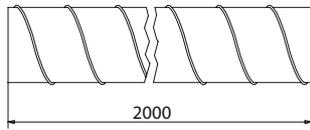


■ Part No.

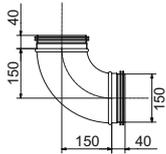


**Pipe system DN 150 of sheet steel**

**Part No.**

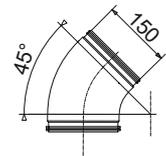
**Spiral-seam tube WFR-150**  
of galvanised sheet steel  
DN 150, length: 2 m

2045 240



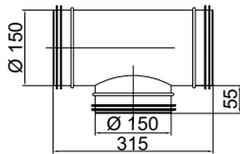
**Pipe bend BU-150-90**  
90° bend of galvanised sheet steel  
with double lip seal  
DN 150

2015 667



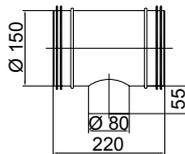
**Pipe bend BU-150-45**  
45° bend of galvanised sheet steel  
with double lip seal  
DN 150

2022 208



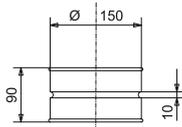
**T-piece TCPU-150-150**  
of galvanised sheet steel  
with double lip seal  
DN 150/ DN 150/ DN 150

2024 255



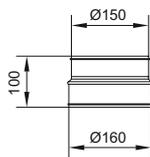
**T-piece TCPU-150-80**  
of galvanised sheet steel  
with double lip seal  
DN 150/ DN 80/ DN 150

2024 257



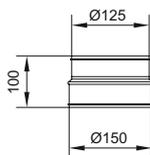
**Sleeve MF-150**  
of galvanised sheet steel  
DN 150

2015 668



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

2024 260



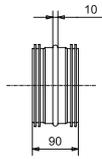
**Reduction/extension M150-N125**  
of galvanised sheet steel  
with double lip seal  
DN 150 sleeve/ DN 125 nipple

2040 384

■ Part No.

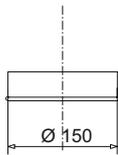
**Pipe system DN 150  
of sheet steel**

**Part No.**



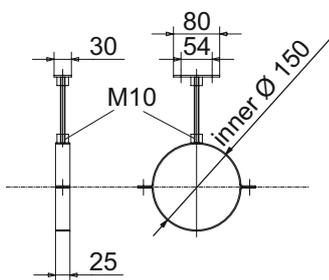
**Nipple NPU-150**  
of galvanised sheet steel  
with double lip seal  
DN150

2015 669



**End cover ED-150**  
of galvanised sheet steel DN150

2023 569



**Pipe clamp ROS-150**  
of galvanised steel  
2-section pipe clamp with insulation  
insert, threaded rod 0.2 m and  
ground plate.  
DN 150

6008 428

**Thermal insulation DN 150**

**Caution:**

Comply with the regional regulations with regard to thermal insulation.



**Thermal insulation tube IS-150-25**  
for spiral-seam tube WFR-150  
made of steam-tight EPDM  
3 tubes of 2 m each  
Insulation thickness: 25 mm

2023 559



**Thermal insulation IB-150-90**  
for pipe bend BU-150-90  
made of steam-tight EPDM  
Insulation thickness: 25 mm

2023 560



**Thermal insulation IB-150-45**  
for pipe bend BU-150-45  
made of steam-tight EPDM  
Insulation thickness: 25 mm

2023 561



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

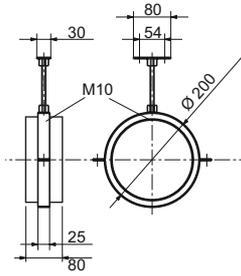
2023 562



**Adhesive tape IKB**  
for thermal insulation  
made of EPDM  
Thickness: 3 mm, width: 50 mm, roll:  
15 m

2023 563

■ Part No.



**Thermal insulation DN 150**

**Part No.**

**Pipe clamp ROSI-200**  
 with thermal insulation sleeve  
 for spiral-seam tube DN 150  
 of galvanised steel  
 2-section pipe clamp with insulation  
 insert and insulation sleeve, threaded  
 rod 0.2 m and ground plate.  
 DN 200

6013 043

**Pipe system DN 150**  
**IsiPipe made of EPP**

Only as supply air and extract air line within  
 the heated building envelope.

**Caution:**  
 Comply with the regional regulations with  
 regard to thermal insulation.



**IsiPipe tubing EPP-150-500**  
 made of steam-tight EPP  
 incl. EPP sleeve  
 DN 150, material thickness: 15 mm,  
 Length: 0.5 m

2045 739



**IsiPipe tubing EPP-150-1000**  
 made of steam-tight EPP  
 incl. EPP sleeve  
 DN 150, material thickness: 15 mm,  
 length: 1 m

2045 740



**IsiPipe pipe bend EPP-150-90**  
 Bend 90°, made of steam-tight EPP  
 incl. EPP sleeve  
 DN 150, material thickness: 15 mm

2045 741



**IsiPipe pipe bend EPP-150-45**  
 Bend 45°, made of steam-tight EPP  
 incl. EPP sleeve  
 DN 150, material thickness: 15 mm

2045 742



**IsiPipe sleeve EPP-150**  
 made of steam-tight EPP  
 DN 150, material thickness: 15 mm

2045 743



**Pipe clamp ROS-X**  
 for IsiPipe  
 of galvanised steel  
 semicircular pipe clamp, cable tie and  
 threaded rod 0.6 m

2045 744

■ Part No.

	<b>IsiPipe Plus pipe system made of EPP</b>	<b>Part No.</b>
	<p><b>IsiPipe Plus pipeline EPP-160-1000</b>                      Thermally insulated pipe                      Material: EPP, wall thickness 43 mm                      Inner Ø 160 mm, outer Ø 246 mm                      Length: 1000 mm incl. sleeve (60mm)</p>	2065 110
	<p><b>IsiPipe Plus pipeline EPP-200-1000</b>                      Thermally insulated pipe                      Material: EPP, wall thickness 43 mm                      Inner Ø 200 mm, outer Ø 286 mm                      Length: 1000 mm incl. sleeve (60mm)</p>	2065 111
	<p><b>IsiPipe Plus pipe bend EPP-160-45°</b>                      Thermally insulated pipe bend 45°                      Material: EPP, wall thickness 43 mm                      Inner Ø 160 mm, outer Ø 246 mm</p>	2065 112
	<p><b>IsiPipe Plus pipe bend EPP-200-45°</b>                      Thermally insulated pipe bend 45°                      Material: EPP, wall thickness 43 mm                      Inner Ø 200 mm, outer Ø 286 mm</p>	2065 113
	<p><b>IsiPipe Plus sleeve EPP-160</b>                      Thermally insulated sleeve                      Material: EPP, wall thickness 43 mm                      l: 80 mm                      Inner Ø 160 mm, outer Ø 286 mm</p>	2065 124
	<p><b>IsiPipe Plus sleeve EPP-200</b>                      Thermally insulated sleeve                      Material: EPP, wall thickness 43 mm                      l: 80 mm                      Inner Ø 200 mm, outer Ø 326 mm</p>	2065 125
	<p><b>IsiPipe Plus ecc. adapter EPP-150-160</b>                      Thermally insulated ecc. adapter                      Material: EPP, eccentric 38 mm l: 250 mm                      Inner Ø 150 mm on IsiPipe Plus 160</p>	2065 126
	<p><b>IsiPipe Plus ecc. adapter EPP-160-160</b>                      Thermally insulated ecc. adapter                      Material: EPP, eccentric 38 mm l: 250 mm                      Inner Ø 160 mm on IsiPipe Plus 160/200</p>	2065 127
	<p><b>IsiPipe Plus ecc. adapter EPP-180-200</b>                      Thermally insulated ecc. adapter                      Material: EPP, eccentric 48 mm l: 250 mm                      Inner Ø 180 mm on IsiPipe Plus 200</p>	2065 128

■ Part No.



**Accessories DN 150**

**Part No.**

**Komfort Plus CB-150-3**  
for tubing DN 150  
guarantees a supply air temperature of 17°C at an outside temperature below -15°C.  
Equipped with overheating protection.  
On-site: flow switch  
Pipe connection: DN 150  
Not suitable for IsiPipe

2045 698



**Control unit UVR 61-3LT**  
for Komfort Plus CB-150-3  
for control of Komfort Plus  
with 2 temperature sensors  
With input for on-site flow monitor signal

2045 700



**Cowl HA-250**  
for spiral-seam tube DN 150  
for outside and exhaust air  
of galvanised sheet steel DN150

2016 219



Front Rear

**Weatherproof grille WG-150**  
for spiral-seam tube DN 150  
for outside and exhaust air  
of aluminium with rain lug, can be painted  
with double lip seal,  
pipe nozzle DN 150

6013 045



**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

■ Part No.

**Accessories DN 150**

**Part No.**



**Sound absorber SD-150-500**  
for spiral-seam tube DN 150  
rectangular casing  
of galvanised sheet steel,  
with double lip seal  
DN 150, dimensions: 290 x 215 mm,  
Length: 0.5 m

2016 224



**Exhaust air nozzle FST-150**  
for spiral-seam tube DN 150  
of galvanised sheet steel  
with bird protection grille  
DN 150  
for horizontal installation

2029 384



**Shut-off damper DTU-150**  
for spiral-seam tube DN 150  
sealed shut-off damper  
for manual operation  
of galvanised steel sheet DN 150

2024 261



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

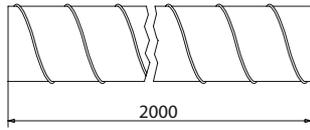
2021 796



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

3000 009

■ Part No.

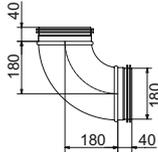


**Pipe system DN 180**

**Part No.**

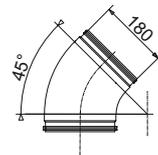
**Spiral-seam tube WFR-180**  
of galvanised sheet steel  
DN 180, 2 m long

2057 030



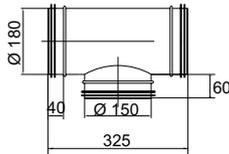
**Pipe bend BU-180-90**  
90° bend of galvanised sheet steel  
with double lip seal  
DN 180

2057 047



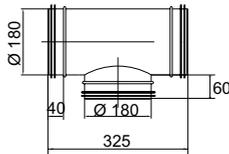
**Pipe bend BU-180-45**  
45° bend of galvanised sheet steel  
with double lip seal  
DN 180

2057 048



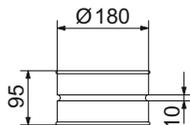
**T-piece TCPU-180-150-180**  
of galvanised sheet steel  
with double lip seal  
DN 180/ DN 150/ DN 180

2057 050



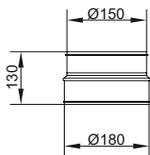
**T-piece TCPU-180-180-180**  
of galvanised sheet steel  
with double lip seal  
DN 180/ DN 180/ DN 180

2057 049



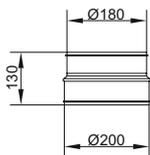
**Sleeve MF-180**  
of galvanised sheet steel  
DN 180

2057 051



**Reduction/extension RCFU-180-150**  
of galvanised sheet steel  
with double lip seal  
DN 180 nipple/ DN 150 nipple

2057 052



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

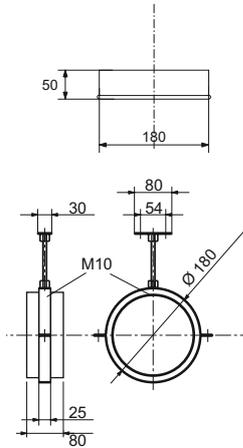
2057 053



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

2057 064

■ Part No.



**Pipe system DN 180**

**End cover ED-180**  
of galvanised sheet steel  
DN 180

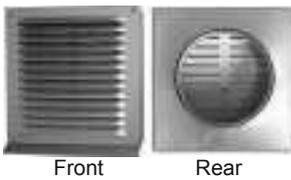
**Part No.**

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 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

2057 068



**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  
DN 180

2057 066



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

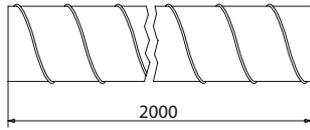
2057 874



**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

■ Part No.

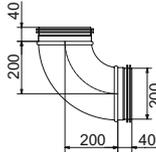


**Pipe system DN 200**

**Part No.**

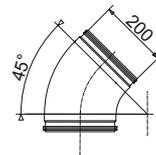
**Spiral-seam tube WFR-200**  
of galvanised sheet steel  
DN 200, length: 2 m

2045 707



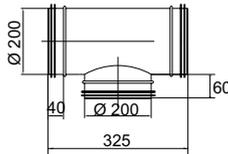
**Pipe bend BU-200-90**  
90° bend of galvanised sheet steel  
with double lip seal  
DN 200

2040 734



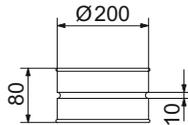
**Pipe bend BU-200-45**  
45° bend of galvanised sheet steel  
with double lip seal  
DN 200

2040 735



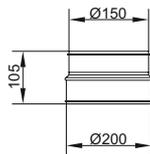
**T-piece TCPU-200-200**  
of galvanised sheet steel  
with double lip seal  
DN 200/ DN 200/ DN 200

2040 736



**Sleeve MF-200**  
of galvanised sheet steel  
DN 200

2040 737



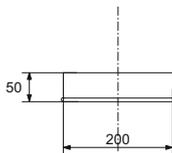
**Reduction/extension RCFU-200-150**  
of galvanised sheet steel  
with double lip seal  
DN 200 nipple/DN 150 nipple

2040 738



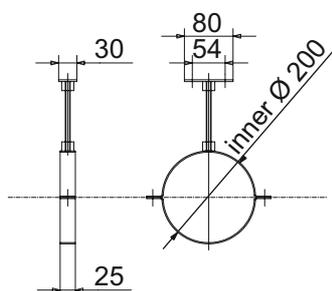
**Nipple NPU-200**  
of galvanised sheet steel  
with double lip seal  
DN 200

2040 739



**End cover ED-200**  
of galvanised sheet steel DN 200

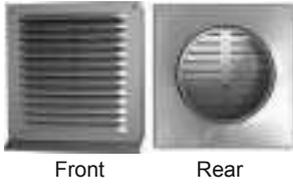
2040 740



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

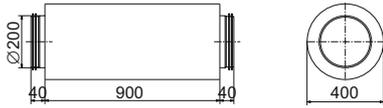
6025 970

■ Part No.



Front

Rear



**Accessories DN 200**

**Part No.**

**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

2040 742

**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 DN 200

2054 221

**Exhaust air nozzle FST-200**

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

2054 220

■ Part No.



**Flexible pipe DN 75**

**Part No.**

**Flexible pipe FR-75**  
 of polyethylene PE-HD  
 smooth inside surface,  
 ribbed outside surface,  
 antistatic coating  
 DN 75, inside diameter: 62 mm,  
 Roll: 50 m

2016 225



**Sealing ring DI-75 black**  
 for flexible pipe DN 75  
 DN 75

2016 227



**Sealing ring DI-75 signal yellow**  
 for flexible pipe DN 75  
 DN 75

5035 763

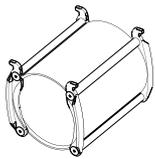


**Sealing ring DI-75 signal blue**  
 for flexible pipe DN 75  
 DN 75

5035 764

**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.



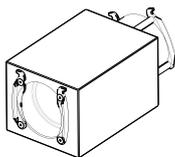
**Double sleeve DM-75**  
 for flexible pipe DN 75  
 for connecting flexible pipes DN 75

6022 896



**Plug ST-75**  
 for flexible pipe DN 75  
 for flexible pipe ending

2016 229



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

6020 756

■ Part No.

**Accessories DN 75**

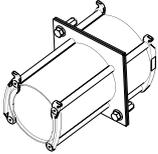
**Part No.**

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 DN 75

6013 047



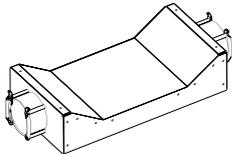
**Formwork coupling SK-75/90**  
for flexible pipe DN 75 and 90 for extending a flexible pipe through the ceiling or the floor and extension from DN 75 to DN 90 without damaging the boarding.

6030 820



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

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: 4.8 x 302 mm**  
As additional protection of the snap clip of the accessories for flex pipe with increased load.  
100 pcs./package  
Colour: natural

2057 027

**Cable tie: 7.6 x 380 mm**  
For attaching flex pipes to the reinforcement.  
100 pcs./package  
Colour: natural

2057 028

**Cable tie: 9.0 x 610 mm**  
For attaching flex pipes to the reinforcement.  
50 pcs./package  
Colour: natural

2057 029

■ Part No.



**Flexible pipes DN 90**

**Part No.**

**Flexible pipe FR-90**  
 of polyethylene PE-HD  
 smooth inside surface, ribbed outside  
 surface  
 antistatic coating  
 DN 90, inner diameter: 75 mm,  
 roll: 50 m

2037 295

**Sealing ring DI-90 black**  
 for flexible pipe DN 90  
 DN 90

5031 311

**Sealing ring DI-90 signal yellow**  
 for flexible pipe DN 90  
 DN 90

5035 765

**Sealing ring DI-90 signal blue**  
 for flexible pipe DN 90  
 DN 90

5035 766

■ Part No.

**Accessories DN 90**

**Part No.**

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.



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

6043 275



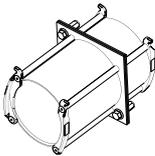
**Double sleeve DM-90**  
for flexible pipe DN 90  
for connecting flexible pipes DN 90

6022 494



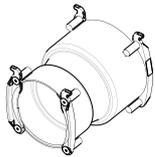
**Plug ST-90**  
for flexible pipe DN 90  
for flexible pipe ending

2037 296



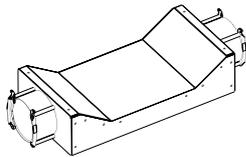
**Formwork coupling SK-90**  
for flexible pipe DN 90 for extending a  
flexible pipe through the ceiling or the  
floor without damaging the boarding  
DN 90

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".

■ Part No.

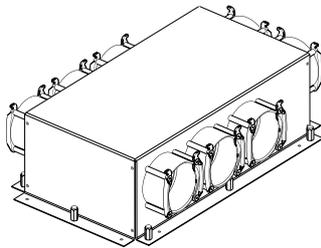
Distributor units DN 150

Part No.

**Application:**  
**Preferably concrete installation**  
**(mass concrete)**

The **distribution box VKA** is used in combination with the **connection plate AP**.

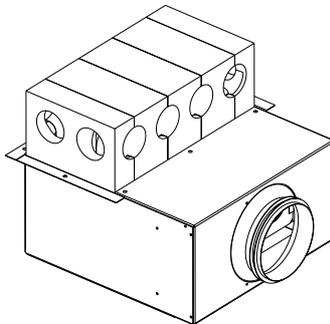
- The connection plate AP is mounted in the ceiling, in the floor or in the wall (set in concrete).
- The distributor unit VKA is then flanged directly on to the connection plate AP when the building shell is completed.



**Connection plate AP to distributor unit VKA**

Casing of aluzinc sheet with x connection nozzles for flexible pipes Ø 75 mm.

