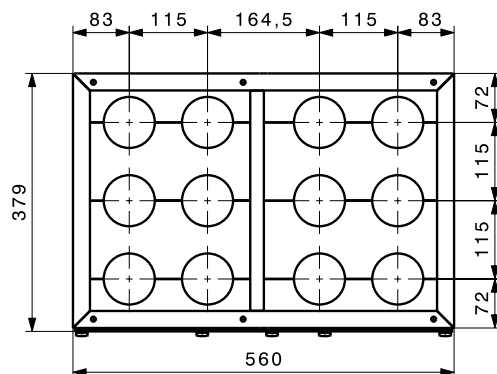
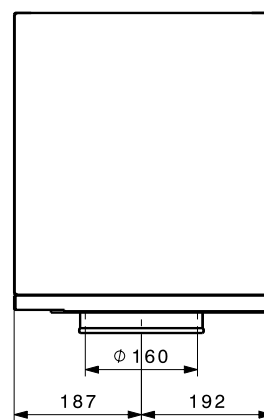
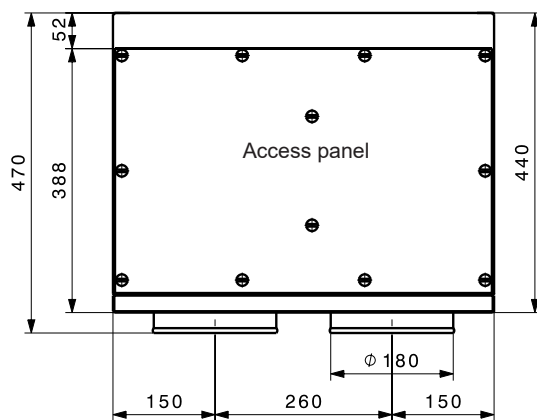
Plywood 12 x 90



Plywood 12 x 75



Acoustic insulating box for plywood 12 x 75/90



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:

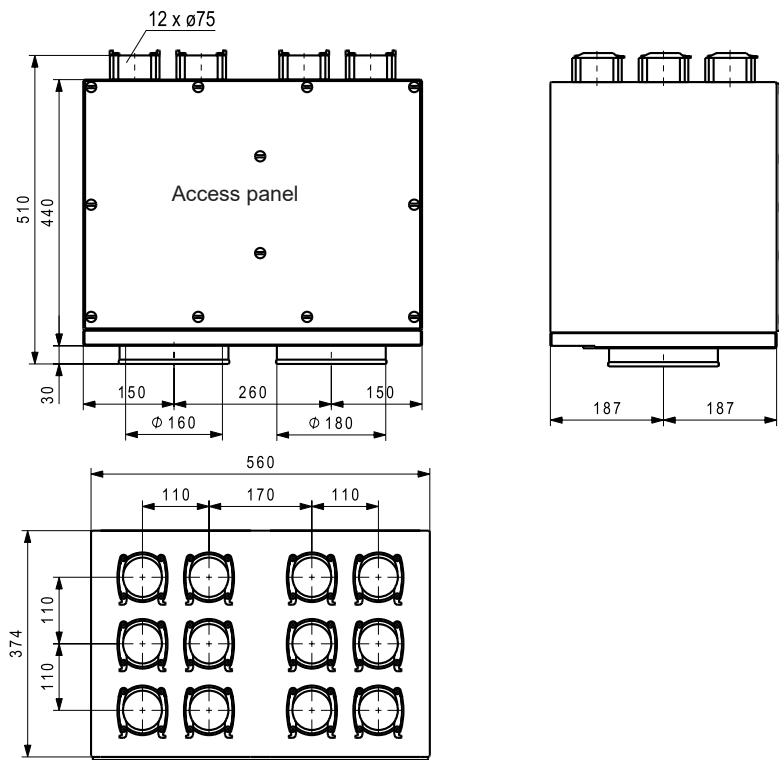
2 x DN 160/180

ZUL 6 x 75, ABL 6 x 75

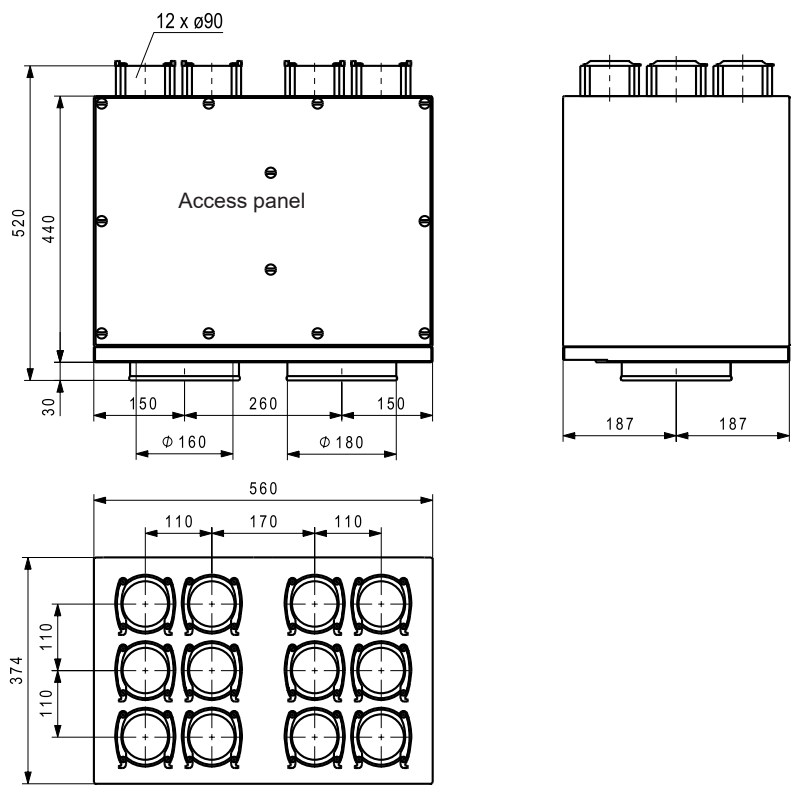
ZUL 6 x 90, ABL 6 x 90

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

Casing made of red foiled sheet steel with access panel.

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

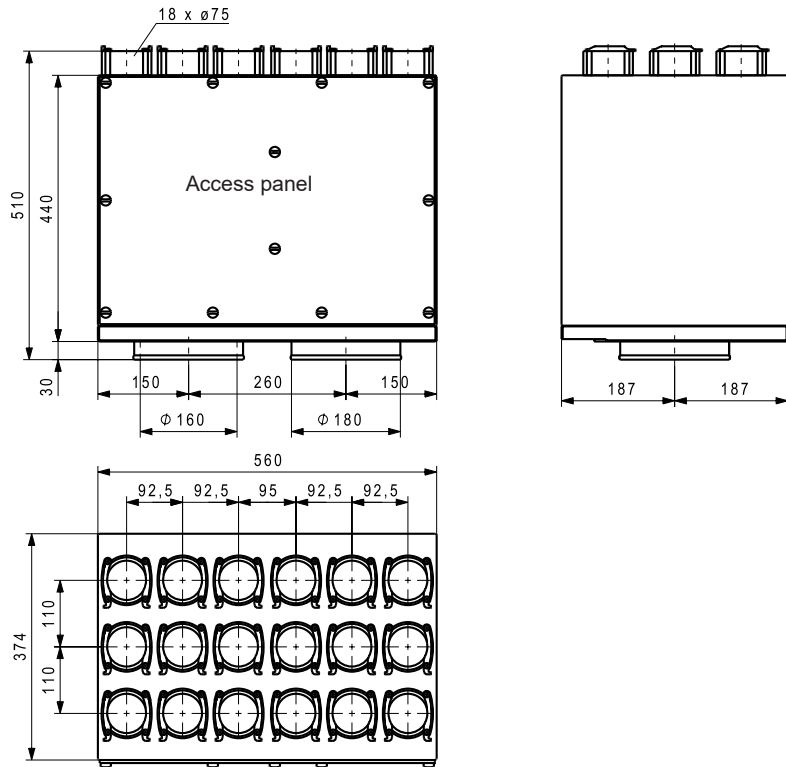
Additional silencer recommended

Connection nozzles:

2 x DN 160/180

ZUL 9 x 75, ABL 9 x 75

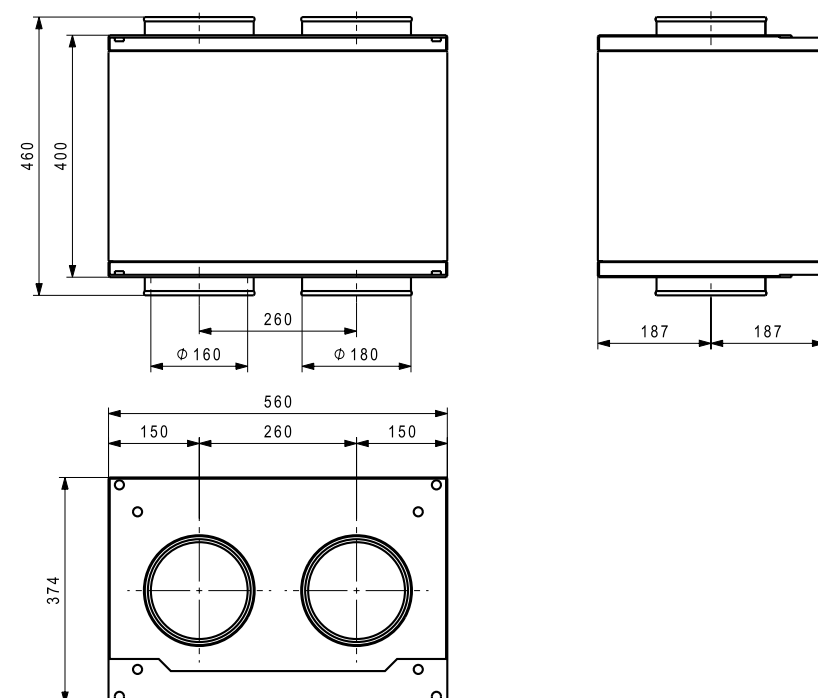
Included accessories: end caps and throttle orifices



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



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 exchanger with speed regulation
- Two backward-curved EC fans (continuously adjustable 15-100 %)
- High-quality filters
 - 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, IP40

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
 - Mains cable 3 m
 - 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 m³/h	Heat recovery efficiency %
(250)	A ⁺	50-250	90-130
(350)	A ⁺	70-350	90-130
(450)	A	80-450	90-130

A⁺ → F

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 exchanger 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 exchanger 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 exchanger, 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 is equipped with adjustable feet or can be installed upright on the wall 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 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 exchanger 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 can be 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 exchanger, 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.

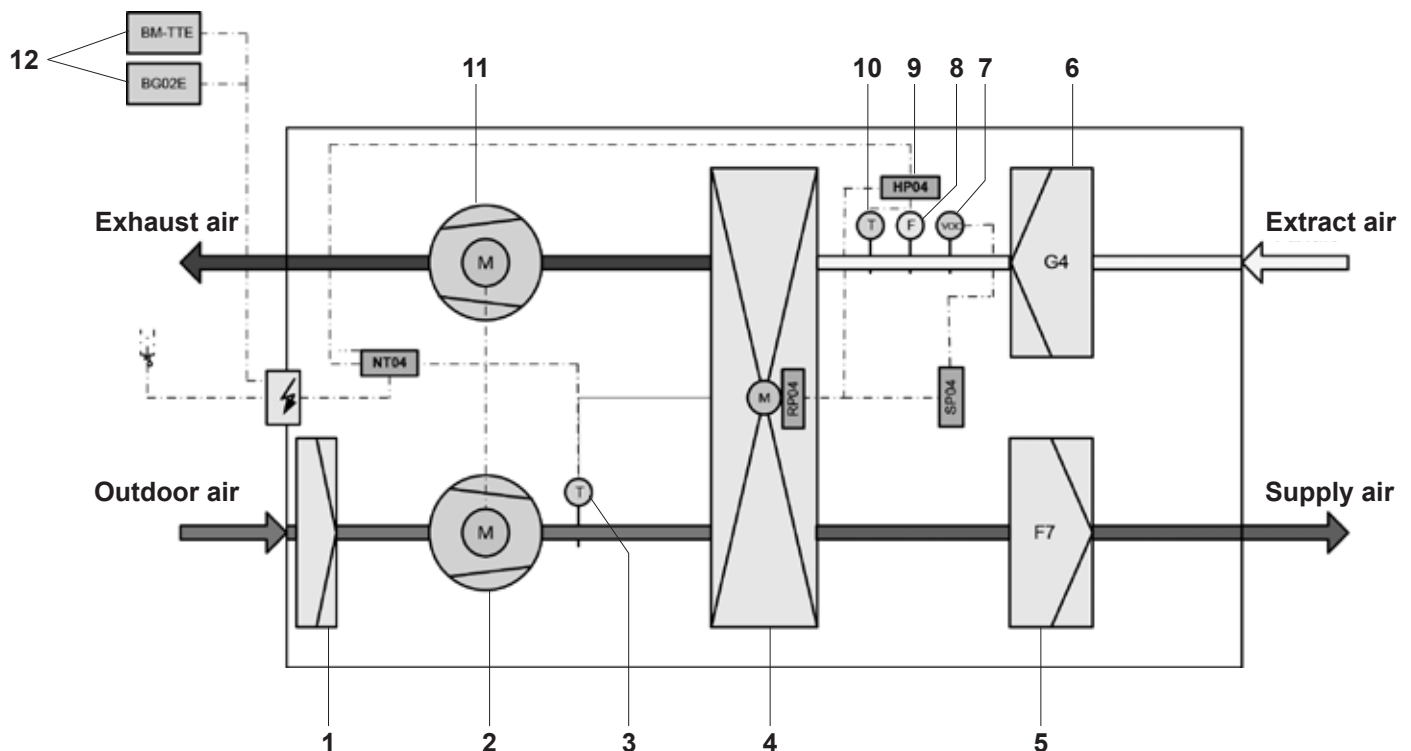
The enthalpy exchanger extracts heat and humidity from the air and passes these to the supply air.

The way the fans are positioned – with over-pressure 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 exchanger 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 exchanger | 11 Exhaust air fan |
| 5 Supply air filter | 12 Operator terminal BG02 E or TopTronic® E |
| 6 Extract air filter | |
| 7 VOC or CO ₂ extract air sensor | |



Comfort ventilation units



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)	250	100
(350)	350	100
(450)	450	100

Energy efficiency class
 see "Description"

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.

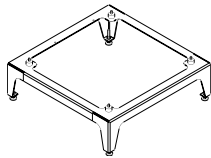
6058 206



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.

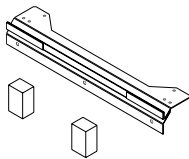
6058 211

Notice
CO₂-sensor cannot be combined with VOC
sensor



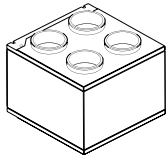
Unit base ERT (250-450)
for HomeVent® ERT
Red painted steel (device colour)
incl. 4 vibration dampers
height-adjustable feet
Height: 185-210 mm

6062 875



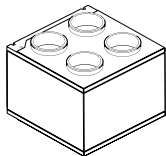
Vertical wall mounting set
for HomeVent® ER and ERT
Steel bracket red coated
with vibration-damping support

6046 215



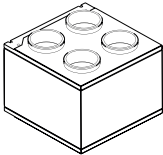
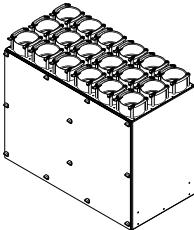
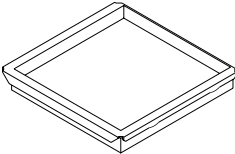
**Acoustic insulating box ERT
ABL-ZUL front**
for HomeVent® ERT
Casing made from red
foil-plated sheet steel
connection nozzles 4 x DN 160.
ABL front left,
ZUL front right
FOL back left,
AUL back right
All 4 air ducts are sound-insulated.
Dimensions (L x W x H):
400 x 560 x 560 mm

6046 018



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

6046 019

		Part No.
 	Acoustic insulating box ERT ABL-ZUL left for HomeVent® ERT Casing made from red foil-plated sheet steel connection nozzles 4 x DN 160. ABL rear left, ZUL front left FOL back right, AUL front right All 4 air ducts are sound-insulated. Dimensions (L x W x H): 400 x 560 x 560 mm	6046 020
	Distribution box ERT 18 x 75 for HomeVent® ERT Casing made from red foil-plated sheet steel Connections 2 x DN 180 (IsiFit) Connection nozzles 18 x DIN 75 Acoustic insulating body on supply and extract air sides, access panel, incl. throttle orifices Dimensions (L x W x H): 454 x 560 x 280 mm	6061 463
Filter HomeVent® ERT		
   	Pre-filter set G4 ERT and FRT for HomeVent® ERT and FRT Filter class ISO 16890: ePM₁₀ 60 % (G4)	6063 365
	Supply air filter ERT and FRT for HomeVent® ERT and FRT Filter class ISO 16890: ePM_{1,0} 55% (F7)	5043 550
	Activated carbon filter ERT and FRT for HomeVent® ERT and FRT Protection against pollutants and odours Alternative to supply air filter Filter class ISO 16890: ePM_{2,5} 50 %	5043 778
	Extract air filter ERT and FRT for HomeVent® ERT and FRT 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)	m³/h	250	350	450
• Air flow rate control range	m³/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			IP40	
• 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/m³/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 ZUL/ABL [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	
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 level L _{WA} 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 level L _{WA} 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 level L _{WA} 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 level L _{WA} 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 ZUL/ABL [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	
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 level L _{WA} 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 level L _{WA} 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 level L _{WA} 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 level L _{WA} 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 ZUL/ABL [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 ZUL/ABL [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

* Additional sound insulation measures are necessary for noise-sensitive rooms.

Sound power: HomeVent® ERT (450)

Casing

Flow rate ZUL/ABL [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 ZUL/ABL [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

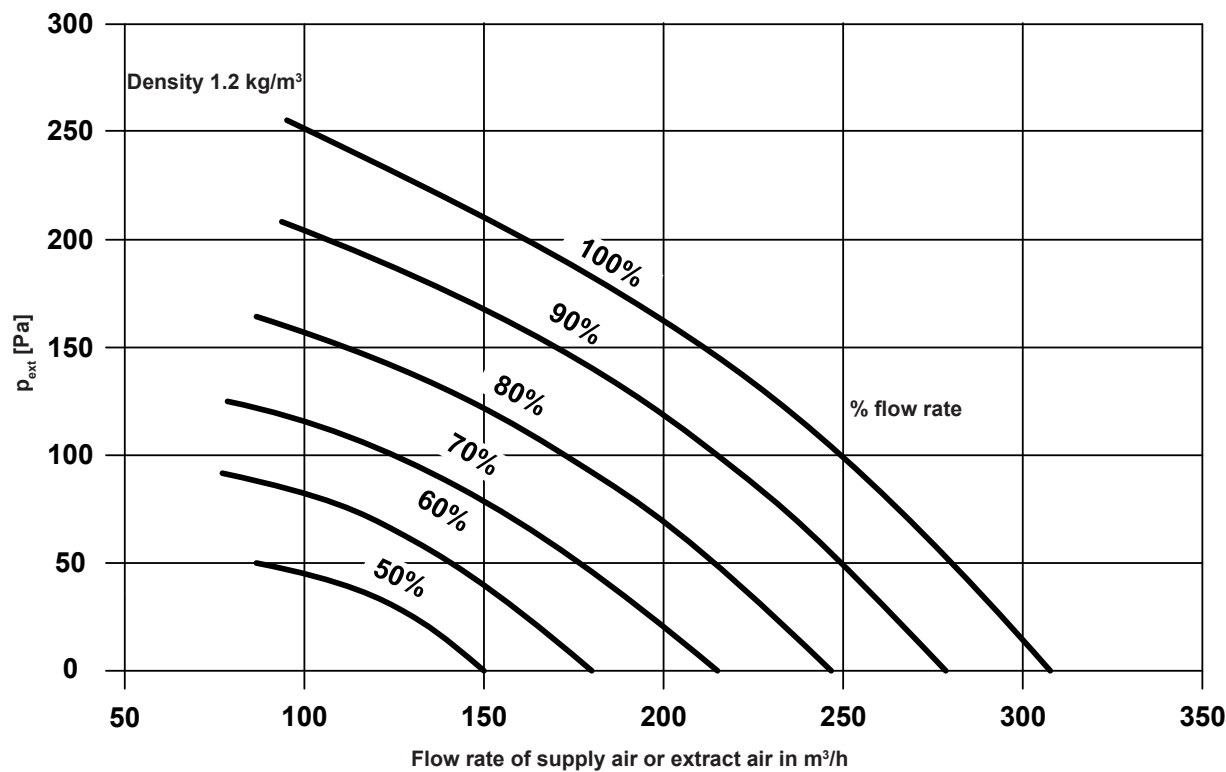
Exhaust air

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

* Additional sound insulation measures are necessary for noise-sensitive rooms.

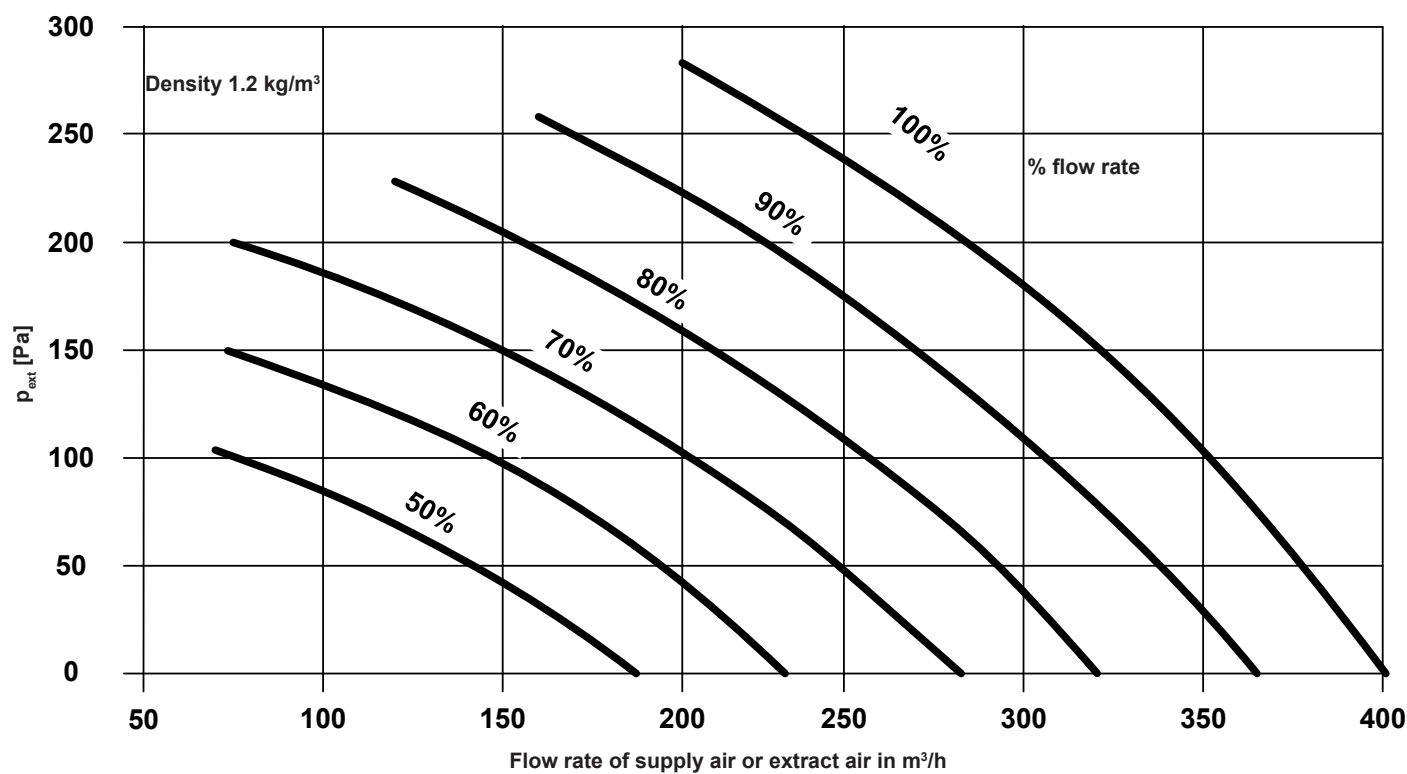
Performance chart for air flow rate, HomeVent® ERT (250)

p_{ext} Sum of external pressure drops



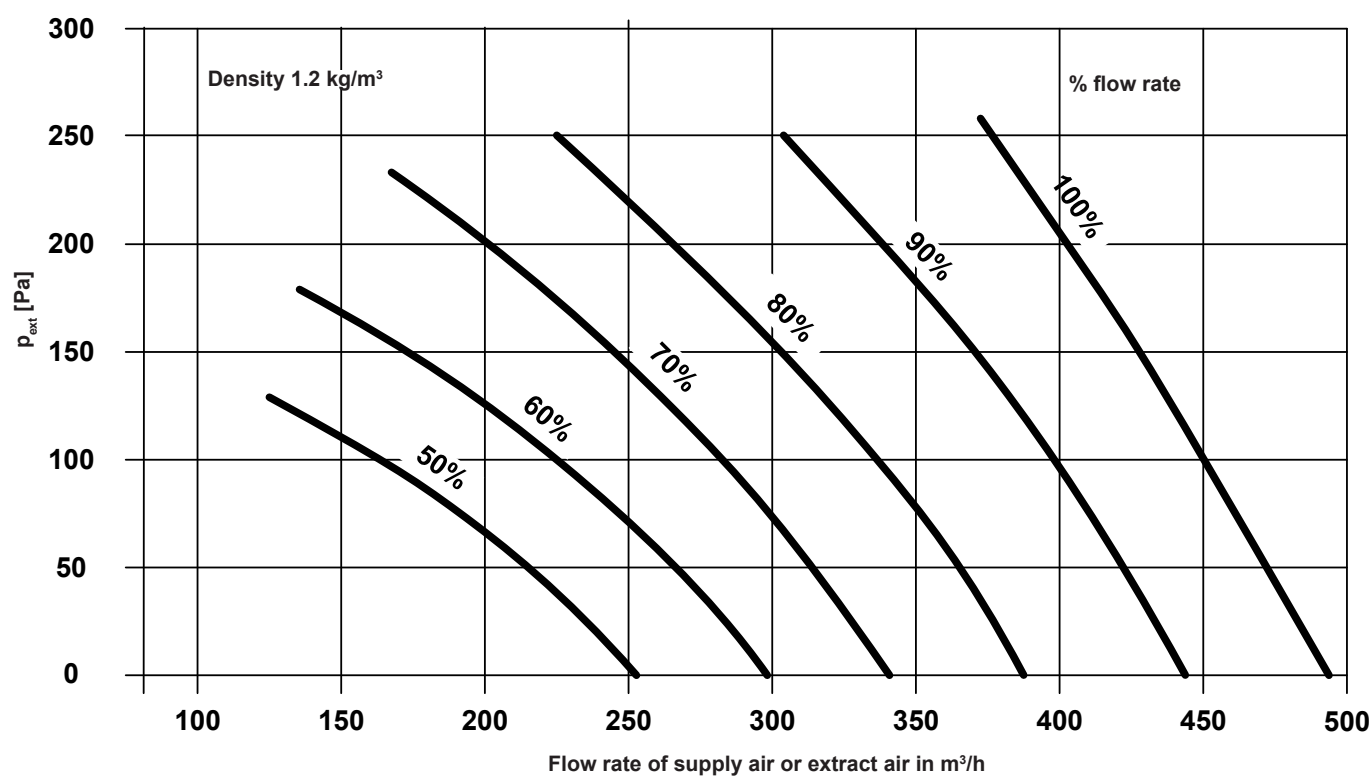
Performance chart for air flow rate, HomeVent® ERT (350)

p_{ext} Sum of external pressure drops

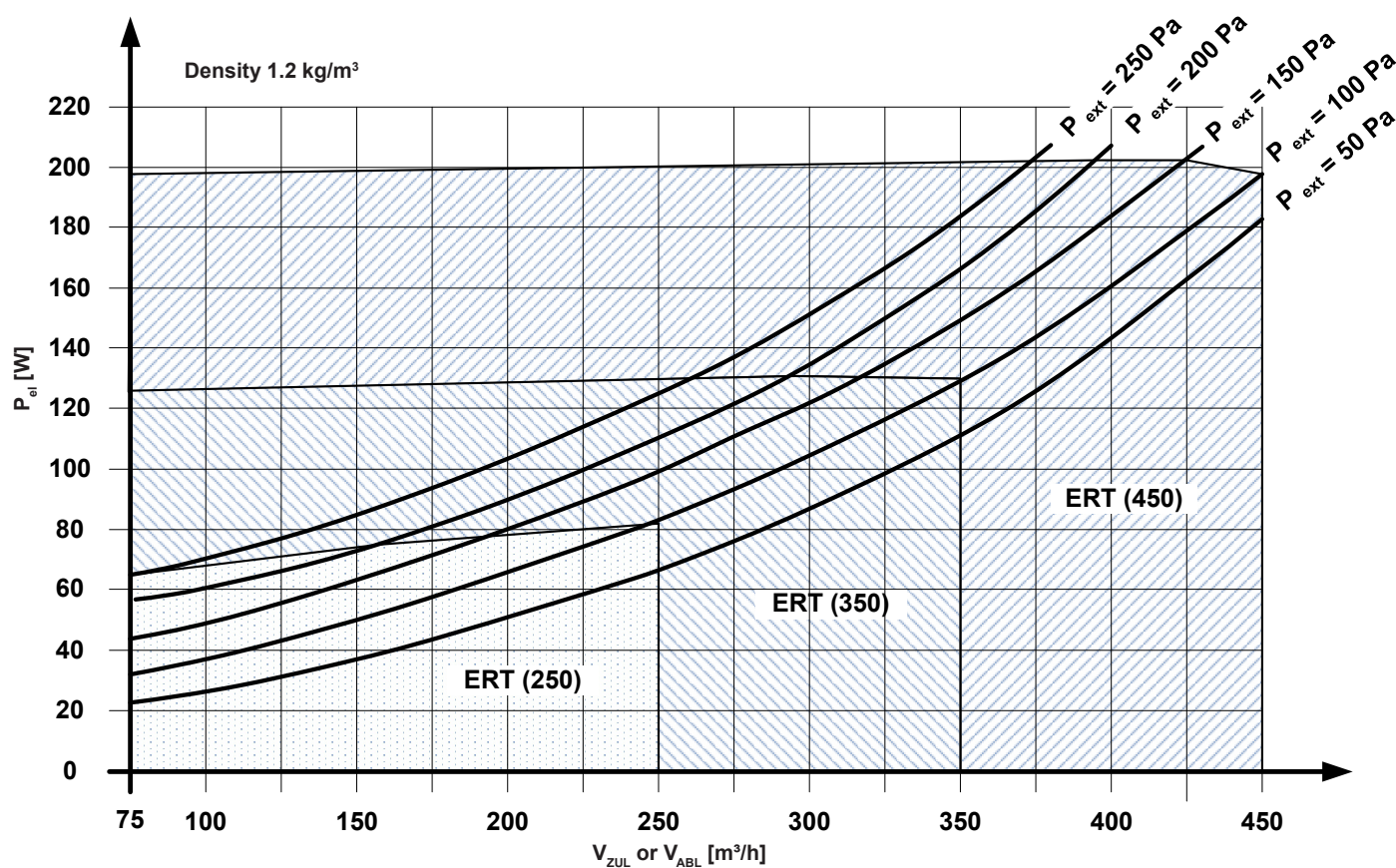


Performance chart for air flow rate HomeVent® ERT (450)