Type	Connections	
AP-75x6	6	6012 359
AP-75x8	8	6012 360
AP-75x10	10	6012 361



**Distributor unit VKA to connection plates AP**

Casing of aluzinc sheet with 1 connection nozzle Ø 150 mm for the main duct and flange for connecting with the AP connection plate. PU sound absorption block inside with washable outer skin, access panel and baffles for adjusting the air flow for each flexible pipe Ø 75 mm.

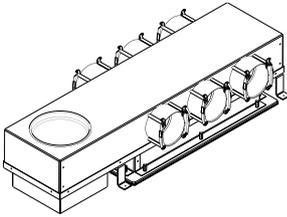
Type	Connections	
VKA-150-75x6	6	6012 356
VKA-150-75x8	8	6012 357
VKA-150-75x10	10	6012 358

■ Part No.

Distributor units DN 150

Part No.

**Application:**  
**Concrete installation**  
**(Mass concrete, filigree concrete floors)**



Access panel on bottom

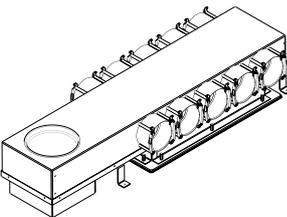
**In-wall distributor unit 6 x Ø X for concrete installation**

Distributor unit of aluzinc sheet for encasing in concrete. With one connection nozzle Ø 150 (upwards and downwards) and 2 x 3 nozzles Ø 90 or Ø 75 (lateral), incl. 2 end covers, 1 spigot Ø 150, inside lining of sound insulation material, access panel paintable on-site and baffles for adjusting the air flow for each flexible pipe Ø 75 mm/90 mm.

Type

UPVK 6 x Ø 75  
 UPVK 6 x Ø 90

6033 915  
 6033 917



Access panel on bottom

**In-wall distributor unit 10 x Ø X for concrete installation**

Distributor unit of aluzinc sheet for encasing in concrete. With one connection nozzle Ø 150 (upwards and downwards) and 2 x 5 nozzles Ø 90 and Ø 75 (lateral), incl. 4 end covers, 1 spigot Ø 150, inside lining of sound insulation material and access panel paintable on-site and baffles for adjusting the air flow for each flexible pipe Ø 75 mm/90 mm

Type

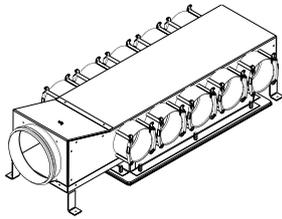
UPVK 10 x Ø 75  
 UPVK 10 x Ø 90

6022 677  
 6022 498

■ Part No.

Distributor units DN 150

Part No.



Access panel on bottom

**Application:**  
**Preferably concrete installation**  
**(mass concrete, filigree concrete)**

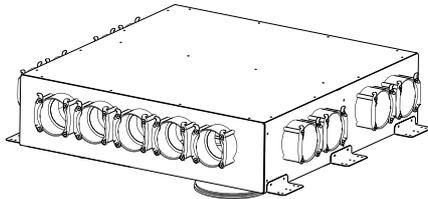
**In-wall distributor unit UPVKS 10 x Ø X for concrete installation**

Distributor unit of aluzinc sheet for encasing in concrete. With one connection nozzle Ø 150 (on face) and 2 x 5 nozzles Ø 90 and Ø 75 (lateral), incl. 4 end covers, 1 spigot Ø 150, inside lining of sound insulation material and access panel paintable on-site and baffles for adjusting the air flow for each flexible pipe Ø 75 mm/90 mm

Type

UPVKS 10 x Ø 75  
 UPVKS 10 x Ø 90

6024 106  
 6024 105



Access panel on bottom

**Distribution box VTB-150 for concrete installation**

Air distribution box from Al/Zn sheet with access panel (can be painted on site). Interior lined with sound insulation material.

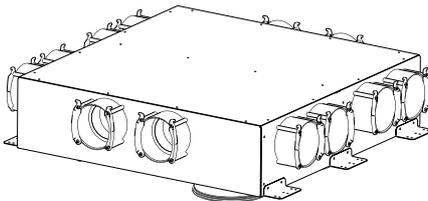
Connection nozzle:  
 2x DN 150 (downward)  
 ZUL 9x75 resp. ABL 9x75  
 ZUL 6x90 resp. ABL 6x90

Consisting of:  
 Box, 6 connection brackets, 4 resp. 2 end caps, orifices for setting the air quantity per flex pipe DN 75 resp. DN 90

Type

VTB-150 9x 75  
 VTB-150 6x 90

6034 486  
 6034 487



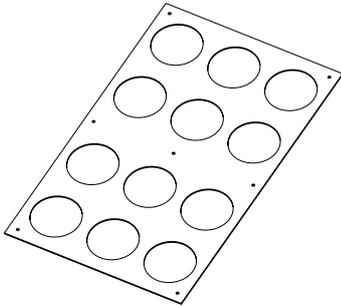
Access panel on bottom

■ Part No.

Distributor units DN 150

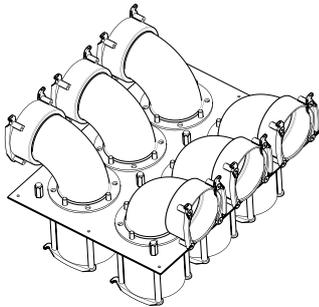
Part No.

**Application:**  
 Preferably concrete installation  
 (mass concrete, filigree concrete)



**Control damper RP 12 x 75**  
 for flexible pipe DN 75  
 Template made from galvanised  
 sheet steel, for flexible pipes  
 DN 75

5037 864



**Section distributor SV-6 x 75**  
 for flexible pipe DN 75  
 for space-saving laying of  
 6 flexible pipes in the ceiling.  
 Option of 6 x 90° bends or 3  
 straight connecting pieces. Each 90°  
 elbow can be turned at 45° increments.  
 6 x DN 75  
 One section distributor required for  
 each supply and exhaust air source.

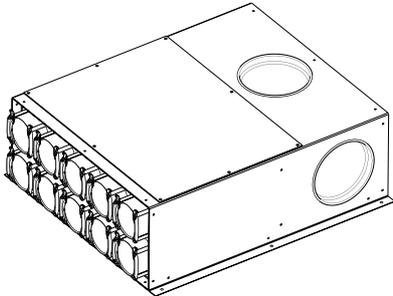
6042 706

■ Part No.

Distributor units DN 150

Part No.

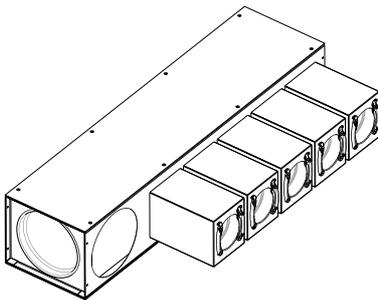
**Application:**  
On-wall installation



**Distributor unit VK**

Casing of aluzinc sheet with 1 connection nozzle Ø 150 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. PU sound absorption block inside with washable outer skin and an access panel. Baffles for adjusting the air flow for each flexible pipe Ø 75 mm.

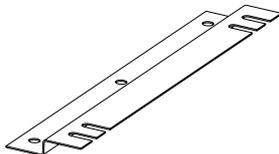
Type	Connections	
VK-150-75x6	6	6033 963
VK-150-75x8	8	6033 964
VK-150-75x10	10	6034 035



**Storey distributor GVT-X**

for connecting X flexible tubes Ø 75 mm. Casing of galvanised sheet steel with sound absorbing mat, connection possibilities Ø 150 mm, incl. 2 nozzles Ø 150 mm with double lip seal. Flexible installation possible due to access panel on both sides. Baffles for adjusting the air flow for each flexible pipe Ø 75 mm.

Type	Connections	
GVT-3	3	6027 743
GVT-4	4	6027 744
GVT-5	5	6027 745
GVT-6	6	6027 746



**Mounting holder MH**

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

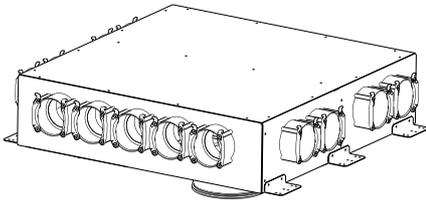
5032 853

■ Part No.

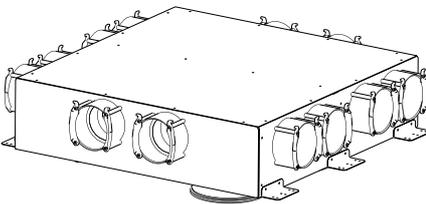
Distributor units DN 180

Part No.

**Application:**  
**Preferably concrete installation**  
**(mass concrete)**



Access panel on bottom



Access panel on bottom

**Distribution box VTB-180**  
 for concrete installation

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

Connection nozzle:

2x DN 180 (downward)

Supply air 9x DN 75 resp. 6x DN 90 (5x resp.

2x side/ 2x front and rear each)

Extract air 9x DN 75 resp. 6x DN 90 (5x resp.

2x side/ 2x front and rear each)

Consisting of:

Box, 6 connection brackets, 4 resp. 2 end caps, orifices for setting the air quantity per flex pipe DN 75 resp. DN 90

Type

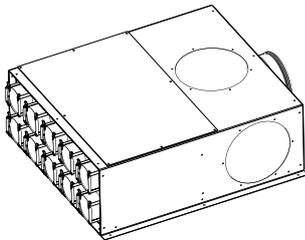
VTB-180 9x 75

VTB-180 6x 90

6037 584

6037 585

**Application:**  
**On-wall installation**



**Distributor unit 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. PU sound absorption block inside with washable outer skin and an access panel. orifices for setting the air quantity per flex pipe Ø 75 resp. 90 mm.

Type Connections

VK-180-75x6

6

6036 603

VK-180-75x8

8

6031 881

VK-180-75x10

10

6035 673

VK-180-75x12

12

6035 674

VK-180-90x6

6

6036 143

VK-180-90x8

8

6031 880

VK-180-90x10

10

6035 675

VK-180-90x12

12

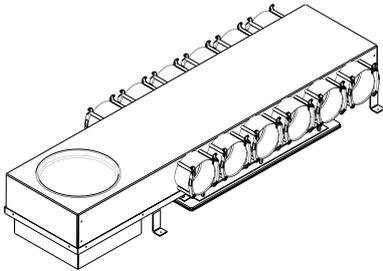
6035 711

■ Part No.

Distributor units DN 200

Part No.

**Application:**  
**Preferably concrete installation**  
**(mass concrete)**



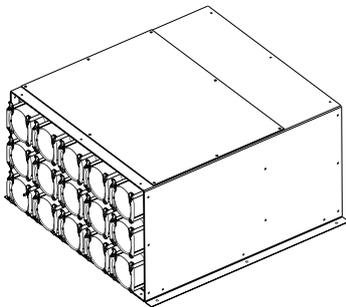
Access panel on bottom

**In-wall distributor unit UPVK 200-90x12**

6030 953

for concrete installation  
 Air distributor unit of aluzinc sheet with access panel (can be painted on site). Lined on the inside with sound absorbing material.  
 Connection nozzles  
 2x DN 200 (downwards/upwards),  
 12 (2 x 6) DN 90 (sideways)  
 Consisting of:  
 distributor unit, 6 end covers,  
 1 spigot DN 200  
 baffles for adjusting the air flow for each flexible pipe DN 90.

**Application:**  
**On-wall installation**



**Distributor unit VK200-75x15**

6030 966

Air distributor unit of aluzinc sheet with access panel. Inside with sound absorption block.  
 Connection nozzles:  
 1 x DN 200 (on the back)  
 15 x (3x5) DN 75 (on the front)  
 Consisting of: distributor unit, baffles for adjusting the air flow for each flexible pipe DN 75.

■ Part No.



**Distributor unit accessories**

**Part No.**

**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



**End cover ED-75**  
 for closing off the connections  
 which are not used.  
 DN 75

2018 804



**End cover ED-90**  
 for closing off the connections  
 which are not used.  
 DN 90

2063 033

**Air grilles - floor**

**Application:**  
**In the floor structure (finished floor)**



**Floor grille BD-30-75**  
 perforated grille made from stainless  
 steel in an adjustable casing  
 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 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 with 3 contact points,  
 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

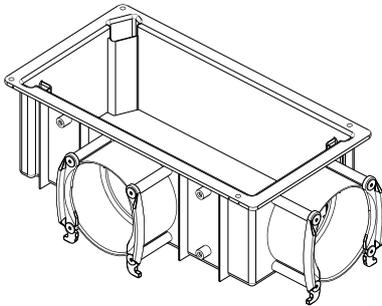
6022 513

■ Part No.

**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.

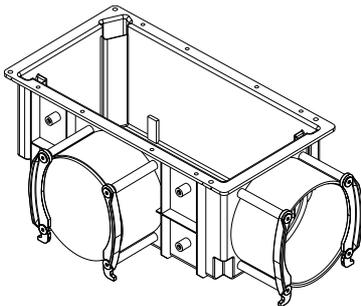
6034 355

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 m<sup>3</sup>/h  
 2 x DN 75 for 40 m<sup>3</sup>/h

Exhaust air:  
 1 x DN 75 up to 30 m<sup>3</sup>/h  
 2 x DN 75 up to 60 m<sup>3</sup>/h

For installation in solid concrete, masonry and plasterboard walls.



**Connection housing AG-90**  
 for supply and extract air in combination with design grilles. Casing allows precise grille alignment (swivelling) after mounting.

6034 357

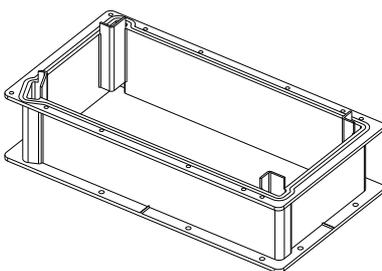
Plastic casing with 2 connection nozzles DN 90, fastening bracket, end cover, sound insulating mat and insert block as building protection cover and plastering aid.

Supply air:  
 1 x DN 90 up to 40 m<sup>3</sup>/h  
 Exhaust air:

1 x DN 90 up to 60 m<sup>3</sup>/h

For installation in solid concrete, masonry and plasterboard walls.

**Application:**  
**Mass concrete**



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

6034 360

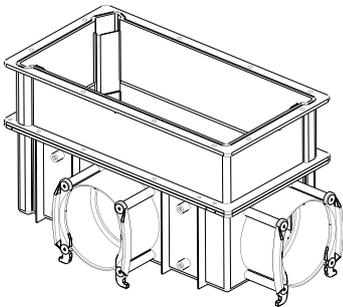
Raising height: 60 mm  
 Extension permits precise grille alignment after installation.

■ Part No.

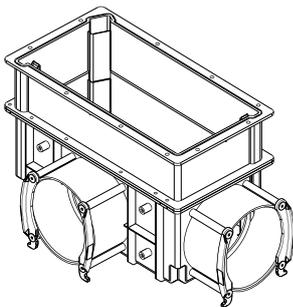
**Air grilles - wall/ceiling**

**Part No.**

**Application:**  
Mass concrete

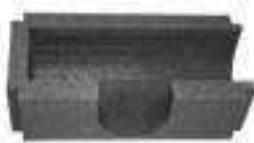


**Connection housing set AGV-60** 6034 356  
 Connection housing AG-60 and extension VAG-60/90 for supply and extract air in combination with design grilles. Set allows precise grille alignment after mounting. Plastic casing with 2 connection nozzles DN 75, fastening brackets, end cover, sound insulating mat and insert block as building protection cover and plastering aid.  
 Supply air:  
 1 x DN 75 up to 30 m<sup>3</sup>/h  
 2 x DN 75 for 40 m<sup>3</sup>/h  
 Exhaust air:  
 1 x DN 75 up to 30 m<sup>3</sup>/h  
 2 x DN 75 up to 60 m<sup>3</sup>/h  
 For installation in solid concrete.



**Connection housing set AGV-90** 6034 358  
 Connection housing AG-90 and extension VAG-60/90 for supply and extract air in combination with design grilles. Set allows precise grille alignment after mounting. Plastic casing with 2 connection nozzles DN 90, fastening brackets, end cover, sound insulating mat and insert block as building protection cover and plastering aid.  
 Supply air:  
 1 x DN 90 up to 40 m<sup>3</sup>/h  
 Exhaust air:  
 1 x DN 90 up to 60 m<sup>3</sup>/h  
 For installation in solid concrete.

**Connection casing accessories**



**Sound insulation insert** 6034 398  
 for connection housing AG-60, AG-90, AGV-60 and AGV-90  
 retrofittable sound insulation insert for acoustically sensitive rooms.  
 Cannot be combined with extract air filter AGF-60/90.



**Extract air filter AGF-60/90** 5033 121  
 for connection housing AG-60, AG-90, AGV-60 and AGV-90  
 of cleanable, fine-mesh polyamide net with plastic frame.  
 Cannot be combined with sound insulation insert.

■ Part No.

**Air grilles - wall/ceiling**

**Part No.**

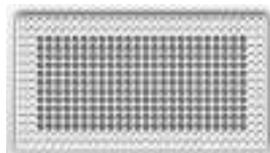
**Plastic supply air/extract air grille**

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



**Design grille Pacific**  
for connection housing AG-60, AG-90, AGV-60 and AGV-90  
Of plastic (white RAL 9016) with plug connection.  
Suitable for:  
supply air up to 40 m<sup>3</sup>/h  
extract air up to 60 m<sup>3</sup>/h  
can be painted on site.

6034 056



**Design grille Adria**  
for connection housing AG-60, AG-90, AGV-60 and AGV-90  
Of plastic (white RAL 9016) with plug connection.  
Suitable for:  
supply air up to 40 m<sup>3</sup>/h  
extract air up to 60 m<sup>3</sup>/h  
can be painted on site.

6034 057



**Design grille Atlantic**  
for connection housing AG-60, AG-90, AGV-60 and AGV-90  
Of plastic (white RAL 9016) with plug connection.  
Suitable for:  
supply air up to 40 m<sup>3</sup>/h  
extract air up to 60 m<sup>3</sup>/h  
can be painted on site.

6034 058

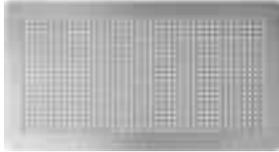
■ Part No.

**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, AG-90,  
AGV-60 and AGV-90  
Of **brushed stainless steel**  
with plug connection.  
Suitable for:  
supply air up to 40 m<sup>3</sup>/h  
extract air up to 60 m<sup>3</sup>/h

6028 142



**Design grille Pizol**  
for connection housing AG-60, AG-90,  
AGV-60 and AGV-90  
**Steel, white stove-enamelled RAL 9016**  
with plug connection.  
Suitable for:  
supply air up to 40 m<sup>3</sup>/h  
extract air up to 60 m<sup>3</sup>/h

6028 155



**Design grille Alvier**  
for connection housing AG-60, AG-90,  
AGV-60 and AGV-90  
Of **brushed stainless steel**  
with plug connection.  
Suitable for:  
supply air up to 40 m<sup>3</sup>/h  
extract air up to 60 m<sup>3</sup>/h

6028 153



**Design grille Alvier**  
for connection housing AG-60, AG-90,  
AGV-60 and AGV-90  
**Steel, white stove-enamelled RAL 9016**  
with plug connection.  
Suitable for:  
supply air up to 40 m<sup>3</sup>/h  
extract air up to 60 m<sup>3</sup>/h

6028 156



**Design grille Sántis**  
for connection housing AG-60, AG-90,  
AGV-60 and AGV-90  
Of **brushed stainless steel**  
with plug connection.  
Suitable for:  
supply air up to 40 m<sup>3</sup>/h  
extract air up to 60 m<sup>3</sup>/h

6028 154



**Design grille Sántis**  
for connection housing AG-60, AG-90,  
AGV-60 and AGV-90  
**Steel, white stove-enamelled RAL 9016**  
with plug connection.  
Suitable for:  
supply air up to 40 m<sup>3</sup>/h  
extract air up to 60 m<sup>3</sup>/h

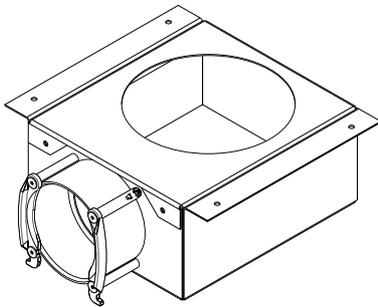
6028 157

■ Part No.

**Air grilles - wall/ceiling**

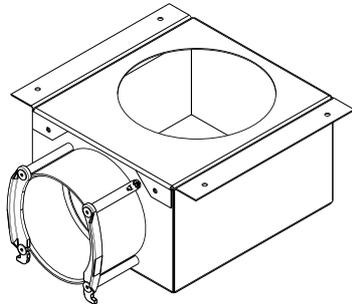
**Part No.**

**Application:**  
Masonry walls, lightweight walls



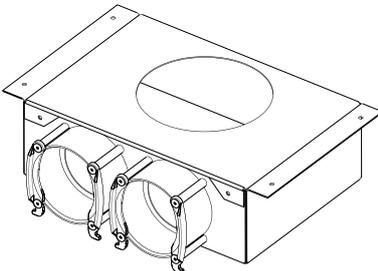
**In-wall connection box UPK-30**  
for disc valve supply air TVZ-125 and  
disc valve extract air TVA-125  
made from galvanised sheet steel  
with 1 connection DN 75,  
building protection cover  
Supply air:  
1 x DN 75 up to 30 m³/h  
Extract air:  
1 x DN 75 up to 30 m³/h

6022 148



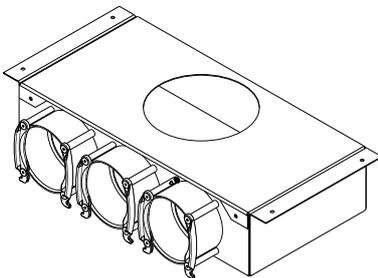
**In-wall connection box UPK-90**  
for disc valve supply air TVZ-125 and  
disc valve extract air TVA-125  
made from galvanised sheet steel  
with 1 connection DN 90,  
building protection cover  
Supply air:  
1 x DN 90 up to 40 m³/h  
Extract air:  
1 x DN 90 up to 60 m³/h

6022 500



**In-wall connection box UPK-60**  
for disc valve supply air TVZ-125 and  
disc valve extract air TVA-125  
made from galvanised sheet steel  
with 2 connections DN 75,  
building protection cover  
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

6022 963



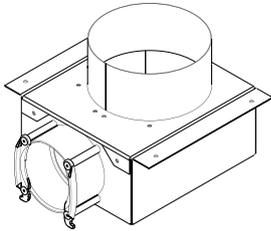
**In-wall connection box UPK-80**  
for disc valve waste air TVA-125  
or disc valve TVZ-125  
made of galvanized sheet steel  
with 3 connections DN 75,  
building protection cover  
Supply air:  
1 x DN 75 to 30 m³/h  
2 x DN 75 to 40 m³/h  
3 x DN 75 to 50 m³/h  
Extract air:  
1 x DN 75 to 30 m³/h  
2 x DN 75 to 60 m³/h  
3 x DN 75 to 70 m³/h

6036 893

■ Part No.

**Air grilles - wall/ceiling**

**Part No.**



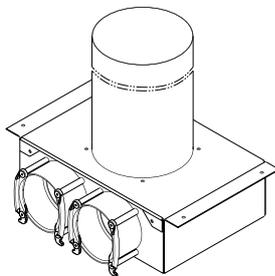
**Application:**  
Filigree blankets

**Filigree ceiling set FDS-125**  
for disc valve supply air TVZ-125 and  
disc valve extract air TVA-125  
made from galvanised sheet steel  
with 1 resp. 2 connections DN 75,  
special DN 125  
collar for filigree ceiling lead-through,  
building protection cover  
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

**Type**

FDS-125 1x 75	6022 682
FDS-125 2x 75	6035 983

**Special application**



**In-wall connection box  
UPK-125 X x75 LN**  
For extract air disc valve TVA-125  
or supply air disc valve TVZ-125  
made from galvanised sheet steel  
with spiral-seam tube DN 125, L = 400 mm  
with 1,2 or 3 connections DN 75, building  
protection cover  
Supply air:  
1 x DN 75 up to 30 m³/h  
2 x DN 75 up to 40 m³/h  
3 x DN 75 up to 50 m³/h  
Extract air:  
1 x DN 75 up to 30 m³/h  
2 x DN 75 up to 60 m³/h  
3 x DN 75 up to 70 m³/h

**Type**

UPK-125 1x 75 LN	6036 493
UPK-125 2x 75 LN	6037 034
UPK-125 3x 75 LN	6035 468

■ Part No.



**Air grilles - wall/ceiling**

**Part No.**

**Supply air/extract air disc valve**

**Disc valve extract air TVZ-125**  
 for connection box UPK and FDS  
 of sheet steel (white RAL 9016)  
 with inst. frame DN 125, height: 45 mm  
 supply air up to 40 m³/h

2056 417

**Disc valve extract air TVA-125**  
 for connection box UPK and FDS  
 of sheet steel (white RAL 9016)  
 with inst. frame DN 125, height: 45 mm  
 extract air up to 60 m³/h

2056 416

**Spigot DN 125**  
 for connection box UPK-60, UPK-90  
 and UPK-30  
 of galvanised sheet steel  
 DN 125, height: 40 mm

2024 180

■ Part No.

**Air grille set - wall/ceiling**

**Part No.**

**Application:**  
Masonry walls, lightweight construction



**Intake air set ZUL-Set-125-75**

6034 429

Connection box UPK-30 with connection nozzle DN 75 and building protection cover, disc valve TVZ-125 with installation frame, T-piece TCPU-150-80 and sleeve MF-150.  
Supply air up to 30 m³/h

**Extract air set ABL-Set-125-75**

6034 053

Connection box UPK-30 with connection nozzle DN 75 and building protection cover, disc valve TVA-125 with installation frame, T-piece TCPU-150-80 and sleeve MF-150.  
Extract air up to 30 m³/h

**Application:**  
Mass concrete



**Supply air set BZK-125-75**

6034 430

for concrete installation  
Connection box UPK-30 with connection nozzle DN 75 and building protection cover, spigot and installation frame, disc valve TVZ-125.  
Supply air up to 30 m³/h

**Extract air set BAK-125-75**

6034 054

for concrete installation  
Connection box UPK-30 with connection nozzle DN 75 and building protection cover, spigot and installation frame, disc valve TVA-125.  
Extract air up to 30 m³/h

**Supply air set BZK-125-90**

6034 431

for concrete installation  
Connection box UPK-90 with connection nozzle DN 90 and building protection cover, spigot and installation frame, disc valve TVZ-125.  
Supply air up to 40 m³/h

**Extract air set BAK-125-90**

6034 055

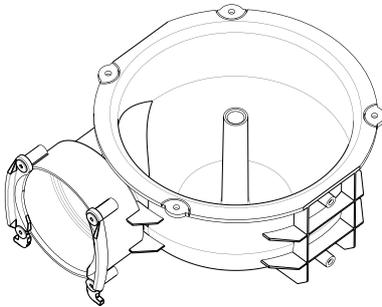
for concrete installation  
Connection box UPK-90 with connection nozzle DN 90 and building protection cover, spigot and installation frame, disc valve TVA-125.  
Extract air up to 60 m³/h

■ Part No.

**Air grilles - wall/ceiling**

**Part No.**

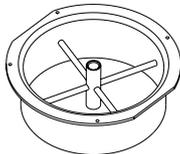
**Application:**  
**Mass concrete, masonry walls, light-weight construction**



**Tangential casing TG-30**  
 for supply and extract air in combination with tangential design grille.  
 Casing of plastic with connection nozzle DN 75, fixing angles and building protection cover.  
 Supply air:  
 1 x DN 75 up to 30 m³/h  
 Extract air:  
 1 x DN 75 up to 30 m³/h

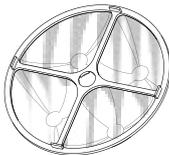
6023 060

**Connection casing accessories**



**Tangential extension TGA**  
 for tangential casing TG-30 for connecting design grille for connection extension which is required for lightweight walls and filigree concrete.

6022 965



**Extract air filter ATG-30**  
 for tangential casing TG-30 and tangential extension TGA of cleanable, fine-mesh polyamide net with plastic frame.

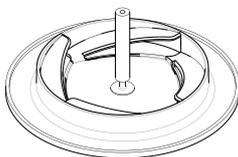
5020 632

**Grilles - supply air/extract air**



**Tangential design grille**  
 for tangential casing TG-30 and tangential extension TGA of plastic (white RAL 9016) with plug connection  
 Suitable for  
 supply air up to 30 m³/h  
 extract air up to 30 m³/h  
 can be painted on site.

6034 059



**Tangential design grille TR-30**  
 for tangential casing TG-30 and tangential extension TGA of plastic (white RAL 9016) with plug connection  
 Suitable for  
 supply air up to 30 m³/h  
 extract air up to 30 m³/h  
 can be painted on site.

6039 998

**Application:**  
**Concrete installation (in-situ concrete)**



**Design slit grille SD-X**  
 With connection box for encasing in concrete. For linear air distribution, consisting of grille of anodised aluminium and the connection box of galvanised steel with 1 connection nozzle Ø X mm.  
 SD-75 air flow up to 30 m³/h  
 SD-90 air flow up to 40 m³/h

6022 515

6022 516

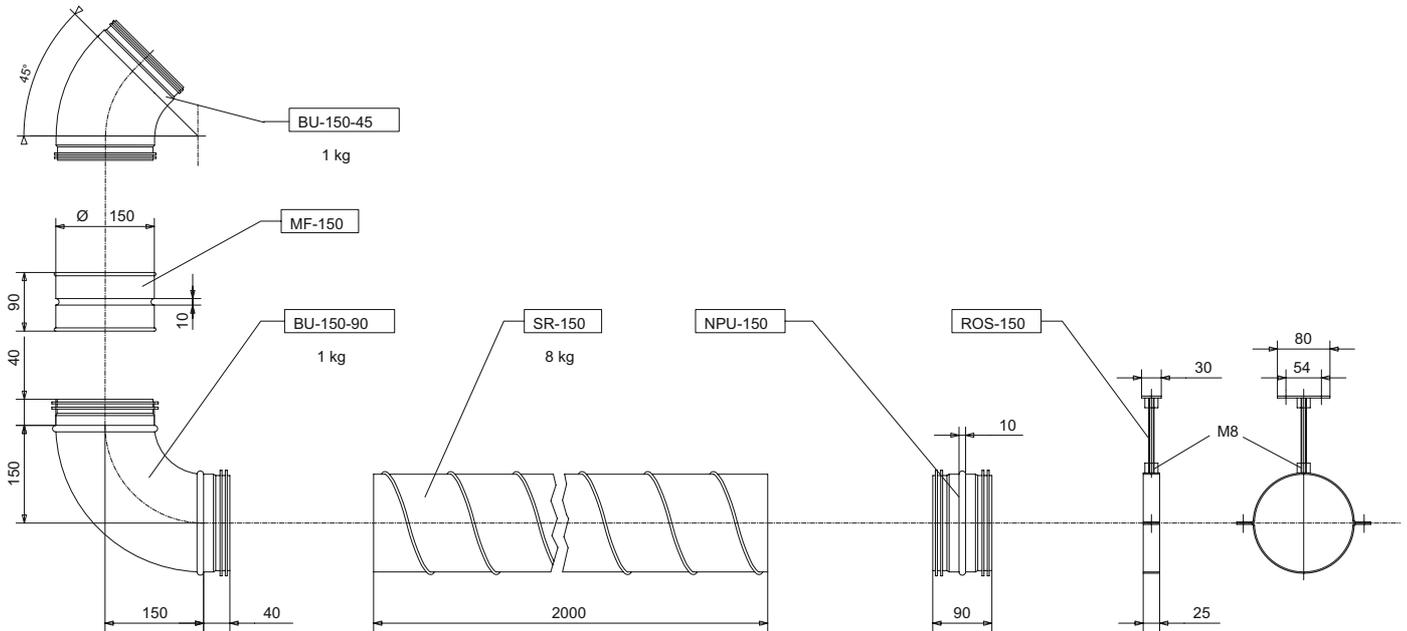


■ Technical data

**Pipe system DN 150**

The pipe system consists of galvanised steel with double lip seal.  
Pipe as per DIN 24145; 0.6 mm thick.

Volume flow [m³/h]	[Pa/m] Pipe	Pressure drop [Pa] 90° elbow	[Pa] 45° elbow
100	0.3	0.7	0.5
150	0.6	1.5	1.0
200	1.0	2.5	1.5
250	1.5	4.0	2.0



**Thermal insulation for main duct DN 150**

The insulation consists of synthetic rubber (closed-cell EPDM with resistant outside skin), insulation thickness 25 mm, black.  
Thermal conductance  $\lambda$  at 0 °C is 0.032 W/mK  
Steam diffusion resistance  $\geq 7000$   
Fire class 5.3 or B1



**Thermal insulation tube:** for spiral-seam tube DN 150 mm, case contains 3 tubes, each with a length of 2 m

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

**Thermal insulation for pipe elbow:** Thermal insulation mat cut to length for pipe elbow (2-part)

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

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

**Attention:** Comply with regional regulations on thermal insulation.

■ Technical data

**IsiPipe and IsiPipe Plus pipe system EPP**

Piping consists of diffusion-tight EPP,

Wall thickness: 15 mm, grey or 43 mm, black

Thermal conductance:  $\lambda = 0.037 \text{ W/mK}$  or  $\lambda = 0.035 \text{ W/mK}$



D1 Pipe	d	L1	D2	D3	D4
150	15	500	180	180	210
150	15	1000	180	180	210
160	43	500	246	203	
160	43	1000	246	203	
200	43	500	286	243	
200	43	1000	286	243	

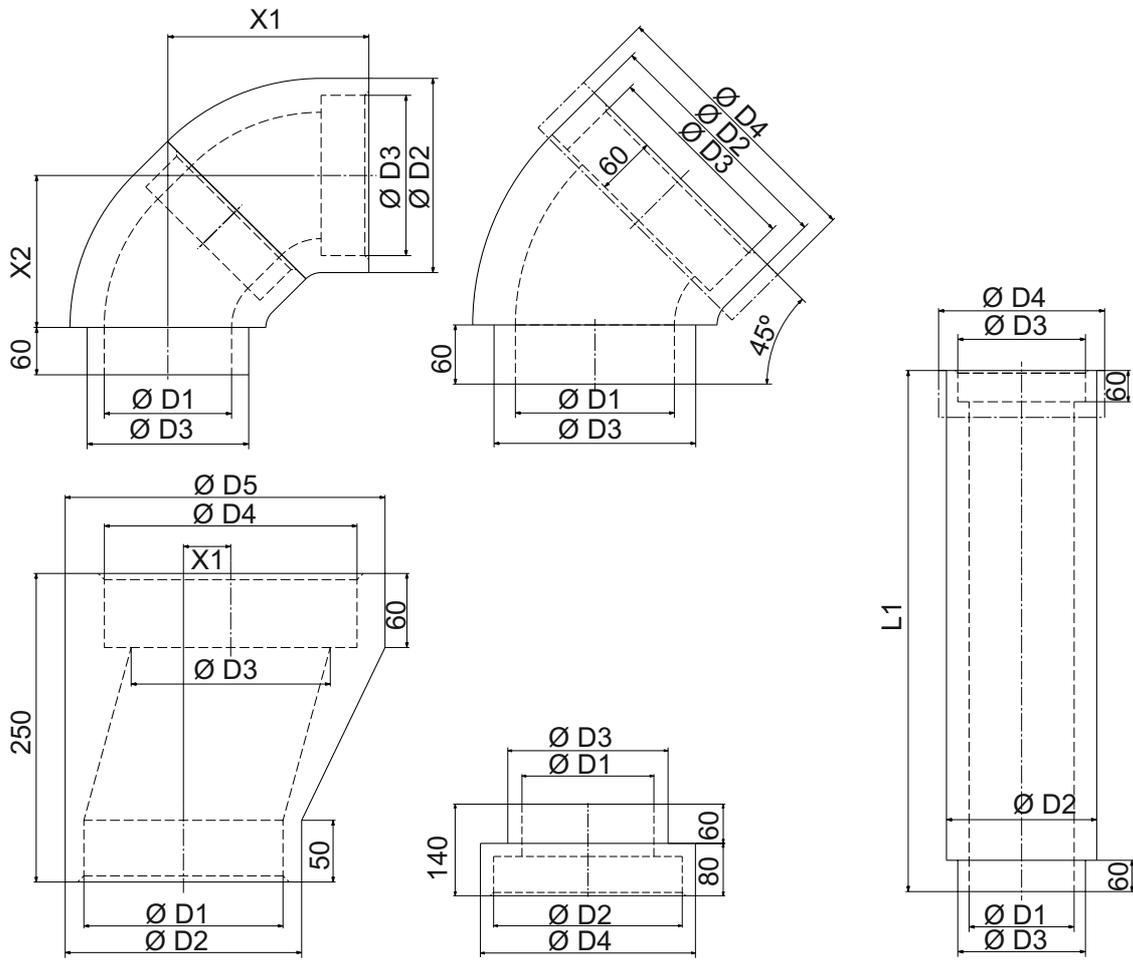
Sleeve	d	L1	D2	D3	D4
150	15	85	180	210	210
160	43	140	246	203	286
200	43	140	286	243	326

D1	d	D2	D3	D4	D5	X1	X2
<b>Elbow bend 45°</b>							
150	15	180	180	210			
160	43	246	203				
200	43	286	243				

D1	d	D2	D3	D4	D5	X1	X2
<b>Elbow bend 90°</b>							
150	15	180	180	210		245	
160	43	246	203			252	192
200	43	286	243			272	212

D1/D2	d	D2	D3	D4	D5	X1
<b>Eccentric adapter</b>						
150/160	43	180	160	203	257	38
160/160	43	190	160	203	257	38
180/200	43	210	200	243	290	48

d = thickness of material in mm  
Heat conductivity 0.035 W/mK  
Dimensions in mm

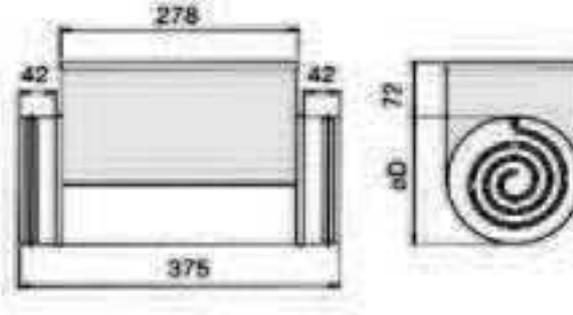


■ Technical data

**Komfort Plus CB-150-3**

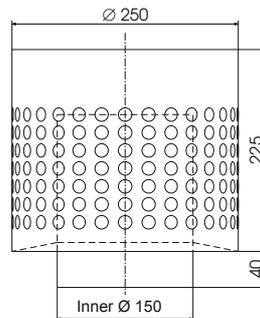
for tubing DN 150 (Supply air duct)  
 guarantees a supply air temperature of 17°C at  
 an outside temperature below -15°C. Equipped  
 with overheating protection.