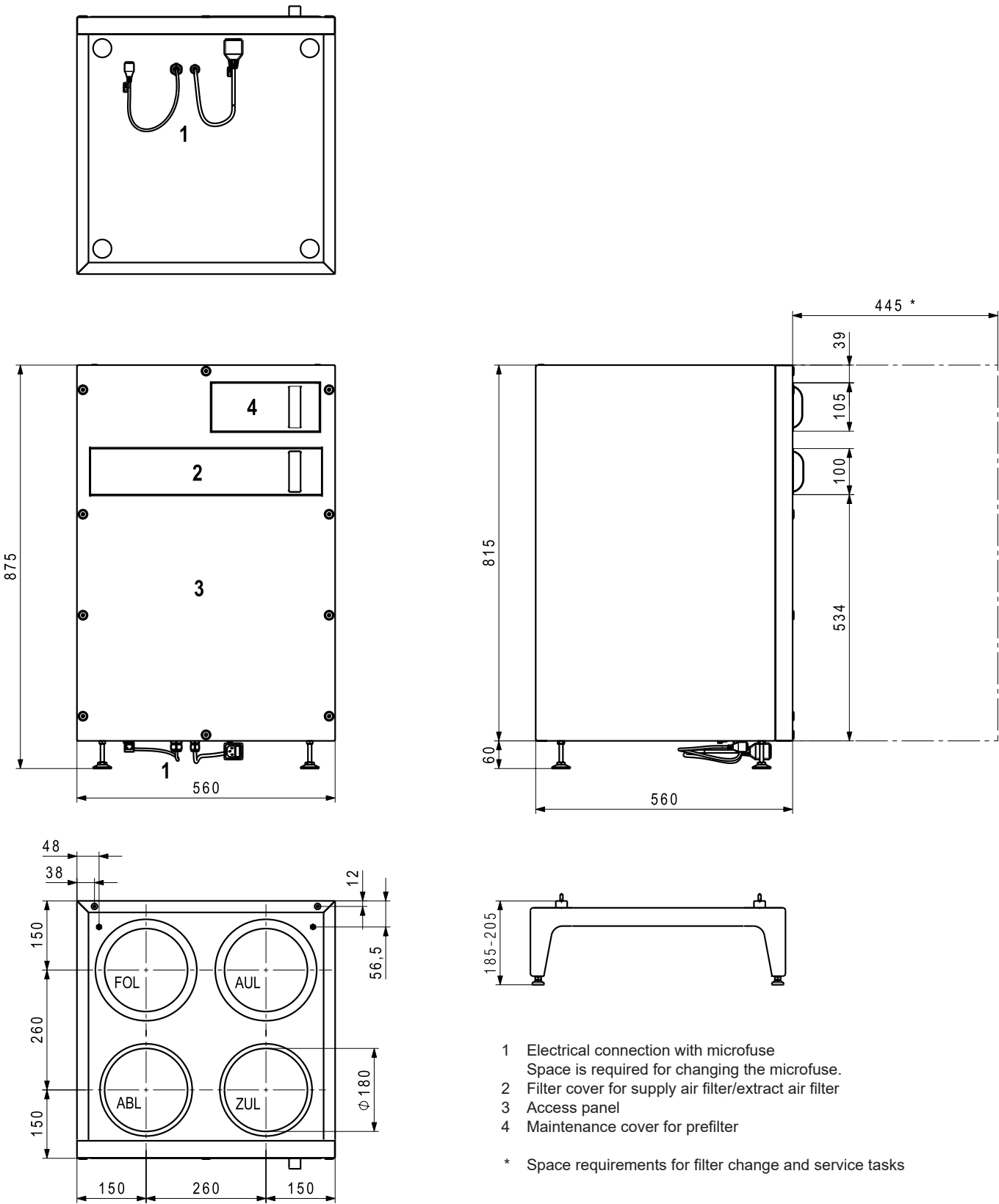
p_{ext} Sum of external pressure drops



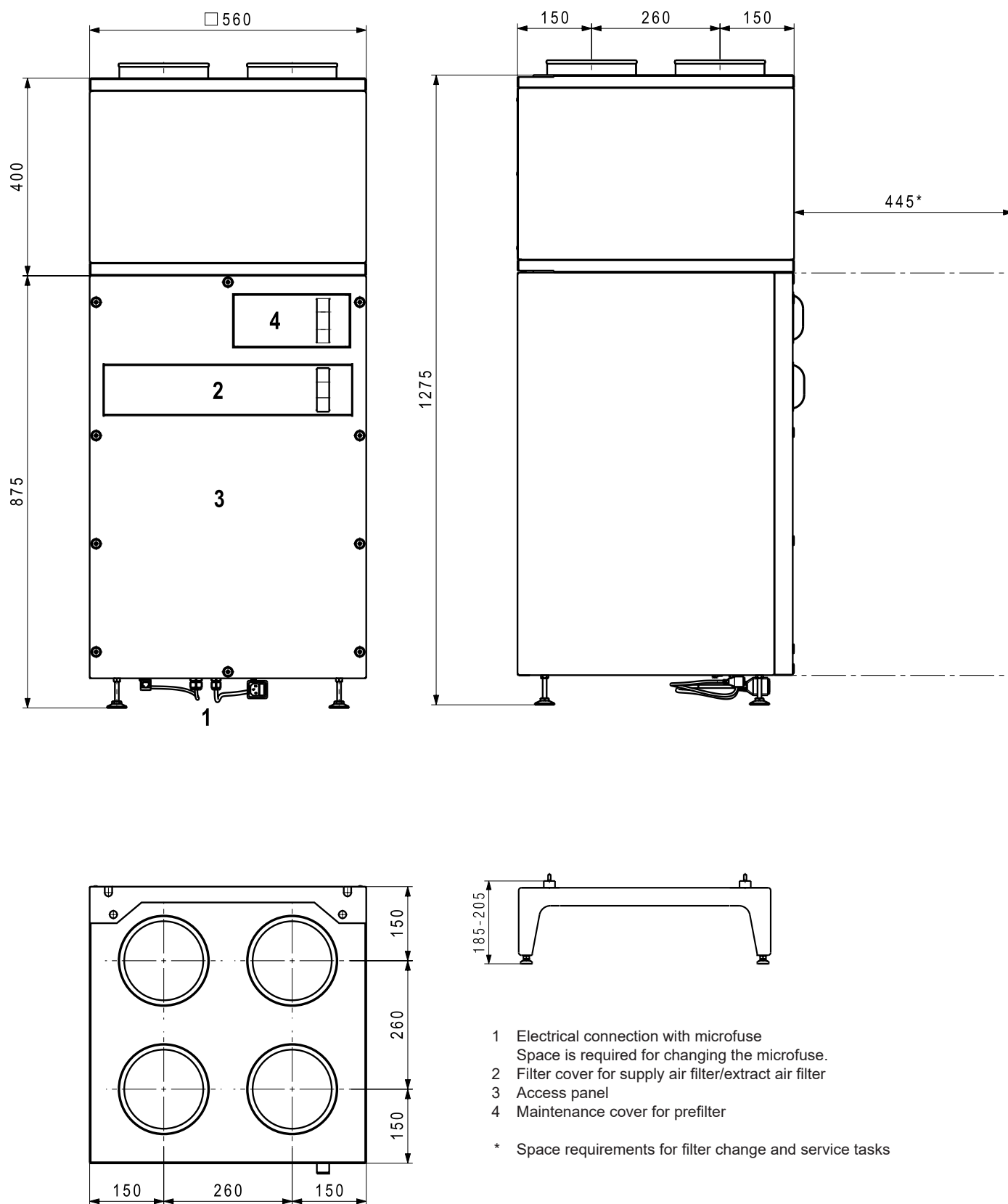
Electrical power consumption HomeVent® ERT (250-450)



HomeVent® comfort ventilation unit

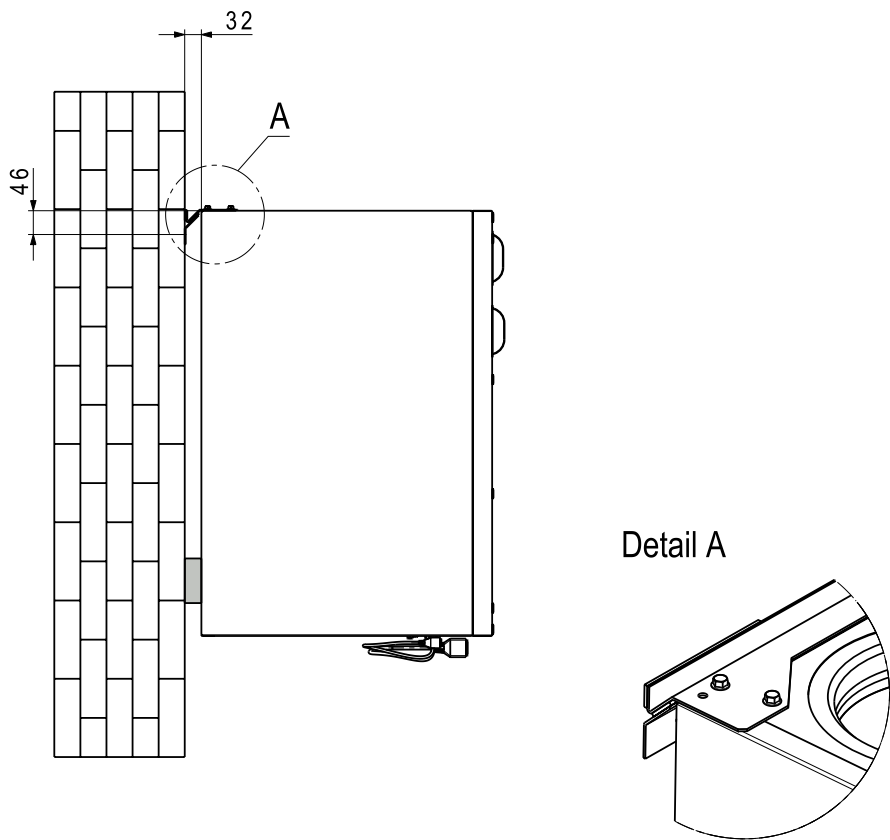


HomeVent® comfort ventilation unit with acoustic insulating box



Space requirements

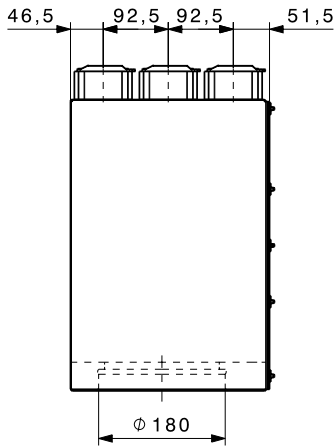
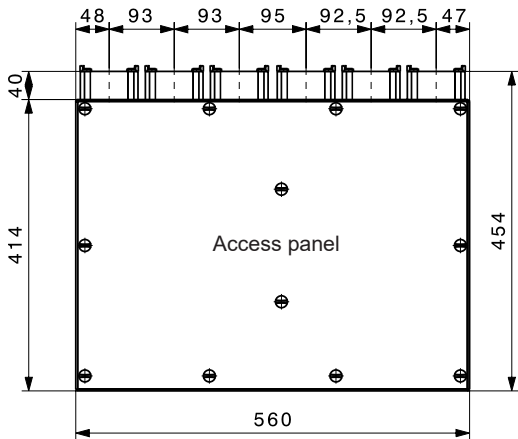
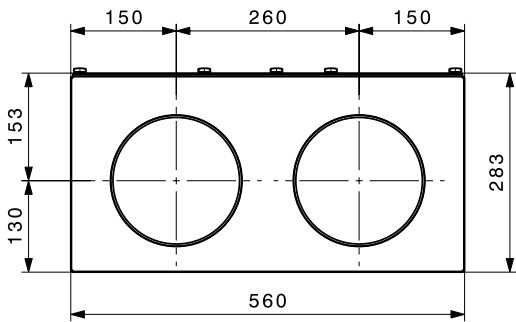
HomeVent® comfort ventilation unit
 Installation with installation set



Distribution box DN 180

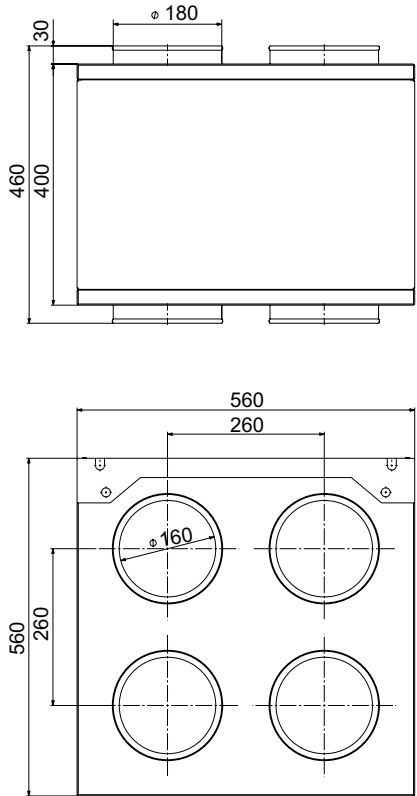
Distribution box VTB-180 18 x 75

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
 ZUL 9 x 75, ABL 9 x 75
 Included accessories:
 6 end caps and throttle orifices



Acoustic insulating box ERT

Casing made of sheet steel painted in red.
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

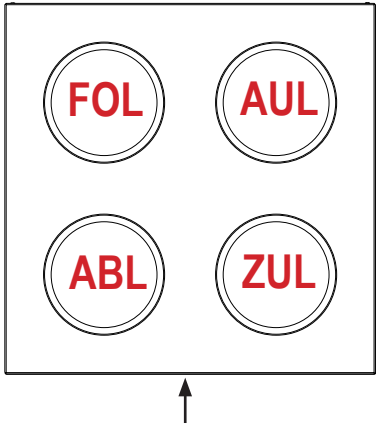
ERT (450) 100 %

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

ERT (450) 100 %

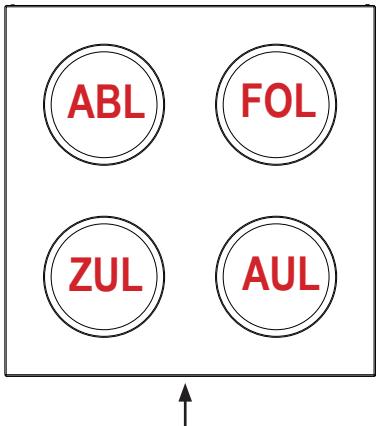
Silencer, on the left/right	
ZUL [Δp Pa]	41
AUL [Δp Pa]	35
FOL [Δp Pa]	31
ABL [Δp Pa]	37

Acoustic insulating box ERT straight

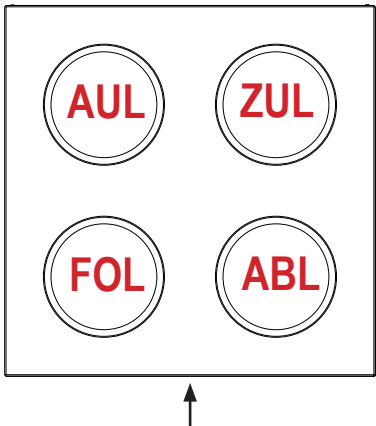


↑ Service side;
wall mounting opposite if necessary

Acoustic insulating box ERT left



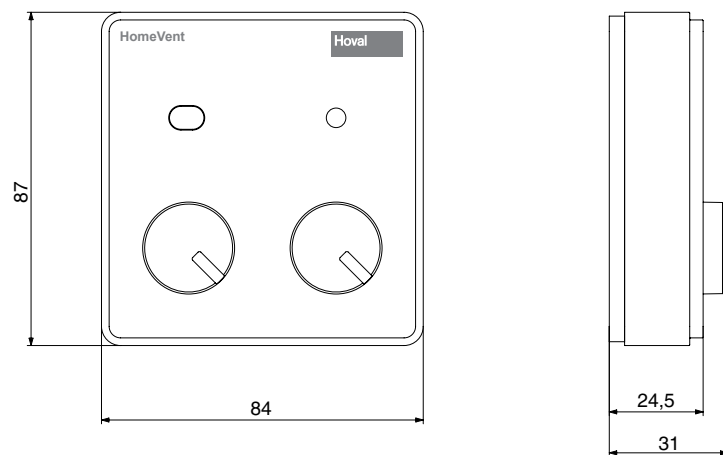
Acoustic insulating box ERT right



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

■ Dimensions

HomeVent® standard operator terminal BG02 E on-wall



Operator terminals BG02 E

Connection for RJ 45 plug
CAT5 patch (8-pin) connection cable
(parallel, not crossed)

Electrical connection

- Voltage (DC) 24 V

Type of protection IP20

Application limits

- No use of further peripheral components (bus connection, air quality sensors, HovalConnect)

3K3 as per EN 50090-2-2

Residential rooms, office

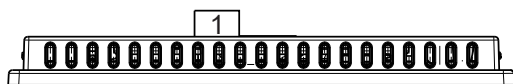
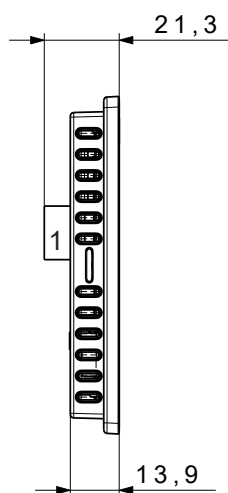
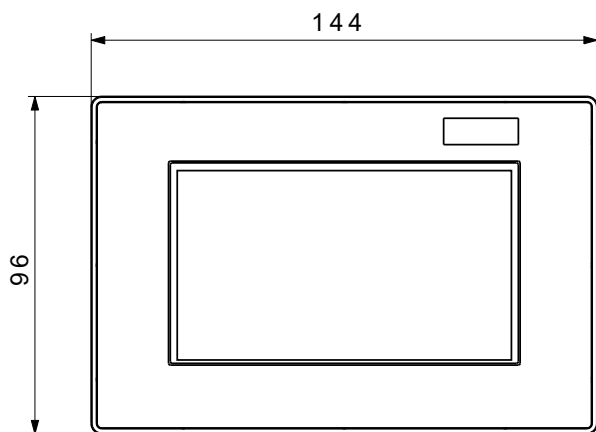
- Temperature range 15 ... 40 °C
- Humidity range 5-85 % r. h.

TopTronic® E
Room control module comfort plus

- Colour touchscreen 4.3 inch
- Resolution: 480 x 320
- Connection to the Hoval bus system via RJ45 plug connection or plug terminals (max. 0.75 mm²)
- Voltage: 12 V DC 100 mA
- Humidity (in operation): 20-80 %, non-condensing

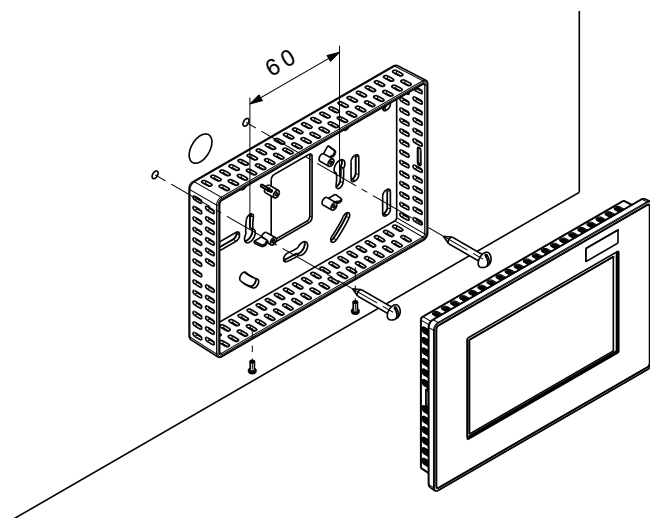
■ **Dimensions**

(Dimensions in mm)

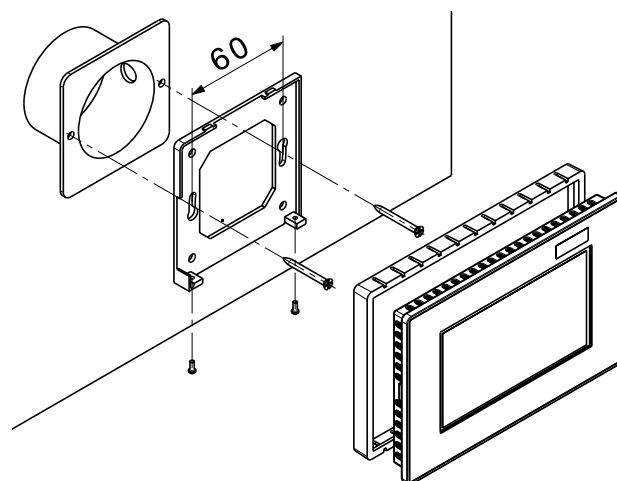


1 Removable RJ45 plug connection
Alternative: plug terminal (max. 0.75 mm²)

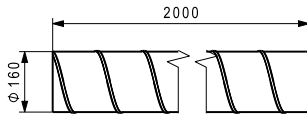
Wall mounting with surface-mounting frame
(On-wall mounted frame is included in the scope of delivery)



Wall mounting with wall mounting plate
with concealed sockets
(Wall-mounting plate is included in the scope of delivery)

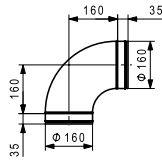


Pipe system DN 160 of sheet steel



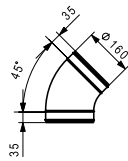
Spiral-seam tube WFR-160
of galvanised sheet steel
DN 160, length: 2 m

2074 487



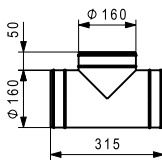
Pipe bend BU-160-90
90° bend of galvanised sheet steel
with double lip seal
DN 160

2074 488



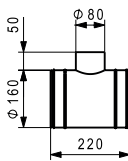
Pipe bend BU-160-45
45° bend of galvanised sheet steel
with double lip seal
DN 160

2074 489



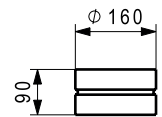
T-piece TCPU-160-160
of galvanised sheet steel
with double lip seal
DN 160/DN 160/DN 160

2074 490



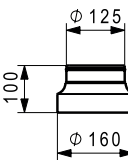
T-piece TCPU-160-80
of galvanised sheet steel
with double lip seal
DN 160/DN 80/DN 160

2074 491



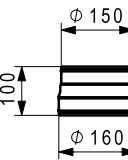
Sleeve MF-160
of galvanised sheet steel
DN 160

2074 492



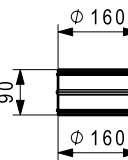
Reduction/extension RCFU-160-125
of galvanised sheet steel
with double lip seal
DN 160 sleeve/DN 125 nipple

2074 493



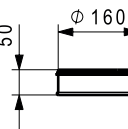
Reduction/extension RCU-160-150
of galvanised sheet steel
with double lip seal
DN 160 nipple/DN 150 nipple

2024 260



Nipple NPU-160
of galvanised sheet steel
with double lip seal
DN 160

2074 504



End cover ED-160
of galvanised sheet steel
with double lip seal
DN 160

2074 505

Part No.

6050 007

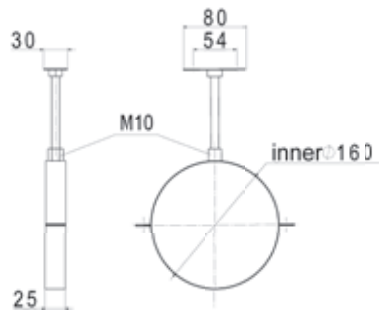
2074 507

2023 561

2023 560

2023 562

2023 563



Pipe clamp ROS-160
of galvanised steel
2-section pipe clamp with insulation
insert, threaded rod 0.2 m and
ground plate.
DN 160

Thermal insulation DN 160



Thermal insulation tube IS 160-25
for spiral-seam tube WFR 160
made of steam-tight EPDM
3 tubes of 2 m each
Insulation thickness: 25 mm



Thermal insulation IB 160-45
for pipe bend BU 160-45
made of steam-tight EPDM
Insulation thickness: 25 mm



Thermal insulation IB 160-90
for pipe bend BU 160-90
made of steam-tight EPDM
Insulation thickness: 25 mm

Notice
Comply with the regional regulations with
regard to thermal insulation.

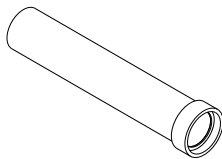


Adhesive IK
for thermal insulation
ready-to-use adhesive with brush
0.25 litre can



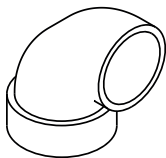
Adhesive tape IKB
for thermal insulation made of EPDM
Thickness: 3 mm
Width: 50 mm
Roll: 15 m

Pipe system DN 160 IsiPipe made of EPP



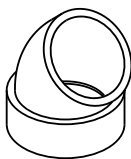
IsiPipe piping EPP-160-1000
Thermally insulated pipe
Material: EPP, wall thickness 15 mm
Inner Ø 160 mm, length: 1000 mm

2075 571



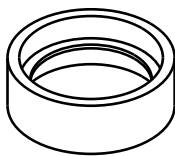
IsiPipe pipe bend EPP-160-90°
Thermally insulated pipe bend 90°
Material: EPP, wall thickness 15 mm
Inner Ø 160 mm

2075 572



IsiPipe pipe bend EPP-160-45°
Thermally insulated pipe bend 45°
Material: EPP, wall thickness 15 mm
Inner Ø 160 mm

2075 573



IsiPipe sleeve EPP-160
Thermally insulated sleeve
Material: EPP, wall thickness 15 mm
length: 80 mm
Inner Ø 160 mm

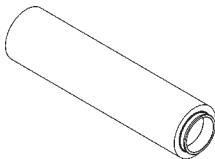
2075 594



IsiPipe pipe clamp ROS-X
of galvanised steel
semicircular pipe clamp, cable tie and
hanger bolt M8 x 60 including anchor

2045 744

Pipe system DN 160 IsiPipe made of EPP



IsiPipe Plus pipeline EPP-160-1000
Thermally insulated pipe with sleeve
Material: EPP
Wall thickness: 43 mm
Internal Ø: 160 mm
Outer Ø: 246 mm
Length: 1000 mm
Sleeve: 30 mm

6059 864



IsiPipe Plus pipe bend EPP-160-45°
Thermally insulated pipe bend 45°
with sleeve
Material: EPP
Wall thickness: 43 mm
Internal Ø: 160 mm
Outer Ø: 246 mm

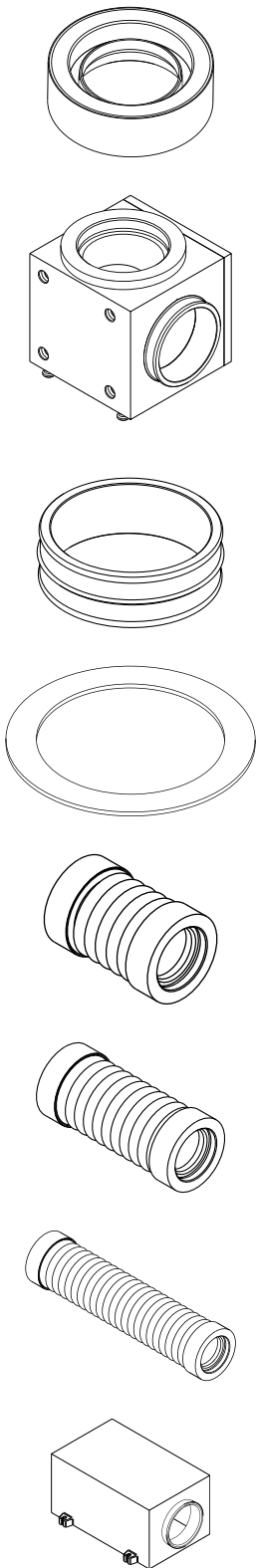
6059 865



IsiPipe plus pipe clamp ROS 160-200
Semi-circular pipe clip from galvanized
steel including cable tie.
Hanger bolt M8 x 60 including anchor

2069 624

Notice
Exact use of the IsiPipe articles,
see Engineering.



IsiPipe plus device adapter 160
Thermally insulated sleeve
Material: EPP
Scope of delivery 2 pcs.

Part No.

6052 925

IsiCube
Thermally insulated air guide
DN 160 + base
Material EPP, for outdoor applications
Air guide either 90° or straight
Including IsiFit and 4 feet
Including 4 pins and compensating plate
suitable for IsiPipe device adapter 160
Can be combined with themselves
2 pieces are required as base

6054 685

IsiFit
Nipple/nipple made of EPP
Inner Ø 160 mm, outer Ø 180 mm
Suitable for ER and ERT, IsiCube,
IsiPipe device adapter 160, IsiFlex

6054 723

IsiSeal
for a secure and tight connection
when using IsiPipe Plus
Device adapter 160
(scope of delivery 2 pcs.)

6057 485

IsiFlex 0.3 m
suitable for IsiSystem 160
Acoustically and thermally insulated,
flexible connector
Material: EPP and rockwool
Length: 0.2-0.3 m

6055 896

IsiFlex 0.5 m
suitable for IsiSystem 160
Acoustically and thermally insulated,
flexible connector, material EPP and
rockwool
Length: 0.25-0.5 m

6055 894

IsiFlex 1.0 m
suitable for IsiSystem 160
Acoustically and thermally insulated,
flexible connector, material EPP and
rockwool
Length: 0.4-1.0 m

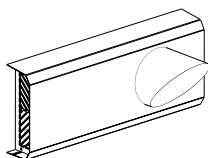
6055 877

IsiSound
Suitable for IsiSystem 160
Thermally insulated silencer
insensitive to moisture, material EPP

6056 360

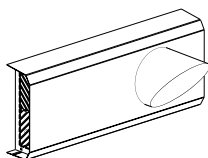
Notice
Exact use of the IsiPipe articles,
see Engineering.

Accessories DN 160



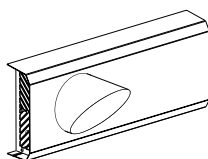
Wall outlet Ø 160 exhaust air on right
made of galvanised sheet metal

6052 505



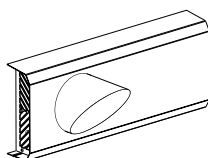
**Wall outlet white Ø 160
exhaust air on right**
made of galvanised sheet metal
white coated (RAL 9016)

6052 504



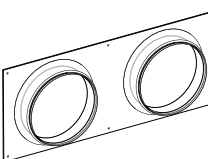
Wall outlet Ø 160 exhaust air on left
made of galvanised sheet metal

6052 507



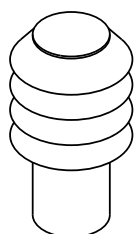
**Wall outlet white Ø 160
exhaust air on left**
made of galvanised sheet metal
white coated (RAL 9016)

6052 506



Plywood for wall outlet Ø 160
suitable for wall outlet, Ø 160

6052 517



Stainless steel cowl AAS-150
for spiral-seam tube DN 150,
galvanic isolation of the connection
for outside and exhaust air
of stainless steel, lamella cowl,
1 pipe DN 150, length = 0.5 m,
2 pipes DN 150, length = 1 m
and 2 wall mountings

6010 185



**Stainless steel segment pipe bend
CRB-150-90**
for spiral-seam tube DN 150,
galvanic isolation of the connection
90° bend of stainless steel
DN 150

2040 722



Cold-shrink tape
for sealing air ducts,
heat and cold resistant
width: 50 mm,
roll: 15 m

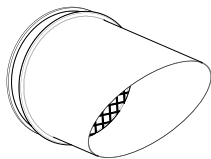
2021 796



Ventilation silicone
for sealing air ducts,
heat and cold resistant
odourless

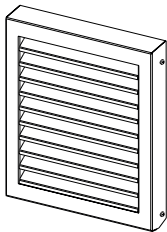
3000 009

Accessories DN 160



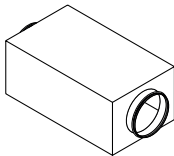
Exhaust air nozzle FST-160
for spiral-seam tube DN 160
of galvanised sheet steel
with bird protection grille and
double lip seal
for horizontal installation

2070 412



Weatherproof grille WG-160
for outdoor and exhaust air
Anthracite grey painted (RAL 7016)
with double lip seal,
pipe nozzle DN 160

6062 253



Silencer SD-160-500
for spiral-seam tube DN 160
rectangular casing
of galvanised sheet steel,
with double lip seal
DN 160, dimensions: 290 x 215 mm,
Length: 0.5 m

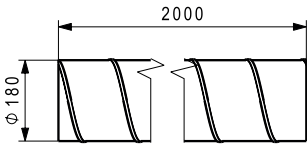
2074 514



Shut-off damper DTU-160
for spiral-seam tube DN 160
sealed shut-off damper
for manual operation
of galvanised steel sheet
DN 160

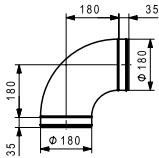
2074 513

Pipe system DN 180



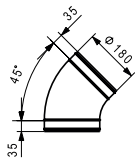
Spiral-seam tube WFR-180
 of galvanised sheet steel
 DN 180, length: 2 m

2057 030



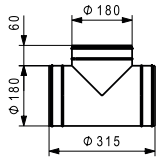
Pipe bend BU-180-90
 90° bend of galvanised sheet steel
 with double lip seal
 DN 180

2057 047



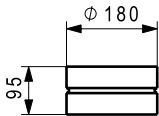
Pipe bend BU-180-45
 45° bend of galvanised sheet steel
 with double lip seal
 DN 180

2057 048



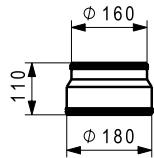
T-piece TCPU-180-180-180
 of galvanised sheet steel
 with double lip seal
 DN 180/DN 180/DN 180

2057 049



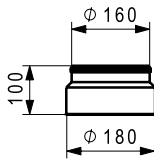
Sleeve MF-180
 of galvanised sheet steel
 DN 180

2057 051



Reduction/extension RCU-180-160
 made of galvanised sheet steel
 with double lip seal
 DN 180 nipple/DN 160 nipple

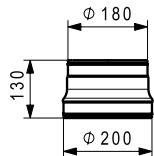
2070 976



Reduction/extension RCFU-180-160
 made of galvanised sheet steel
 with double lip seal
 DN 180 sleeve/DN 160 nipple

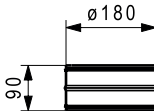
2070 975

Pipe system DN 180



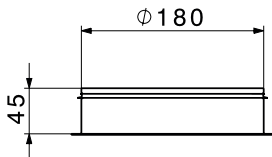
Reduction/extension RCU-200-180
of galvanised sheet steel
with double lip seal
DN 200 nipple/DN 180 nipple

2057 053



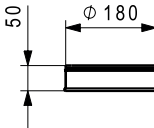
Nipple NPU-180
of galvanised sheet steel
with double lip seal
DN 180

2057 064



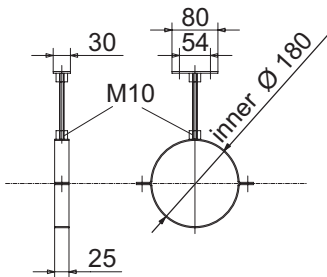
Spigot ILX Ø 180 x 40 mm
with double lip seal

2070 895



End cover ED-180
of galvanised sheet steel
with double lip seal
DN 180

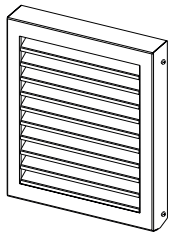
2057 065



Pipe clamp ROS-180
of galvanised sheet steel
2-section pipe clamp with insulation
insert, threaded rod 0.2 m and
ground plate.
DN 180

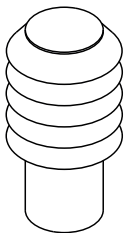
6034 767

Accessories DN 180



Weatherproof grille WG-180
for outdoor and exhaust air
Anthracite grey painted (RAL 7016)
with double lip seal,
pipe nozzle DN 180

6062 254



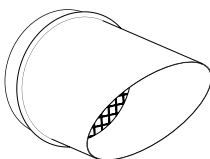
Fresh air suction set AAS-180
for spiral-seam tube DN 180
galvanic isolation of the connection
for outside and exhaust air
of stainless steel, lamella cowl,
1 tube DN 180, length: 0.5 m,
2 tubes DN 180, length: 1 m and
2 wall fastenings

6034 766



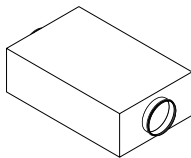
Stainless steel pipe bend CRB-180-90
for spiral-seam tube DN 180,
galvanic isolation of the connection
90° bend of stainless steel

2057 066



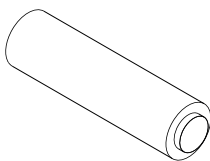
Exhaust air nozzle FST-180
for spiral-seam tube DN 180
of galvanised sheet steel
with bird protection grille
for horizontal installation

2057 069



Silencer FSR-180-750
for spiral-seam tube DN 180
rectangular casing made of galvanised
sheet steel,
with double lip seal, DN 180,
Dimensions: 480 x 250 mm, length: 0.75 m

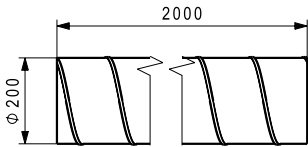
2057 874



Silencer FLSDA-180-1000
for spiral-seam tube DN 180
Silencer outside manufactured from
flexible aluminium envelope tube,
inside from perforated aluminium tube,
with double lip seal, DN 180,
packing thickness 50 mm, length: 1 m

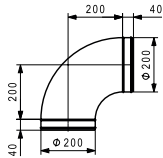
2057 875

Pipe system DN 200



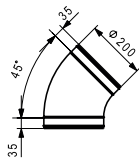
Spiral-seam tube WFR-200
 of galvanised sheet steel
 DN 200, length: 2 m

2045 707



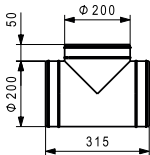
Pipe bend BU-200-90
 90° bend of galvanised sheet steel
 with double lip seal
 DN 200

2040 734



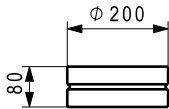
Pipe bend BU-200-45
 45° bend of galvanised sheet steel
 with double lip seal
 DN 200

2040 735



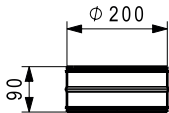
T-piece TCPU-200-200
 of galvanised sheet steel
 with double lip seal
 DN 200/DN 200/DN 200

2040 736



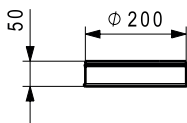
Sleeve MF-200
 of galvanised sheet steel
 DN 200

2040 737



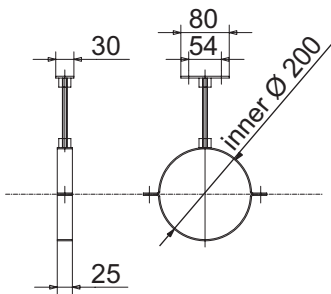
Nipple NPU-200
 of galvanised sheet steel
 with double lip seal
 DN 200

2040 739



End cover ED-200
 of galvanised sheet steel
 with double lip seal
 DN 200

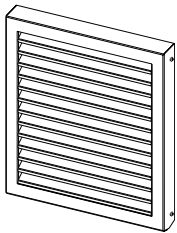
2040 740



Pipe clamp ROS-200
 of galvanised steel
 2-section pipe clamp with insulation
 insert, threaded rod 0.2 m and
 ground plate.
 DN 200

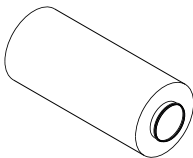
6025 970

Accessories DN 200



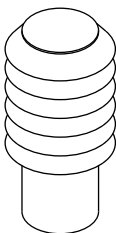
Weatherproof grille WG-200
 for outdoor and exhaust air
 Anthracite grey painted (RAL 7016)
 with double lip seal,
 pipe nozzle DN 200

6062 255



Silencer SD-200-1000
 for spiral-seam tube DN 200
 round casing of galvanised sheet steel,
 with double lip seal,
 DN 200, outer diameter: 400 mm,
 length: 0.9 m

2040 743



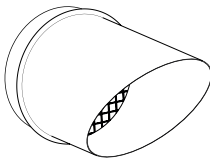
Stainless steel cowl AAS-200
 for spiral-seam tube DN 200,
 galvanic isolation of the connection
 for outside and exhaust air
 of stainless steel, lamella cowl,
 1 pipe DN 200, length: 0.5 m,
 2 pipes DN 200, length: 1 m and
 2 wall mountings

6031 914



Stainless steel segment pipe bend CRB-200-90
 for spiral-seam tube DN 200,
 galvanic isolation of the connection
 90° bend of stainless steel

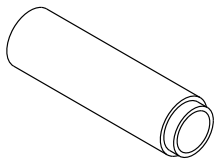
2054 221



Exhaust air nozzle FST-200
 for spiral-seam tube DN 200
 of galvanised sheet steel
 with bird protection grille
 for horizontal installation

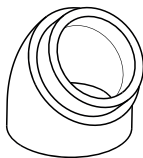
2054 220

IsiPipe Plus Pipe system EPP DN 200



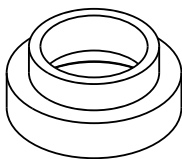
IsiPipe Plus pipeline EPP-200-1000
Thermally insulated pipe
Material: EPP, wall thickness 43 mm
Inner Ø 200 mm, outer Ø 286 mm
Length: 1000 mm incl. sleeve (60 mm)

2065 111



IsiPipe Plus pipe bend EPP-200-45°
Thermally insulated pipe bend 45°
Material: EPP, wall thickness 43 mm
Inner Ø 200 mm, outer Ø 286 mm

2065 113



IsiPipe Plus sleeve EPP-200
Thermally insulated sleeve
Material: EPP, wall thickness 43 mm
length: 80 mm
Inner Ø 200 mm, outer Ø 326 mm

2065 125



IsiPipe Plus ecc. adapter EPP-180-200
Thermally insulated ecc. adapter
Material: EPP, eccentric 48 mm,
length: 250 mm
Inner Ø 180 mm on IsiPipe Plus 200

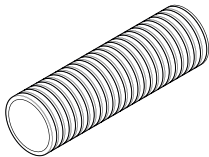
2065 128



IsiPipe plus pipe clamp ROS 160-200
Semi-circular pipe clip from galvanized
steel including cable tie.
Hanger bolt M8 x 60 including anchor

2069 624

Flex pipe system DN 75

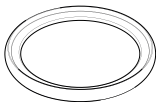


Flexible pipe 75
 of polyethylene PE-HD
 DN 75, inner Ø 62 mm, roller: 50 m
 smooth inner/ribbed outer surface,
 antistatic coating

2072 166

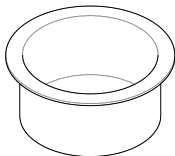
Flexible pipe package 75
 of polyethylene PE-HD
 DN 75, inner Ø 62 mm,
 6 rolls of 50 m, smooth inner/ribbed
 outer surface, antistatic coating
 Flexible pipe packages are excluded
 from return.

6050 103



Sealing ring DI-75 black
 for flexible pipe DN 75

2016 227

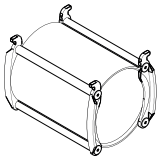


Stopper 75
 For flexible pipe flex 75
 Sealing plug

2072 168

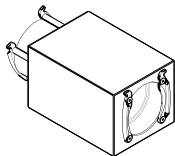
Accessories DN 75

Order the sealing rings for the accessories
 separately. For quick and simple installation,
 all accessories are equipped with snap-on
 clip for attachment of the flexible pipe.



Double sleeve DM-75
 for flexible pipe DN 75
 for connecting flexible pipes

6022 896

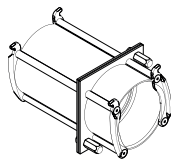


Helmholtz silencer HSD-75
 for flexible pipe DN 75
 for highly acoustically sensitive rooms
 dampens low frequencies (500 Hz)

6020 756

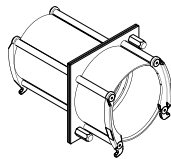
Accessories DN 75

Order the sealing rings for the accessories separately. For quick and simple installation, all accessories are equipped with snap-on clip for attachment of the flexible pipe.



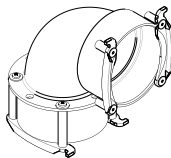
Formwork coupling SK-75
for flexible pipe DN 75 for extending a flexible pipe through the ceiling or the floor without damaging the boarding

6013 047



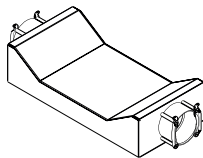
Formwork coupling SK-75/90
for flexible pipe DN 75 and 90
for extending a flexible pipe through the ceiling or the floor and extension from DN 75 to DN 90 without damaging the boarding.

6030 820



Pipe bend RB-75
for flexible pipe DN 75
for connecting flexible pipes at an angle of 90°

6022 967



Flexible pipe crossing FRK-75
for flexible pipe DN 75
for crossing two flexible pipes DN 75 with reduced construction height (100 mm).
For one crossing 2 pieces are necessary.

6031 011

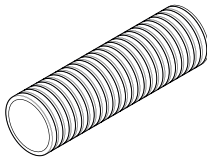


Cable tie
For fastening flexible pipes
Colour: natural

4.8 x 302 mm	100 units/package
7.6 x 370 mm	100 units/package
9.0 x 610 mm	50 units/package

2057 027
2057 028
2057 029

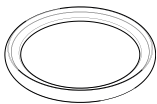
Flex pipe system DN 90



Flexible pipe 90
of polyethylene PE-HD
DN 90, inner Ø: 75 mm, roller: 50 m
smooth inner/ribbed outer surface,
antistatic coating

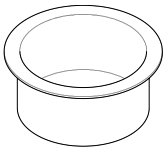
Part No.

2072 167



Flexible pipe package 90
of polyethylene PE-HD
DN 90, inner Ø: 75 mm,
4 rolls of 50 m, smooth inner/ribbed
outer surface, antistatic coating
Flexible pipe packages are excluded
from return.

6050 104



Sealing ring DI-90 black
for flexible pipe DN 90

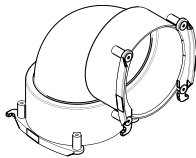
5031 311

Stopper 90
For flexible pipe flex 90
Sealing plug

2072 169

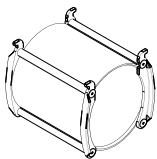
Order the sealing rings for the accessories separately. For quick and simple installation, all accessories are equipped with snap-on clip for attachment of the flexible pipe.

Accessories DN 90



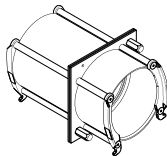
Pipe elbow RB-90
for flexible pipe DN 90
for connecting flexible pipes
at an angle of 90°

6043 275



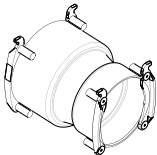
Double sleeve DM-90
for flexible pipe DN 90
for connecting flexible pipes

6022 494



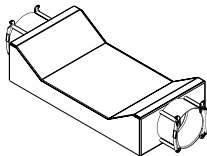
Formwork coupling SK-90
for flexible pipe DN 90 for extending a
flexible pipe through the ceiling or the
floor without damaging the boarding

6022 495



Reduction/extension RCFU-90-75
for connecting flexible pipe DN 90 with
flexible pipe DN 75
of plastic

6022 514

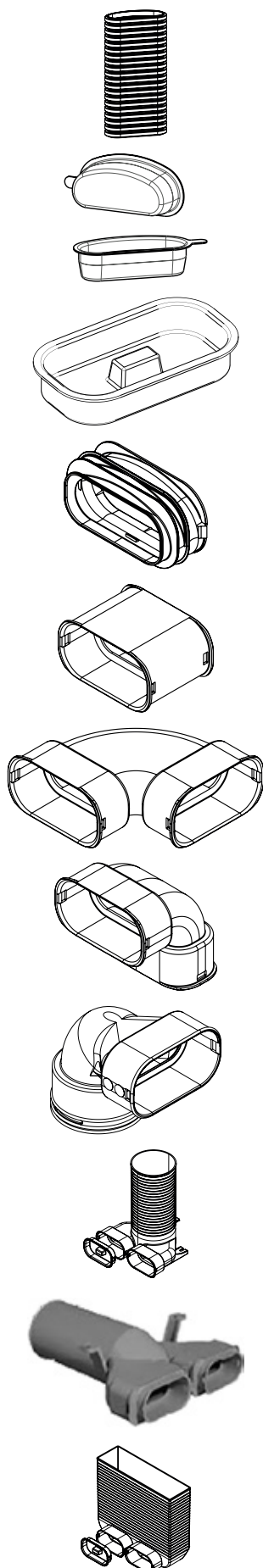


Flexible pipe crossing FRK-90
for flexible pipe DN 90
for crossing two flexible pipes DN 90
with reduced construction height
(100 mm).
For one crossing 2 pieces are necessary.

6031 012

Cable ties can be found under
“Flexible pipe DN 75”.

Flat channel system DN 100


Flat channel 100

Flexible ventilation pipe 102 x 49 mm
Roll length 50 m

Stopper flat channel 100

for flat channel 100
Sealing plug for building protection

Stopper flat 100

for flat channel system 100

Seal flat 100

for flat channel 100

Sleeve 100

for flat channel 100

Arch horizontal flat 100

for flat channel 100

Arch vertical flat 100

for flat channel 100

Arch vertical flat to round 100-75

Transition 90° round to flat

Outlet round, lateral 90° 125-2 x 100

for flat channel 100
incl. mounting bracket, 1 stopper 100
for poppet valve DN 125
supply air 40 m³/h
extract air 50 m³/h

Outlet round, front 125-2 x 100

for flat channel 100
incl. mounting bracket, 1 stopper 100
for poppet valve DN 125
supply air 40 m³/h
extract air 50 m³/h

Floor exhaust flat 2 x 100

for floor grille inox and white
309 x 86.5 mm interior
incl. 1 stopper 100
2 flat channel 100 connections

Part No.

2071 003

2072 404

2071 004

2071 005

2071 006

2071 007

2071 008

2071 009

2071 010

2071 011

2071 012

Flat channel system DN 140



Flat channel 140
Flexible ventilation pipe 142 x 49 mm
Roll length 20 m

2071 013



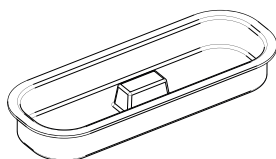
Stopper flat channel 140
for flat channel 140
Sealing plug for building protection

2072 406



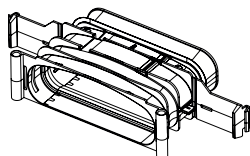
Stopper flat 140
for flat channel system 140

2071 014



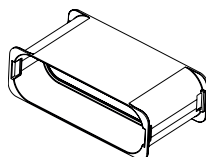
Seal flat 140
for flat channel 140

2071 015



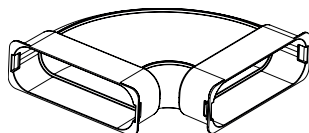
Sleeve 140
for flat channel 140

2071 016



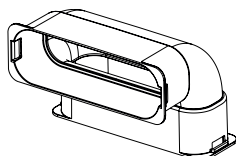
Arch horizontal flat 140
for flat channel 140

2071 017



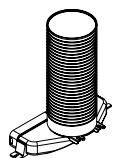
Arch vertical flat 140
for flat channel 140

2071 018



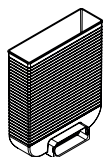
Outlet round, lateral 90° 125-2 x 140
for flat channel 140
incl. mounting bracket, 1 stopper 140
for poppet valve DN 125
supply air 40 m³/h
extract air 50 m³/h

2071 019



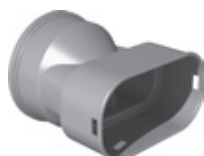
Floor exhaust flat 1 x 140
for floor grille inox and white
309 x 85 mm inside
1 connection flat channel 140

2071 020

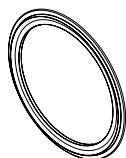


Adapter flat to round 140-90,
made of plastic

2071 001

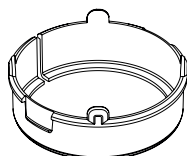


Part No.


Sealing ring for flexible pipe DN 90

in connection with click ring 90, for
connection of flexible pipe FR-90
to adapter flat to round 140-90

2070 998


Click ring DN 90

for adapter flat to round 140-90
and flexible pipe FR-90

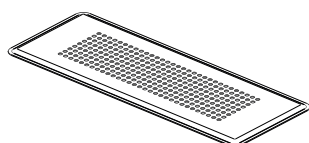
2071 000


Flat channel intersection 140-90

Consisting of:
1 metre flat channel 140
2 adapters flat to round 140-90
2 seals 140
2 click rings DN 90
2 seals 90

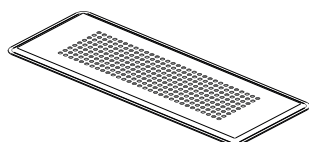
2071 002

System accessories


Floor grille Inox

for floor exhaust flat 2 x 100
and 1 x 140
Dimensions: 350 x 130 mm

2070 930


Floor grill, white

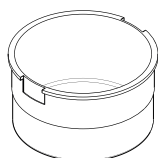
for floor exhaust flat 2 x 100
and 1 x 140
Dimensions: 350 x 130 mm

2070 931


Outlet round 90° lateral 125-2 x 75

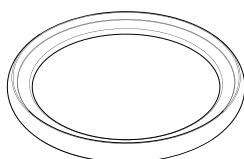
made of plastic 2 x 75/125 mm
Usable length 325 mm
incl. 1 stopper 75

2070 997


Stopper 75

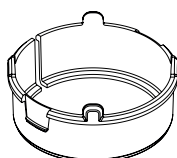
Sealing plug for sealing
unnecessary connections to
round outlet 90° side 125-2 x 75

2070 932


Sealing ring DI-75 black

for flexible pipe DN 75

2016 227

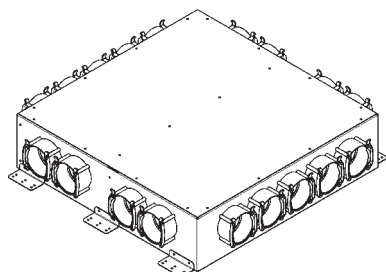

Click ring DN 75

for outlet round 90° side 125-2 x 75
and vertical bend flat to round 100-75
Flexible pipe FR-75

2070 996

Distribution cases DN 160

Part No.



Application:
Preferably concrete installation
(mass concrete)

Distribution box VTB-160 9 x 75

Air distribution box from aluzinc sheet with access panel (can be painted on site). Interior lined with sound insulating material.

Connection nozzle:

2 x DN 160 (downward)

ZUL 9 x 75 resp. ABL 9 x 75

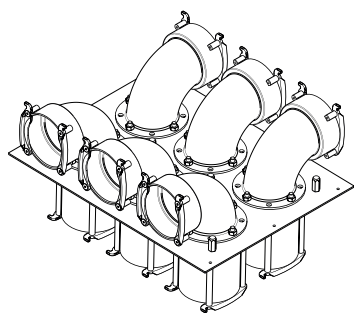
Consisting of:

Box, 6 connection brackets,

2 end caps, orifices for

setting the air quantity per flex pipe DN 75.

6054 083



Section distributor SV-6 x 75

for flexible pipe DN 75

for space-saving routing of

6 flexible pipes in the ceiling.

Optionally 6 x 90° bends, of which

max. 3 can be replaced by

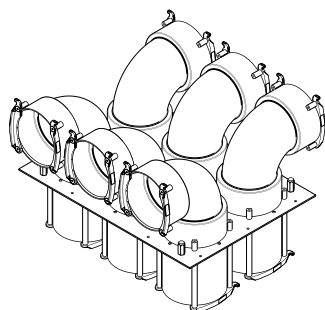
straight nozzles.

Each 90° bend can be rotated in

increments of 45°. 6 x DN 75

For supply and extract air one section distributor each is necessary.

6042 706



Section distributor SV-6 x 90

for flexible pipes DN 90

for space-saving routing of

6 flexible pipes in the ceiling.

Optionally 6 x 90° bends, of which

max. 3 can be replaced by

straight nozzles.

Each 90° bend can be rotated in

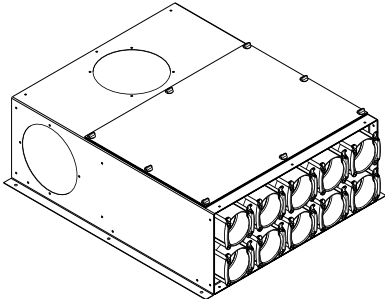
increments of 45°. 6 x DN 90.

For supply and extract air one section distributor each is necessary

6044 775

Distribution cases DN 160

Part No.



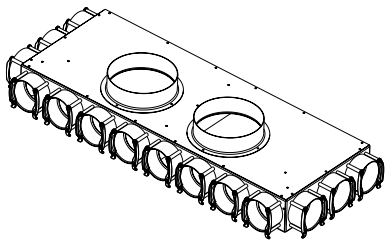
Application:
On-wall installation

Distribution case VK

Casing of aluzinc sheet with 1 connection nozzle Ø 160 mm (included separately), can be mounted on the front, at the top or laterally on the left or on the right (on site) and x connection nozzles for flexible pipe Ø 75 mm. With internal silencer and access panel.
Incl. throttle orifices

Type	Connections
VK-160 75 x 6	6
VK-160 75 x 8	8
VK-160 75 x 10	10

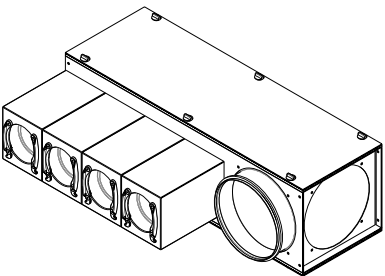
6054 084
6054 085
6054 086



Distribution box VTB-160 14 x 75

for concrete installation height 91 mm
Distribution box of aluzinc sheet without access panel.
Connecting sleeve:
2 x DN 160 supply and extract air
ZUL 7 x DN 75
(4 x front and 3 x side)
ABL 7 x DN 75
(4 x front and 3 x side)

6052 044

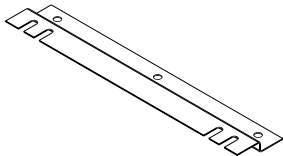


Storey distributor GVT-X

for connecting x flexible tubes Ø 75 mm.
Casing of galvanised sheet steel with sound absorbing mat, connection possibilities Ø 160 mm, incl. 2 nozzles Ø 160 mm with double lip seal. Flexible installation possible due to access panel on both sides.
Incl. throttle orifices

Type	Connection
GVT-3	3
GVT-4	4
GVT-5	5
GVT-6	6

6054 087
6054 088
6054 089
6054 090



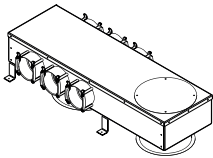
Mounting holder MH

for storey distributor GVT-X
from galvanised steel sheet
Length: 0.3 m
Two angle rails recommended per storey distributor.

5032 853

Distribution cases DN 160

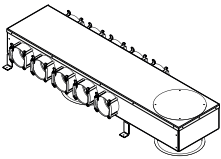
Part No.



Application:
 Preferably concrete installation
 (mass concrete)

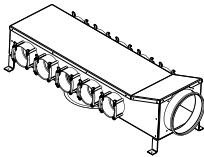
In-wall distribution case UPVK-160 75 x 6
 Distribution case made of aluzinc sheet metal for cementing in. With a sliding connection piece DN 160 and 2 x 3 connections DN 75 (side), incl. 2 end covers, inner lining of sound insulating material, inspection sliding connection piece DN 180
 Incl. throttle orifices

6051 581



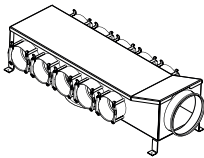
In-wall distribution case UPVK-160 75 x 10
 Distribution case made of aluzinc sheet metal for cementing in. With a sliding connection piece DN 160 and 2 x 5 connections DN 75 (side), incl. 4 end covers, inner lining of sound insulating material, inspection sliding connection piece DN 180
 Incl. throttle orifices

6051 589



In-wall distribution case UPVKS-160 75 x 10
 Distribution case made of aluzinc sheet metal for cementing in. With a connection nozzle DN 160 (end face) and 2 x 5 connections DN 75 (side) incl. 5 end covers, inner lining of sound insulating material, inspection sliding connection piece DN 180
 Incl. throttle orifices

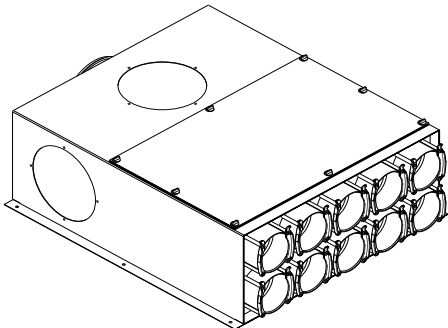
6051 671



In-wall distribution case UPVKS-160 90 x 10
 Distribution case made of aluzinc sheet metal for cementing in. With a connection nozzle DN 160 (end face) and 2 x 5 connections DN 90 (side) incl. 4 end covers, inner lining of sound insulating material, inspection sliding connection piece DN 180
 Incl. throttle orifices

6051 626

Distribution cases DN 180



Application:
On-wall installation

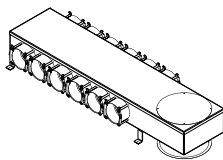
Distribution case VK
Casing of aluzinc sheet with 1 connection nozzle Ø 180 mm (supplied loose), on end, top or left-side mounting (on site) and x connection nozzles for flex pipes Ø 75 resp. 90 mm. An internal sound insulation element with washable outer skin and an access panel.
Incl. throttle orifices

Type	Connections
VK-180 75 x 8	8
VK-180 75 x 10	10
VK-180 75 x 12	12
VK-180 90 x 8	8
VK-180 90 x 10	10
VK-180 90 x 12	12

Part No.

6031 881
6035 673
6035 674
6031 880
6035 675
6035 711

Distribution cases DN 200



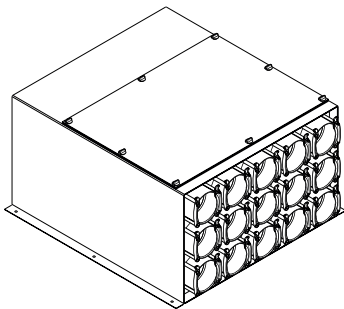
Access panel on bottom

Application:
Preferably concrete installation
(mass concrete)

In-wall distribution case UPVK-200 90 x 12
Distribution case made of aluzinc sheet metal for cementing in. With a sliding connection piece DN 200 and 2 x 6 connections DN 90 (side), incl. 6 end covers, inner lining of sound insulating material, inspection sliding connection piece DN 180
Incl. throttle orifices

6051 623

Application:
On-wall installation



Distribution case VK-200 75 x 15
Air distribution case of aluzinc sheet with access panel.
Inside with sound insulation element.
Connection nozzles:
1 x DN 200 (on the back)
15 x (3 x 5) DN 75 (on the front)
Incl. throttle orifices

6030 966

Distribution case accessories



Control damper RK-80
 for flexible pipe DN 75
 sealing control damper
 for adjustment of the air flow.
 Of galvanised sheet steel
 DN 80

6013 654



Air flow rate control valve DN 90
 for connection housing AG-90, quick 90,
 floor passage BD-30-90

2070 534



End cover quick 75
 Cover for unused connections
 DN 75

5043 525

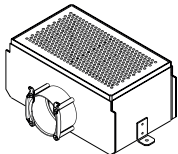


End cover quick 90
 Cover for unused connections
 DN 90

5043 522

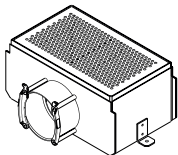
Air grilles – floor

Application:
 In the floor structure (finished floor, only
 supply air)



Floor grille BD-30-75
 perforated grille made from stainless
 steel in an adjustable casing
 Inner component of stainless
 steel
 Outer component of aluzinc sheet with
 2 fastening catches and one connection
 nozzle for flexible pipe DN 75
 Supply air up to 30 m³/h
 Height: 130 to 180 mm

6015 304

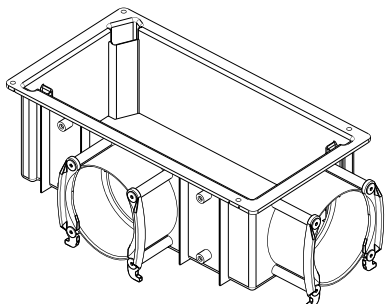


Floor grille BD-30-90
 perforated grille made from stainless
 steel in an adjustable casing.
 Inner component of stainless
 steel,
 outer component of Al/Zn sheet with
 2 fastening catches and one connection
 nozzle for flexible pipe DN 90
 Supply air up to 40 m³/h
 Height: 130 to 180 mm

6022 513

Air grilles – wall/ceiling

Part No.



Application:

Mass concrete, masonry walls and light-weight walls

Connection housing AG-60

for supply and extract air in combination with design grilles. Casing allows precise grille alignment (swivelling) after mounting.

Plastic casing with 2 connection nozzles DN 75, fastening bracket, end cover, sound insulating mat and insert block as building protection cover and plastering aid.

Supply air:

1 x DN 75 up to 30 m³/h

2 x DN 75 up to 40 m³/h

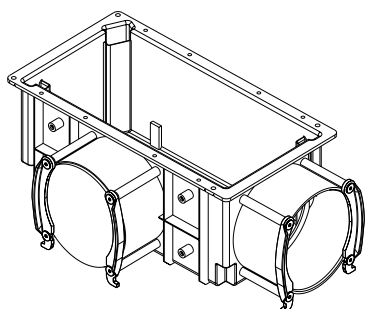
Exhaust air:

1 x DN 75 up to 30 m³/h

2 x DN 75 up to 60 m³/h

For installation in solid concrete, masonry and plasterboard walls.

6034 355



Connection housing AG-90

for supply and extract air in combination with design grilles. Casing allows precise grille alignment (swivelling) after mounting.

Plastic casing with 2 connection nozzles DN 90, fastening bracket, end cover, sound insulating mat and insert block as building protection cover and plastering aid.

Supply air:

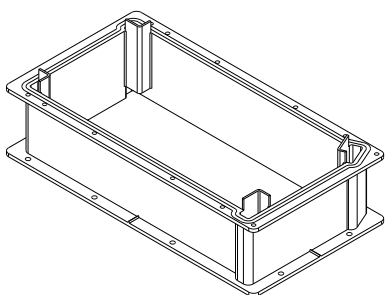
1 x DN 90 up to 40 m³/h

Exhaust air:

1 x DN 90 up to 60 m³/h

For installation in solid concrete, masonry and plasterboard walls.

6034 357



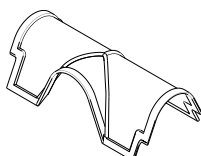
Extension VAG-60/90

for connection housing AG-60 and AG-90 for raising above the lower reinforcement for solid concrete ceilings.

Raising height: 60 mm

Extension permits precise grille alignment after installation.

6034 360

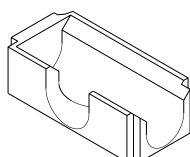


Extract air filter AGF-60/90

for connection housing AG-60 and AG-90 of cleanable, fine-mesh polyamide net with plastic frame.

Cannot be combined with sound insulation insert.

5033 121



Sound insulation insert 60/90

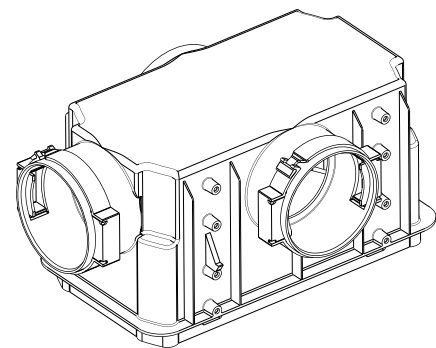
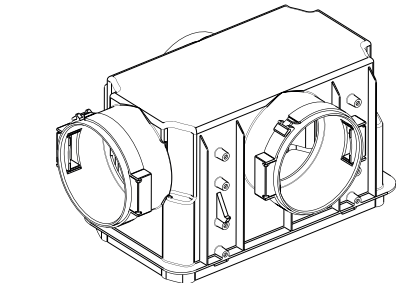
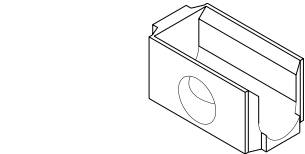
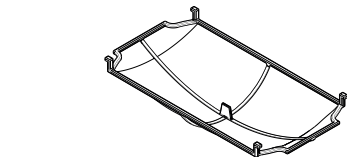
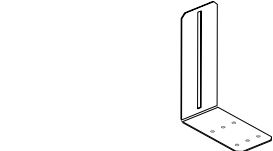
for connection housing AG-60 and AG-90 retrofittable sound insulation insert for acoustically sensitive rooms.

Cannot be combined with extract air filter AGF-60/90.

6034 398

Air grilles – wall/ceiling

Part No.

	Application: Mass concrete, filigree blankets Connection housing quick 75 for supply and extract air in combination with design grilles. Housing allows precise alignment of grilles after mounting. Plastic housing with 2 connection nozzles DN 75. Very easy to mount, no nails in concrete after stripping. Supply air: 1 x DN 75 up to 30 m³/h 2 x DN 75 up to 40 m³/h Extract air: 1 x DN 75 up to 30 m³/h 2 x DN 75 up to 60 m³/h Suitable for installation in solid concrete
	Connection housing quick 90 for supply and extract air in combination with design grilles. Housing allows precise alignment of grilles after mounting. Plastic housing with 2 connection nozzles DN 90. Very easy to mount, no nails in concrete after stripping. Supply air: 1 x DN 90 up to 40 m³/h Extract air: 1 x DN 90 up to 60 m³/h Suitable for installation in solid concrete
	Sound insulation insert quick for connection housing quick retrofittable sound insulation insert for acoustically sensitive rooms. Not combinable with extract airfilter quick
	Extract air filter quick for connection housing quick of cleanable, fine-mesh polyamide net with plastic frame. Cannot combine w/sound insulation insert
	Mounting set quick Mounting help for connection housing quick with 4 mounting brackets and 8 screws

6046 302

6046 296

6047 831

5045 011

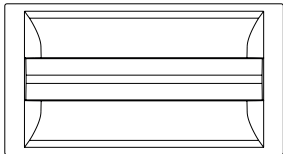
6048 808

Air grilles – wall/ceiling

Part No.

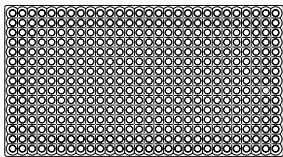
Plastic supply air/extract air grille

The alignment of the grilles can be slightly corrected after installation.



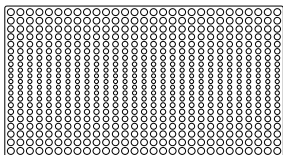
Design grille Pazifik
for connection housing AG-60, AG-90 and quick 75/90
made of plastic, with plug connection, white (RAL 9016) stove-enamelled,
Suited for:
supply air up to 40 m³/h
extract air up to 60 m³/h

6046 743



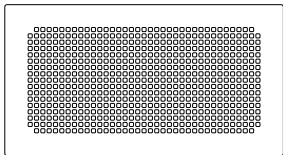
Design grille Adria
for connection housing AG-60, AG-90 and quick 75/90
made of plastic, with plug connection, white (RAL 9016) stove-enamelled,
Suited for:
supply air up to 40 m³/h
extract air up to 60 m³/h

6046 744



Design grille Atlantik
for connection housing AG-60, AG-90 and quick 75/90
made of plastic, with plug connection, white (RAL 9016) stove-enamelled,
Suited for:
supply air up to 40 m³/h
extract air up to 60 m³/h

6046 745



Design grille Karibik
for connection housing AG-60, AG-90 and quick 75/90
made of plastic, with plug connection, white (RAL 9016), painting on site,
Suitable for:
supply air up to 40 m³/h
extract air up to 60 m³/h

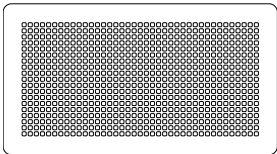
6047 228

Air grilles – wall/ceiling

Part No.

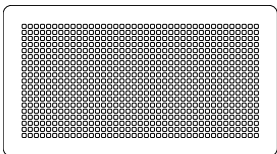
Metal supply air/extract air grille

The alignment of the grilles can be slightly corrected after installation.