On site: flow monitor  
 Pipe connection: DN 150  
 Heat output up to a maximum of 600 W.  
 Weight: 3.2 kg  
 Not suitable for IsiPipe pipeline.



**Cowl HA-250**

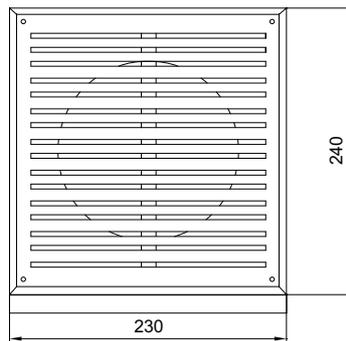
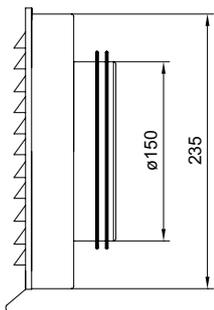
for spiral-seam tube DN 150  
 for outside and exhaust air  
 of galvanised sheet steel  
 Installation position: vertical



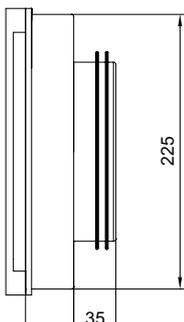
Volume flow [m³/h]	Pressure drop Outside air [Pa]	Pressure drop Exhaust air [Pa]
150	10	5
200	18	9
250	28	15

**Weatherproof grille WG-150**

for spiral-seam tube DN 150  
 for outside and exhaust air  
 of aluminium with rain lug, can be  
 painted  
 with double lip seal,  
 pipe nozzle DN 150



Volume flow [m³/h]	Pressure drop Outside air [Pa]	Pressure drop Exhaust air [Pa]
150	7	7
200	12	15
250	18	24

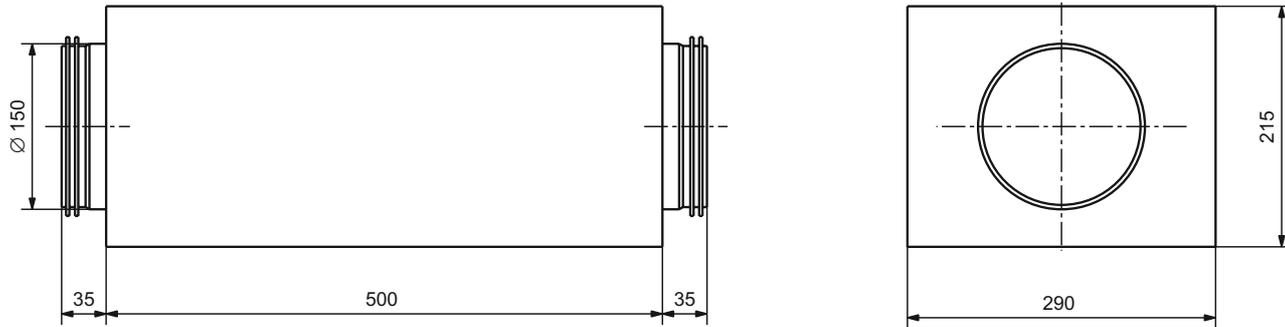


■ Technical data

**Silencer SD-150-500**

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.

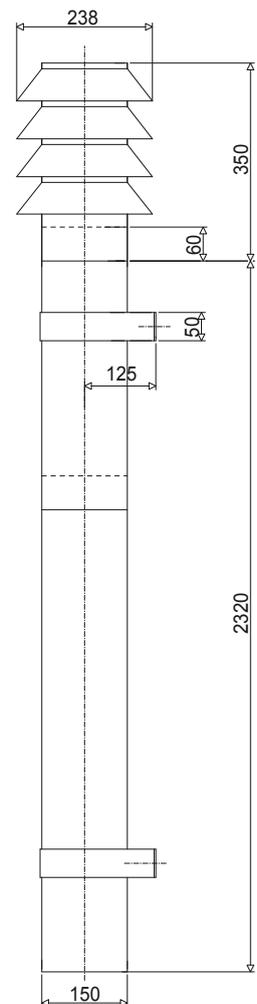
Frequency [Hz]	125	250	500	1000	2000	4000	8000
Damping [dB]	6	10	19	23	32	25	16



**Outside air intake set AAS-150**

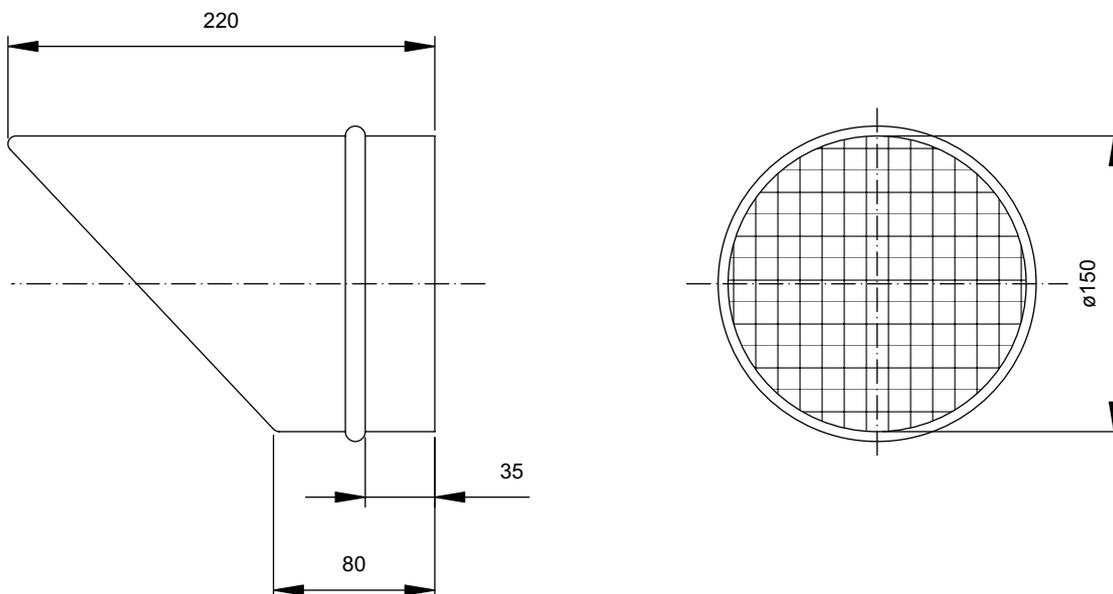
for spiral-seam tube DN 150, galvanic isolation of the connection for outside and exhaust air of stainless steel, lamella cowl, 1 pipe DN 150, length: 0.5 m, 2 pipes DN 150, length: 1 m and 2 wall mountings

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



**Exhaust air nozzle FST-150**

for spiral-seam tube DN 150 of galvanised sheet steel with bird protection grille DN 150 for horizontal installation

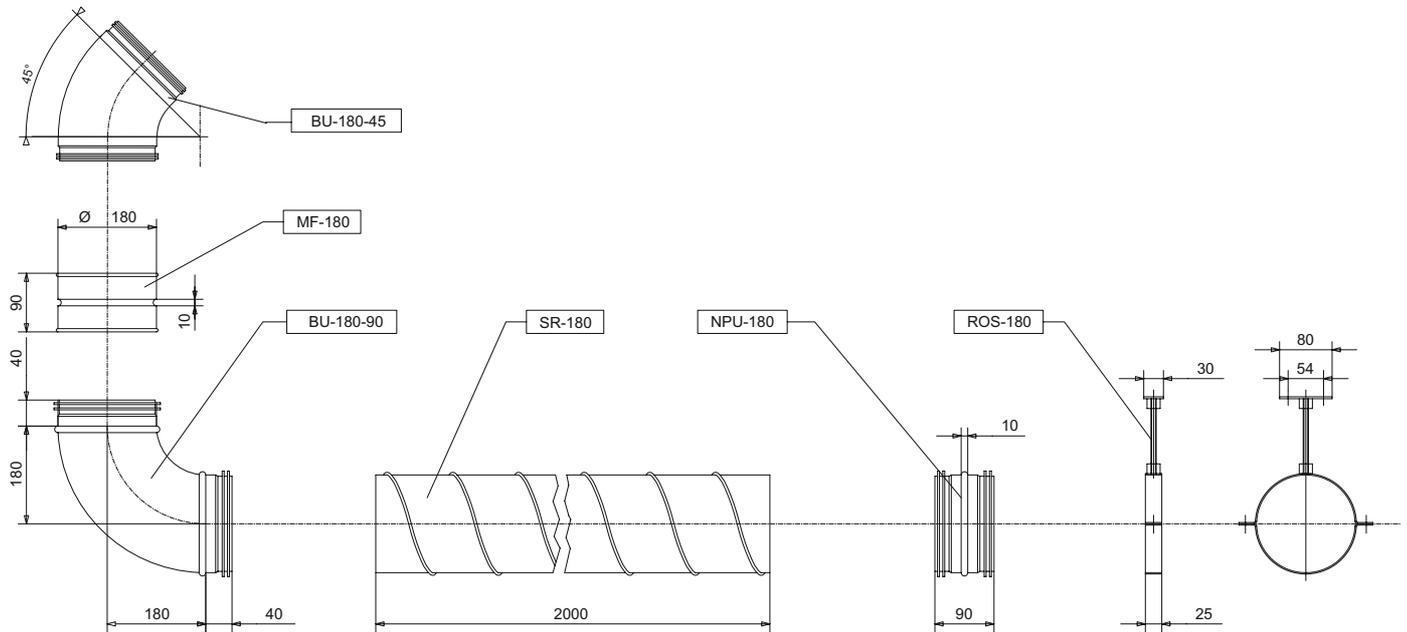


■ Technical data

**Pipe system DN 180**

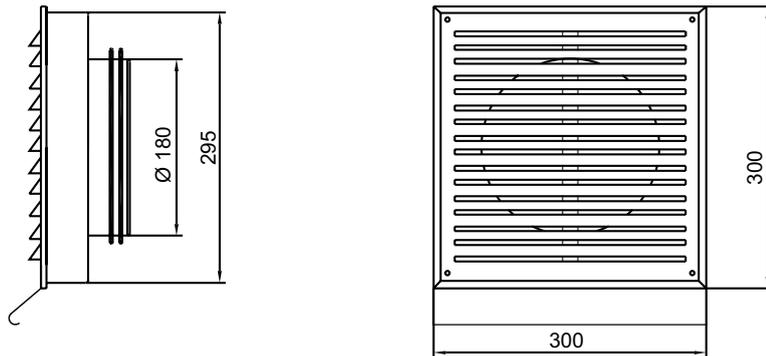
The pipe system consists of galvanised steel with double lip seal.  
Pipe 0.5 mm thick.

Volume flow [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

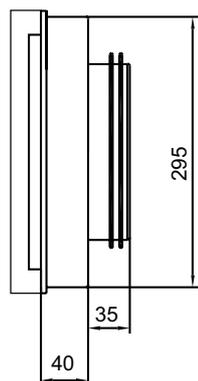


**Weatherproof grille WG-180**

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



Volume flow [m³/h]	Pressure drop [Pa]
150	6
250	9
350	13

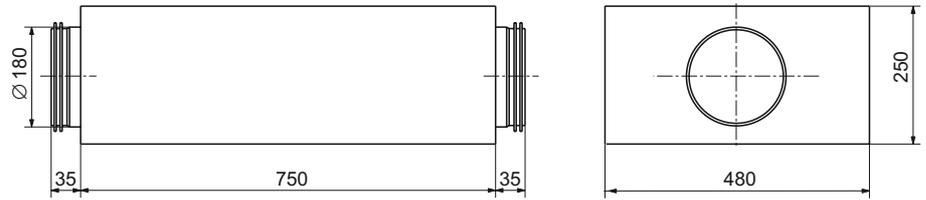


■ Technical data

**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.

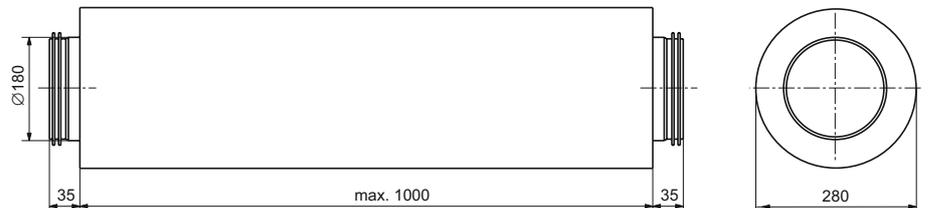
Frequency [Hz]	125	250	500	1000	2000	4000	8000
Simple damping [dB]	4	11	12	12	12	7	3



**Silencer FLSDA-180-1000**

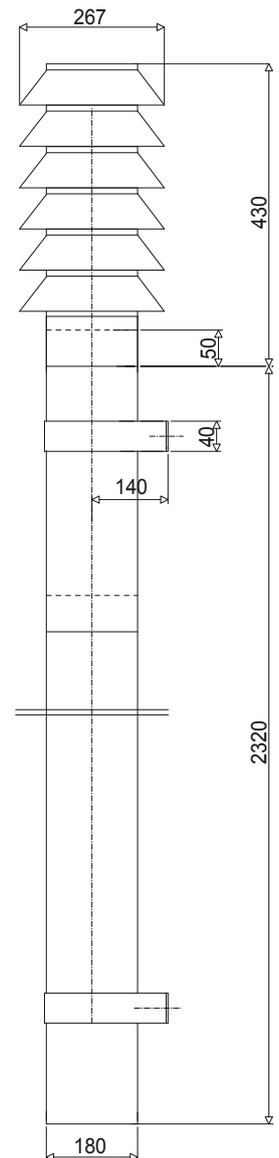
The silencer consists of a flexible aluminium envelope tube, inside from perforated aluminium tube with connection nozzles on both sides with double lip seal.

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



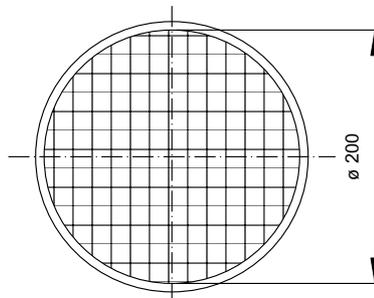
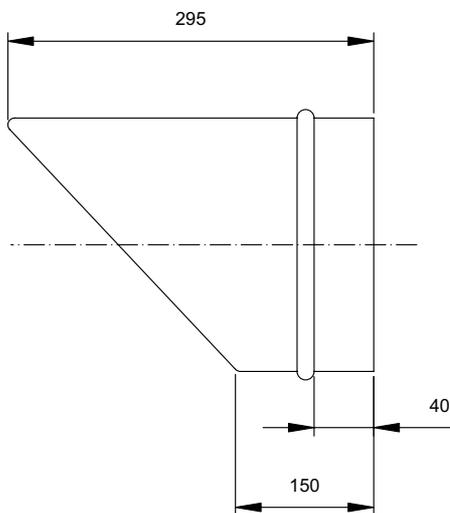
**Stainless steel cowl AAS-180**

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



**Exhaust air nozzle FST-180**

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

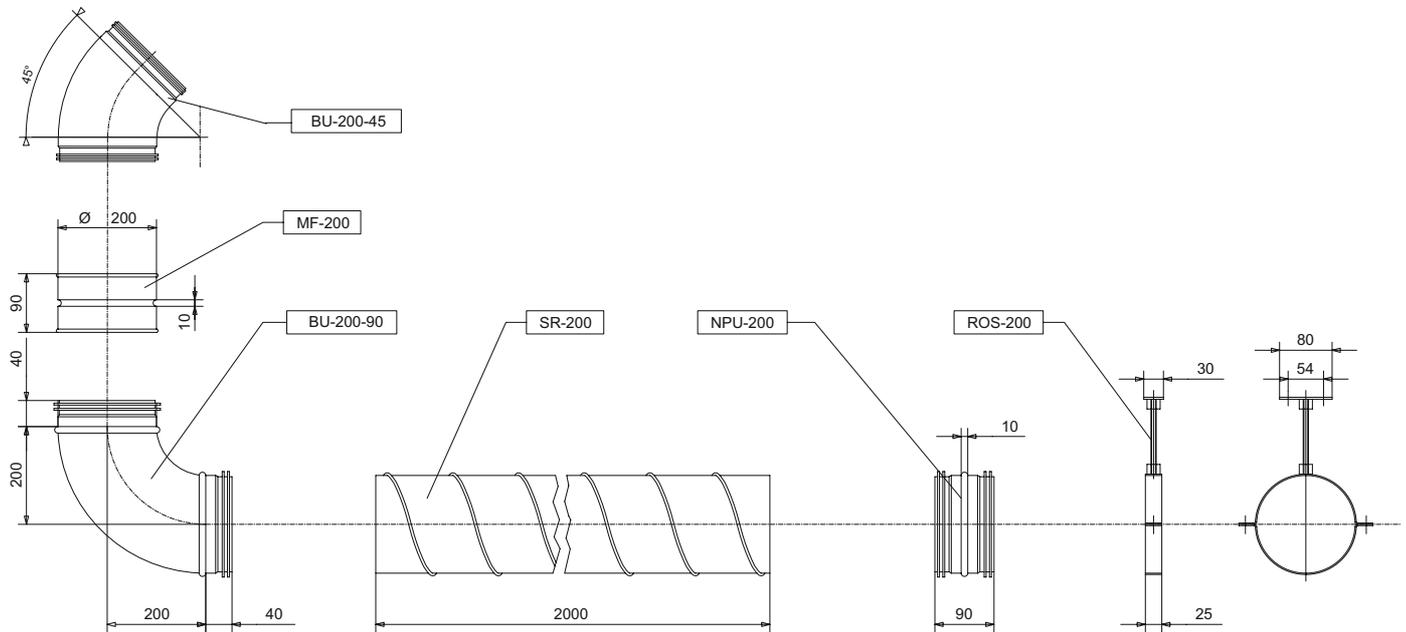


■ Technical data

**Pipe system DN 200**

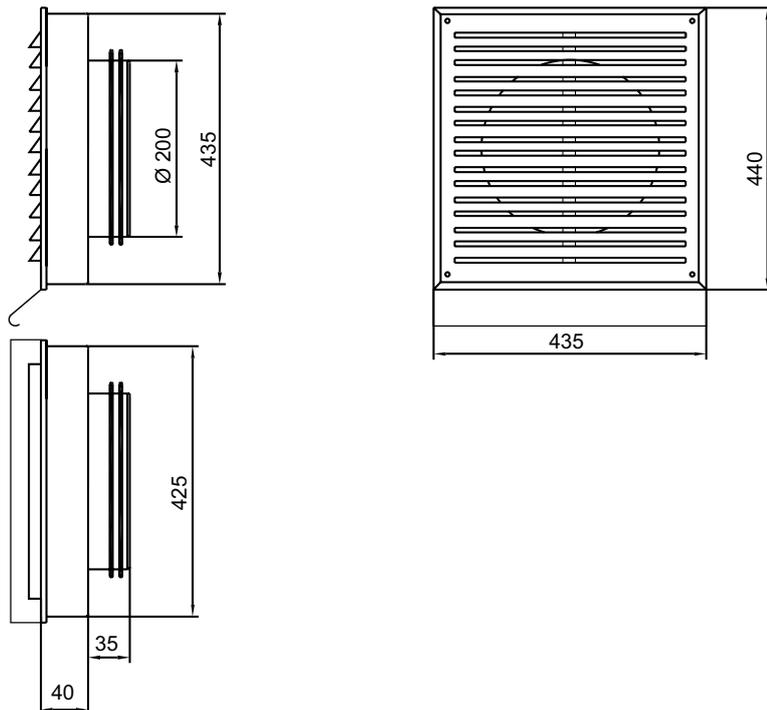
The pipe system consists of galvanised steel with double lip seal.  
Pipe as per DIN 24145; 0.6 mm thick.