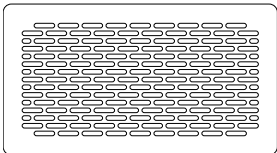
Design grille Pizol
 for connection housing AG-60/90 and quick 75/90
 of brushed stainless steel,
 with plug connection,
 Suited for:
 supply air up to 40 m³/h
 extract air up to 60 m³/h

6046 696



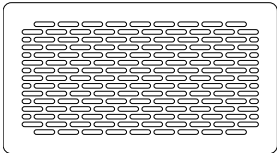
Design grille Pizol
 for connection housing AG-60/90 and quick 75/90
 of sheet steel, with plug connection,
 white (RAL 9016) stove-enamelled,
 Suited for:
 supply air up to 40 m³/h
 extract air up to 60 m³/h

6046 698



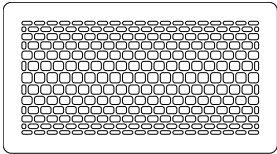
Design grille Alvier
 for connection housing AG-60/90 and quick 75/90
 of brushed stainless steel,
 with plug connection,
 Suited for:
 supply air up to 40 m³/h
 extract air up to 60 m³/h

6046 700



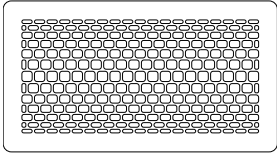
Design grille Alvier
 for connection housing AG-60/90 and quick 75/90
 of sheet steel, with plug connection,
 white (RAL 9016) stove-enamelled,
 Suited for:
 supply air up to 40 m³/h
 extract air up to 60 m³/h

6046 702



Design grille Sântis
 for connection housing AG-60/90 and quick 75/90
 of brushed stainless steel,
 with plug connection,
 Suited for:
 supply air up to 40 m³/h
 extract air up to 60 m³/h

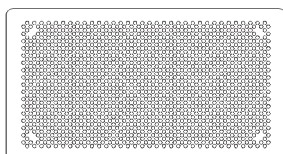
6046 724



Design grille Sântis
 for connection housing AG-60/90 and quick 75/90
 of sheet steel, with plug connection,
 white (RAL 9016) stove-enamelled,
 Suited for:
 supply air up to 40 m³/h
 extract air up to 60 m³/h

6046 726

Air grilles – wall/ceiling

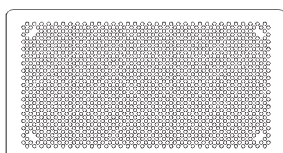

Design grille Pilatus white

for connection housing
AG-60/90 and quick 75/90
Aluminium sheet with flanged edges,
with plug connection, painted white
(RAL 9016)

Suitable for:

- Supply air up to 40 m³/h
- Extract air up to 60 m³/h

6054 365


Design grille Pilatus Alu

for connection housing
AG-60/90 and quick 75/90
Aluminium sheet with flanged edges,
with plug connection, brushed aluminium
anodized

Suitable for:

- Supply air up to 40 m³/h
- Extract air up to 60 m³/h

6054 366


Connection cylinder quick 75 short

for masonry, lightweight
and wood construction
Plastic casing, two connections DN 75
incl. 1 stopper DN 75

Supply air:

- 1 x DN 75 up to 30 m³/h
- 2 x DN 75 up to 40 m³/h

With design grille Tangential 125
only 1 x DN 75

Extract air:

- 1 x DN 75 up to 30 m³/h
- 2 x DN 75 up to 60 m³/h

6050 374


Connection cylinder quick 75 medium

for element ceiling up to 60 mm,
solid concrete
Plastic casing, two connections DN 75
incl. 1 stopper DN 75

Supply air:

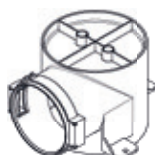
- 1 x DN 75 up to 30 m³/h
- 2 x DN 75 up to 40 m³/h

With design grille Tangential 125
only 1 x DN 75

Extract air:

- 1 x DN 75 up to 30 m³/h
- 2 x DN 75 up to 60 m³/h

6050 375


Connection cylinder quick 90 short

for masonry, lightweight
and wood construction
Plastic casing, with connection DN 90

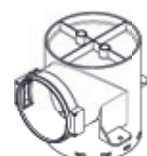
Supply air:

- 1 x DN 90 up to 40 m³/h

Extract air:

- 1 x DN 90 up to 60 m³/h

6050 377


Connection cylinder quick 90 medium

for element ceiling up to 60 mm,
solid concrete
Plastic casing, with connection DN 90

Supply air:

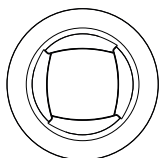
- 1 x DN 90 up to 40 m³/h

Extract air:

- 1 x DN 90 up to 60 m³/h

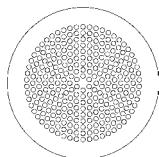
6050 378

Air grilles – wall/ceiling



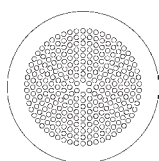
Design grille Tangential 125
suitable for
connection cylinders quick 75 and 90
made of plastic, with plug-in connection
Colour: white RAL 9016,
can be painted on site
Supply air up to 40 m³/h
Extract air up to 50 m³/h

6052 158



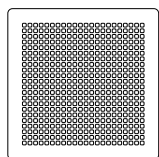
Design grille Falknis painted white
suitable for
connection cylinders quick 75 and 90
Steel, painted white (RAL 9016)
With plug-in connection
Supply air up to 40 m³/h
Extract air up to 50 m³/h

6052 162



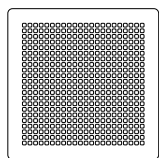
Stainless steel design grille Falknis
suitable for
connection cylinders quick 75 and 90
Brushed stainless steel
With plug-in connection
Supply air up to 40 m³/h
Extract air up to 50 m³/h

6051 847



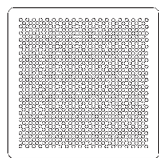
Design grille Calanda painted white
suitable for
connection cylinders quick 75 and 90
Steel, painted white (RAL 9016)
With plug-in connection
Supply air up to 40 m³/h
Extract air up to 50 m³/h

6052 161



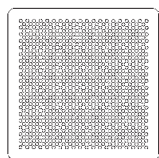
Stainless steel design grille Calanda
suitable for
connection cylinders quick 75 and 90
Brushed stainless steel
With plug-in connection
Supply air up to 40 m³/h
Extract air up to 50 m³/h

6051 849



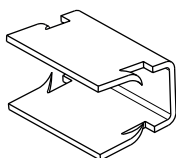
Design grille Rigi white
suitable for
connection cylinder quick 75 and 90
Aluminium sheet with flanged edges
Painted white (RAL 9016)
With plug connection
- Supply air up to 40 m³/h
- Extract air up to 60 m³/h

6054 363



Design grille Rigi aluminium
suitable for
connection cylinder quick 75 and 90
Aluminium sheet with flanged edges
Surface: anodized brushed aluminium
With plug connection
- Supply air up to 40 m³/h
- Extract air up to 60 m³/h

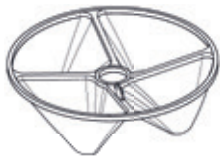
6054 364



Steel brackets set of 10
for outlet round 90° lateral 125
in connection with designer grilles

6056 054

Air grilles – wall/ceiling



Extract air filter 125
 for connection cylinder quick 75 and 90
 of cleanable, fine-mesh polyamide net
 with plastic frame.

5049 629



Disc valve supply air TVZ-125
 for connection cylinder quick 75 and 90
 of sheet steel (white RAL 9016)
 with installation frame DN 125,
 height: 45 mm
 supply air up to 40 m³/h

2056 417

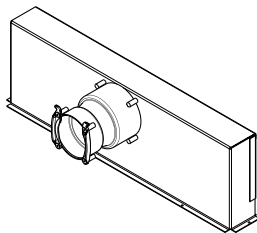


Disc valve extract air TVA-125
 for connection cylinder quick 75 and 90
 of sheet steel (white RAL 9016)
 with installation frame DN 125,
 height: 45 mm
 extract air up to 60 m³/h

2056 416

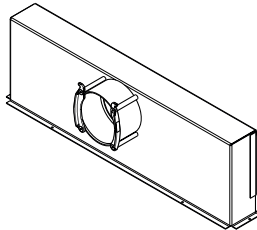
Grilles – supply air/extract air

Application:
Concrete installation (in-situ concrete)



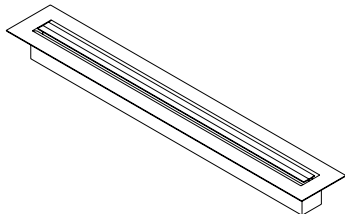
Connection box SD-75
 for encasing in concrete, made of
 galvanised sheet steel
 with 1 nozzle 75 mm
 Air quantity up to 30 m³/h

6022 617



Connection box SD-90
 for encasing in concrete, made of
 galvanised sheet steel
 with 1 nozzle 90 mm
 Air quantity up to 40 m³/h

6022 543



Design slit grille 500 mm
 matching connection box SD-75 and SD-90
 Colour: anodized aluminium
 Supply air: up to 40 m³/h

2037 000

Pipe system DN 160

The pipe system consists of galvanised steel with double lip seal.

Pipe as per DIN 24145; 0.6 mm thick.

Flow rate [m³/h]	[Pa/m] Pipe	Pressure drop [Pa] 90° elbow	[Pa] 45° elbow
150	0.5	1.3	0.8
200	0.8	2.0	1.2
250	1.2	2.5	1.5
350	1.8	5.0	1.8

Pipe system DN 180

The pipe system consists of galvanised steel with double lip seal.

Pipe as per DIN 24145; 0.6 mm thick.

Flow rate [m³/h]	[Pa/m] Pipe	Pressure drop [Pa] 90° elbow	[Pa] 45° elbow
150	0.4	0.8	0.5
250	0.6	2.0	1.0
350	1.0	4.0	2.0

Pipe system DN 200

The pipe system consists of galvanised steel with double lip seal.

Pipe as per DIN 24145; 0.6 mm thick.

Flow rate [m³/h]	[Pa/m] Pipe	Pressure drop [Pa] 90° elbow	[Pa] 45° elbow
150	0.3	0.7	0.5
350	0.7	1.6	1.0
500	1.5	4.0	2.0

Thermal insulation for main duct DN 160

The insulation consists of synthetic rubber (closed-cell EPDM with resistant outside skin), insulation thickness 25 mm, black.

Thermal conductance λ at 0 °C is 0.032 W/mK

Steam diffusion resistance ≥ 7000

Fire class 5.3 or B1



Thermal insulation tube: for spiral-seam tube DN 160 mm, case contains 3 tubes, each with a length of 2 m

Adhesive: ready-to-use adhesive with brush 0.25 l

Adhesive tape: of synthetic rubber, 50 mm wide, 15-meter roll

Thermal insulation for pipe elbow: thermal insulation mat cut to length for pipe elbow (2-part) suitable for DN 160

Notice

Comply with regional regulations on thermal insulation.

Pipe clamp with thermal insulation sleeve: for installation of pipes without thermal bridges

IsiPipe pipe system EPP

Pipeline consists of diffusion-tight EPP

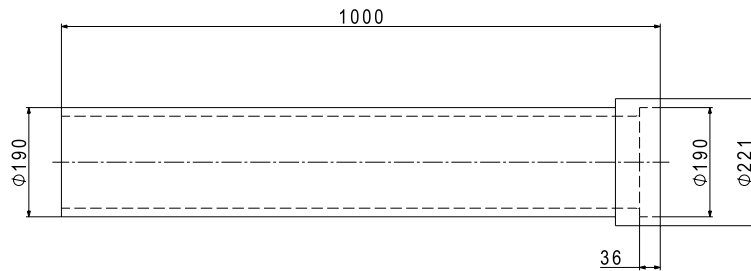
Wall thickness: 15 mm, grey

Thermal conductance: $\lambda = 0.035 \text{ W/mK}$

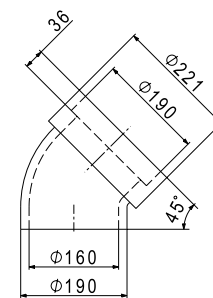
IsiPipe pipe system EPP-160

(Dimensions in mm)

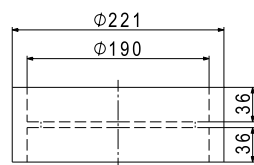
IsiPipe pipeline EPP-160/1000



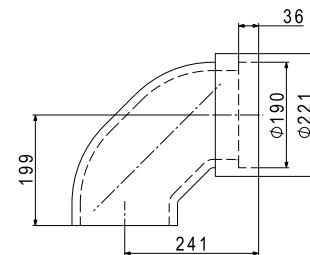
IsiPipe pipe bend EPP-160/45



IsiPipe sleeve EPP-160



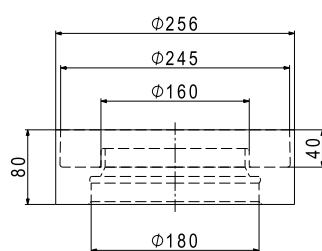
IsiPipe pipe bend EPP-160/90



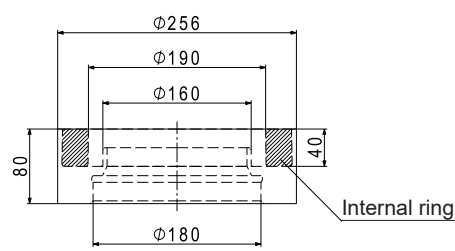
IsiPipe device adapter EPP-160

(Dimensions in mm)

IsiPipe device adapter without inner ring for IsiPipe Plus (43 mm)



IsiPipe device adapter with inner ring for IsiPipe (15 mm)

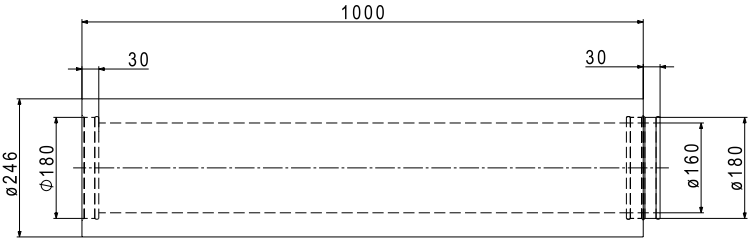


IsiPipe Plus pipe system EPP

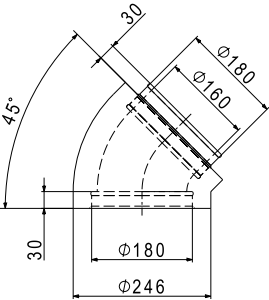
Pipeline consists of diffusion-tight EPP
Wall thickness: 43 mm, black
Thermal conductance: $\lambda = 0.035 \text{ W/mK}$

IsiPipe Plus pipe system EPP-160
(Dimensions in mm)

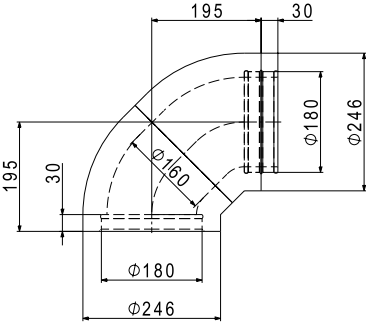
IsiPipe Plus pipeline EPP-160/1000



IsiPipe Plus pipe bend EPP-160

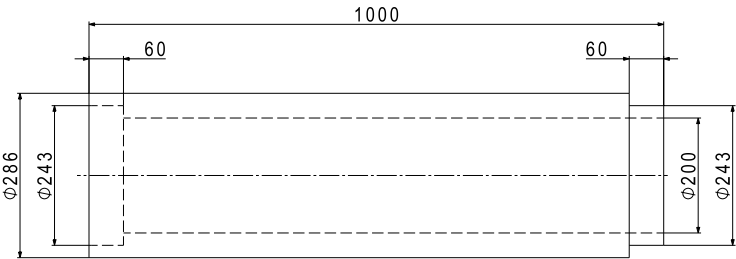


2 IsiPipe Plus pipe bends EPP-160/45

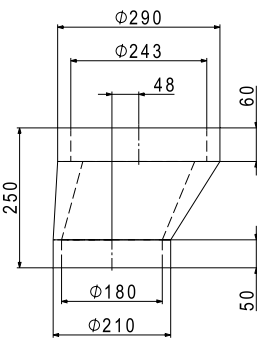


IsiPipe Plus pipe system EPP-200
(Dimensions in mm)

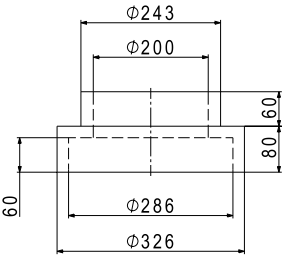
IsiPipe Plus pipeline EPP-200/1000



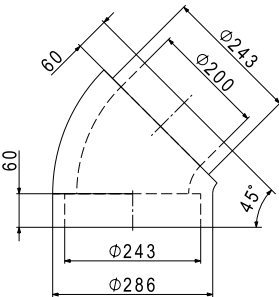
IsiPipe Plus eccentric adapter EPP-180-200



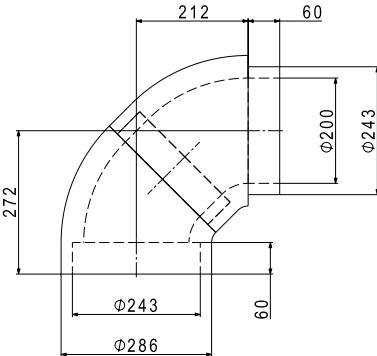
IsiPipe Plus device adapter EPP-200



IsiPipe Plus pipe bend EPP-200/45



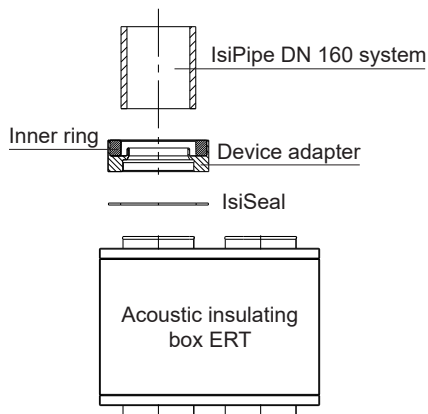
2 IsiPipe Plus pipe bends EPP-200/45



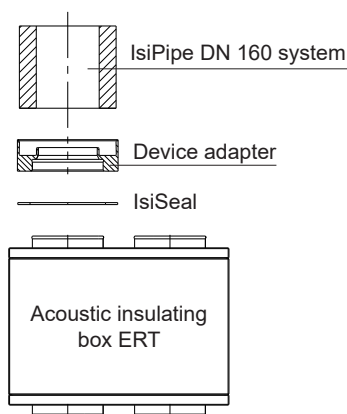
IsiPipe application

Device adapter

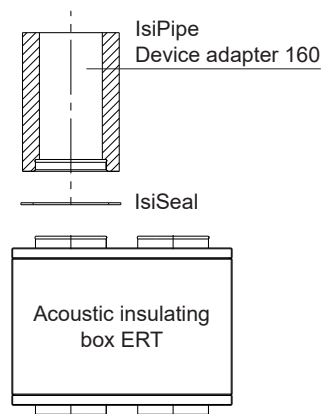
Device adapter with inner ring for connection of IsiPipe DN 160 with wall thickness 15 mm.



Device adapter without inner ring for connecting cut-to-length IsiPipe Plus pipes DN 160 with a wall thickness of 43 mm.

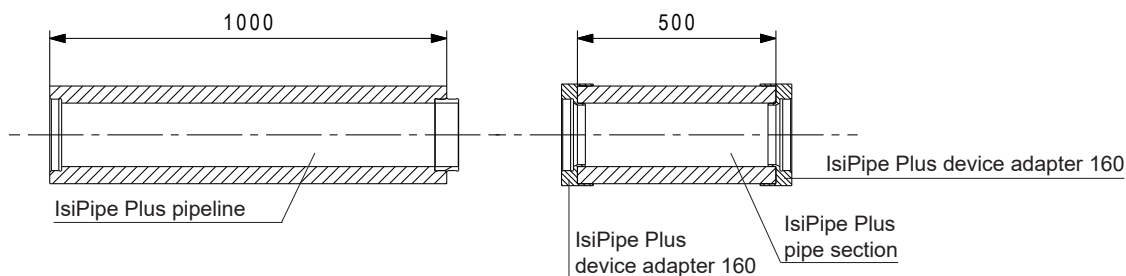


The IsiSeal is glued between the device adapter or IsiPipe to secure and better seal the connection.

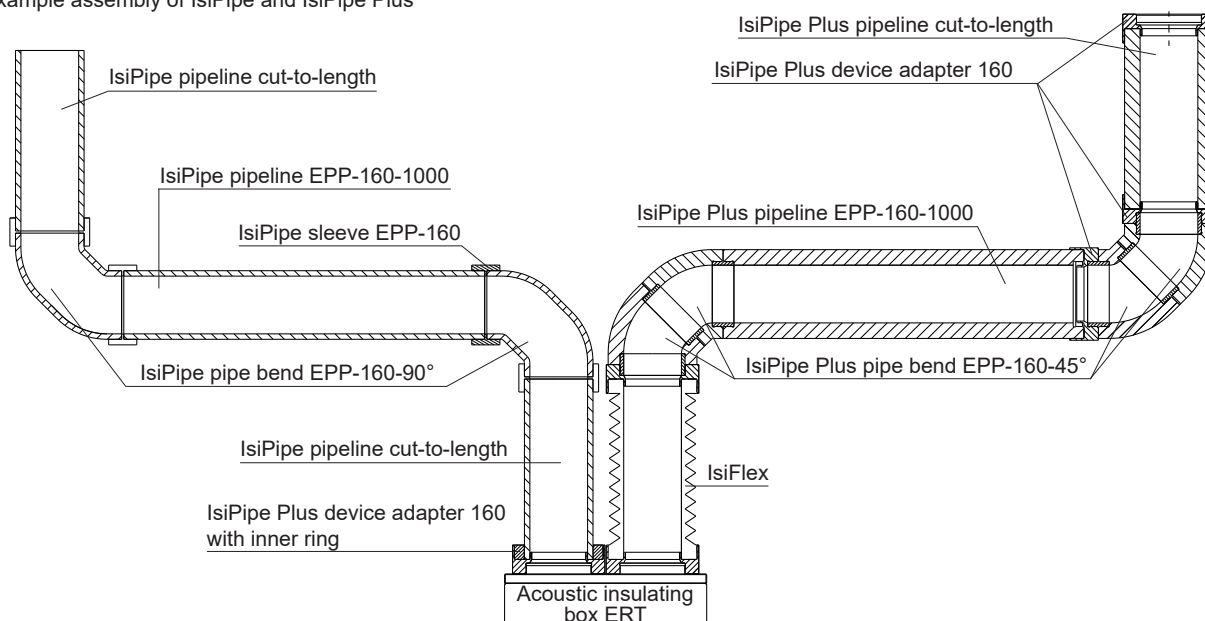


IsiPipe Plus pipeline

Cut-to-length pipes can be connected to the device adapter.

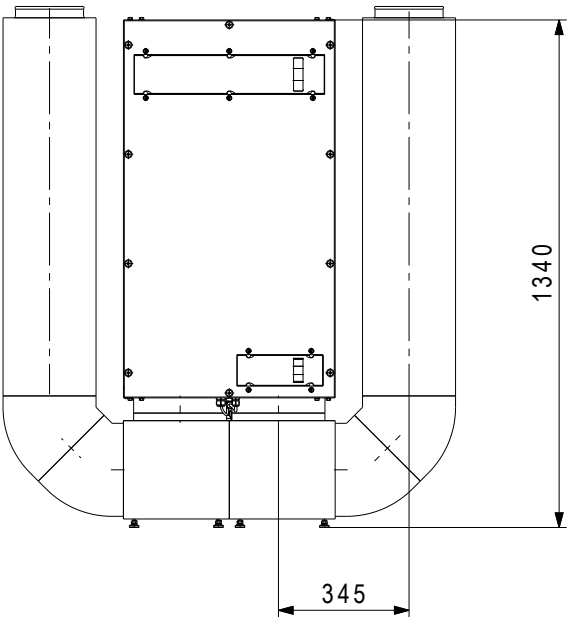


Example assembly of IsiPipe and IsiPipe Plus

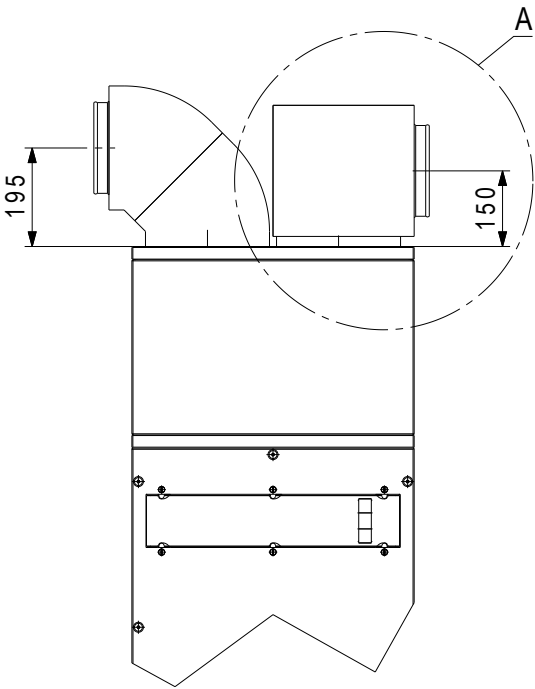


IsiCube application

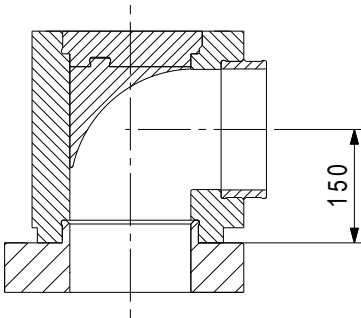
The IsiCube is used as a base for the HomeVent® ER. This allows a more compact design and the Isipipe system can be connected directly to the Cube.



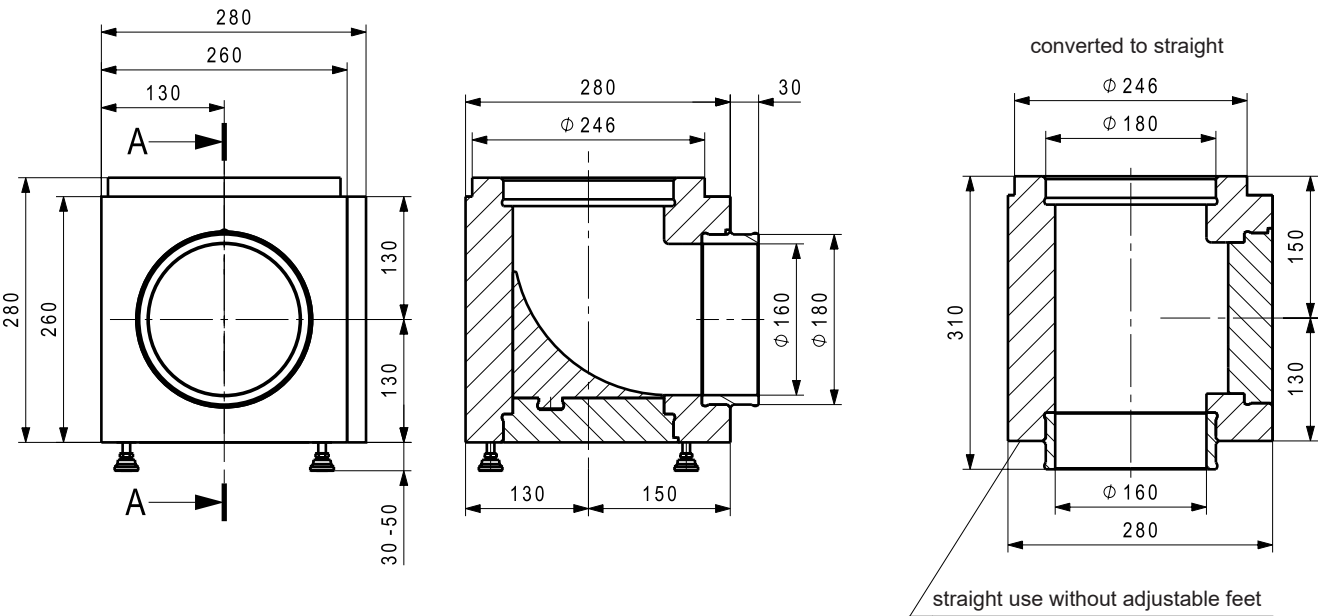
The IsiCube can also be used as a pipe bend to save overall height.



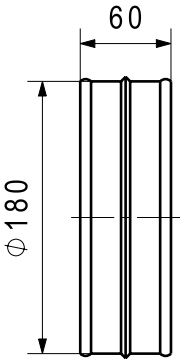
Detail A



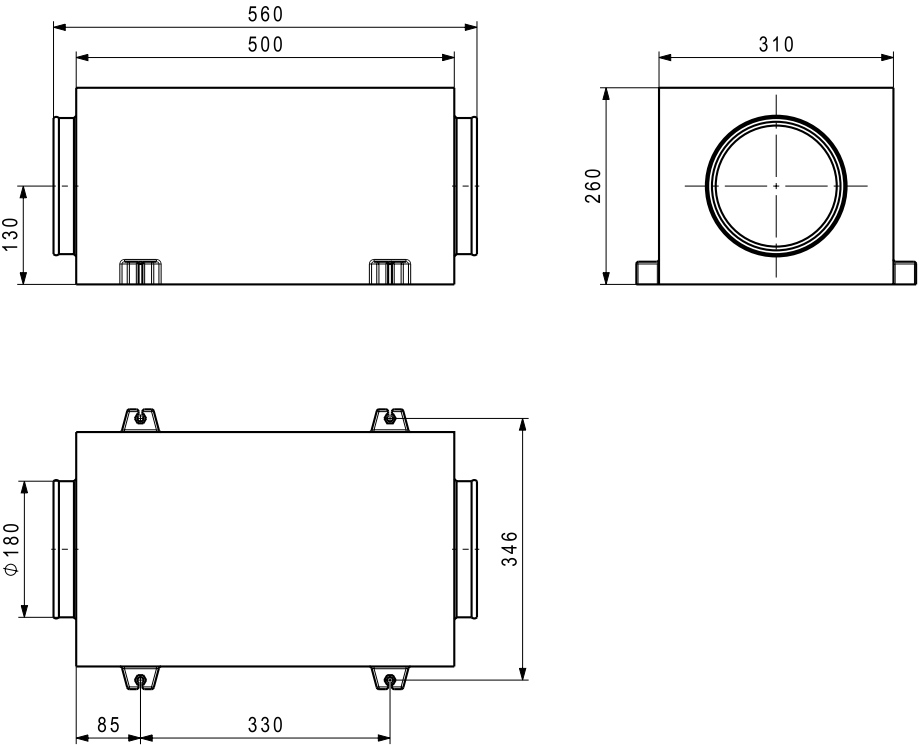
IsiCube
(Dimensions in mm)

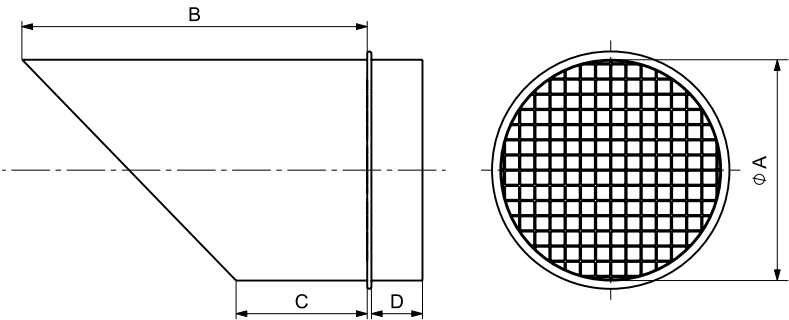


IsiFit



IsiSound

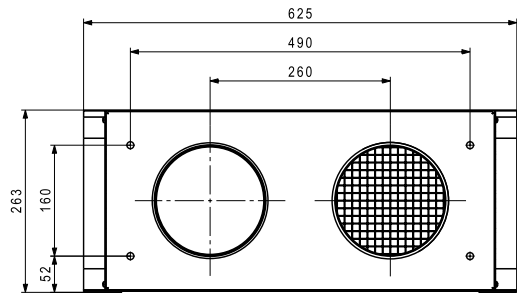




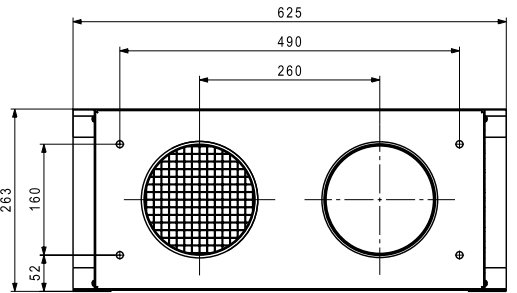
Exhaust air nozzle FST
 for spiral-seam tube DN
 of galvanised sheet steel
 with bird protection grille
 for horizontal installation

	A	B	C	D
FST-160	160	250	95	37
FST-180	180	270	90	45
FST-200	200	245	45	45

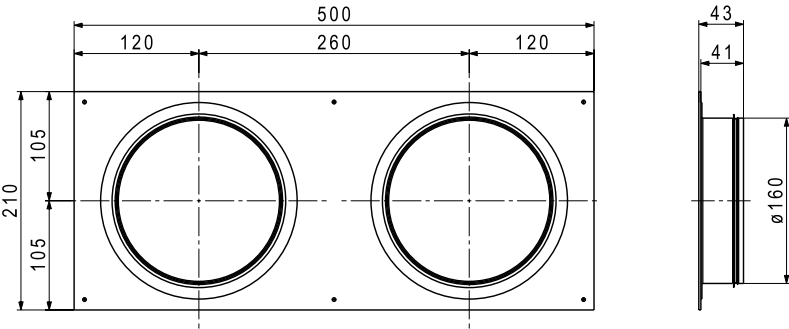
Wall outlet Ø 160 left

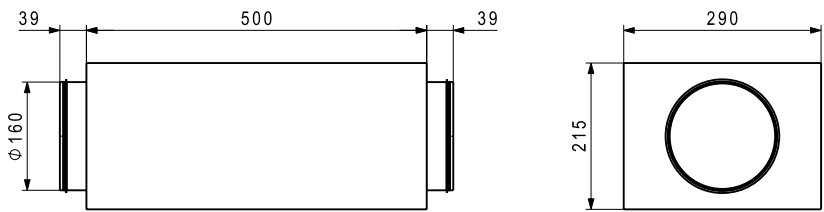


Wall outlet Ø 160 right



Plywood
 for wall outlet, Ø 160

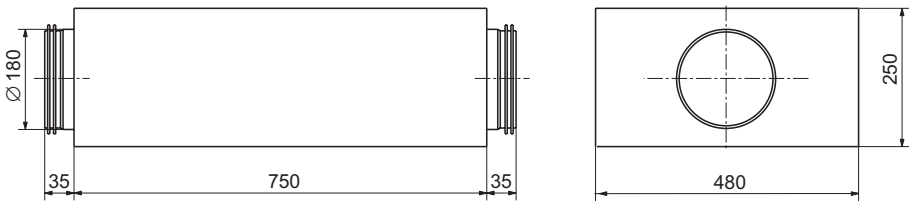




Silencer SD-160-500

The silencer consists of a rectangular casing of galvanised steel with connection nozzles on both sides. The housing is lined on the inside with highly effective sound absorbing material. The unit can be cleaned through the pipe nozzle. When used in fresh air and exhaust air, the silencers must be thermally insulated on site.

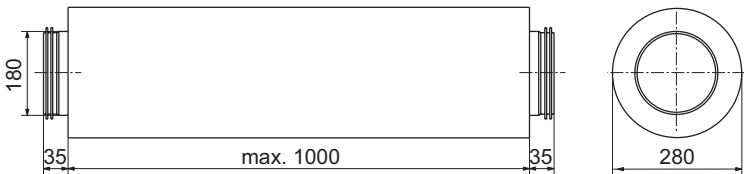
Frequency [Hz]	125	250	500	1000	2000	4000	8000
Simple damping [dB]	6	10	19	23	32	25	16



Silencer FSR-180-750

The silencer consists of a rectangular casing of galvanised steel with connection nozzles on both sides. The housing is lined on the inside with highly effective sound absorbing material. The unit can be cleaned through the pipe nozzle. When used in fresh air and exhaust air, the silencers must be thermally insulated on site.