Volume flow [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



**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



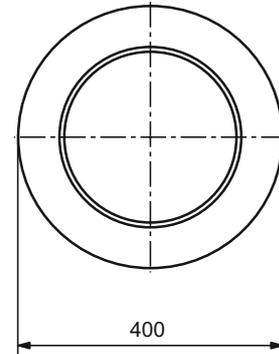
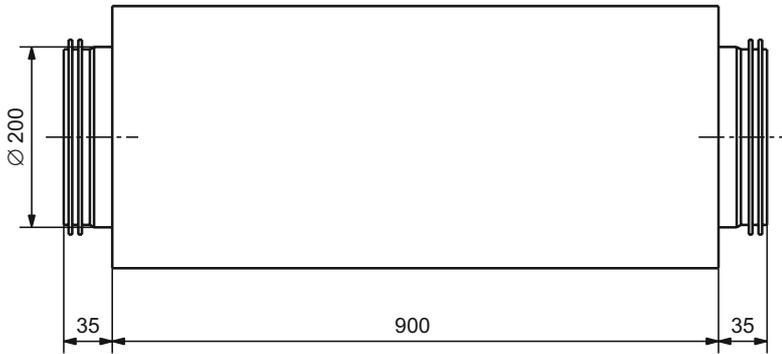
Volume flow [m³/h]	Pressure drop [Pa]
150	4
350	8
500	12

■ Technical data

**Silencer SD-200-1000**

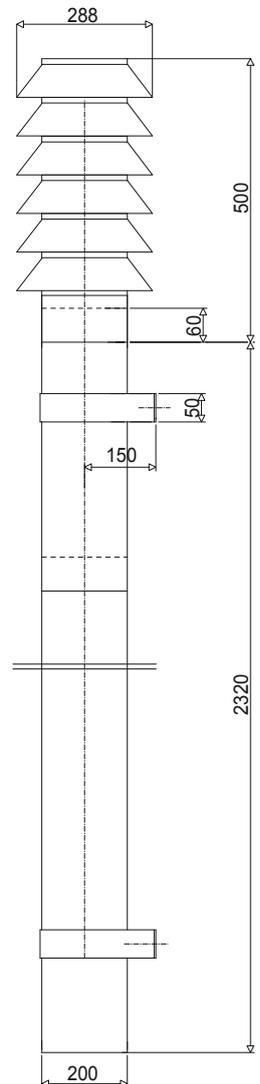
The silencer consists of a round casing of galvanised steel with connection nozzles on both sides. The housing is lined on the inside with highly effective sound absorbing material. The unit can be cleaned through the pipe nozzle.

Frequency [Hz]	125	250	500	1000	2000	4000	8000
Damping [dB]	5	15	26	26	19	10	5



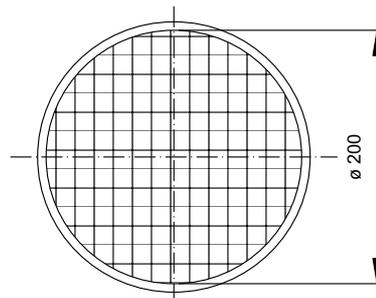
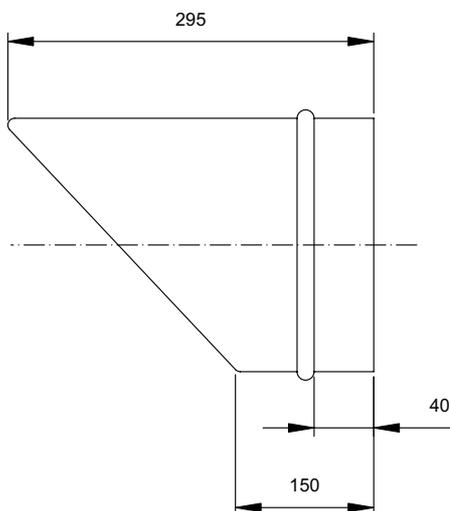
**Stainless steel cowl AAS-200**

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



**Exhaust air nozzle FST-200**

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



■ Technical data

**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.

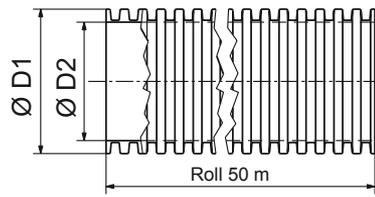
Antistatic coating

Weight 0.33 kg/m

Application limit: Air and ambient temperature -25...60 °C

Pipe system	Volume flow [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

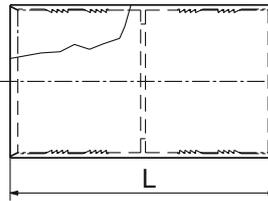
Flexible pipe FR



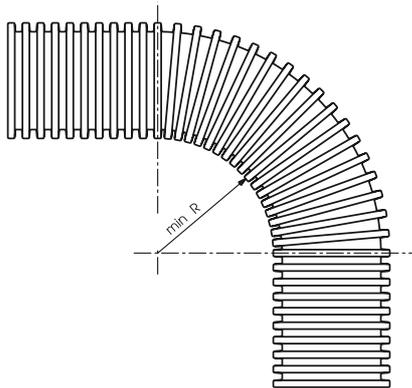
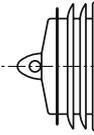
Sealing ring DI



Double sleeve DM



Stopper ST

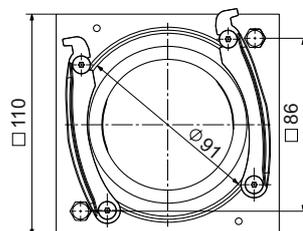
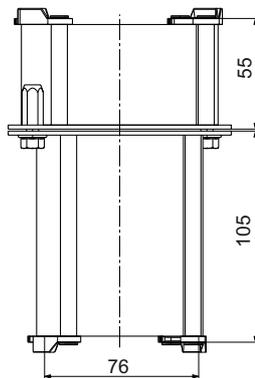


Pipe system	D1 [mm]	D2 [mm]	L [mm]	R
DN 75	75	62	100	75
DN 90	90	76	100	90

**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.

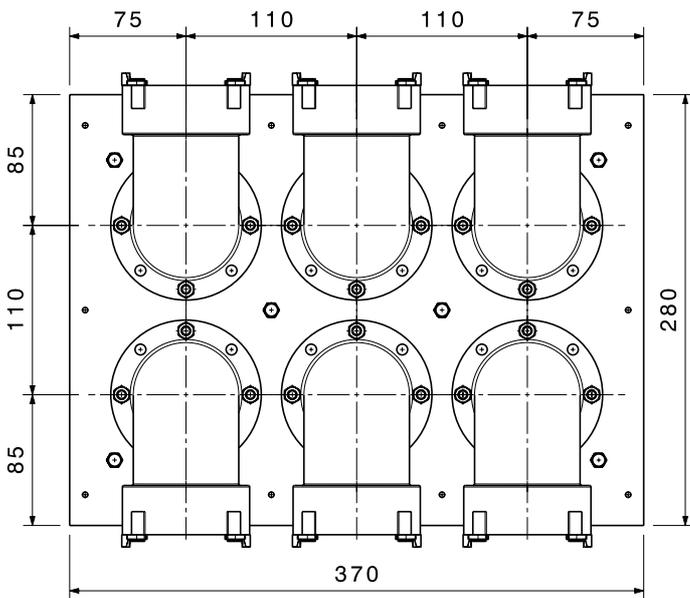
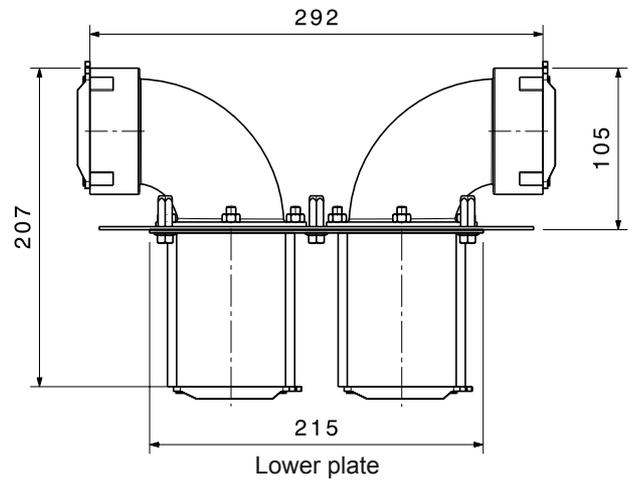
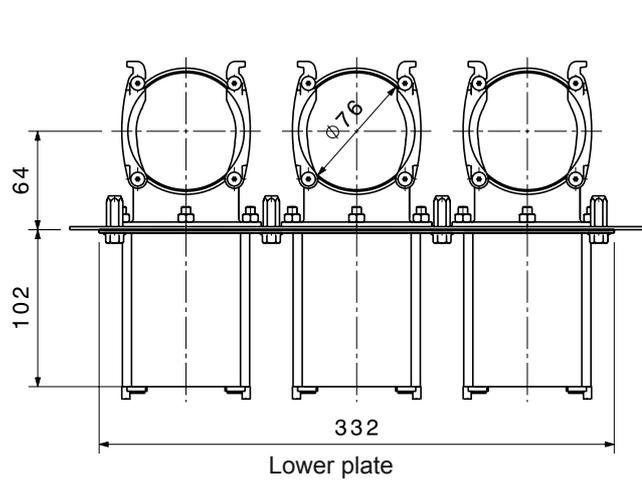


■ Technical data

**Section distributor SV-6x75**

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°.

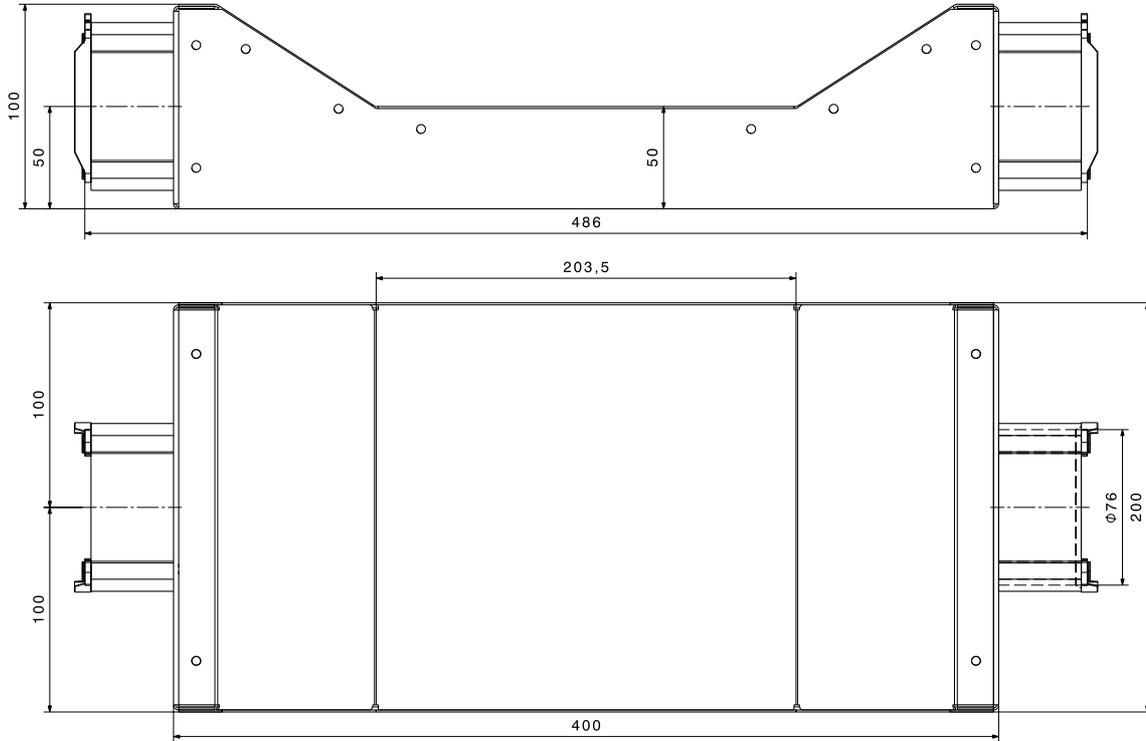
After completion of the building shell, the lower distributor plate is fitted and the flexible pipes FR-75 are simply connected up. The inside of the 90° nozzles is rounded to allow easy cleaning of the ducts.



■ Technical data

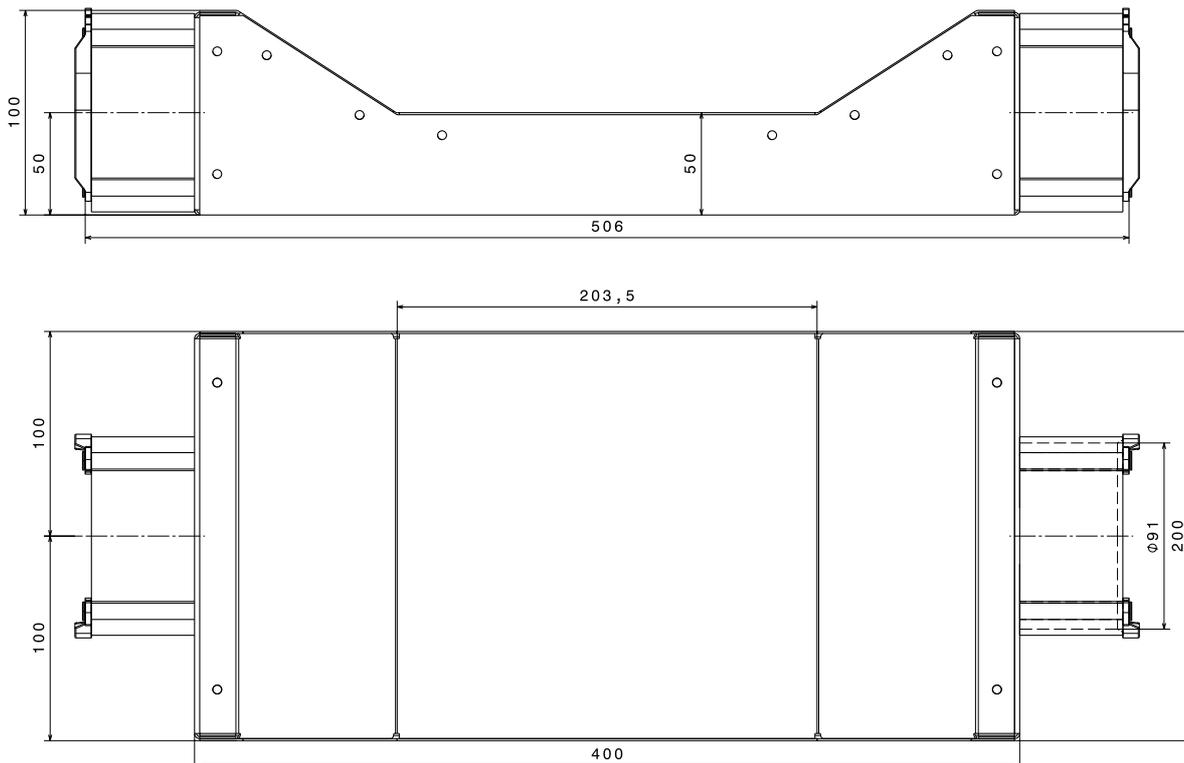
**Flexible pipe crossing FRK-75**

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.



■ Technical data

**Distributor units DN 150**

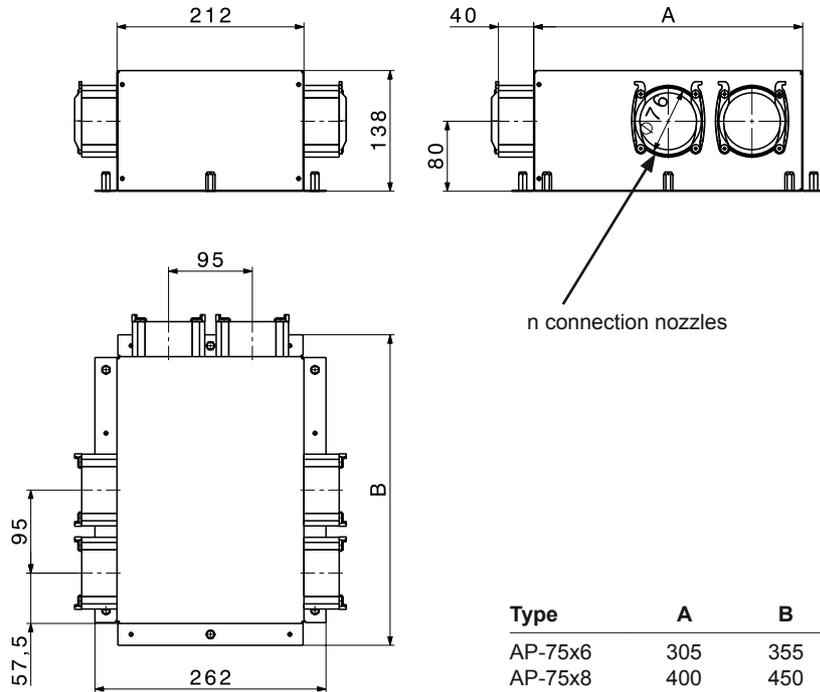
**Central distributor unit for 6, 8 or 10 connections VKA-150-75-X with AP-75-X**

This distributor unit with an integrated silencer is used if the pipes can be arranged and laid centrally.

Orifices for setting the air quantity per flex pipe DN 75 or DN 90 (included in the scope of delivery).

Type VKA is used in combination with the connection plate AP. The connection plate is mounted in the ceiling, in the floor or in the wall (inside masonry). The distributor unit is flanged onto this connection plate after the building shell is completed.

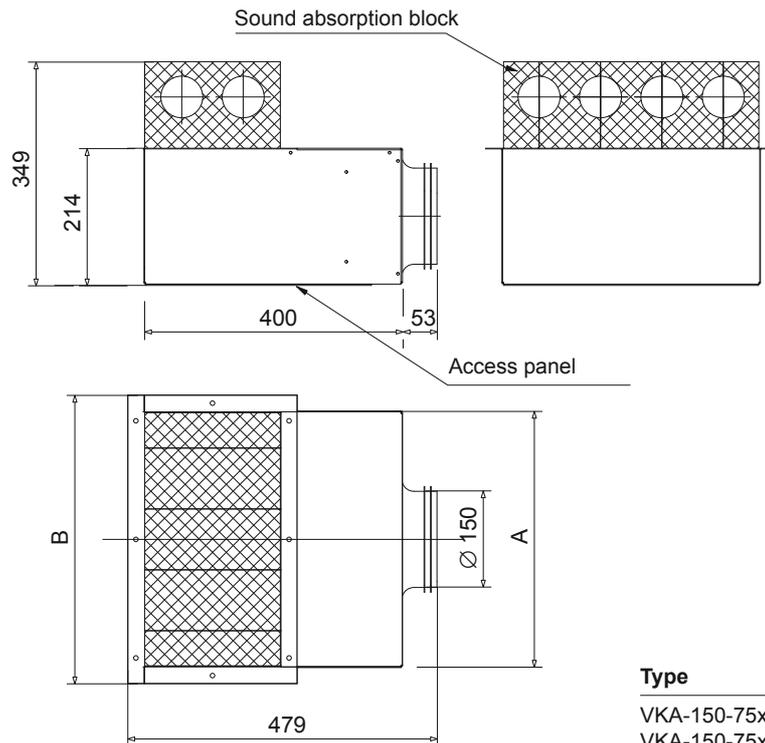
Access panel AP



Dimensional drawing of connection plate

Type	A	B	n
AP-75x6	305	355	6
AP-75x8	400	450	8
AP-75x10	495	545	10

**Distributor unit VKA-150**



Type	A	B
VKA-150-75x6	305	355
VKA-150-75x8	400	450
VKA-150-75x10	495	545

■ Technical data

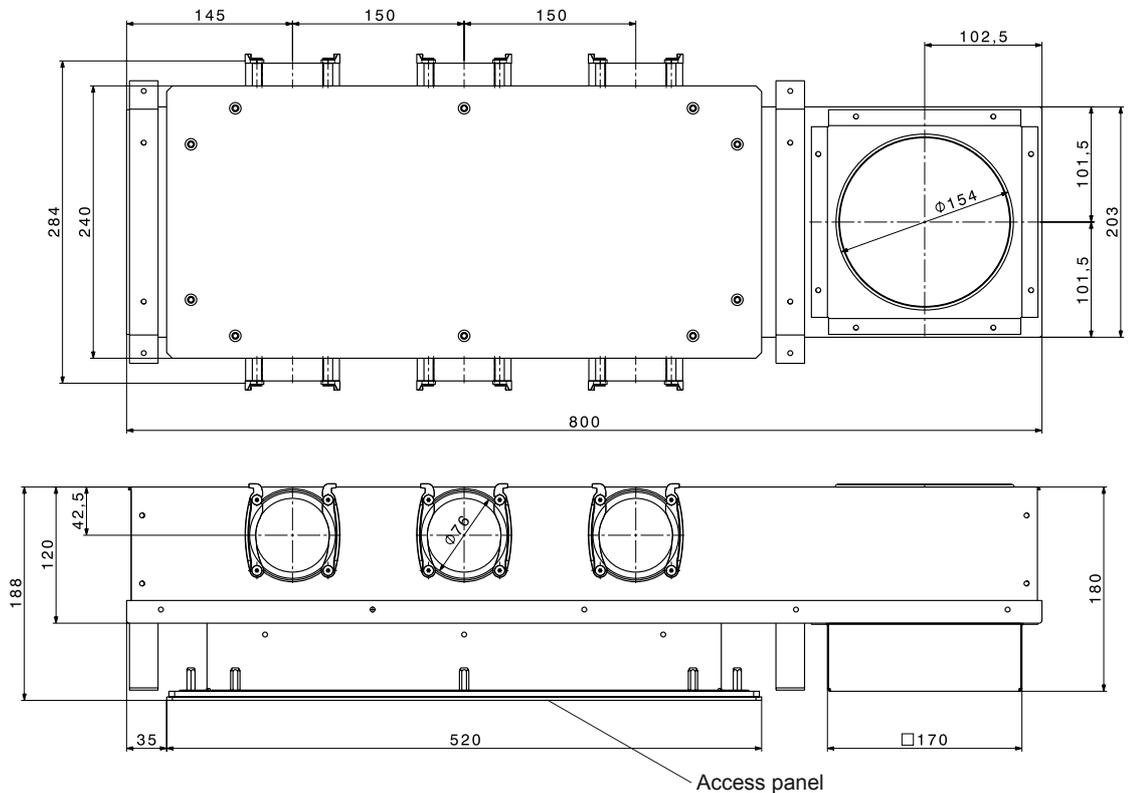
**Distributor units DN 150**

**In-wall distributor unit 6 x DN X**

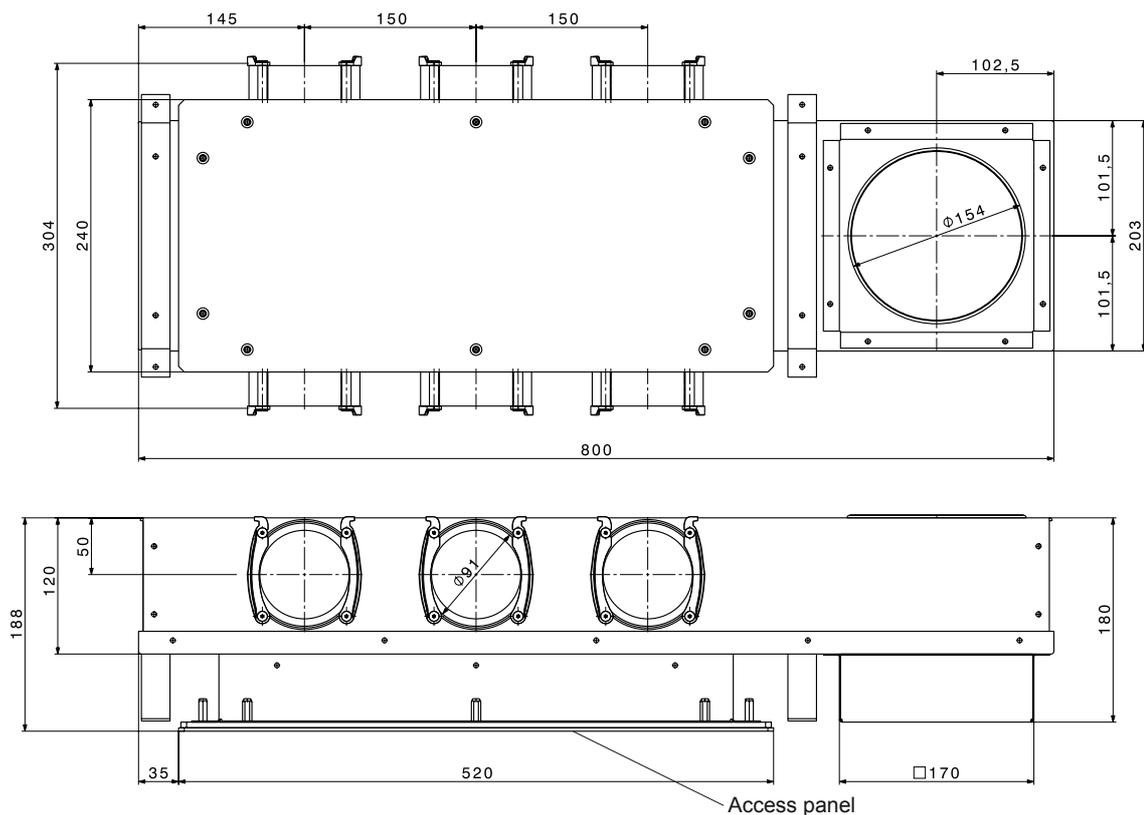
for concrete installation

Distributor unit of aluzinc sheet. With one connection nozzle DN 150 (upwards and downwards) and 2 x 3 nozzles DN 90 and DN 75 (lateral), incl. 2 end covers, 1 spigot DN 150, inside lining of sound insulation material, access panel paintable on-site and orifices for setting the air quantity per flexible pipe DN 75 or DN 90 (included in the scope of delivery).

**UPVK 6 x 75**



**UPVK 6 x 90**



■ Technical data

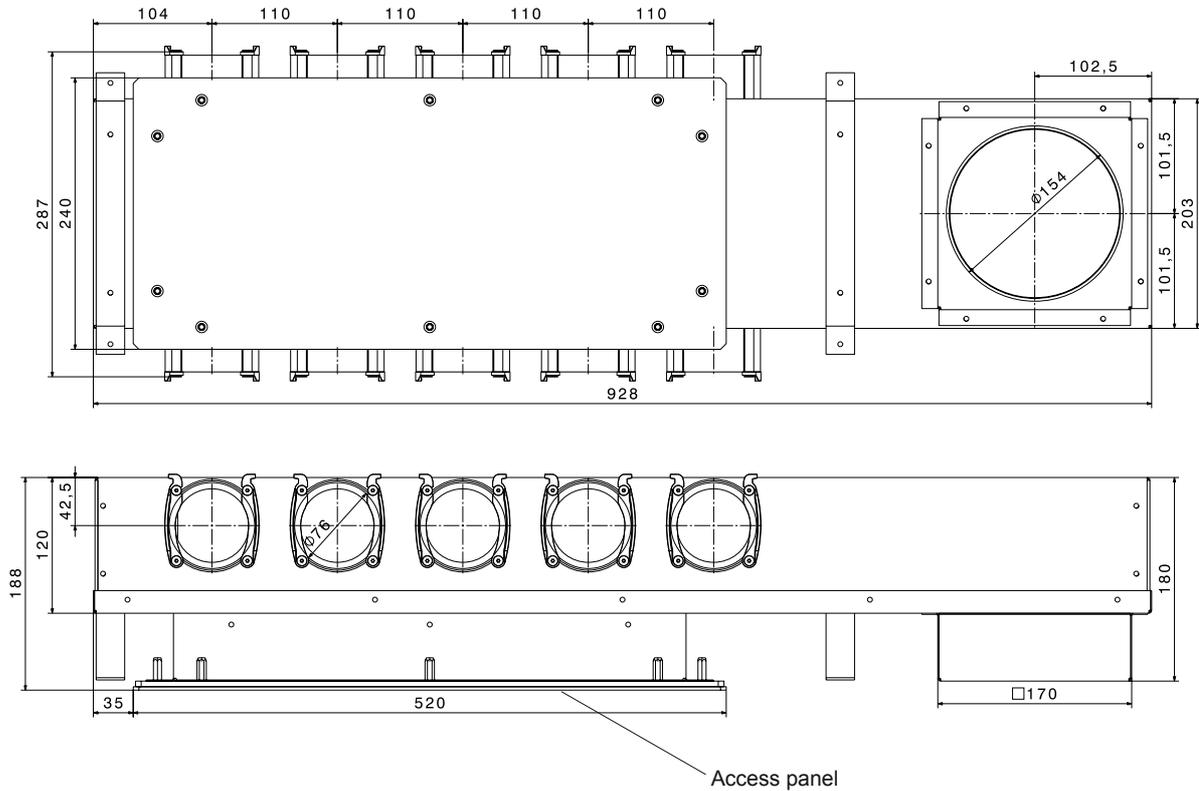
**Distributor units DN 150**

**In-wall distributor unit 10 x DN X**

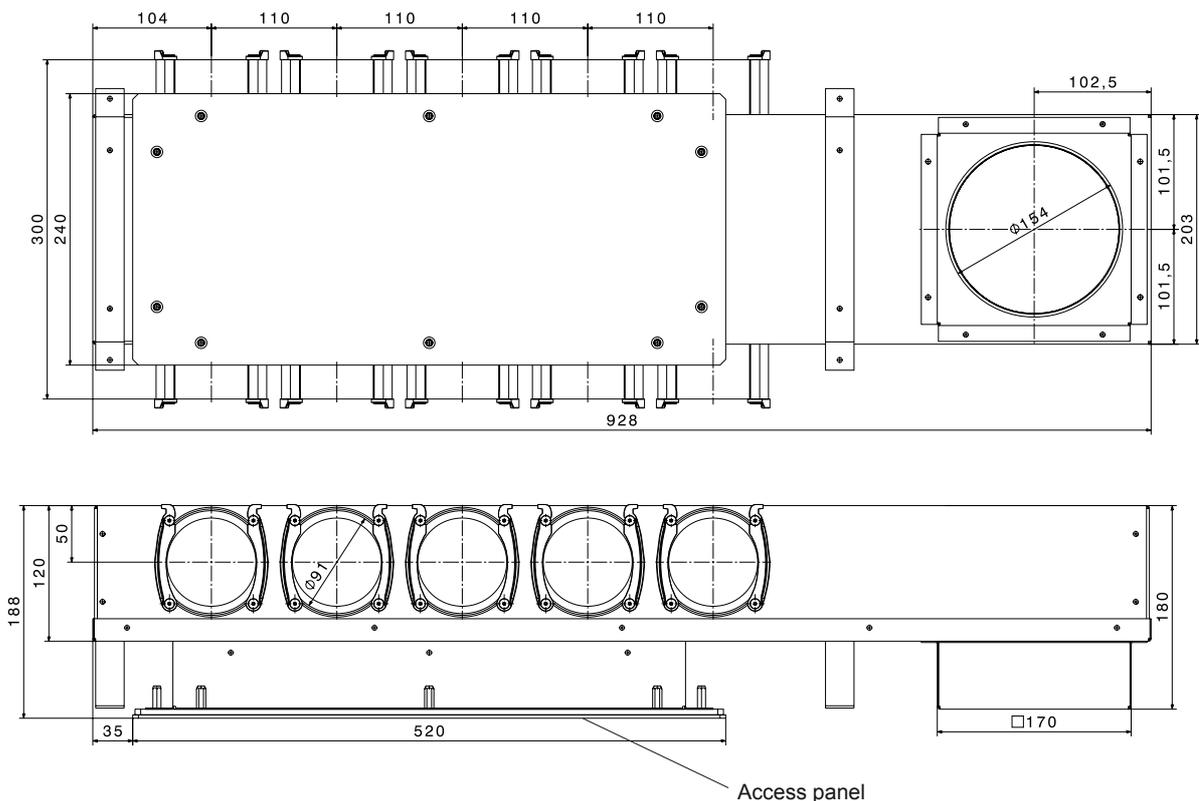
for concrete installation

Distributor unit of aluzinc sheet for encasing in concrete. With one connection nozzle DN 150 (upwards and downwards) and 2 x 5 nozzles DN 90 and DN 75 (lateral), incl. 4 end covers, 1 spigot DN 150, inside lining of sound insulation material and access panel paintable on site. Orifices for setting the air quantity per flexible pipe DN 75 or DN 90 (included in the scope of delivery).

**UPVK 10 x 75**



**UPVK 10 x 90**



■ Technical data

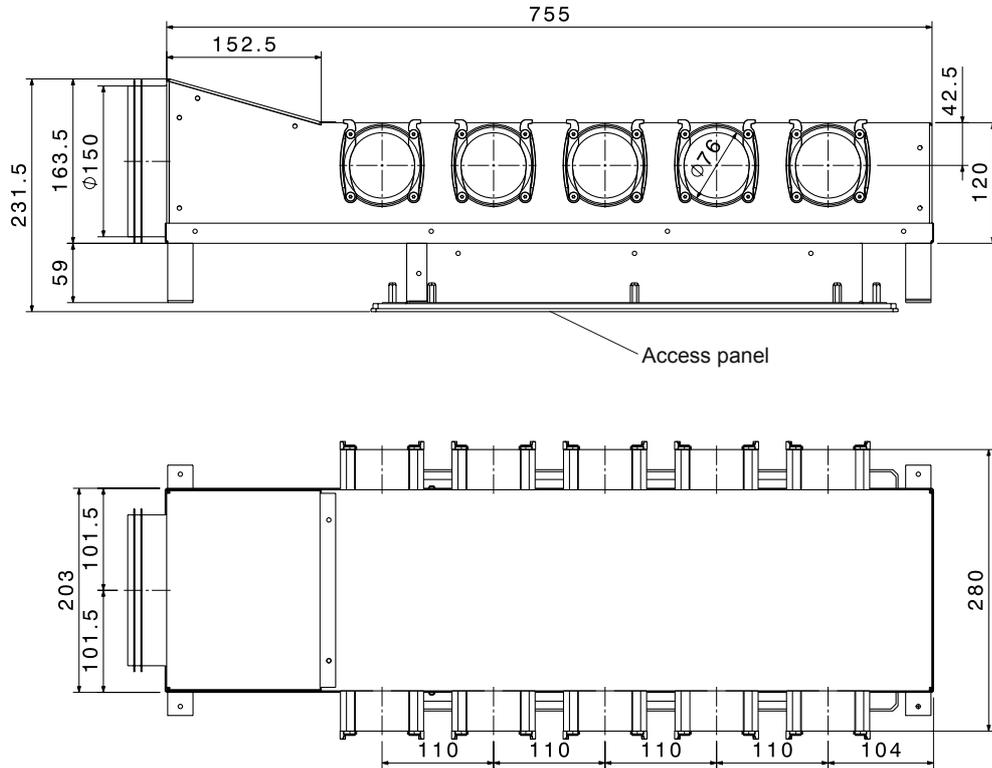
**Distributor units DN 150**

**In-wall distributor unit UPVKS 10 x DN X**

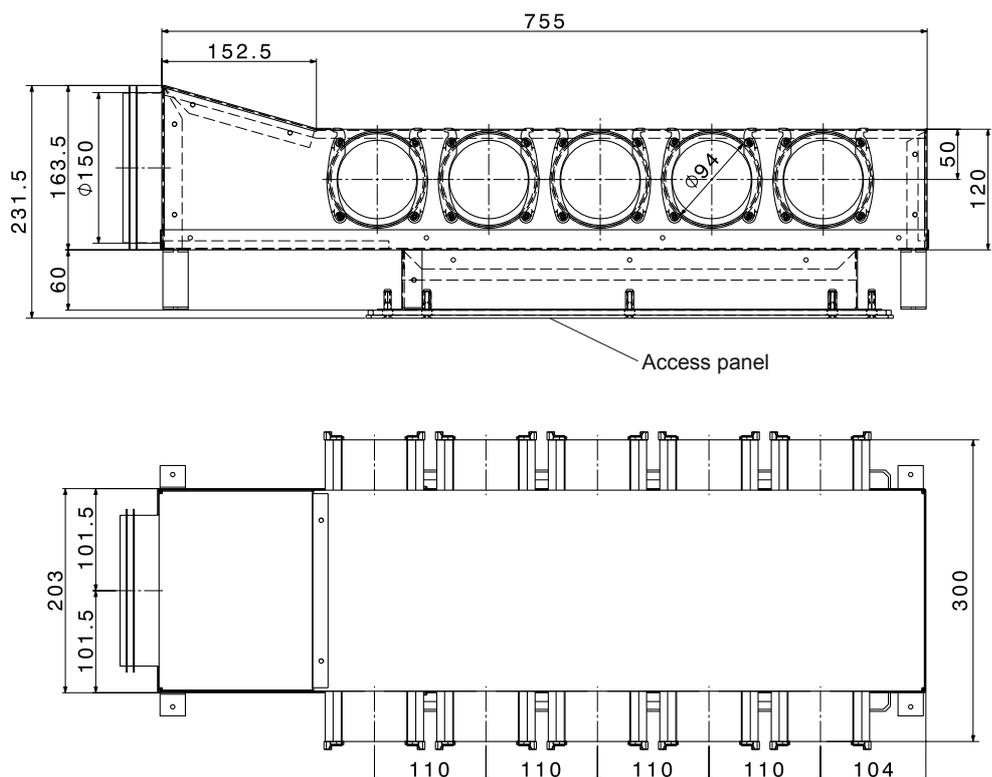
for concrete installation

Distributor unit of aluzinc sheet for encasing in concrete. With one connection nozzle DN 150 (on face) and 2 x 5 nozzles DN 90 and DN 75 (lateral), incl. 4 end covers, 1 spigot DN 150, inside lining of sound insulation material and access panel paintable on site. Orifices for setting the air quantity per flexible pipe DN 75 or DN 90 (included in the scope of delivery).