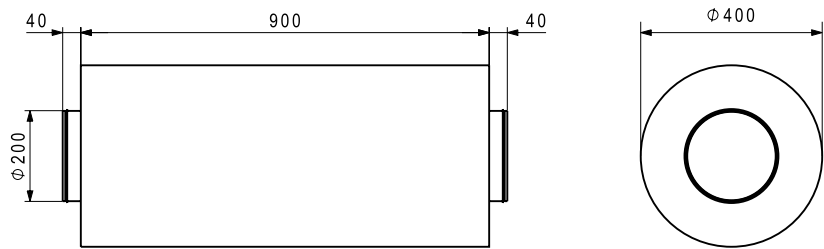
Frequency [Hz]	125	250	500	1000	2000	4000	8000
Simple damping [dB]	6	16	19	19	19	18	5



Silencer FLSDA-180-1000

The silencer consists of a flexible aluminium envelope tube, inside from perforated aluminium tube with connection nozzles on both sides with double lip seal.

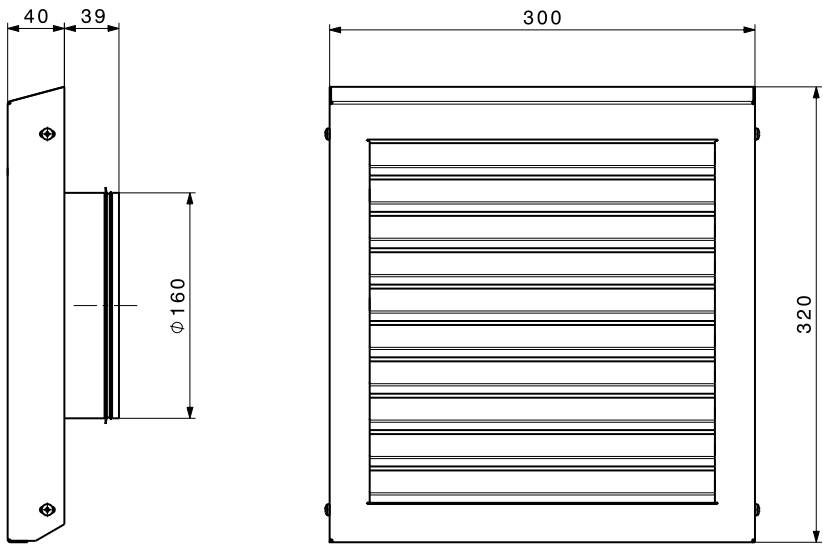
Frequency [Hz]	125	250	500	1000	2000	4000	8000
Simple damping [dB]	5	13	30	42	34	24	13



Silencer SD-200-1000

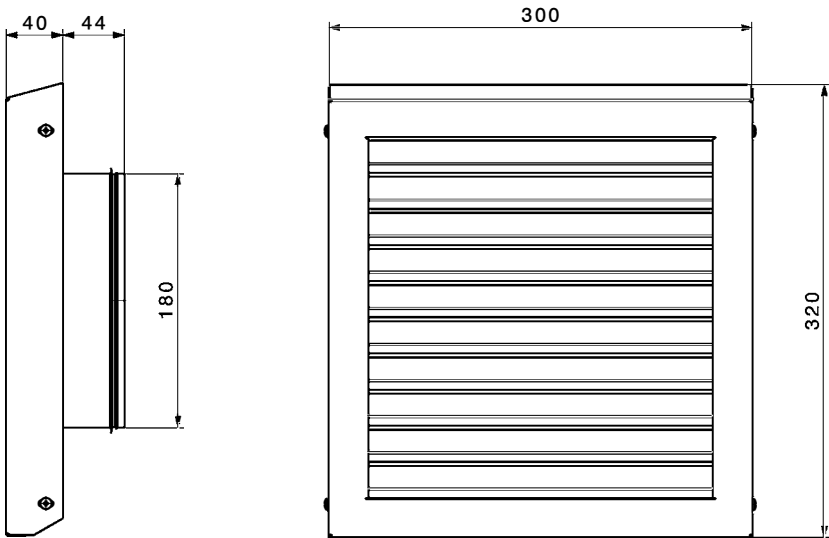
The silencer consists of a round casing of galvanised steel with connection nozzles on both sides. The housing is lined on the inside with highly effective sound absorbing material. The unit can be cleaned through the pipe nozzle.

Frequency [Hz]	125	250	500	1000	2000	4000	8000
Simple damping [dB]	5	15	27	27	20	10	5



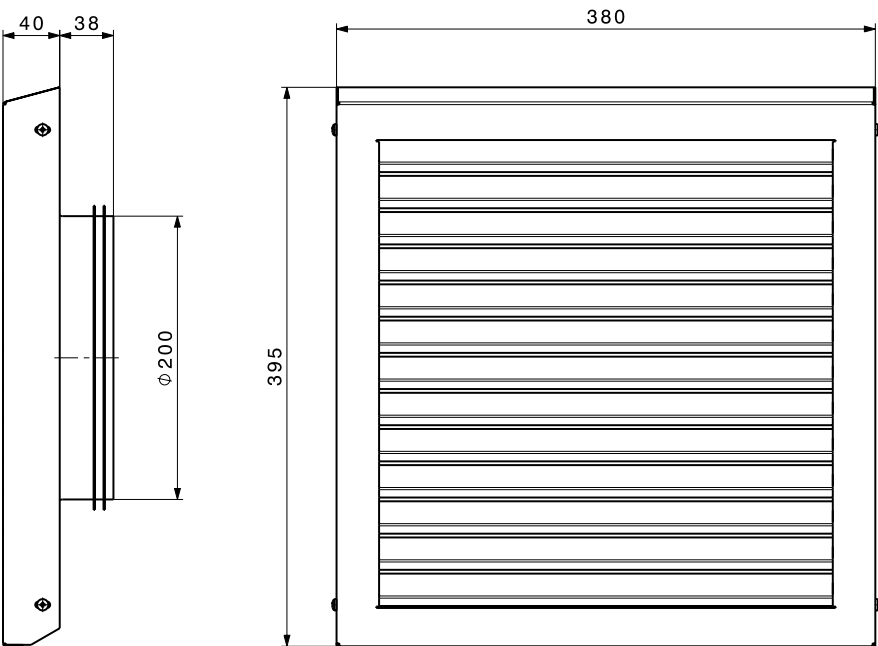
Weatherproof grille WG-160
 for spiral-seam tube DN 160
 for outside and exhaust air
 of aluminium with rain lug,
 can be painted with double lip seal,
 pipe nozzle DN 160

Flow rate [m³/h]	Pressure drop Outside air [Pa]	Pressure drop Exhaust air [Pa]
250	6	7
450	10	18



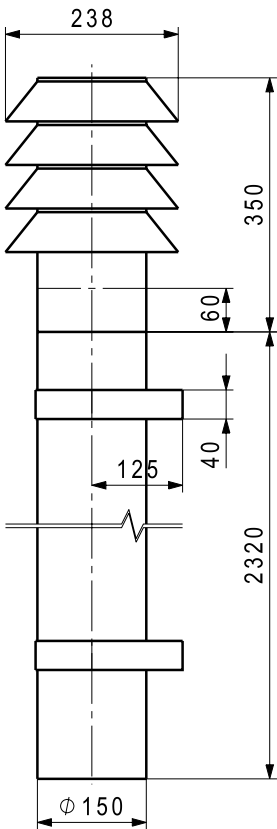
Weatherproof grille WG-180
 for spiral-seam tube DN 180
 for outside and exhaust air
 of aluminium with rain lug,
 can be painted with double lip seal,
 pipe nozzle DN 180

Flow rate [m³/h]	Pressure drop Outside air [Pa]	Pressure drop Exhaust air [Pa]
250	5	6
450	9	17



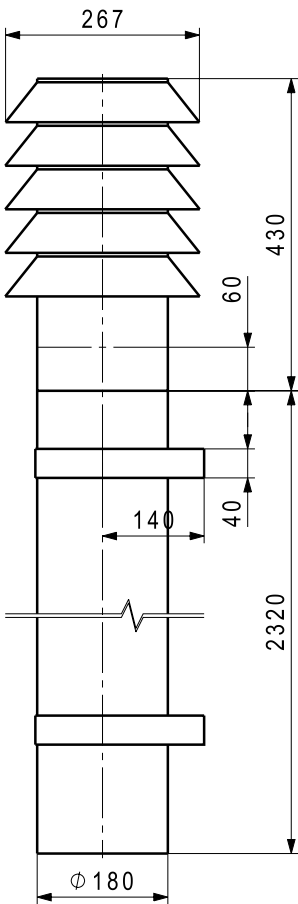
Weatherproof grille WG-200
 for spiral-seam tube DN 200
 for outside and exhaust air
 of aluminium with rain lug,
 can be painted with double lip seal,
 pipe nozzle DN 200

Flow rate [m³/h]	Pressure drop Outside air [Pa]	Pressure drop Exhaust air [Pa]
250	4	5
450	8	16

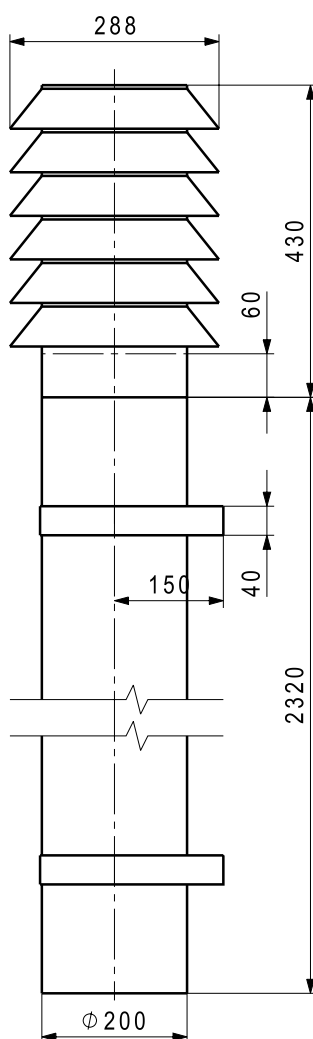


Outside air intake set AAS-150
for spiral-seam tube DN 150
galvanic isolation of the connection
for outside and exhaust air
of stainless steel, lamella cowl,
consisting of:
1 cowl DN 150,
1 pipe DN 150, length: 0.5 m,
2 pipes DN 150, length: 1 m and
2 wall mountings

Flow rate [m³/h]	Pressure drop of cowl [Pa]
100	3
150	5
200	8
250	12



Stainless steel cowl AAS-180
for spiral-seam tube DN 180
galvanic isolation of the connection
for outside and exhaust air
of stainless steel, lamella cowl,
consisting of:
1 cowl DN 180,
1 pipe DN 180, length: 0.5 m,
2 pipes DN 180, length: 1 m and
2 wall mountings



Stainless steel cowl AAS-200
for spiral-seam tube DN 200
galvanic isolation of the connection
for outside and exhaust air
of stainless steel, lamella cowl,
consisting of:
1 cowl DN 200,
1 pipe DN 200, length: 0.5 m,
2 pipes DN 200, length: 1 m and
2 wall mountings

Pipe system distribution duct DN 75 and DN 90

The distribution duct is a flexible pipe of polyethylene PE-HD with a smooth inside wall, ribbed on the outside.

Antistatic coating

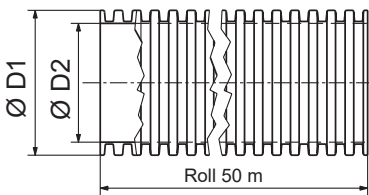
Weight 0.33 kg/m

Application limit:

Air and ambient temperature -15 ... 60 °C

Pipe system	Flow rate [m³/h]	Pressure drop straight pipe [Pa/m]	Press loss pipe elbow 90° (r = 2D) [Pa]
DN 75	10	0.3	0.1
DN 75	20	1.1	0.4
DN 75	30	2.5	1.0
DN 90	20	0.6	0.2
DN 90	30	1.2	0.4
DN 90	40	2.2	0.8

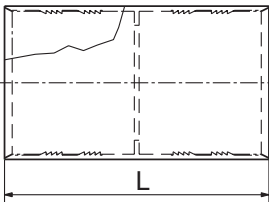
Flexible pipe FR



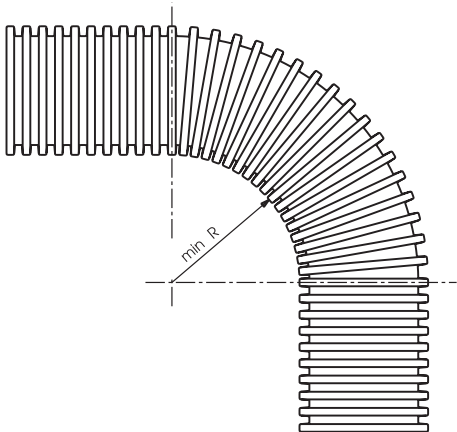
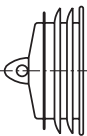
Sealing ring DI



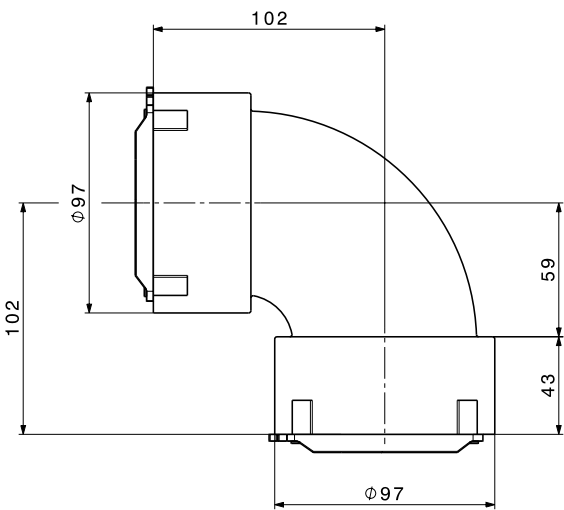
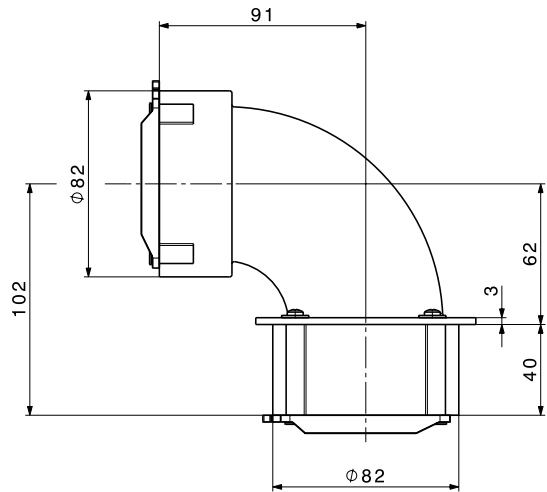
Double sleeve DM

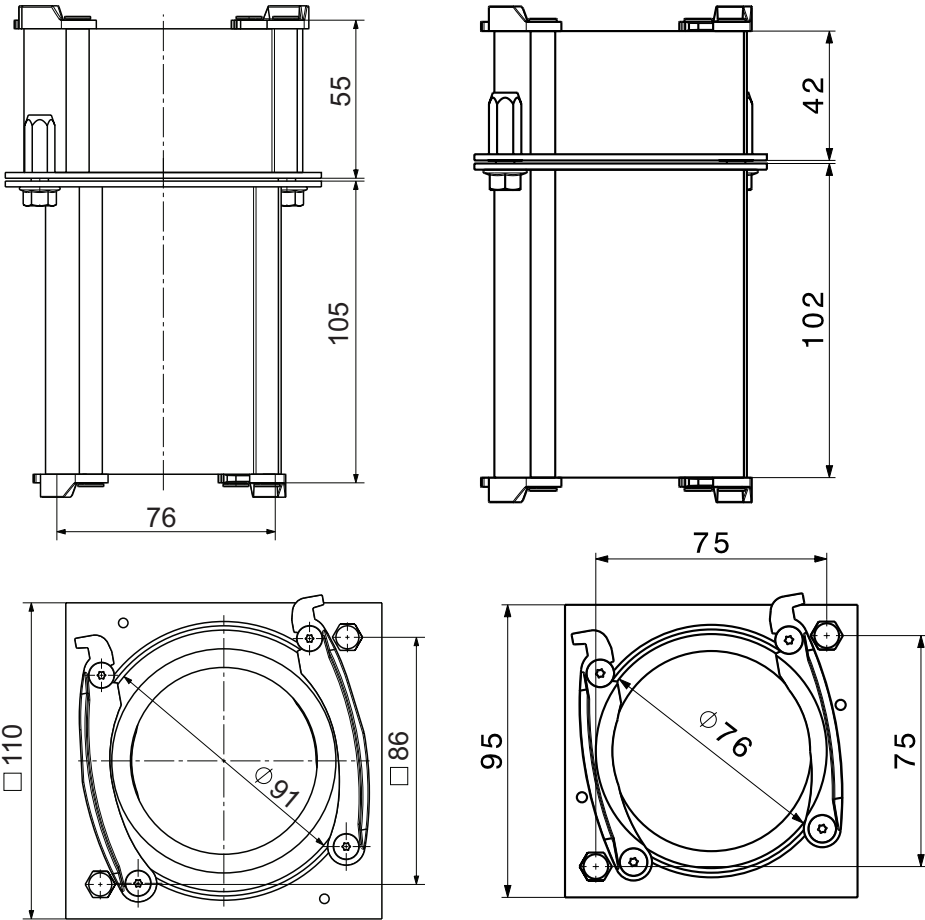


Stopper ST

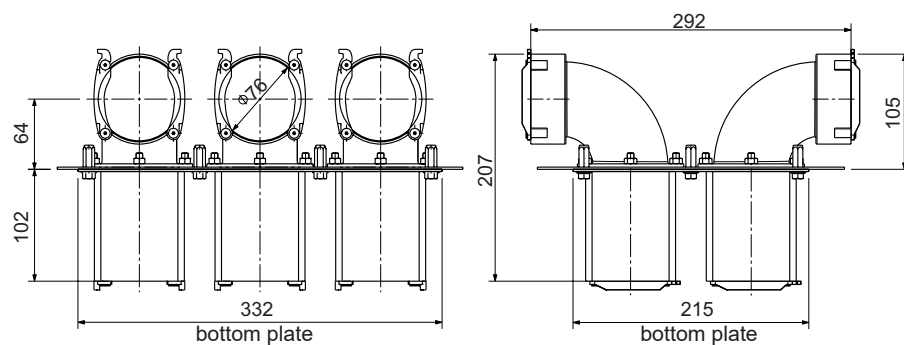


Pipe system	D1 [mm]	D2 [mm]	L [mm]	R [mm]
DN 75	75	62	100	150
DN 90	90	76	100	150





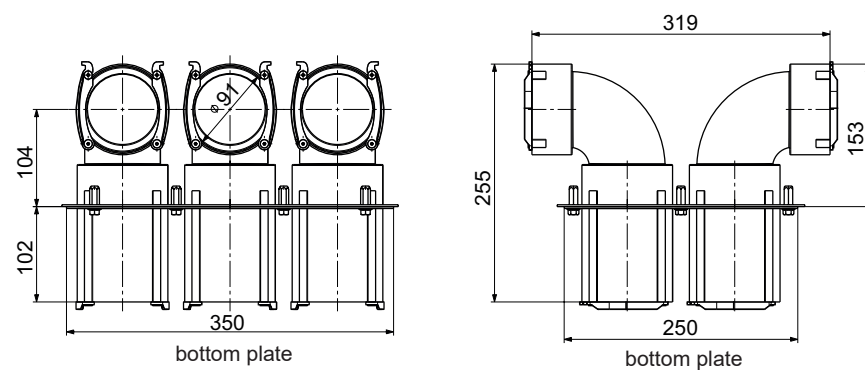
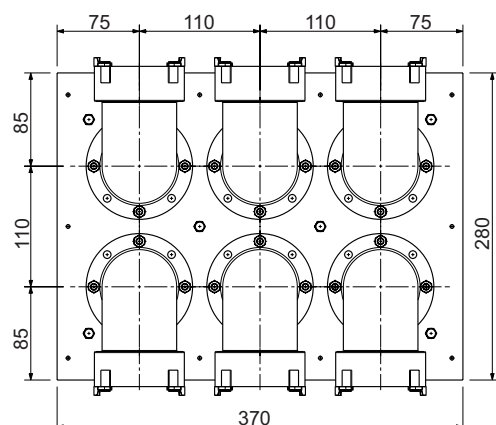
Formwork coupling SK-75/90
for flexible pipe DN 75 and 90 for extending
a flexible pipe through the ceiling or the floor
and extension from DN 75 to DN 90 without
damaging the boarding.



Section distributor SV-6 x 75

For quick, space-saving installation of flexible pipes FR-75 in ceilings/floors and walls. Each 90° connection can be rotated in increments of 45°.

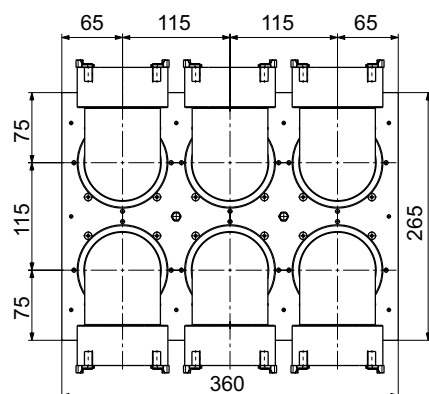
After completion of the building shell, the lower distributor plate is fitted and the flexible pipes FR-75 are simply connected up. The inside of the 90° nozzles is rounded to allow easy cleaning of the ducts.

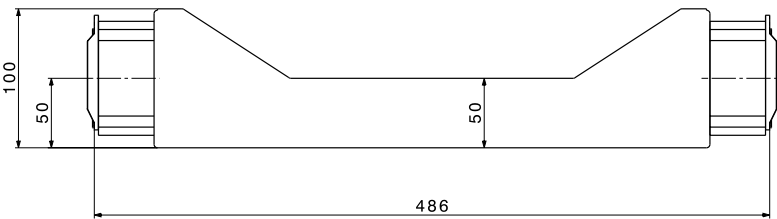


Section distributor SV-6 x 90

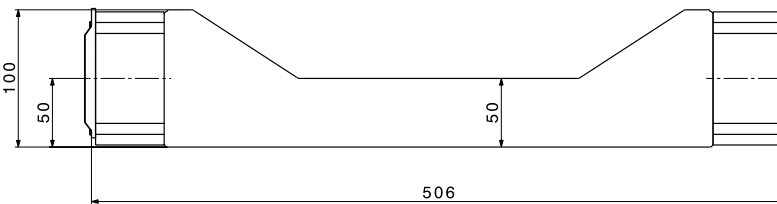
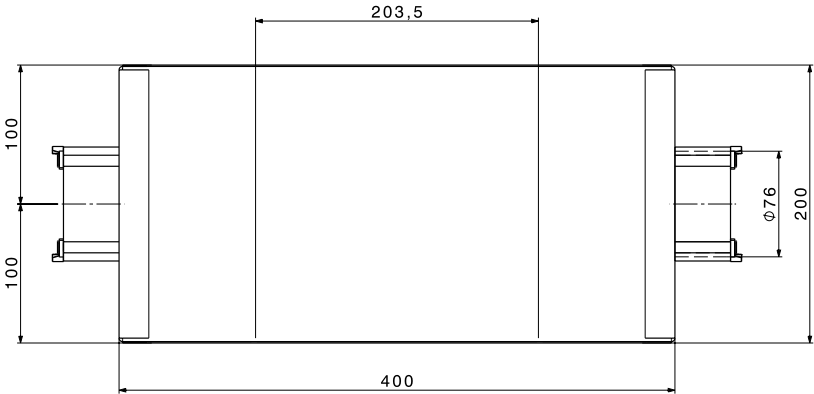
For quick, space-saving installation of flexible pipes FR-75 in ceilings/floors and walls. Each 90° connection can be rotated in increments of 45°.

After completion of the building shell, the lower distributor plate is fitted and the flexible pipes FR-75 are simply connected up. The inside of the 90° nozzles is rounded to allow easy cleaning of the ducts.

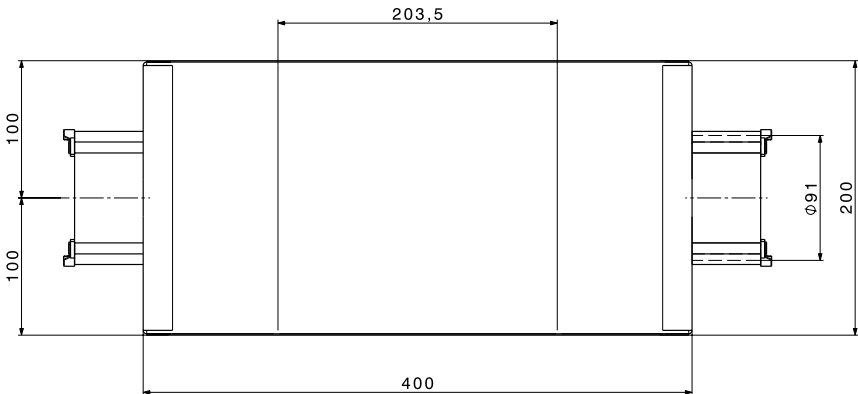




Flexible pipe crossing FRK-75
for flexible pipe DN 75
for crossing two flexible pipes DN 75
with reduced construction height (100 mm).
For one crossing 2 pieces are necessary.

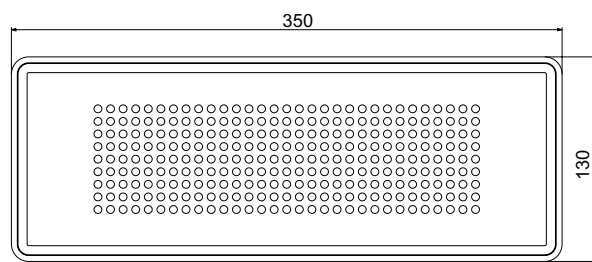


Flexible pipe crossing FRK-90
for flexible pipe DN 90
for crossing two flexible pipes DN 90
with reduced construction height (100 mm).
For one crossing 2 pieces are necessary.



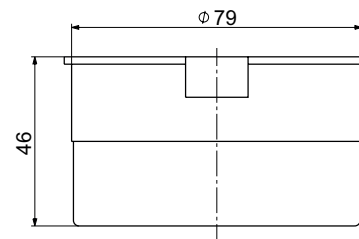
Floor grille 100, 140

inox or white colour
for flat channel system 100 and 140
Dimensions: 350 x 130 mm



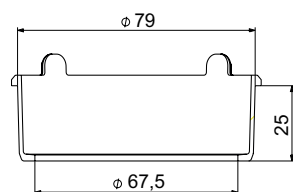
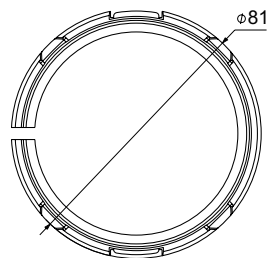
Stopper flat 75

sealing plug for outlet 90°
lateral 125-2 x 75



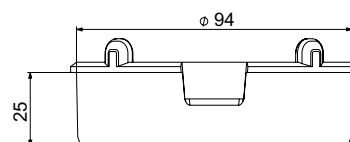
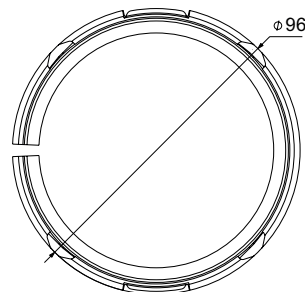
Click ring 75

for outlet 90° lateral 125-2 x 75



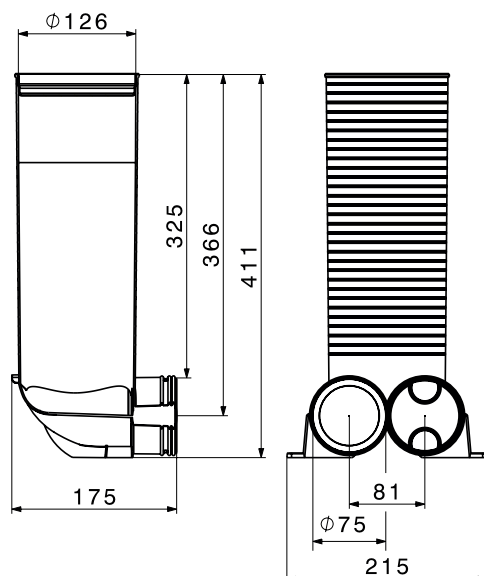
Click ring 90

for outlet 90° lateral 125-2 x 90



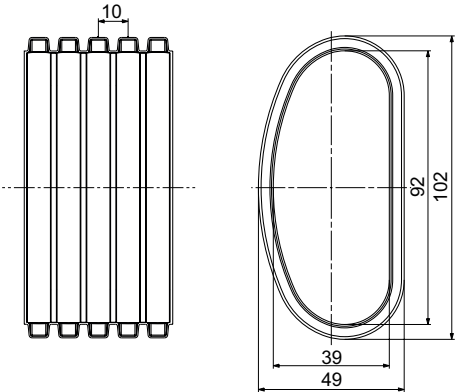
Outlet flat 90 125-75

Outlet round 90° lateral 125-2 x 75
made of plastic 2 x 75/125 mm
Usable length 325 mm

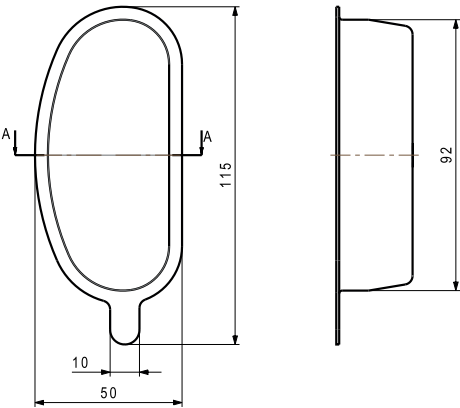


Flat channel 100

Flexible ventilation pipe 102 x 49 mm
 Roll length 50 m
 minimum bending radius 200 mm

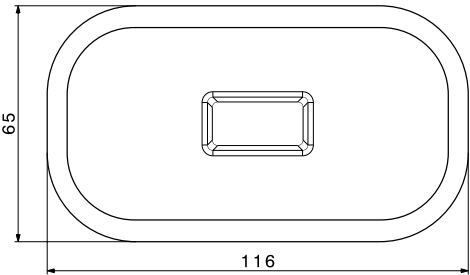
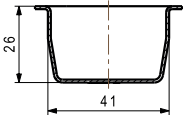
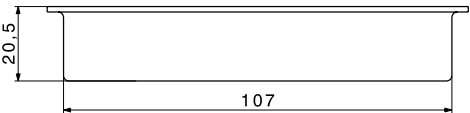


Plug flat channel 100



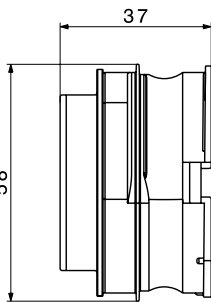
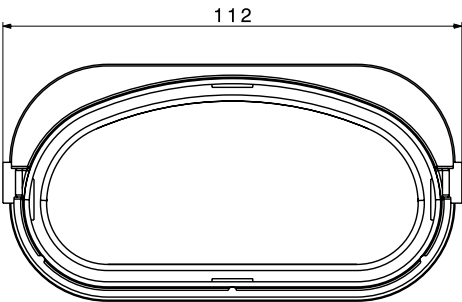
Stopper flat 100

for flat channel system 100 connections



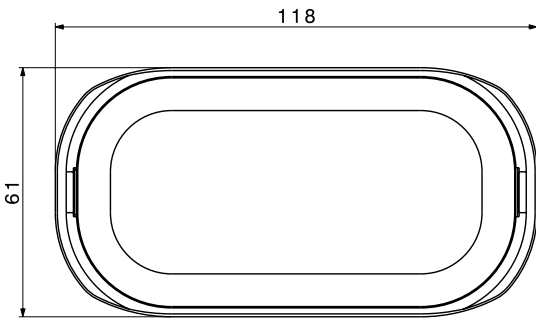
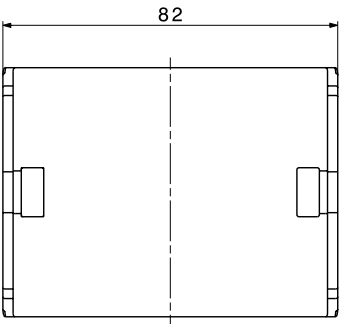
Seal flat 100

for flat channel 100

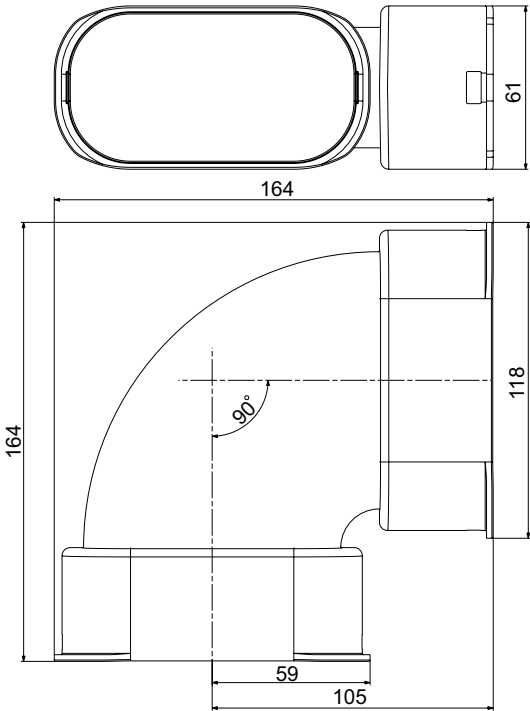


Sleeve 100

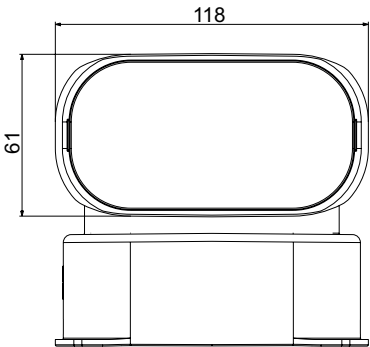
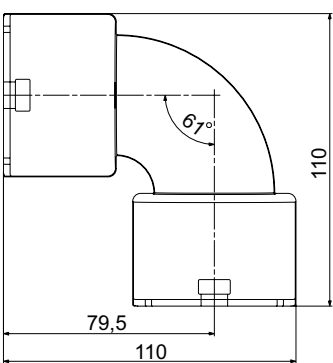
for flat channel 100



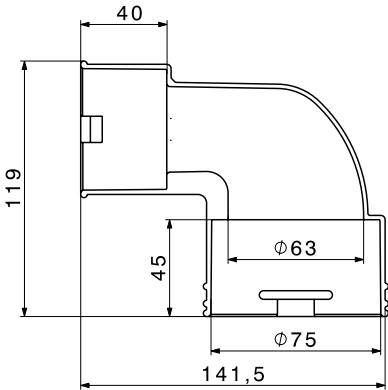
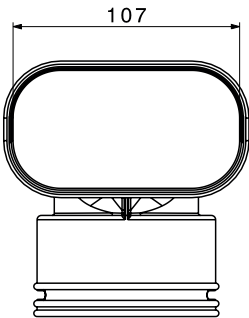
Arch horizontal flat 100
 for flat channel 100