**In-wall distributor unit UPVKS 10 x 75**



**In-wall distributor unit UPVKS 10 x 90**



■ Technical data

**Distributor units DN 150**

**Distributor unit VTB-150 9x75 resp. 6x90**

for concrete installation

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

Connection nozzle:

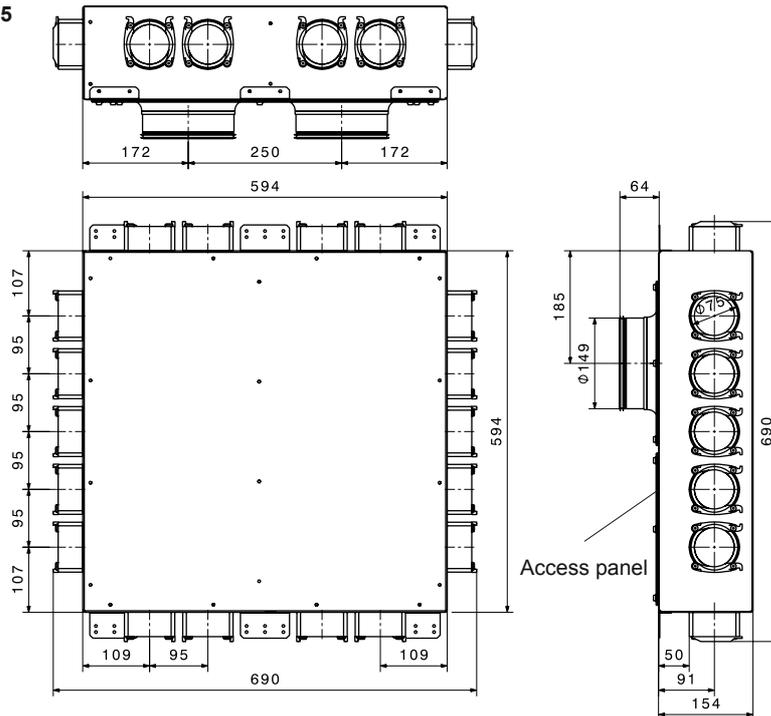
2x DN 150 (downward)

Supply air 9x DN 75 resp. 6x DN 90 (5x resp. 2x side/ 2x front and rear each)

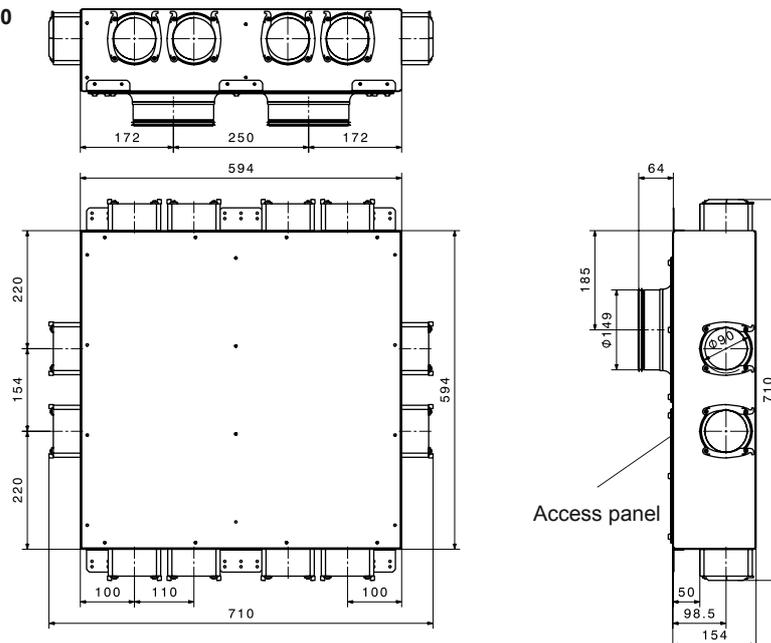
Extract air 9x DN 75 resp. 6x DN 90 (5x resp. 2x side/ 2x front and rear each)

Consisting of: box, 6 connection brackets, 4 resp. 2 end caps, orifices for setting the air quantity per flex pipe DN 75 resp. DN 90 (included in the scope of delivery).

**Distribution box VTB-150 9x75**



**Distribution box VTB-150 6x90**

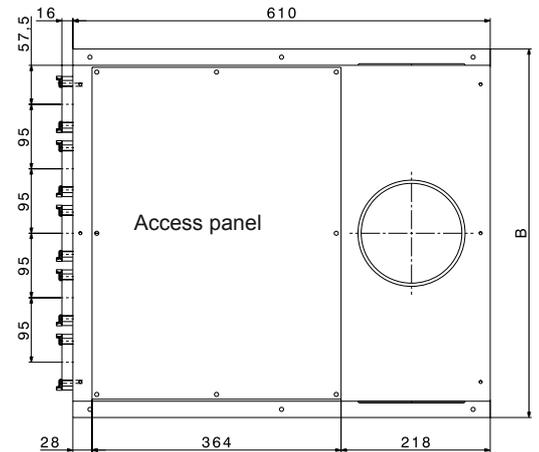
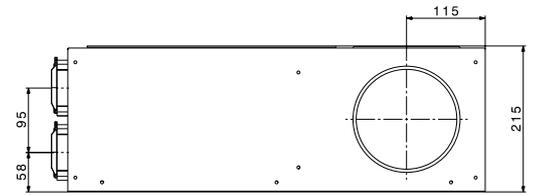
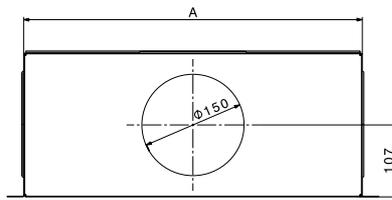


■ Technical data

**Distributor units DN 150**

**Central distributor unit for 6, 8 or 10 connections VK-150-75**

This distributor unit 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 150 is supplied and can be installed on the end, top or on the left or right side. The distributor unit is suitable for on-wall installation.



**Dimensional drawing of distributor unit VK-150-75x..**

Type	A	B	n
VK-150-75x6	305	355	6
VK-150-75x8	400	450	8
VK-150-75x10	495	545	10

■ Technical data

Distributor units DN 150

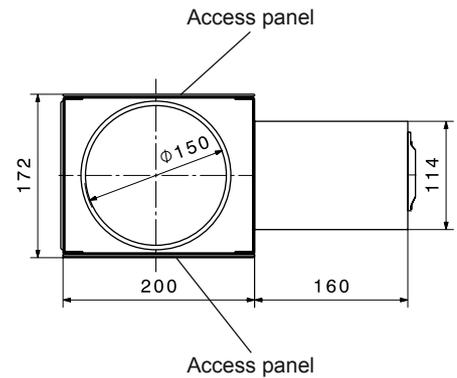
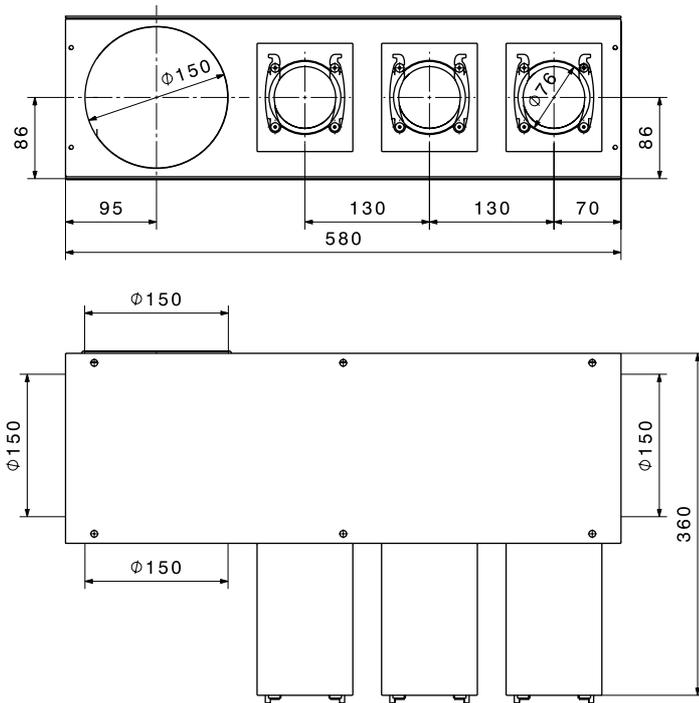
Storey distributor GVT-3 ... GVT-6

Storey distributor with 4 connection options for the main duct, incl. 2 connection nozzles DN 150, incl. 3 sealing caps DN 150. Flexible installation and easy cleaning of the pipes via the access panels on both sides.

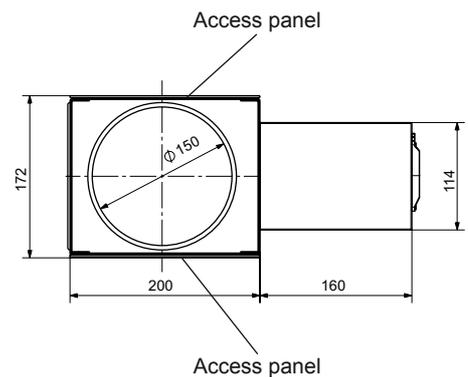
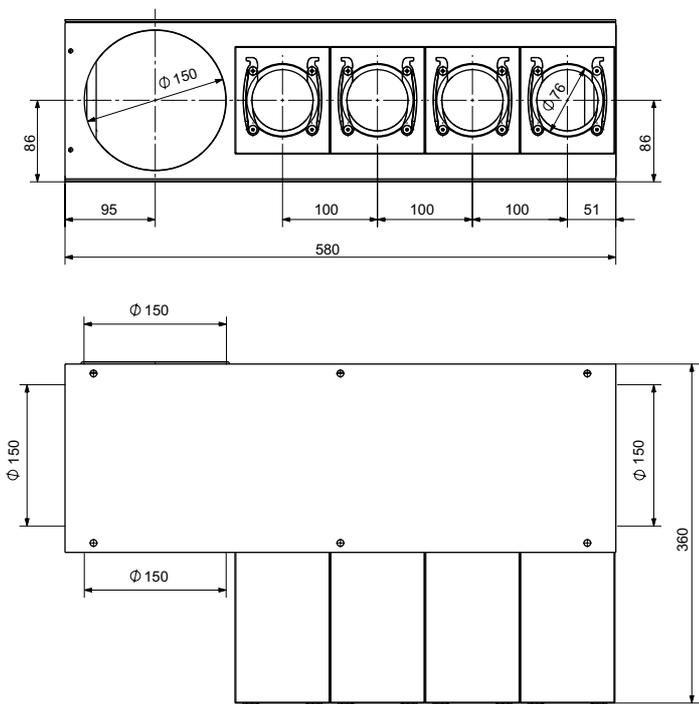
Orifices for setting the air quantity per flexible pipe DN 75 or DN 90 (included in the scope of delivery). Resonators for sound insulation. Material: Galvanised steel. Inside lining: Sound absorbing mat

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

Storey distributor GVT-3

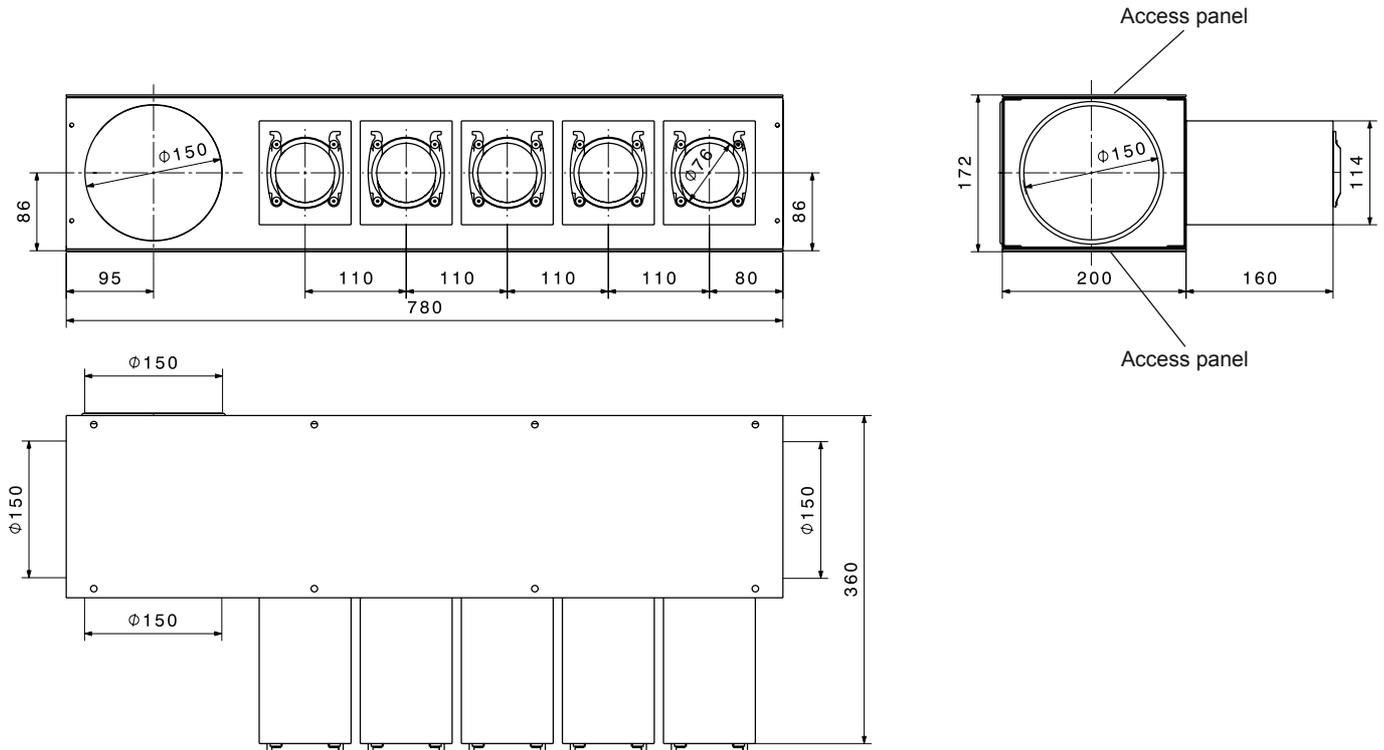


Storey distributor GVT-4

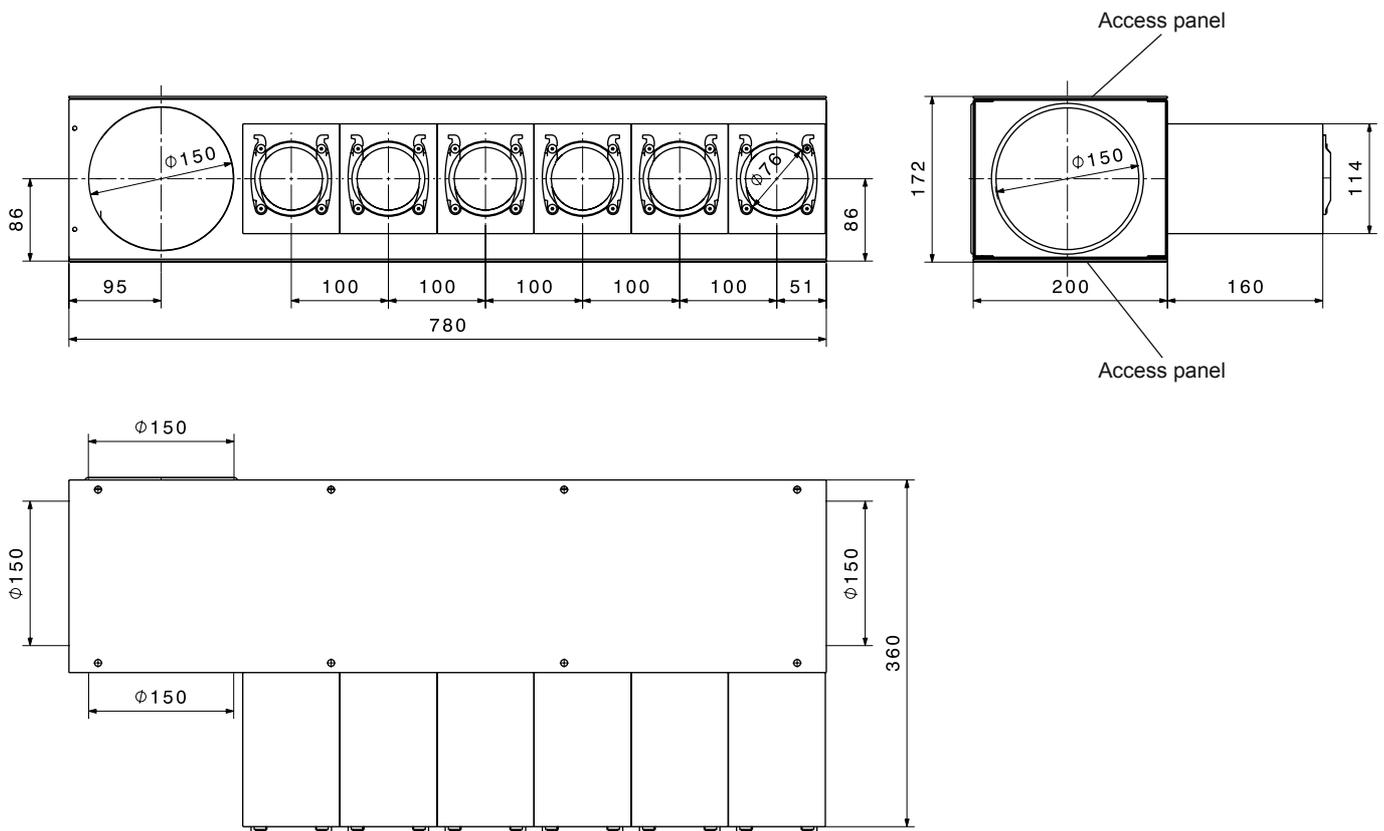


■ Technical data

Storey distributor GVT-5



Storey distributor GVT-6



■ Technical data

**Distributor units DN 180**

**Distribution box VTB-180 9x75 resp. 6x90**

for concrete installation

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

Connection nozzle:

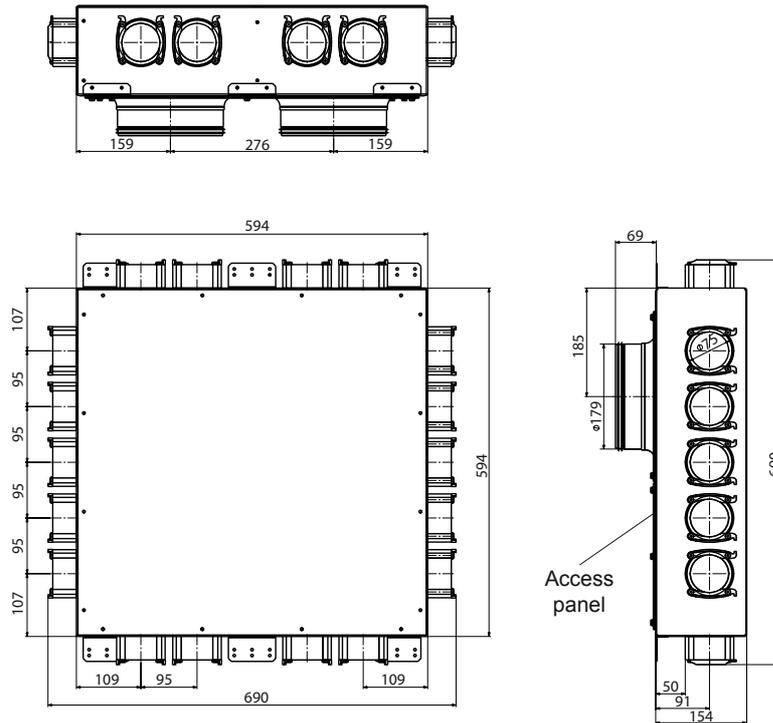
2x DN 180 (downward)

Supply air 9x DN 75 resp. 6x DN 90 (5x resp. 2x side/ 2x front and rear each)

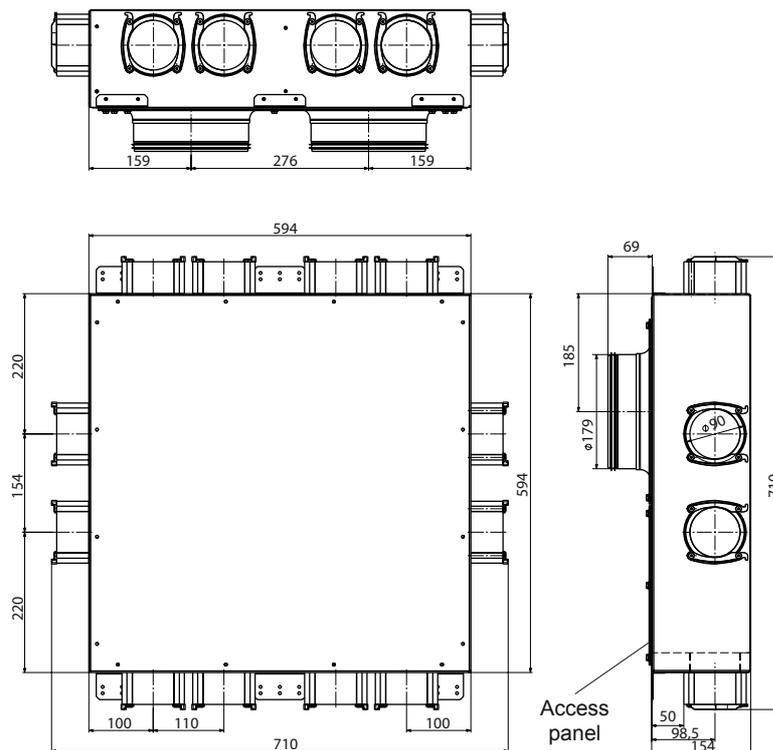
Extract air 9x DN 75 resp. 6x DN 90 (5x resp. 2x side/ 2x front and rear each)

Consisting of: box, 6 connection brackets, 4 resp. 2 end caps, orifices for setting the air quantity per flex pipe DN 75 resp. DN 90 (included in the scope of delivery).