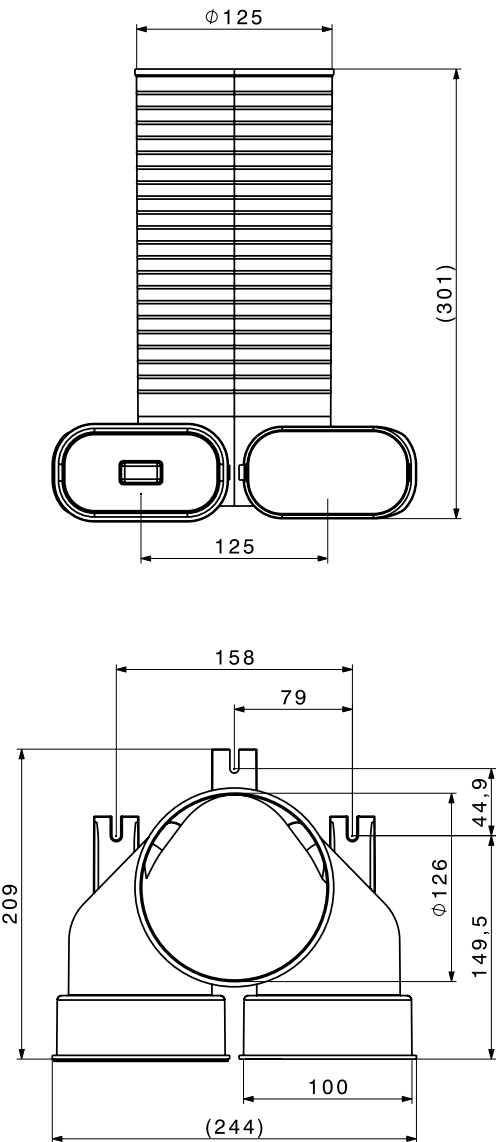
Arch vertical flat 100
 for flat channel 100



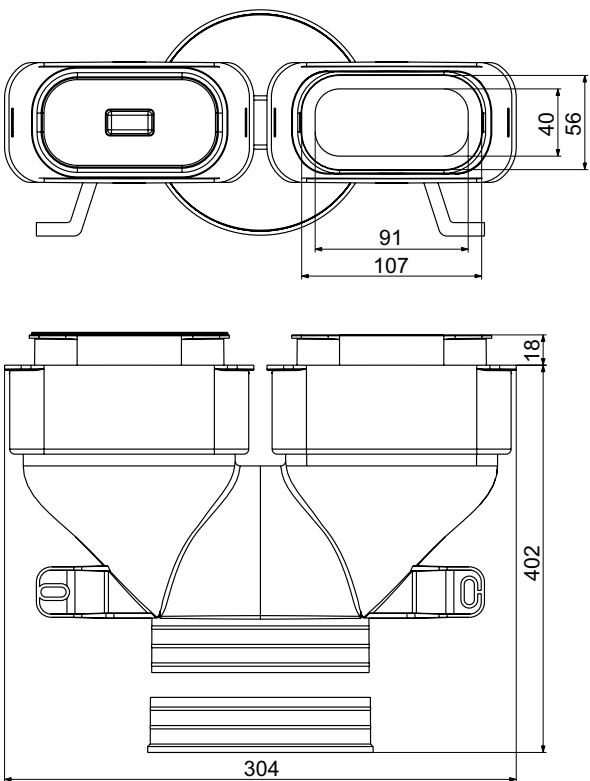
Arch vertical flat to round 100-75
 Transition 90° round to flat



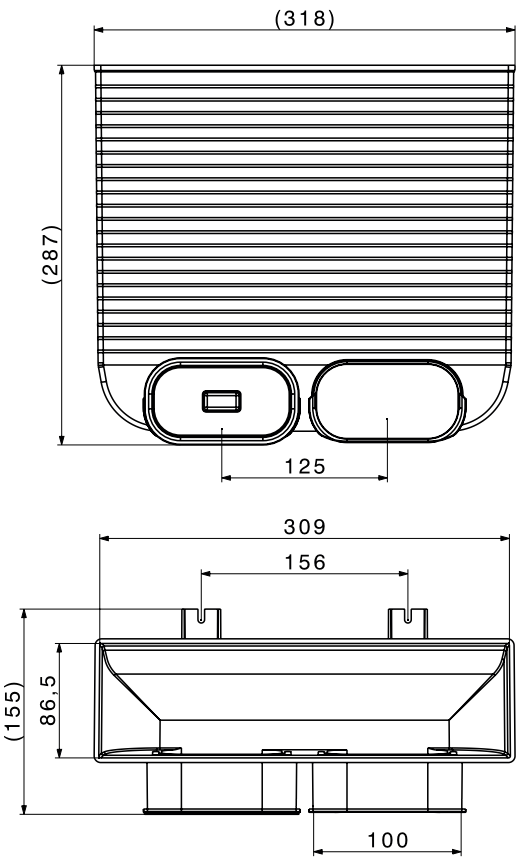
Outlet round, lateral 90° 125-2 x 100
for flat channel 100
incl. mounting bracket



Outlet round, front 125-2 x 100
for flat channel 100
incl. mounting bracket

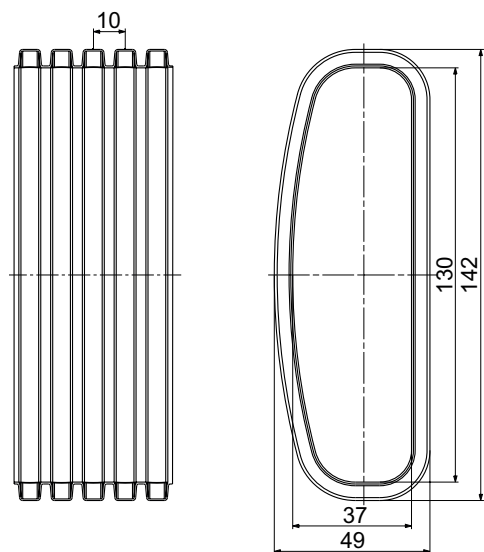


Floor exhaust flat 2 x 100
309 x 86.5 mm interior
2 flat channel 100 connections

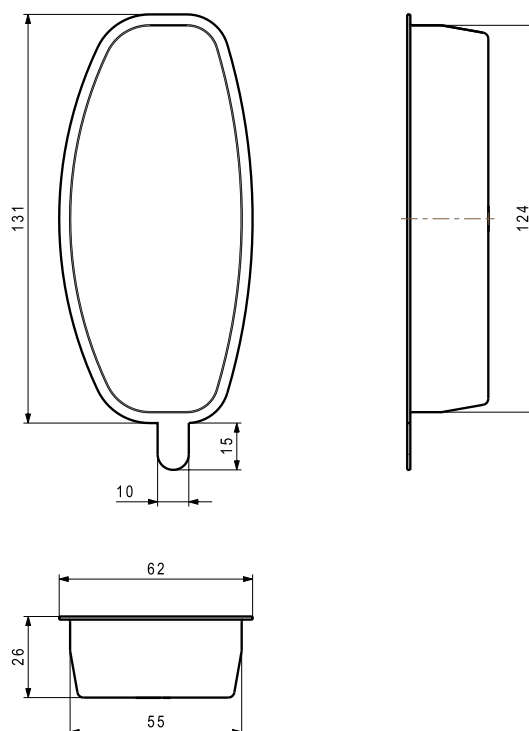


Flat channel 140

Flexible ventilation pipe 142 x 49 mm
Roll length 20 m
minimum bending radius 200 mm

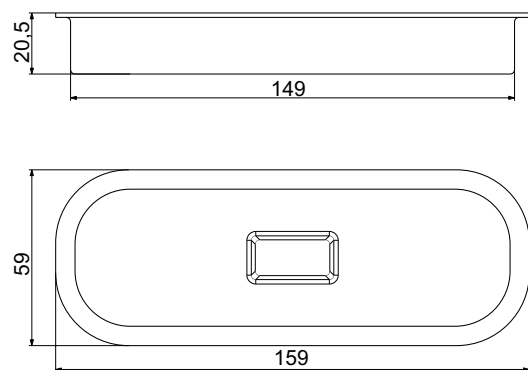


Plug flat channel 140



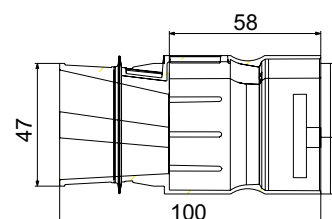
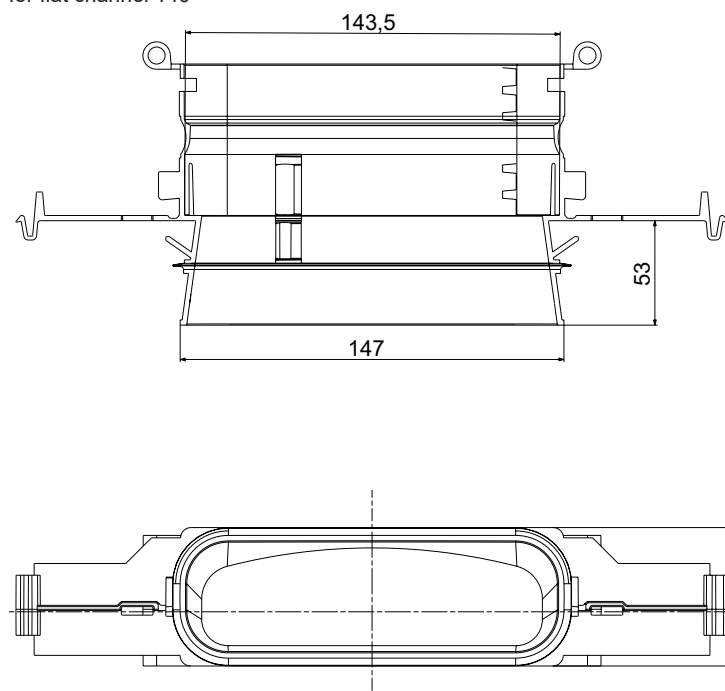
Stopper flat 140

for flat channel system 140 connections

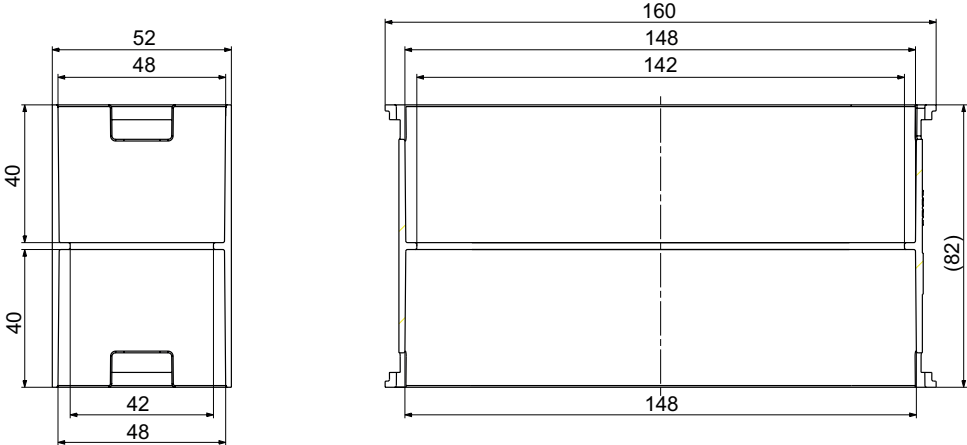


Seal flat 140

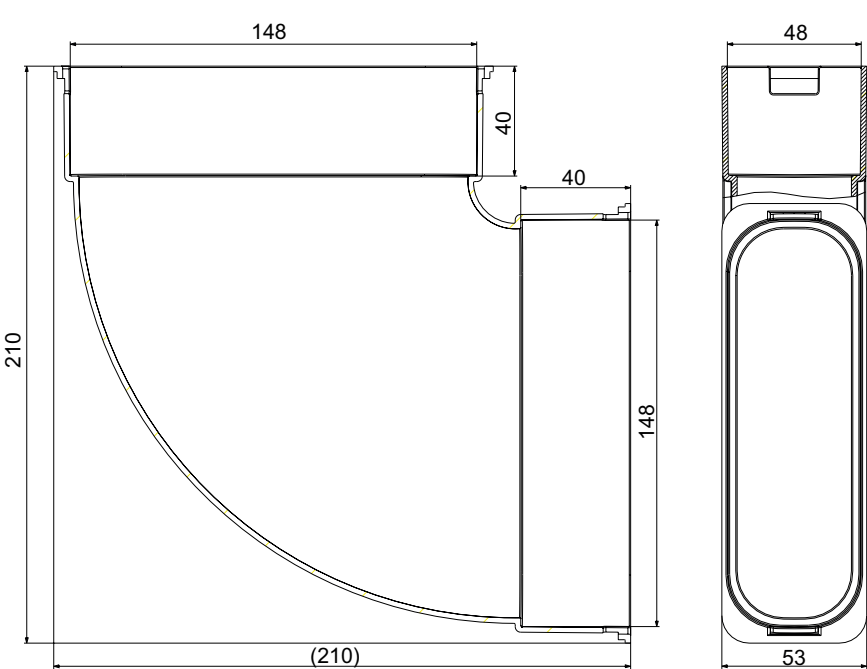
for flat channel 140



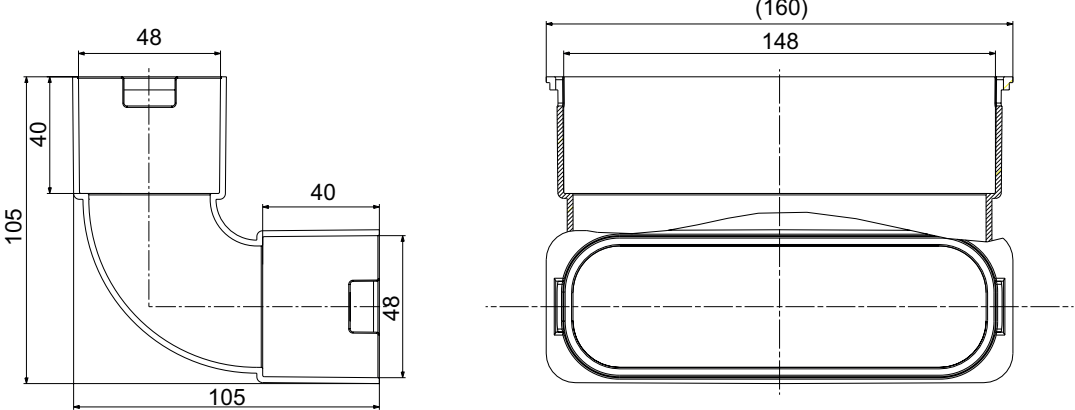
Sleeve 140
for flat channel 140



Arch horizontal flat 140
for flat channel 140



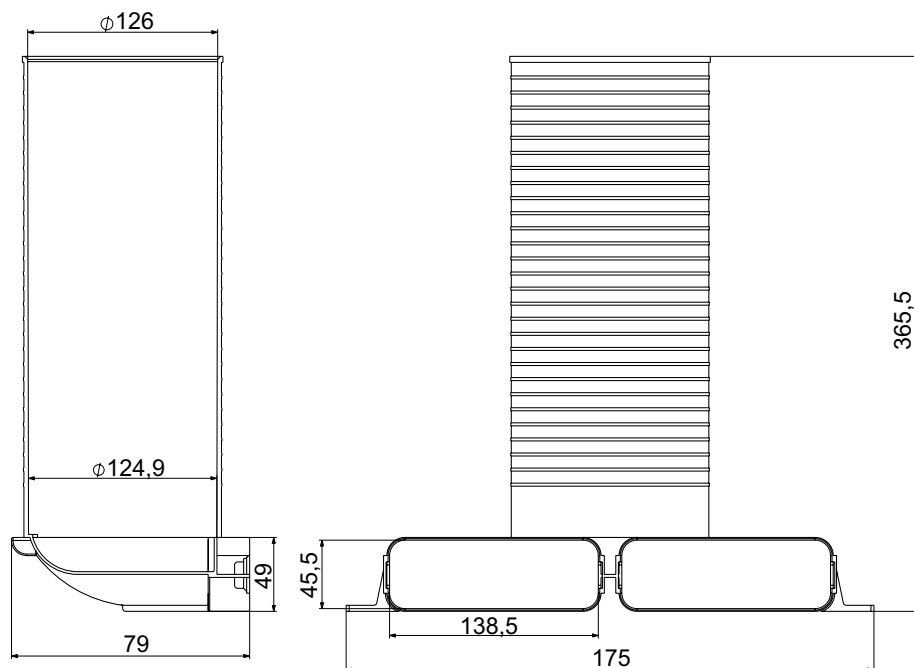
Arch vertical flat 140
for flat channel 140



Outlet round, lateral 90° 125-2 x 140

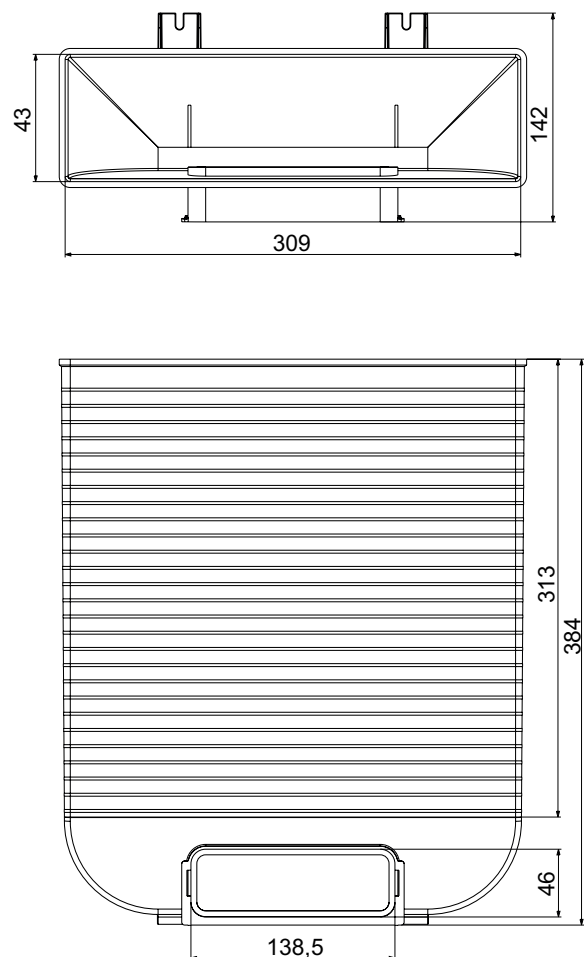
for flat channel 140

incl. mounting bracket

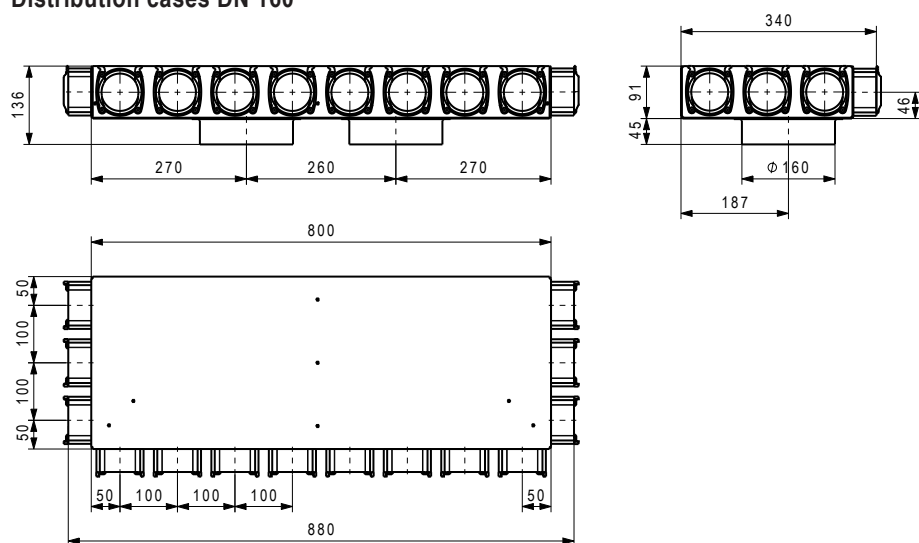

Floor exhaust flat 1 x 140

309 x 85 mm interior

1 flat channel 140 connection



Distribution cases DN 160



Distribution box VTB-160 14 x 75

Air distribution box of aluzinc sheet without access panel.

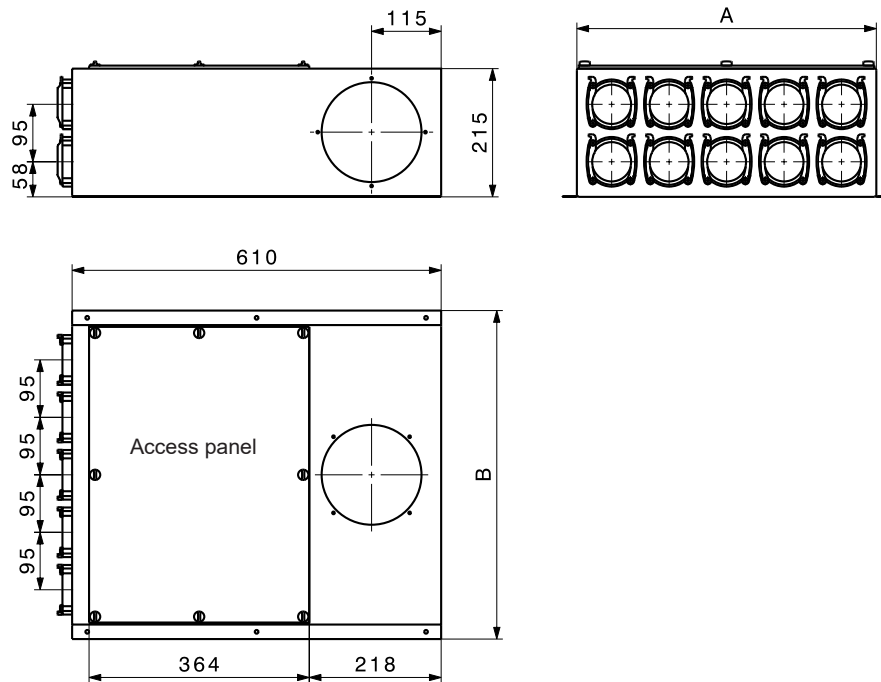
Connection nozzles:

2 x DN 160 supply and extract air

ZUL 7 x DN 75 (4 x front and 3 x side)

ABL 7 x DN 75 (4 x front and 3 x side)

Distribution cases DN 160

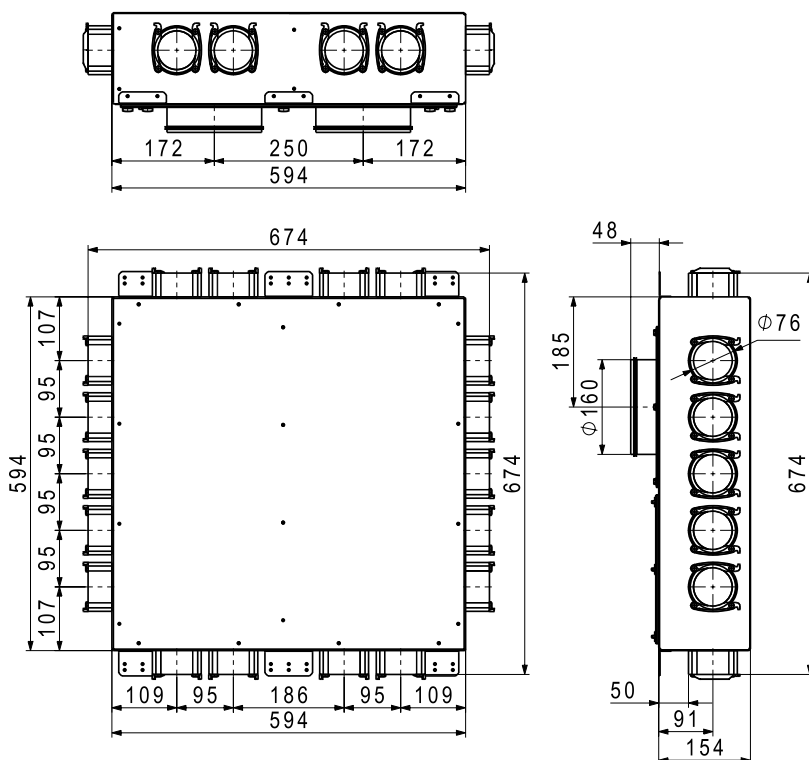


Distribution case for 6, 8 or 10 connections VK-160-75

This distribution case with an integrated silencer is used if the pipes can be arranged and laid centrally. Orifices for setting the air quantity per flexible pipe DN 75 (included in the scope of delivery).

In type VK, the DN 75 connections are on the end; the connection nozzle DN 160 is supplied and can be installed on the end, top or on the left or right side. The distribution case is suitable for on-wall installation.

Type	A	B	n
VK-160-75 x 6	305	355	6
VK-160-75 x 8	400	450	8
VK-160-75 x 10	495	545	10



Distribution box VTB-160 9 x 75

for concrete installation

Distribution box of aluzinc sheet with access panel (can be painted on site). Lined on the inside with sound absorbing material.

Connection nozzle:

2 x DN 160 (downward)

Supply air 9 x DN 75

(5 x side/2 x front and rear each)

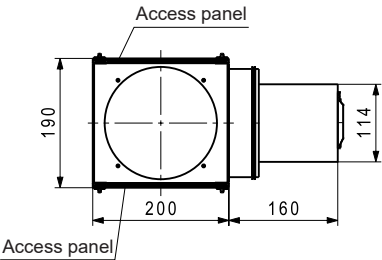
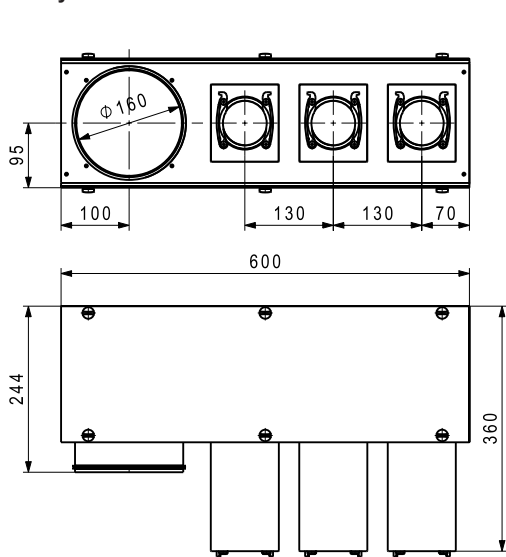
Extract air 9 x DN 75

(5 x side/2 x front and rear each)

Consisting of: box, 6 connection brackets,
4 end caps, incl. throttle orifices.

Distribution cases DN 160

Storey distributor GVT-3

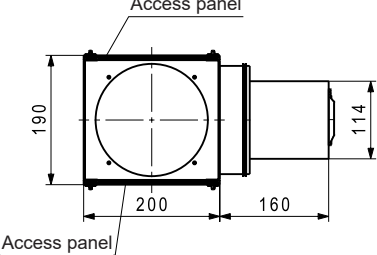
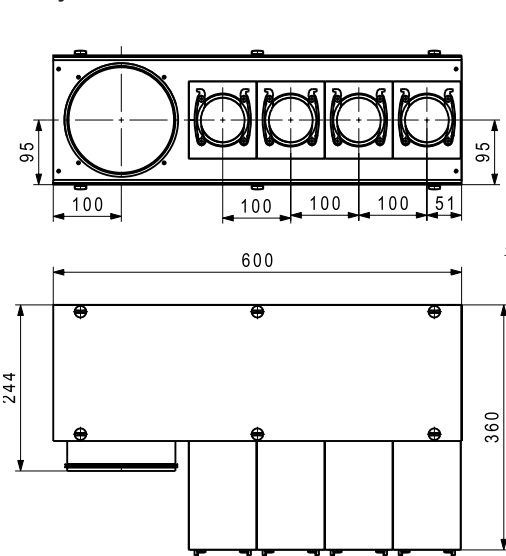


Storey distributor GVT-3 ... GVT-6

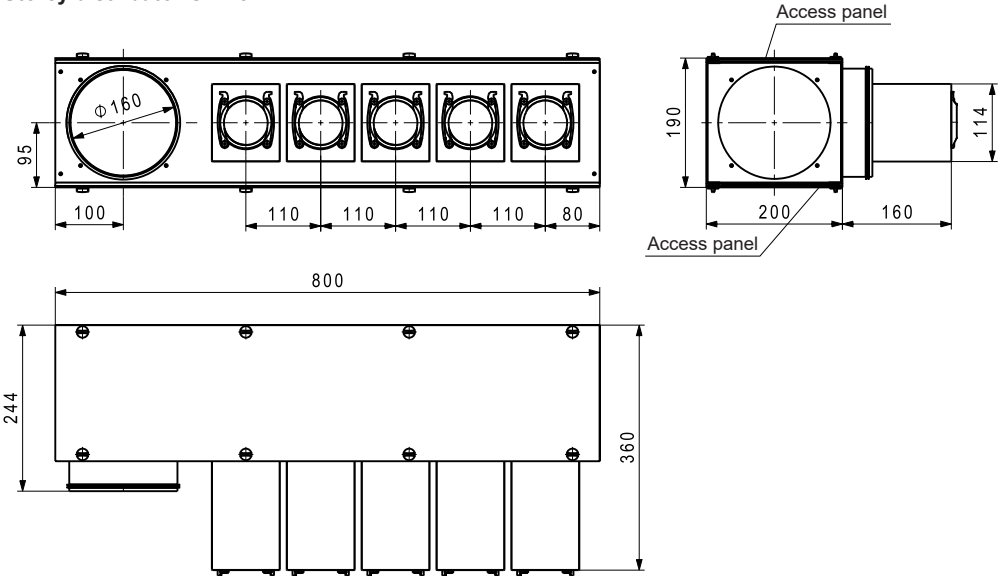
Storey distributor with 4 connection options for the main duct, incl. 2 connection nozzles DN 160, incl. 3 sealing caps DN 160. Flexible installation and easy cleaning of the pipes via the access panels on both sides. Orifices for setting the air quantity per flexible pipe DN 75 or DN 90 (included in the scope of delivery). Resonators for sound insulation. Material: Galvanised steel Inside lining: Sound absorbing mat

The mounting holder MH for floor distributor GVT-3 ... GVT-6 must be ordered separately.

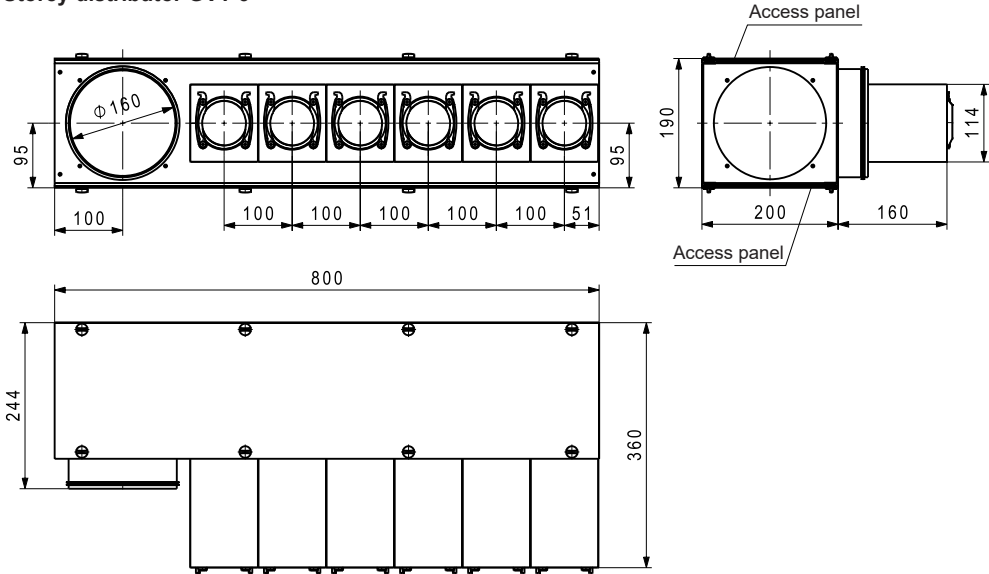
Storey distributor GVT-4



Storey distributor GVT-5

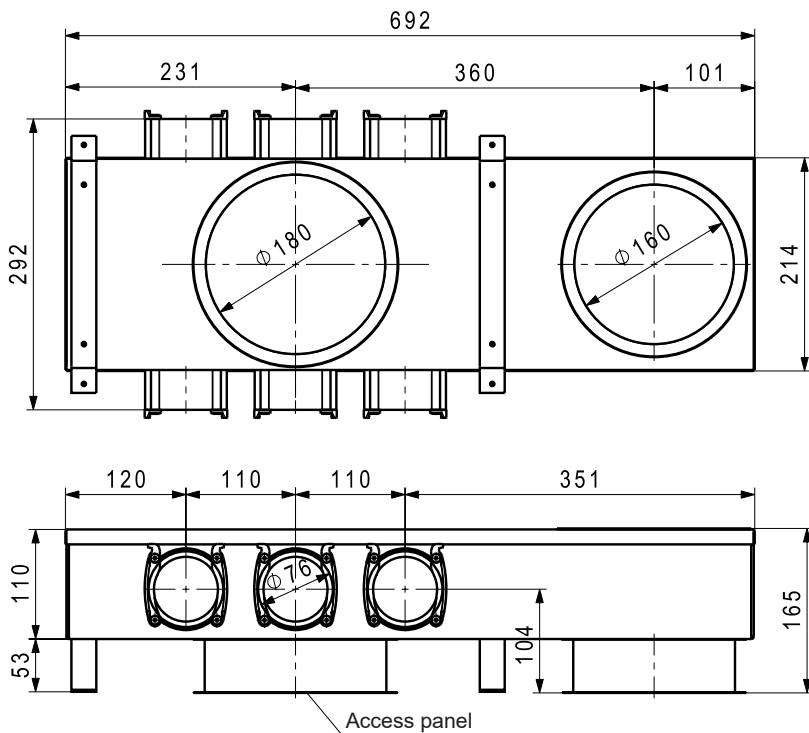


Storey distributor GVT-6



Distribution cases DN 160

UPVK 75 x 6

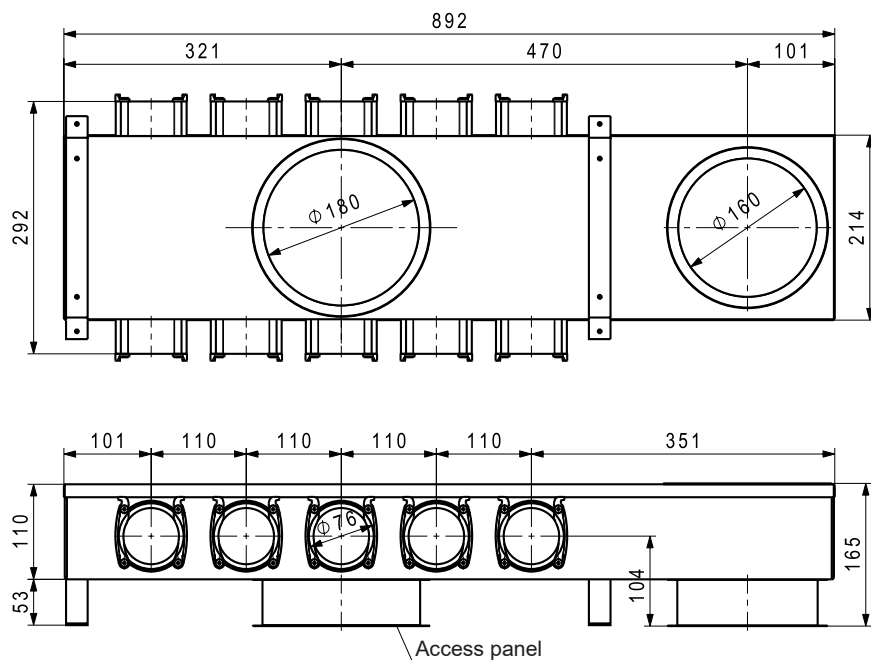


In-wall distribution case 75 x 6

for concrete installation

Distribution case of aluzinc sheet. With one connection nozzle DN 160 (upwards and downwards) and 2 x 3 nozzles DN 75 (lateral), incl. 2 end covers, 1 spigot DN 160, inside lining of sound insulating material, orifices for setting the air quantity per flexible pipe.

UPVK 75 x 10



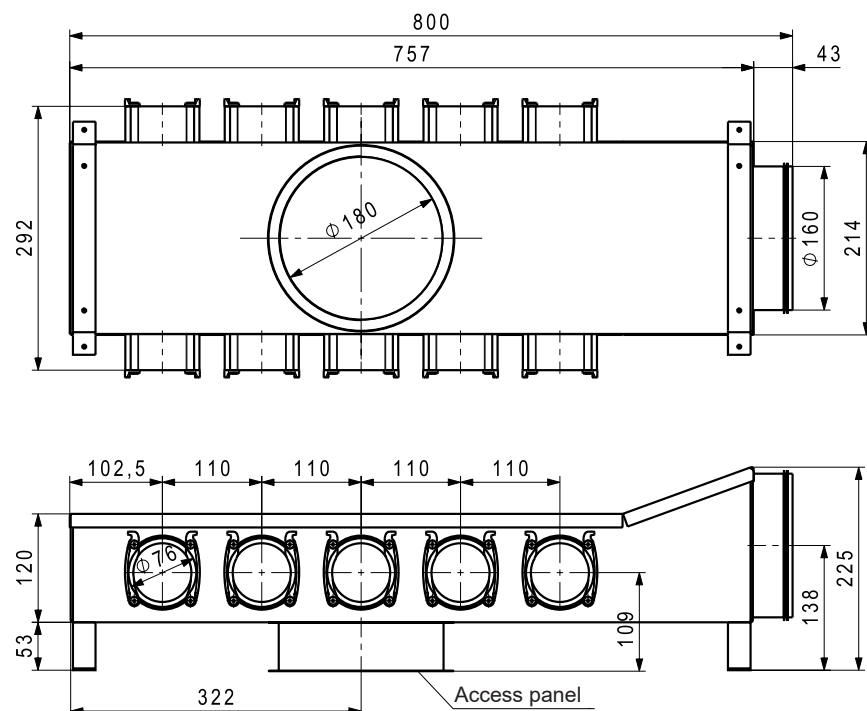
In-wall distribution case 75 x 10

for concrete installation

Distribution case of aluzinc sheet for encasing in concrete. With one connection nozzle DN 160 (upwards and downwards) and 2 x 5 nozzles DN 75 (lateral), incl. 4 end covers, 1 spigot DN 160, inside lining of sound insulating material. Orifices for setting the air quantity per flexible pipe.

Distribution cases DN 160

In-wall distribution case UPVKS 75 x 10



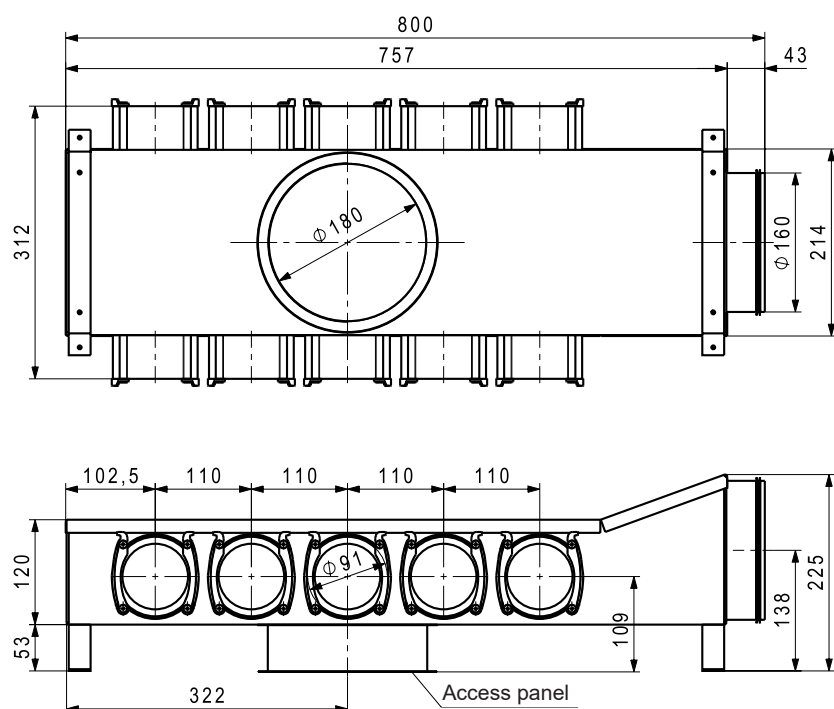
In-wall distribution case UPVKS 75 x 10 / 90 x 10

for concrete installation

Distribution case made from aluzinc sheet.

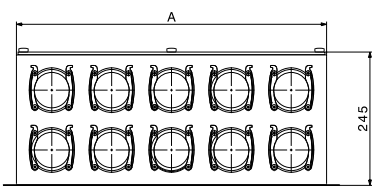
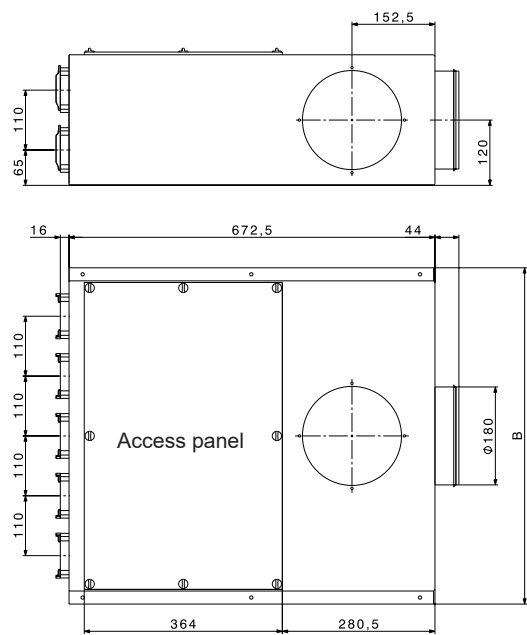
With one connection nozzle DN 160 (on face) and 2 x 5 nozzles DN 75 and DN 90 (lateral), incl. 4 end covers, inside lining of sound insulating material, incl. throttle orifices.

In-wall distribution case UPVKS 90 x 10



Distribution cases DN 180

Distribution case VK-180-75



Distribution case for 8, 10 or 12 connections
 VK-180-75 resp. VK-180-90

This distribution case with an integrated si-
 lencer is used if the pipes can be arranged and
 laid centrally.

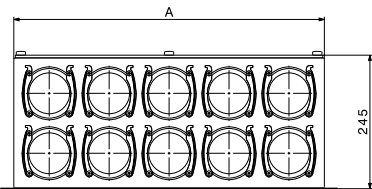
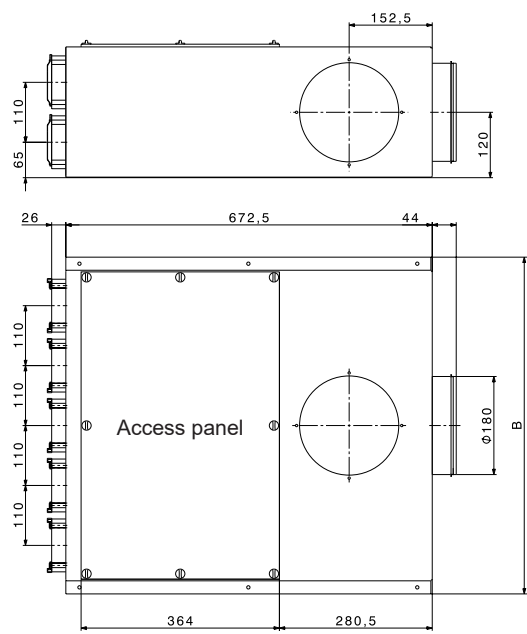
Incl. throttle orifices.

In type VK, the DN 75 resp. DN 90 connections
 are on the end; the connection nozzle DN 180
 is supplied and can be installed on the end, top
 or on the left or right side. The distribution case
 is suitable for on-wall installation.

Dimensions distribution case
 VK-180-75x..

type	A	B	n
VK-180-75 x 8	460	508	8
VK-180-75 x 10	570	618	10
VK-180-75 x 12	680	728	12

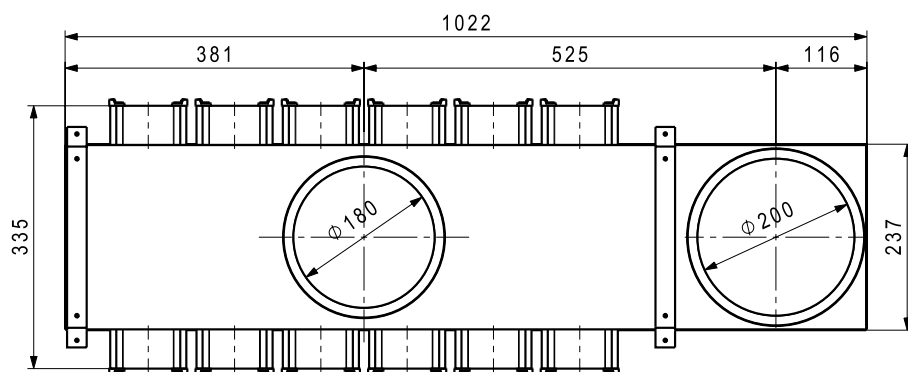
Distribution case VK-180-90



Dimensions distribution case
 VK-180-90x..

type	A	B	n
VK-180-90 x 8	460	508	8
VK-180-90 x 10	570	618	10
VK-180-90 x 12	680	728	12

Distribution cases DN 200



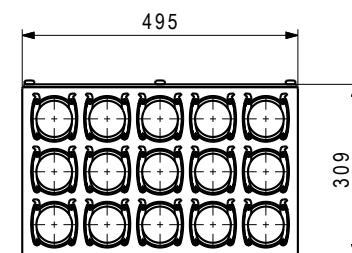
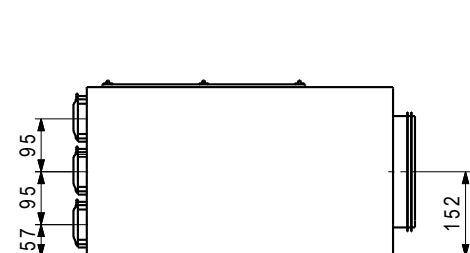
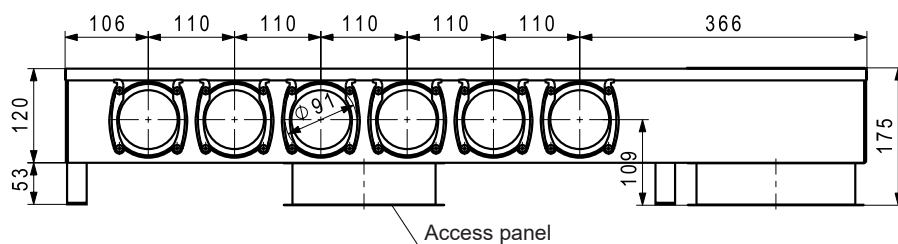
In-wall distribution cases UPVK-200 90 x 12 for concrete installation

Distribution case made from aluzinc sheet. Lined on the inside with sound absorbing material.

Connection nozzles:

2 x DN 200, 2 x 6 DN 90 (sideways).

Incl. end covers, 1 connection nozzle DN 200, incl. throttle orifices



Distribution case VK-200 75 x 15

Distribution case of aluzinc sheet with access panel.

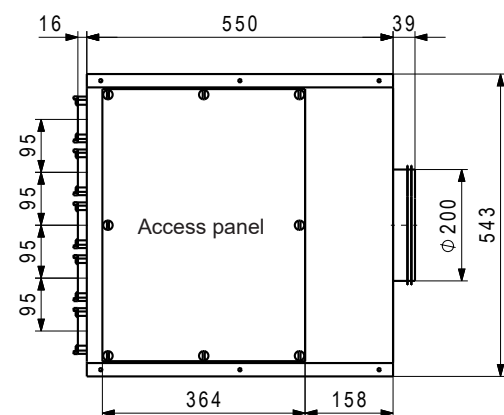
Inside with sound absorption block.

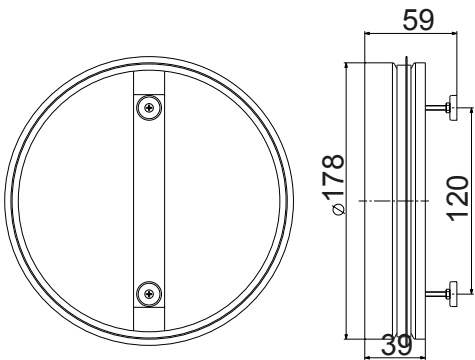
Connection nozzles:

1 x DN 200 (on the back)

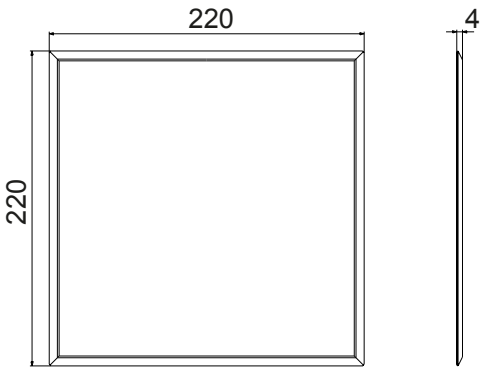
15 x DN 75 (on the front)

Incl. throttle orifices

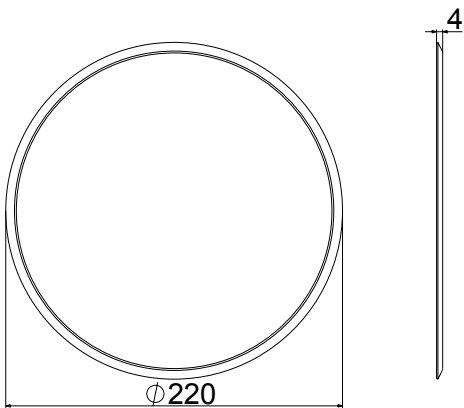




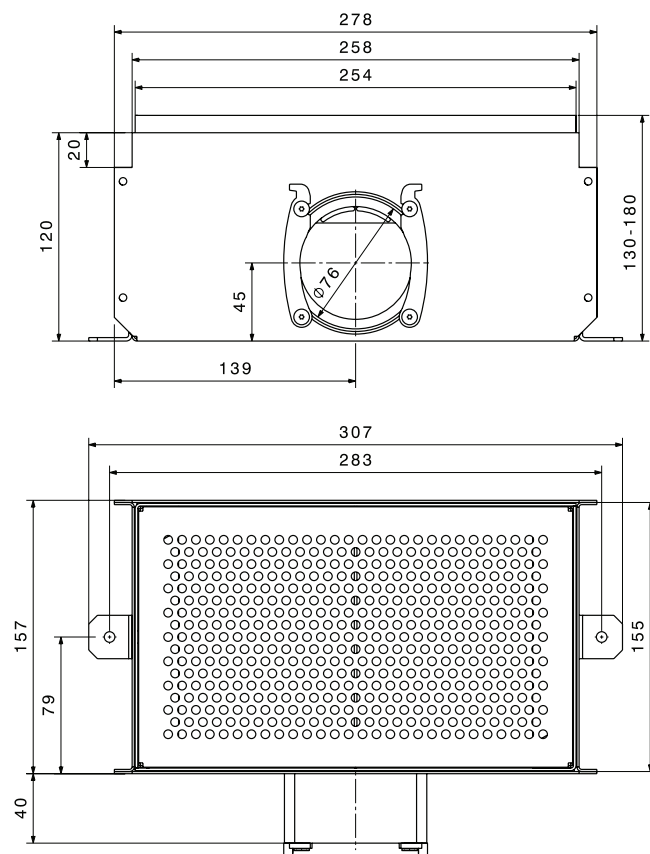
Access panel Ø 180 for UPV
from galvanised sheet incl. 2 magnets



Design cover 220 x 220
suitable for access panel Ø 180
white RAL 9016



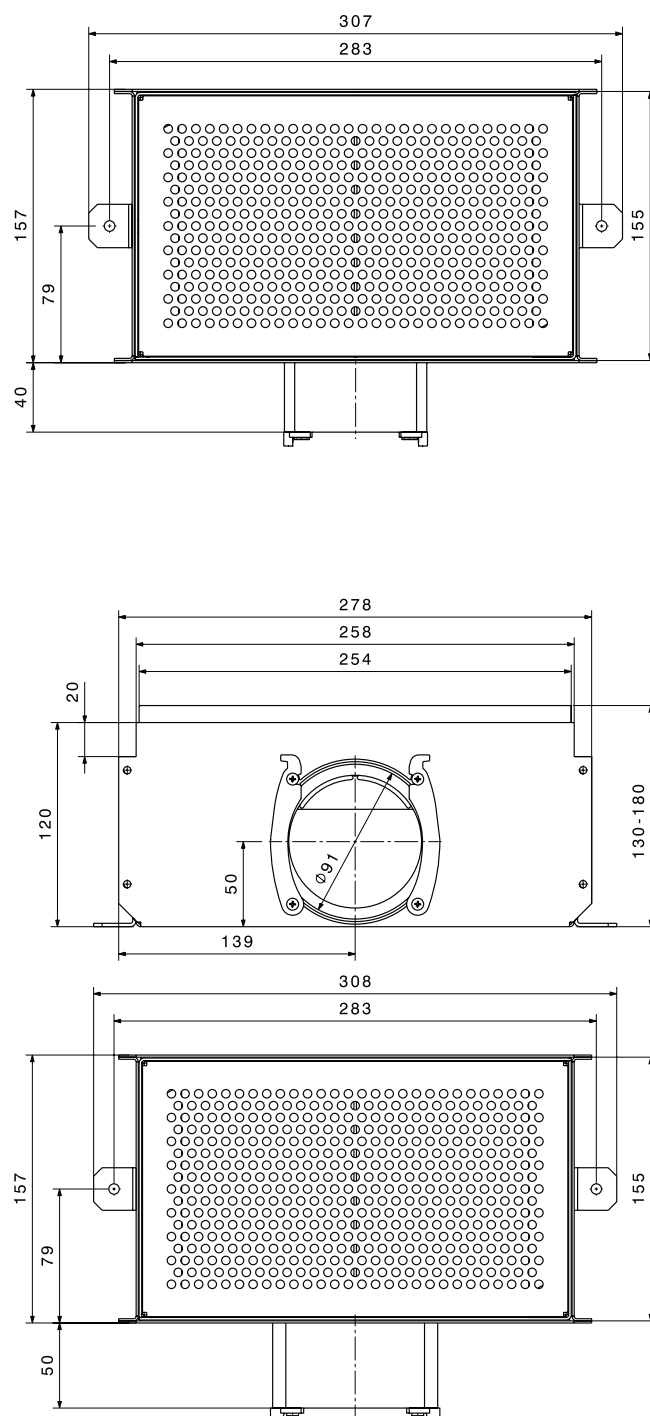
Design cover Ø 220
suitable for access panel Ø 180
white RAL 9016



Floor grille BD-30-75

For installation in the floor structure, supply air flow rate 30 m³/h. Perforated stainless steel grille in an adjustable casing, height 130-180 mm, inner component of stainless steel with 3 contact points, outer component of aluzinc sheet with 2 fastening catches and one connection nozzle for flexible pipe FR-75.

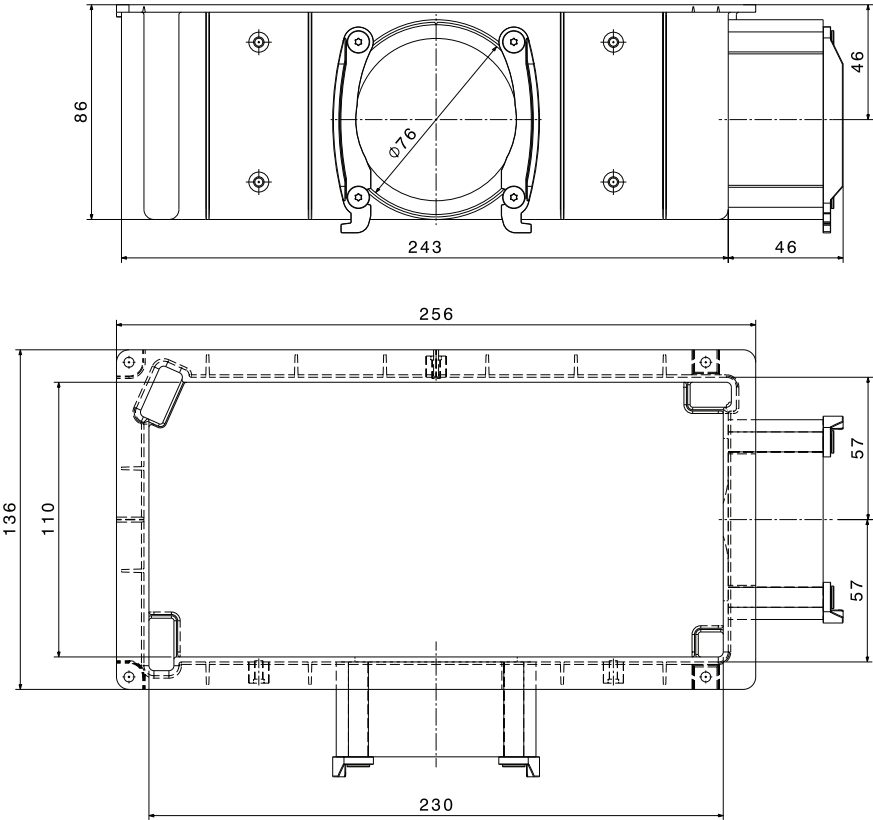
Only suitable for supply air.



Floor grille BD-30-90

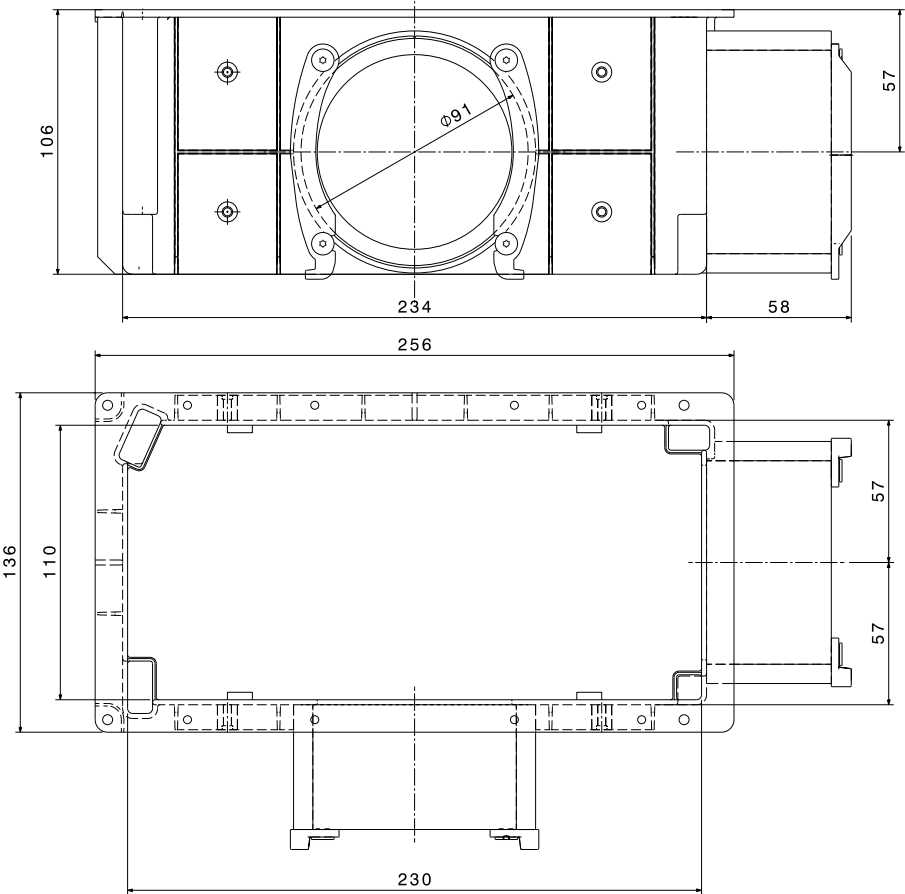
For installation in the floor structure, supply air flow rate 40 m³/h. Perforated stainless steel grille in an adjustable casing, height 130-180 mm, inner component of stainless steel with 3 contact points, outer component of aluzinc sheet with 2 fastening catches and one connection nozzle for flexible pipe FR-90.

Only suitable for supply air.



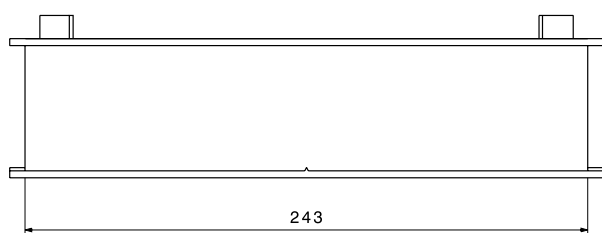
Connection housing AG-60

In combination with the design grilles. The extension allows fine adjustment of the grille (rotating) after installation. Suitable for installation in mass concrete, masonry walls or lightweight construction. Of plastic with 2 connection nozzles DN 75. Incl. fixing angles, sound absorbing mat and insert block as building protection cover and plastering aid.



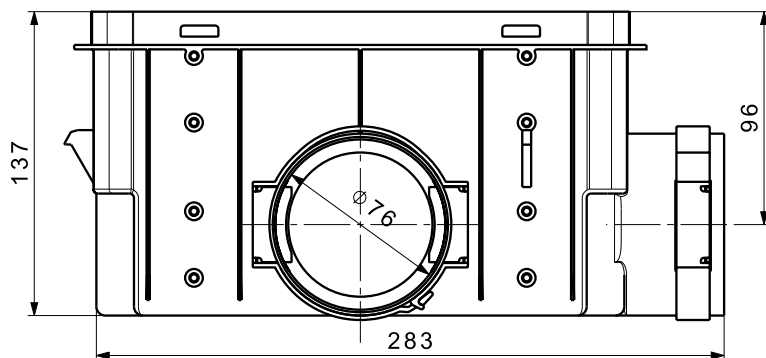
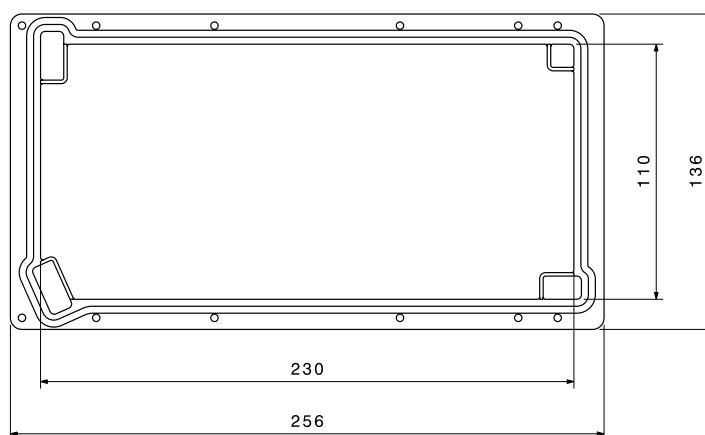
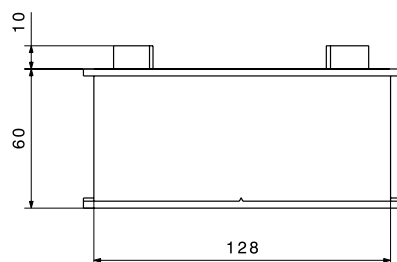
Connection housing AG-90

In combination with the design grilles. The housing allows fine adjustment of the grille (rotating) after installation. Suitable for installation in mass concrete, masonry walls or lightweight construction. Of plastic with 2 connection nozzles DN 90. Incl. fixing angles, sound insulation mat and insert block as building protection cover and plastering aid.



Extension VAG-60/VAG-90

For installation of AG-60 and AG-90 on the formwork panel. Extension permits precise grille alignment after installation.



Connection housing quick 75

for supply and extract air in combination with the design grilles. The housing allows fine adjustment of the grilles after installation. Plastic housing with 2 connection nozzles DN 75.

Very easy to mount, no nails in concrete after stripping.

Supply air:

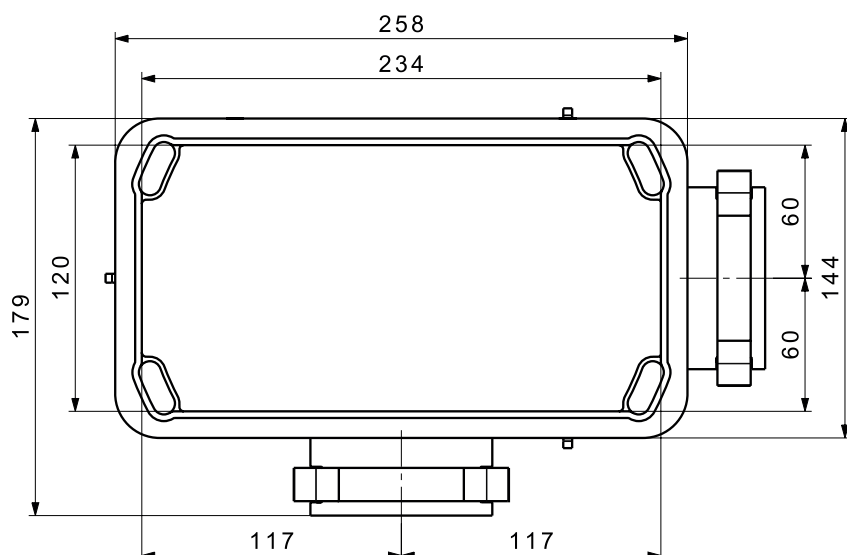
1 x DN 75 up to 30 m³/h

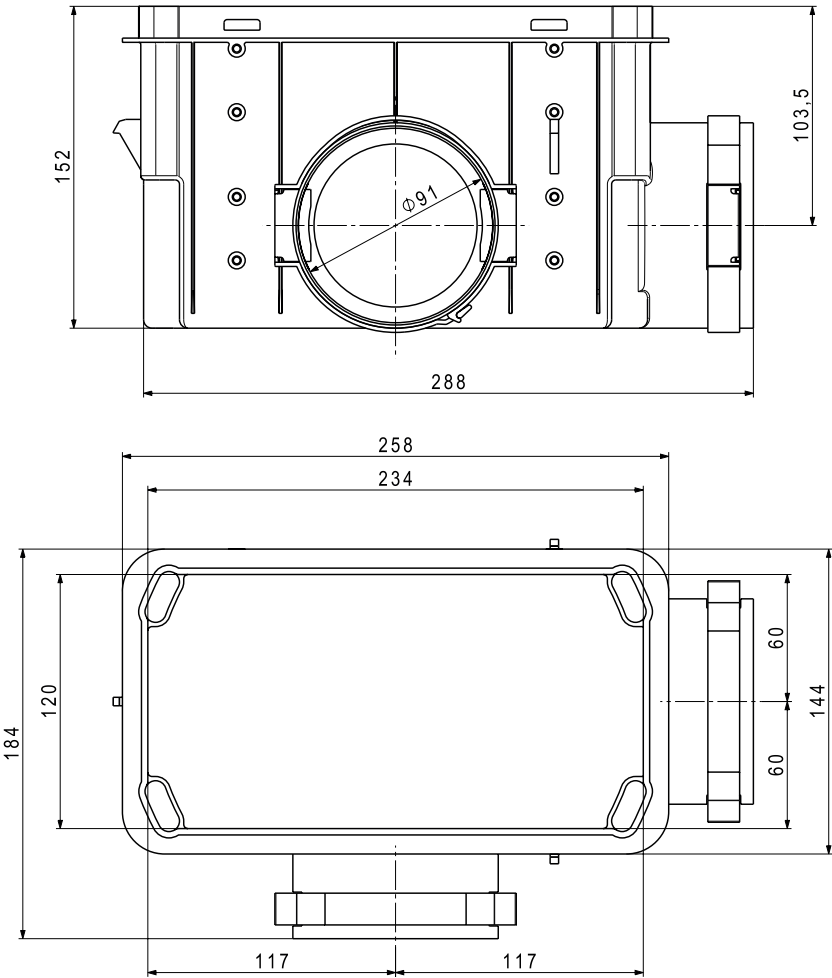
2 x DN 75 up to 40 m³/h

Extract air:

1 x DN 75 up to 30 m³/h

2 x DN 75 up to 60 m³/h

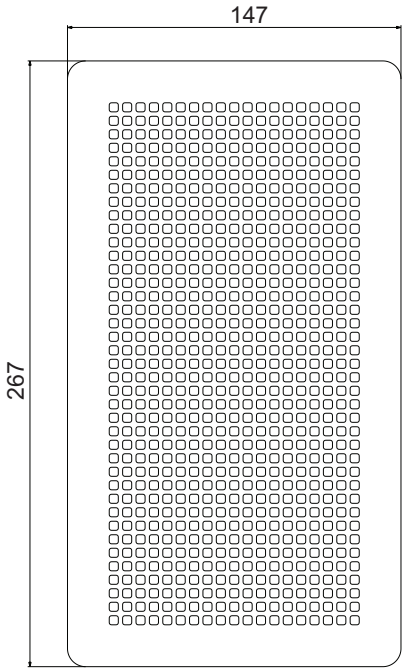
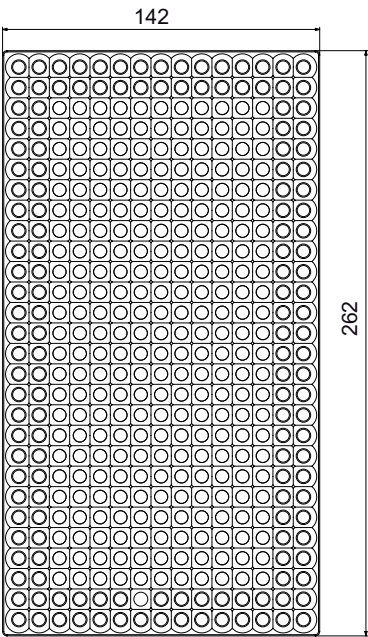


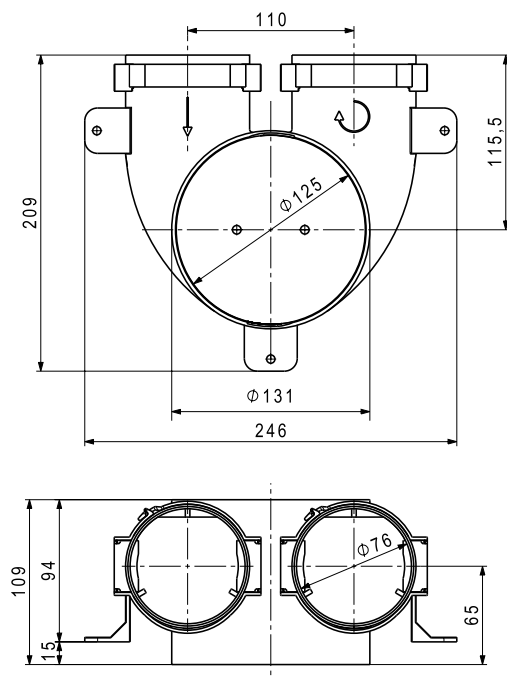


Connection housing quick 90
 for supply and extract air in combination with the design grilles. The housing allows fine adjustment of the grilles after installation. Plastic housing with 2 connection nozzles DN 90. Very easy to mount, no nails in concrete after stripping.
 Supply air:
 1 x DN 90 up to 40 m³/h
 Extract air:
 1 x DN 90 up to 60 m³/h
 Suitable for installation in mass concrete

Design grille made of plastic
 The grille is mounted on the connection housing AG-60 or the connection housing quick 75/90. There are four grille designs (Pazifik, Adria, Atlantik, Karibik). The outside dimensions are identical for all grilles. The wall/ceiling plaster must not exceed 30 mm.

Design grille made of metal
 The grille is mounted on the connection housing AG-60 or the connection housing quick 75/90. There are four grille designs (Alvier, Sântis, Pizol, Pilatus) in different variants. The outside dimensions are identical for all grilles. The wall/ceiling plaster must not exceed 30 mm.





Connection cylinder quick 75 short

For masonry, lightweight and wood construction. Plastic casing, two connections DN 75 incl. 1 stopper DN 75

Supply air:

1 x DN 75 up to 30 m³/h

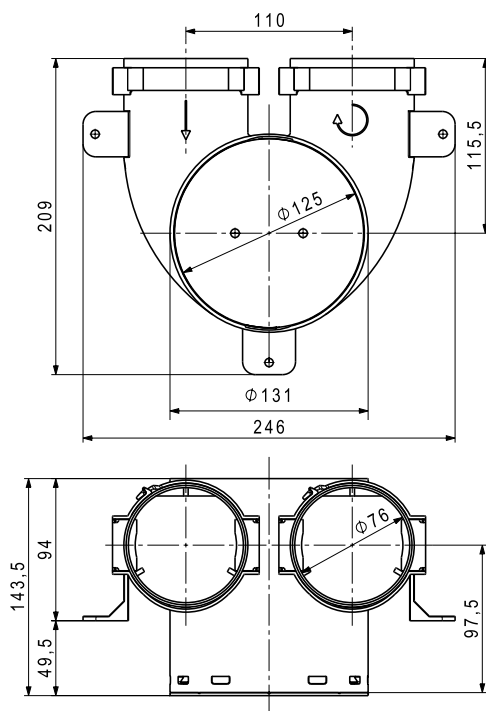
2 x DN 75 up to 40 m³/h

With tangential outlet only 1 x DN 75

Extract air:

1 x DN 75 up to 30 m³/h

2 x DN 75 up to 60 m³/h



Connection cylinder quick 75 medium

For element ceiling 60 mm, solid concrete. Plastic casing, two connections DN 75 incl. 1 stopper DN 75 and building protection cover

Supply air:

1 x DN 75 up to 30 m³/h

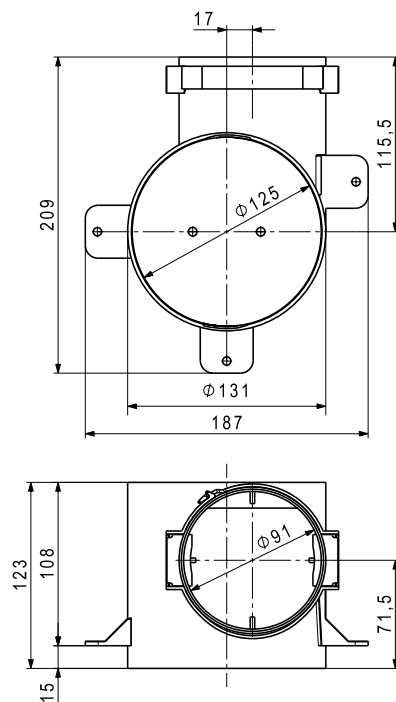
2 x DN 75 up to 40 m³/h

With tangential outlet only 1 x DN 75

Extract air:

1 x DN 75 up to 30 m³/h

2 x DN 75 up to 60 m³/h


Connection cylinder quick 90 short

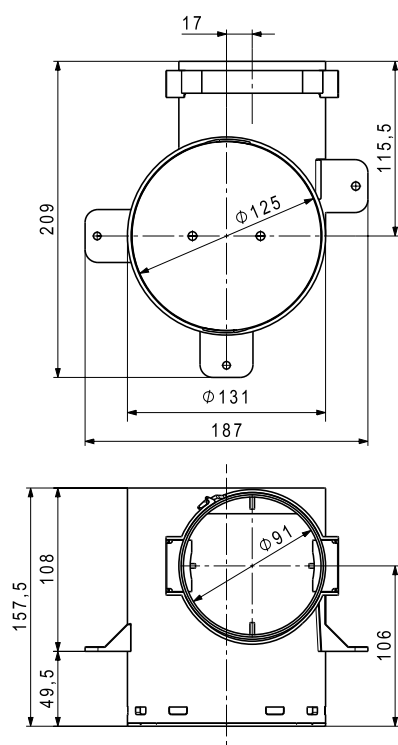
for masonry, lightweight and wood construction. Plastic casing, with connection DN 90

Supply air:

1 x DN 90 up to 40 m³/h

Extract air:

1 x DN 90 up to 60 m³/h


Connection cylinder quick 90 medium

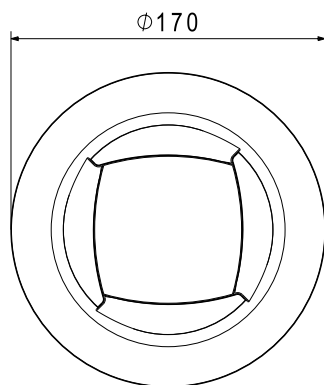
for element ceiling up to 60 mm, solid concrete
Plastic casing, with connection DN 90
incl. building protection cover

Supply air:

1 x DN 90 up to 40 m³/h

Extract air:

1 x DN 90 up to 60 m³/h



Design grille Tangential 125

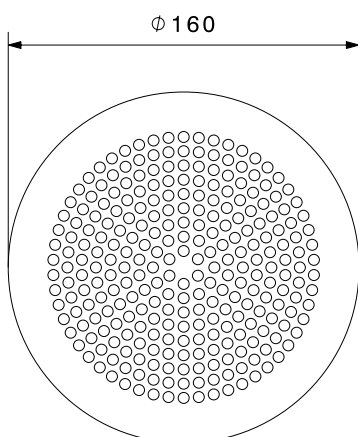
suitable for:

Connection cylinder quick 75 and 90 made of plastic, with plug-in connection.

Colour: white RAL 9016, can be painted on site

Supply air up to 40 m³/h

Extract air up to 50 m³/h



Stainless steel design grille Falknis

suitable for:

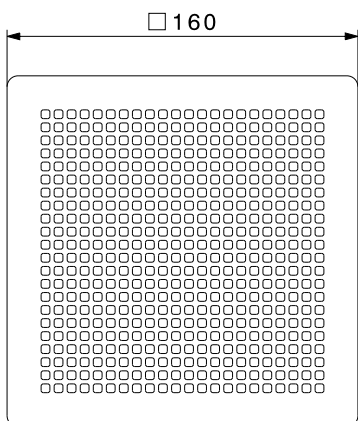
Connection cylinder quick 75 and 90

Brushed stainless steel

With plug-in connection

Supply air up to 40 m³/h

Extract air up to 50 m³/h



Design grille Falknis painted white

suitable for:

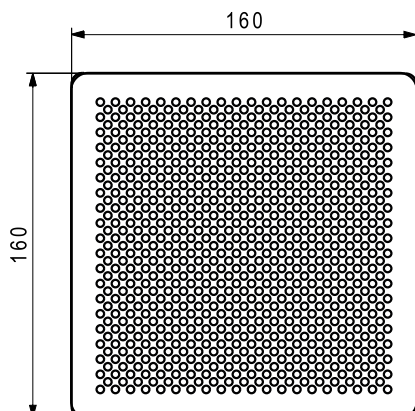
Connection cylinder quick 75 and 90

Steel, painted white (RAL 9016)

With plug-in connection

Supply air up to 40 m³/h

Extract air up to 50 m³/h



Stainless steel design grille Calanda

suitable for:

Connection cylinder quick 75 and 90

Brushed stainless steel

With support for connection cylinder quick 75 and 90

Supply air up to 40 m³/h

Extract air up to 50 m³/h

Design grille Calanda painted white

suitable for:

Connection cylinder quick 75 and 90

Steel, painted white (RAL 9016)

With plug-in connection

Supply air up to 40 m³/h

Extract air up to 50 m³/h

Design grille Rigi aluminium

Suitable for connection cylinder quick 75 and 90

Aluminium sheet with flanged edges

Surface: anodized brushed aluminium

With holding fixture for connection cylinder quick 75 and 90

Supply air up to 40 m³/h

Extract air up to 60 m³/h

Design grille Rigi white

Suitable for connection cylinder quick 75 and 90.

Aluminium sheet with flanged edges

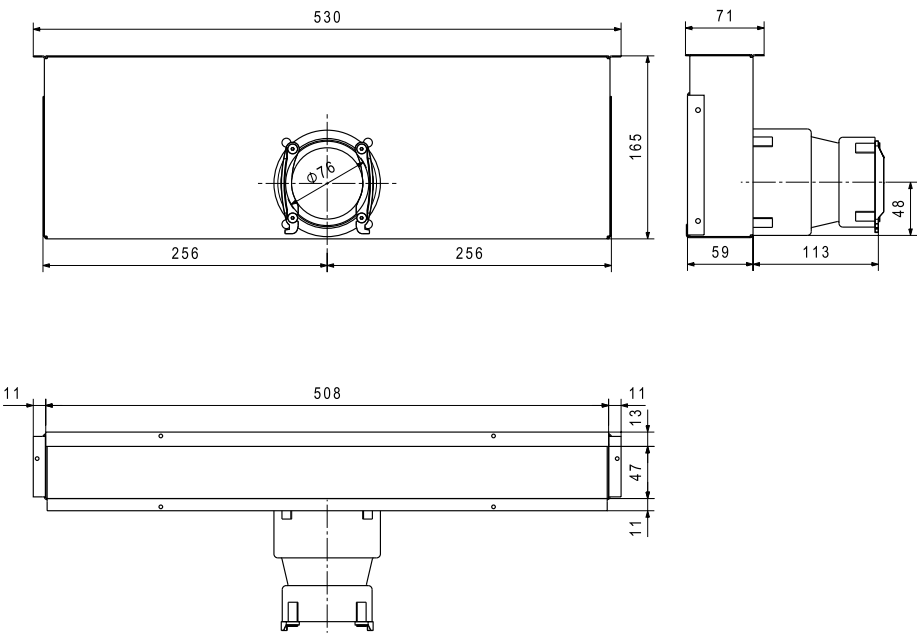
Painted white (RAL 9016)

With holding fixture for connection cylinder quick 75 and 90

Supply air up to 40 m³/h

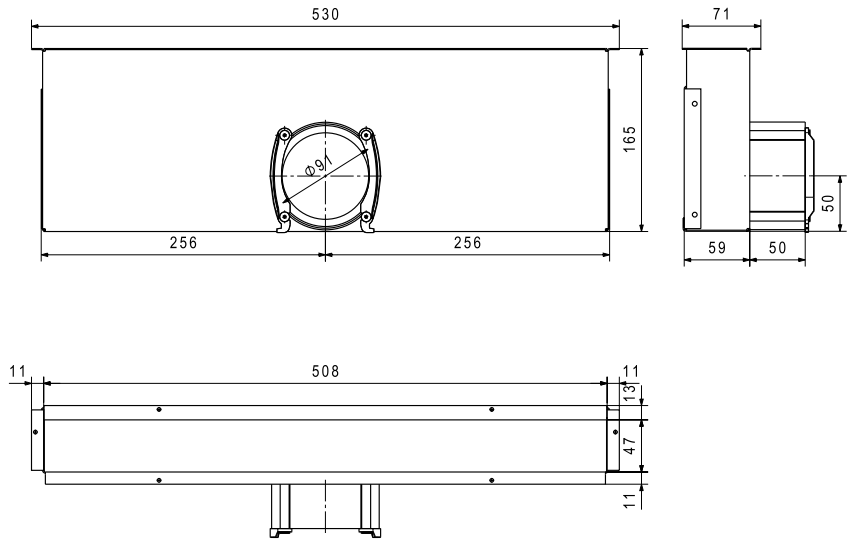
Extract air up to 60 m³/h

Connection box SD-75



Connection box SD-75 and SD-90
The slit grille is used for linear supply air distribution. It can be set to one or two outlet sides when taken into service, as required (preset to two sides).
The flow rate is set in the distribution case.

Connection box SD-90



Relevant standards and regulations (incomplete)

- DIN 1946-T6: Controlled mechanical supply and extract air handling for apartments with heat recovery
- DIN 4109: Sound insulation in structural engineering
- DIN EN 779: 2012 Particulate air filters for general ventilation – determination of the filtration performance
- DIN 18017-T3: Ventilation of bathrooms and WCs without outside windows
- Building Energy Act GEG
- Ventilation System Guideline LÜAR

General

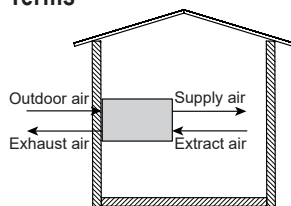
The following information is required for planning the comfort ventilation:

- Type, number, surface area and utilisation of the rooms included in the ventilation
- Floor plans and clear room heights
- Possible locations for routing distribution lines and outlets (ceiling, floor structure, outside wall, etc.)

One comfort ventilation device is only allowed to be used for one utilisation unit. The application limits must be complied with.

Fire protection requirements must be clarified with the responsible specialist. Normally (model building regulations), no special fire protection requirements are imposed on free-standing buildings with a height of 7 m and no more than two utilisation units with a total area of no more than 400 m². Living area ventilation units do not replace the drying out of the building. This should be completed by the time the living area ventilation is taken into operation. In the first few winters, additional window ventilation may be necessary depending on the room humidity, e.g. after showering or cooking.

Terms



Depending on the use to which they are put, rooms are divided into supply air, overflow and extract air areas (table 1). Rooms are only equipped with both supply and extract air ports in exceptional cases. Rooms equipped with comfort ventilation must be located within the thermal (insulated) building shell.

Flow rates

Necessary flow rates must be defined for a specific project on the basis of the current status of the relevant standards. Special requirements, e.g. concerning noise, moisture loads and temperatures must be taken into account. The following design recommendations are based on DIN 1946 part 6, although compliance with this standard must be examined on a case-by-case basis.

The largest of the volume flows described in the following 4 points is used as the basis for the nominal ventilation of the ventilation unit (e.g. total of all extract air volume flows however max. 1.2 times the value from Table 2). The maximum air flow rate of the ventilation unit should be sufficient for intensive ventilation (1.3 x nominal ventilation at 170 Pa, for example).

1. A flow rate of 30 m³/h must be provided per person for the residential unit.
2. The area-related minimum flow rates in Table 2 must be complied with.
3. The flow rates in Table 3 must be guaranteed for extract air rooms.
4. The flow rates in Table 4 are recommended for supply air rooms.

Table 1

Zone	Room use (examples)
Supply air zone	Bedroom, living room, nursery, dining room
Overflow zone	Corridor, hallway, stairway
Extract air zone	Bathroom, toilet, storage room, kitchen, hall

Table 2

Relevant surface A_{NE} [m²]	20	30	50	70	90	110	130	150	170	190	210
Nominal ventilation $V_{R,NL}$ [m³/h]	35	45	65	80	100	115	125	140	150	155	165

Table 3: extract air

Room type	Extract air [m³/h]	n *
Kitchen, kitchenette	40	2
Bathroom, toilet with shower	40	2
Toilet	20	1
Utility room, hobby room	20	1

* n = usual number of flexible pipes

Table 4: supply air

Room type	Extract air [m³/h]	n *
Living room	40-50	2
Master bedroom (2 persons)	40	2
Nursery (1 person)	24	1
Office (private), dining room, guestroom	20	1

* n = usual number of flexible pipes

Supply/extract air

Only directly or indirectly heated rooms are included in the ventilation. All supply and extract lines should be routed within the insulated building envelope.

The position of the supply air, overflow air and extract air openings must be selected such that cross-ventilation occurs. Supply air openings must be positioned outside the occupied area, and in particular not above the head ends of beds, writing desks or couches.

Hoval normally uses round flexible pipes DN 75 or flat channels 100 as distribution lines. For noise and efficiency reasons, they should be 6 and 15 m long. The external pressure drops (outside + supply air or extract + exhaust air incl. distributor and silencer) should not be more than approx. 100 Pa for nominal ventilation. Hoval recommends complying with a maximum pressure drop of 40 Pa for the lines after the distributor (room-side). Flow rates in excess of 27 m³/h rated ventilation must therefore be distributed between 2 lines. In long line runs, it is necessary to carry out a corresponding calculation.

Distributors must be accessible for inserting the throttle orifices and for cleaning. Lines between the ventilation unit and the supply air distributor or extract air manifold are normally routed with the diameter of the unit coupling. In cool rooms, they must be insulated.

Fresh/exhaust air

The fresh air inlet should be planned in such a way as to avoid the intake of pollutants and smells. It should be at least 2 m above ground and not close to garages or roads with heavy traffic.

The exhaust air outlet should be positioned in such a way that it cannot be drawn in by the outside air inlet. The horizontal distance should be at least 2 m (note the predominant wind direction).

The fresh and exhaust air lines must be insulated over their complete surface and be impervious to vapour diffusion so as to avoid condensation forming on surfaces (e.g. 25 mm EPDM). When laying in shafts, the conditions (temperature and humidity) must be calculated and taken into account. The insulation must be continued through the outer wall at least until shortly below the outside surface.

Silencers

Silencers suitable for the noise emissions of the ventilation units must always be positioned in the supply and extract air lines.

To avoid disturbance of neighbours or on your own patio, for example, it is recommended that silencers should be installed in the exhaust air and possibly also outside air lines.

Unit installation

The ER comfort ventilation units can be mounted in various different installation positions. (mounting on a wall/ceiling/floor, outside air top/bottom). The access panel is present on both sides for installation in opposite direction. The ERT ventilation units are always installed with the nozzles directed upwards. Vibration dampers (accessories) must be used for mounting in order to avoid noise transmission and to prevent distortion of the unit. The entire comfort ventilation unit as well as its integrated and add-on parts must be accessible for maintenance and servicing work.

The installation conditions in the technical data (temperature, humidity) must be complied with.

Operator terminal/wiring

The comfort air ventilation unit is configured ready-to-connect. For connection with the mains supply a 3 m long cable with plug is supplied. A 230 V mains socket should be provided close to the comfort ventilation unit in the electrical planning. The operator terminal should be installed so that it is visible (fault display, operation).

The comfort ventilation unit and operator terminal are connected by an 8-pin CAT 5 patch ribbon cable. For distances over 3 m, we recommend installing shielded cables 4 x 2 x 0.8 mm² to a network socket (RJ45) close to the comfort ventilation unit and connected to the position of the operator terminal (RJ45 plug). The HomeVent® comfort ventilation unit is supplied with a 3 m long cable with an RJ45 plug for connecting the unit to the socket.

Combination with heating sources

When using ventilation systems together with heating sources, the chimney sweep must be consulted in advance.

Systems extracting air (e.g. cooker hood, ventilation system, central vacuum cleaner, extract air dryer) can give rise to negative pressures and cause hazardous flue gases to be drawn out of the heat source; as a result, a pressure monitor with design certification is generally required as a safety device. This interrupts the electrical power supply to the air extraction system if dangerous pressure conditions arise. The use of approved fire sources independent from the room air can prevent the flue gas being sucked out.

Services

Hoval will be happy to assist you in planning and taking the systems into operation.

IsiPipe and IsiPipe Plus air ducts made of EPP

- The IsiPipe EPP air ducts are joined via a connecting sleeve.
- To ensure tight sealing, the individual sections must be inserted into the sleeve as far as the stop. Tight sealing must be ensured even when individual sections expand or contract as a result of temperature fluctuations.
- The individual sections can be shortened (e.g. using a knife or a saw). When shortening sections, always cut at right angles and remove any residue from the pipe. Use an assembly device, e.g. pipe clamp.
- IsiPipe air ducts made of EPP must be accessible (must not be routed in the cable duct).
- IsiPipe air ducts made of EPP must be supported at regular intervals (approx. every 1.5 m) with pipe clamps.
- When installing accessory parts with a high dead weight, the weight must be supported so that there is no load on the IsiPipe air duct.
- Thermal bridges must be prevented at the junctions between IsiPipe air ducts and pipes or components made of another material, e.g. metal.

1. General

- 1.1 The following Terms and Conditions shall apply to all our present and future contracts for deliveries and other services (even if the said Terms and Conditions are not specifically mentioned in verbal, telephonic or fax communications).
- 1.2 All deviations from the present Terms and Conditions, ancillary verbal agreements and subsequent contractual amendments shall only be valid if they have been confirmed by us in writing.
- 1.3 Buying terms and conditions of the client shall not be valid even if they are not specifically rejected by us. Our Standard Terms and Conditions of Delivery shall be regarded as accepted at the latest upon receipt of our goods and services by the client.
- 1.4 If a provision of the present Terms and Conditions of Delivery proves to be wholly or partially invalid, the contracting parties shall replace the aforesaid provision by a new provision which comes as close as possible to the legal and economic intention of the invalid provision.

2. Offers

- 2.1 Our offers shall be subject to change without notice.
- 2.2 Orders shall only be regarded as accepted when they have been confirmed by us in writing.
- 2.3 Illustrations, drawings and all technical details in catalogues and printed material shall be approximate values as customary within the industry. They shall only be binding if specific reference is made to them in the contract. We shall also reserve the right to make technical and design changes after the conclusion of the contract.
- 2.4 Cost estimates, drawings and other documents shall remain our property and shall be subject to copyright protection; they may not be made available to third parties.

3. Regulations in the country of destination

- 3.1 At the latest at the time of the order, the buyer shall draw our attention to the regulations and standards in force in the country of destination relating to the design of the delivered goods and the operation thereof and also to the execution of services.
- 3.2 Our deliveries and services shall comply with the regulations and standards in the country of destination provided the buyer has drawn our attention thereto in accordance with Section 3.1.
- 3.3 The buyer shall duly inform us of any special application features of goods ordered from us if these differ from our general recommendations.

4. Prices

- 4.1 Our prices shall be ex works, net, excluding packaging.
- 4.2 All ancillary costs, e.g. freight, insurance, export, transit, import and other approvals, licenses and authentications, shall be for the account of the buyer. The buyer shall also bear all taxes, charges, customs duty, etc., which are levied in connection with the contract.
- 4.3 We shall reserve the right to make price adjustments if wage rates or material prices change between the date of the order confirmation and the contractual performance of the contract. Price increases shall normally be notified three months in advance. We shall be bound to the price stated in the order confirmation for a period of three months after the effective date of the price increase.

5. Payment terms

- 5.1 Unless otherwise agreed in writing, our invoices shall be payable within thirty days with no cash discount. Payment shall be deemed to have been made when the amount in question is at our unrestricted disposal on our account in Swiss Francs.
- 5.2 Payment dates shall be observed even if any delays whatsoever occur after shipment of the goods from our works. The buyer shall not be permitted to reduce or withhold payments on account of complaints or counterclaims not recognised by us.
- 5.3 Payments shall also be made if insignificant components are missing but usage of the delivered goods is not rendered impossible as a result or if rectification work has to be carried out on the delivery. We shall be entitled to reject rectification of the defect as long as the buyer has not discharged his/its obligations to us.
- 5.4 If the buyer fails to comply with the agreed payment dates, default interest shall be paid from the agreed due date without a reminder being issued; the aforesaid interest shall be based on the interest rates prevailing at the domicile of the buyer, but shall be not less than four percent above the current discount rate of the Swiss Central Bank.
- 5.5 We shall be entitled to make deliveries of pending orders dependent upon settlement of outstanding claims.

6. Reservation of title

- 6.1 Delivered goods shall remain our property (reserved goods) pending full and complete payment of all present and future claims to which we are entitled regardless of their legal cause. This shall also apply if payments are made in settlement of specifically designated claims.
- 6.2 The buyer shall be entitled to process and sell reserved goods in the ordinary course of business.
- 6.3 If our reserved goods are combined or intermingled with other goods, the buyer shall hereby transfer his/its ownership rights in the new goods or chattels to us upon the conclusion of the contract in the amount of the invoice value of the reserved goods.
- 6.4 If the goods are resold by the buyer, he/it shall hereby transfer to us upon the conclusion of the contract with us his/its claims arising from the aforesaid resale in the amount of the invoice value of the reserved goods.
- 6.5 If the reserved goods are used by the buyer to perform a works or works delivery contract, his/its claim from the aforesaid works or works delivery contract shall hereby be assigned to us in the same amount and on the same date as for the purchase price claim (Section 6.4).
- 6.6 As long as he/it is honouring his/its payment obligations, the buyer shall, however, be authorised to collect his/its resale claim which has been assigned to us. He/it may not dispose of such claims by way of assignment to third parties, however. The empowerment of the buyer to collect the claim may be revoked by us at any time. We shall be entitled to notify third party debtors of the assignment. The buyer shall be entitled to provide us with the necessary information and documents in order to enable us to enforce our rights.
- 6.7 If the value of our securities exceeds our total claims by more than 10 %, we shall be obliged to release securities of our choice at the request of the buyer.
- 6.8 The buyer shall inform us immediately of any pledge or other impediment to our property enforced by third parties.
- 6.9 The buyer shall be obliged to collaborate in measures required to protect our title. He/it shall, in particular, empower us upon the conclusion of the contract to make entries or prior notice of the reservation of title at his/its cost in public registers, books and documents, etc., in accordance with the relevant national laws and shall perform all formalities in this respect.
- 6.10 The buyer shall maintain the reserved goods at his/its cost for the duration of the reservation of title and shall insure the said goods against theft, breakage, fire, water and other risks in our favour. He/it shall also take all steps to ensure that our property claims are neither adversely affected nor rescinded.

7. Delivery periods

- 7.1 Delivery periods and deadlines stated by us shall be approximate unless we have given an express written confirmation of a deadline as binding.
- 7.2 Delivery periods shall be deemed to have been met if notification of readiness to deliver has been sent to the buyer before the end of the delivery period.
- 7.3 The delivery period shall be prolonged if details required for the performance of the contract are not received on time or if they are subsequently changed by the buyer.
- 7.4 The delivery period shall also be reasonably prolonged if impediments arise which we cannot avert despite exercise of the necessary care (e.g. major operational disruptions, industrial disputes, delayed or defective deliveries, force majeure, etc.).
- 7.5 If an agreed delivery date is met by more than 14 days, the buyer shall be obliged to set us a reasonable period of grace. The buyer may only withdraw from the contract if our goods have not been delivered by the end of the said period of grace. Compensation claims for non-performance, delayed performance or any consequential losses shall be excluded unless there was gross negligence on our part.

8. Transfer of risk

- 8.1 Unless expressly agreed otherwise in writing, our "ex works" deliveries shall be made in accordance with the international rules on the interpretation of commercial clauses of the International Chamber of Commerce (Incoterms) in the version in force on the date of the order confirmation.
- 8.2 The transfer of risk shall be determined by the aforesaid Incoterms.
- 8.3 Insurance against damages of any kind shall be the responsibility of the buyer.

- 8.4 Complaints in connection with the transport shall be immediately notified by the buyer to the last carrier upon receipt of the delivery.
- 8.5 If despatch is delayed at the request of the buyer or for any other reasons not attributable to us, the risk shall pass to the buyer on the original date envisaged for the "ex works" delivery. We shall be entitled to demand payment from this date onwards.

9. Delivery inspection

- 9.1 The buyer shall be required to inspect deliveries immediately. If the goods do not comply with the order or the delivery note or if visible defects are identified, he/it shall be obliged to notify the aforesaid to us in writing within eight days of receipt. Later complaints shall not be recognised. (Regarding transport damages, cf. Section 8.4)

10. Assembly and operations

- 10.1 The assembly, putting into operation, operation and maintenance of the delivered goods shall be carried out in accordance with our guidelines. They may be executed by our staff or by appropriately trained third parties as agreed with the buyer.
- 10.2 If we require a commissioning certificate for certain product groups, warranty claims for the proper functioning of the equipment can only be enforced if a proper hand-over has been documented by a confirmed commissioning certificate received by us within one month of the hand-over.

11. Warranty

11.1 Warranty period

- 11.1.1 The general warranty period shall be 12 months from the first commissioning but no longer than 18 months from the date on which the relevant goods left our works.
If despatch is delayed for reasons not attributable to us, the warranty shall lapse no later than 18 months after notification of the readiness to deliver.
The general warranty period shall exclude electrical components for which the warranty period shall be 6 months from the first commissioning but no later than 12 months from the date of shipment from our works.
- 11.1.2 We refer to Section 11.6.1 with regard to the warranty period for third party products.
- 11.1.3 The warranty period for components which we have repaired during the warranty period or have delivered as replacement shall be 12 months from the completion of our repair or from the date of the replacement delivery but no longer than the end of a period equivalent to twice the original warranty period as per Section 11.1.1.

11.2 Liability for material, design and workmanship defects

- 11.2.1 The contractual condition of the goods shall be based on the condition upon the transfer of risk.
- 11.2.2 Defects shall be notified to us immediately in writing.
- 11.2.3 We shall be liable for all components which can be shown to have become defective or unusable before the end of the warranty period as a result of defective materials, defective design or defective workmanship, with such components being repaired or replaced ex works immediately at our choice.

11.3 Liability for warranted qualities

- 11.3.1 Warranted qualities shall only be those which are specifically designated as such in the order confirmation or in the relevant specifications.
- 11.3.2 The aforesaid assurance shall apply at the latest until the end of the warranty period. If a taking-over test has been agreed with the buyer, the assurance shall be deemed as performed if proof of the relevant qualities is furnished during the aforesaid test.
- 11.3.3 If the warranted qualities are not performed or only partially performed, the buyer shall be entitled to an immediate rectification. The buyer shall grant us the necessary time and opportunity for this purpose.
- 11.3.4 If the rectification is abortive or only partially successful, the buyer shall be entitled to a reasonable reduction of the purchase price. If the defect is so serious that it cannot be rectified within a reasonable period of time, and if deliveries or services for the notified purpose are not usable or are only usable to a much lesser extent, the buyer shall be entitled to refuse acceptance of the defective component or to withdraw from the contract if part-acceptance is economically unreasonable. We shall only be obliged to refund amounts which have been paid to us for the components affected by the aforesaid withdrawal.

11.4 Exclusion of liability for defects

- 11.4.1 Our liability shall exclude damages which cannot be proved to have been sustained as a result of defective material, defective design or defective workmanship.
- 11.4.2 Damages shall therefore be excluded for example which were caused by
- improper work of other persons with regard to planning, site preparation, assembly, operation and maintenance;
 - plant concepts and designs which do not comply with the latest state of the art;
 - non-observance of our guidelines for planning, assembly, commissioning, operations and maintenance;
 - force majeure (e.g. thunderstorms).
- 11.4.3 The following shall be excluded in particular
- corrosion damages (e.g. as a result of aggressive water, unsuitable water treatment, oxygen intakes, emptying the plant over a longer period of time, falling below the dew point, chemical or electrochemical effects, etc.);
 - damages caused by air pollution (e.g. the accumulation of intense dust, aggressive vapours, etc.);
 - damages caused by unsuitable equipment and fuels;
 - damages caused by overcharging, excessive water pressure, scaling, improper electrical connections and inadequate fuse protection.
- 11.4.4 Components shall also be excluded from the warranty which are subject to natural wear and tear (e.g. burner nozzles, combustion chamber inserts, ignition and monitoring components in contact with fire, fireclay and wall facings, fuses, seals and flexible tubes).
- 11.5 Commissioning certificate
- 11.5.1 We hereby draw attention to the due and proper hand-over and – if envisaged – the commissioning certificate in accordance with Section 10.2 as prerequisites for our warranty.
- 11.6 Deliveries and services of sub-contractors
- 11.6.1 Our liability for third party products which form a major part of the delivered goods (e.g. warehouse and conveying equipment, burners, measuring and control equipment, electrical components, flue gas and waste water cleaning equipment) shall – if permissible – be limited to an assignment of our claims against the suppliers of the said third party products.

12. Exclusion of further liability

- 12.1 The buyer shall have no rights and claims for materials, design and workmanship defects or the lack of warranted qualities unless specifically mentioned in Sections 11.1 to 11.6.
- 12.2 All claims for compensation, reduction in the contract price, rescission of the contract or withdrawal from the contract shall be excluded in particular unless these are specifically mentioned. Under no circumstances shall the buyer have any compensation claim for damages which were not sustained by the delivered goods themselves (e.g. replacement costs, cost for establishing the cause of the damage, expertises, production stoppages, production losses, lost orders, lost profit and other direct or indirect damages). The aforesaid liability exclusion shall not apply in the event of gross negligence on our part.
- 12.3 The exclusion as per Section 12.2 shall apply for all breaches of contract and all claims of the buyer regardless of why they were lodged from a legal point of view. It shall therefore also apply for a breach of any ancillary obligations (e.g. inadequate advice, etc.).

13. Jurisdiction

- 13.1 The place of jurisdiction for the buyer and for us shall be Vaduz. We shall be entitled to bring action against the buyer at his/its domicile, however.
- 13.2 The legal relationship between the parties shall be governed by the substantive laws of Switzerland. The application of the UN convention on contracts for the international sale of goods (CISG) shall be excluded.

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