**Distribution box VTB-180 9x75**



**Distribution box VTB-180 6x90**



■ Technical data

**Distributor units DN 180**

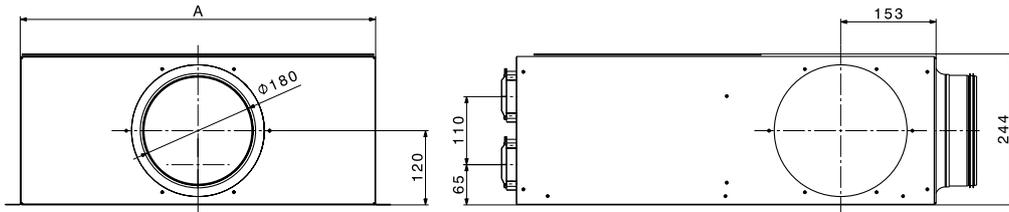
**Central distributor unit for 6, 8 or 10 connections**

**VK-180-75 resp. VK-180-90**

This distributor unit 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 or DN 90 (included in the scope of delivery).

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 distributor unit is suitable for on-wall installation.

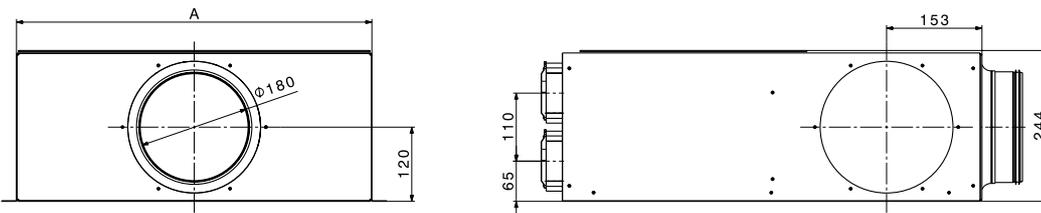
**Distributor unit VK-180-75**



**Dimensions distributor unit VK-180-75x..**

Type	A	B	n
VK-180-75x6	350	398	6
VK-180-75x8	460	508	8
VK-180-75x10	570	618	10
VK-180-75x12	680	728	12

**Distributor unit VK-180-90**



**Dimensions distributor unit VK-180-90x..**

Type	A	B	n
VK-180-90x6	350	398	6
VK-180-90x8	460	508	8
VK-180-90x10	570	618	10
VK-180-90x12	680	728	12

■ Technical data

**Distributor units DN 200**

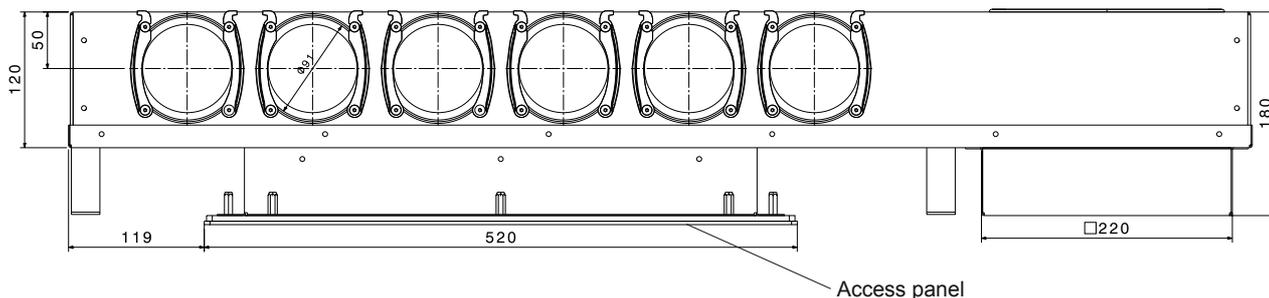
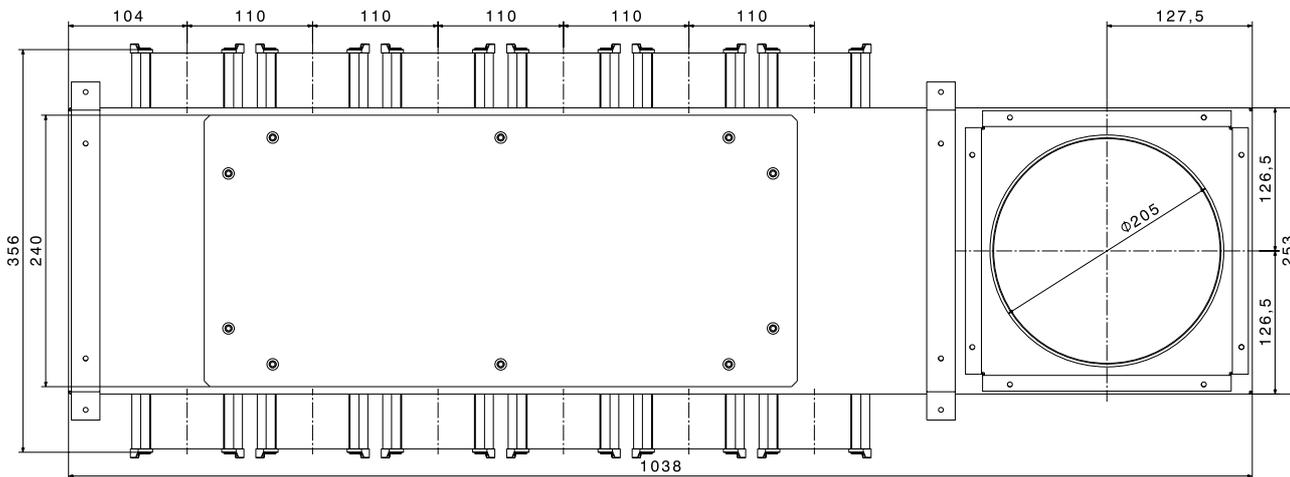
**In-wall distributor unit UPVK 200-90x12**

for concrete installation

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

Connection nozzles 2x DN 200 (downwards/upwards), 12 (2 x 6) DN 90 (sideways).

Consisting of: distributor unit, 6 end covers, 1 connection nozzle DN 200, orifices for setting the air quantity per flexible pipe DN 90 (included in the scope of delivery).



**Distributor unit VK200-75x15**

Air distributor unit of aluzinc sheet with access panel.

Inside with sound absorption block.

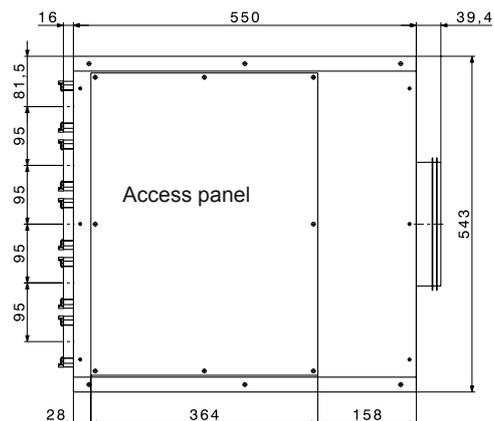
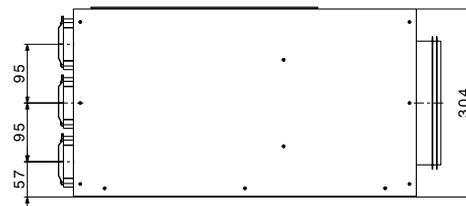
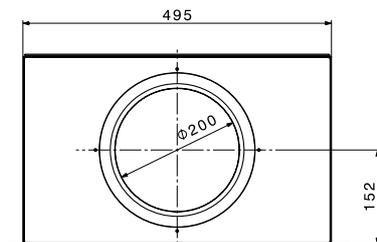
Connection nozzles:

1 x DN 200 (on the back)

15 x (3x5) DN 75 (on the front)

Consisting of:

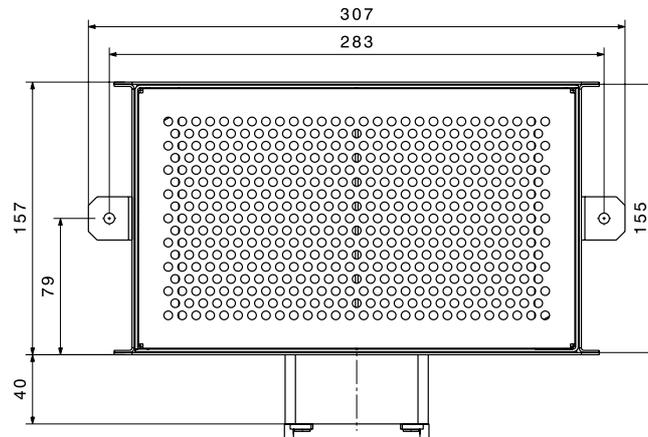
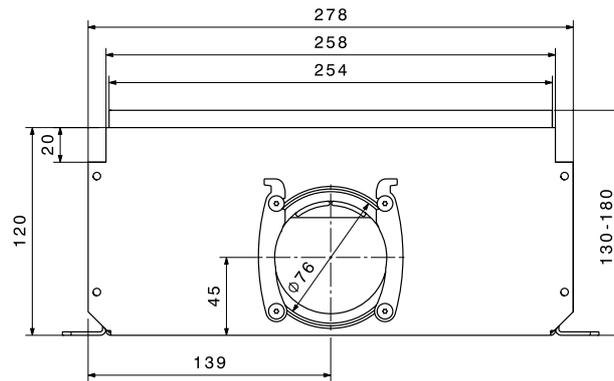
distributor unit, baffles for adjusting the air flow for each flexible pipe DN 75 (included in the scope of delivery).



■ Technical data

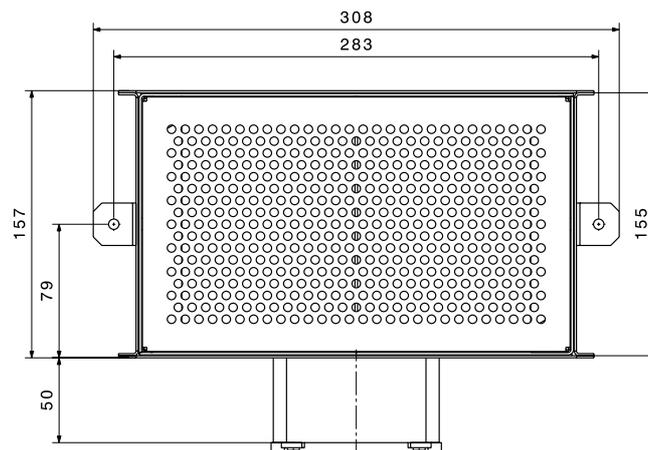
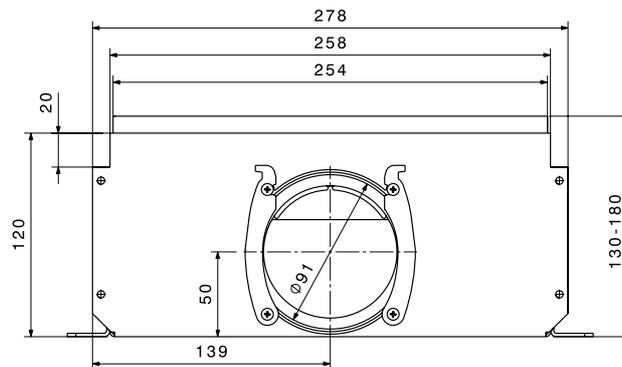
**Floor grille BD-30-75**

For installation in the floor structure, supply air volume flow 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**

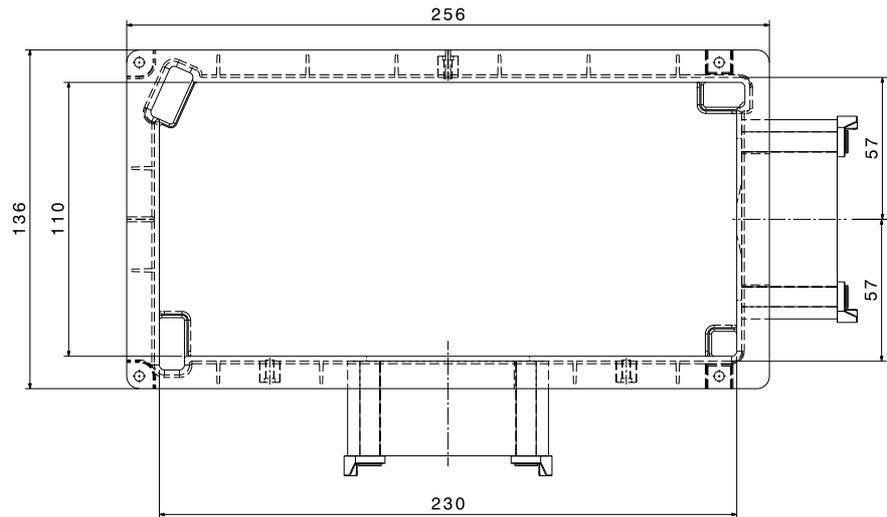
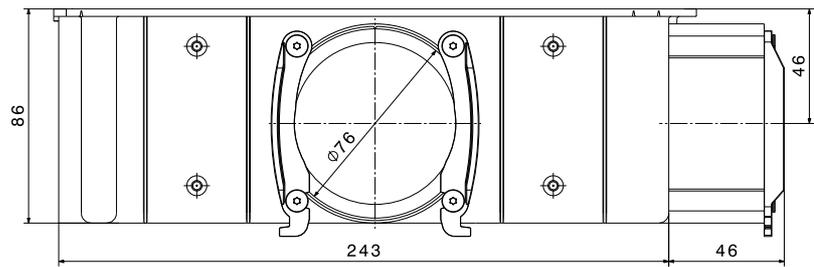
For installation in the floor structure, supply air volume flow 40 m³/h. Perforated stainless steel grille in an adjustable casing, height 130-180 mm, inner component of stainless steel with 3 contact points, outer component of aluzinc sheet with 2 fastening catches and one connection nozzle for flexible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



■ Technical data

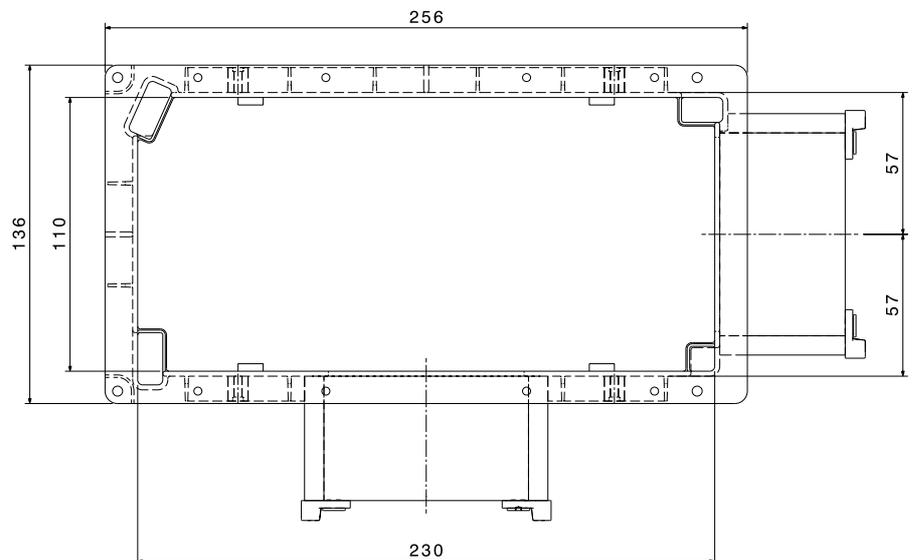
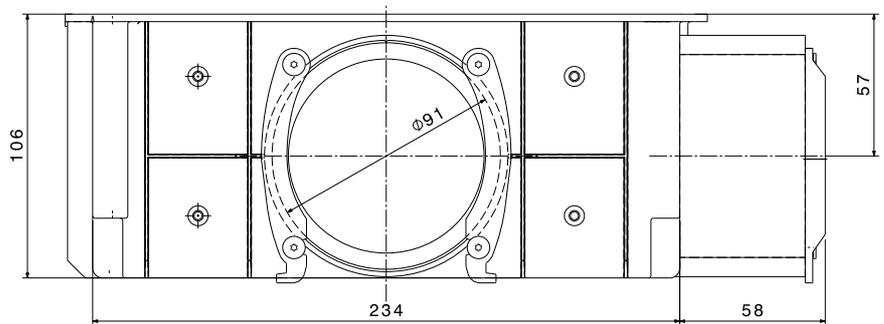
**Connection housing AG-60**

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.  
 Accessory: extract air filter AGF-60/90.  
 Suitable for supply air or extract air.



**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.  
 Suitable for supply air or extract air.



**Extract air filter AGF-60/90**

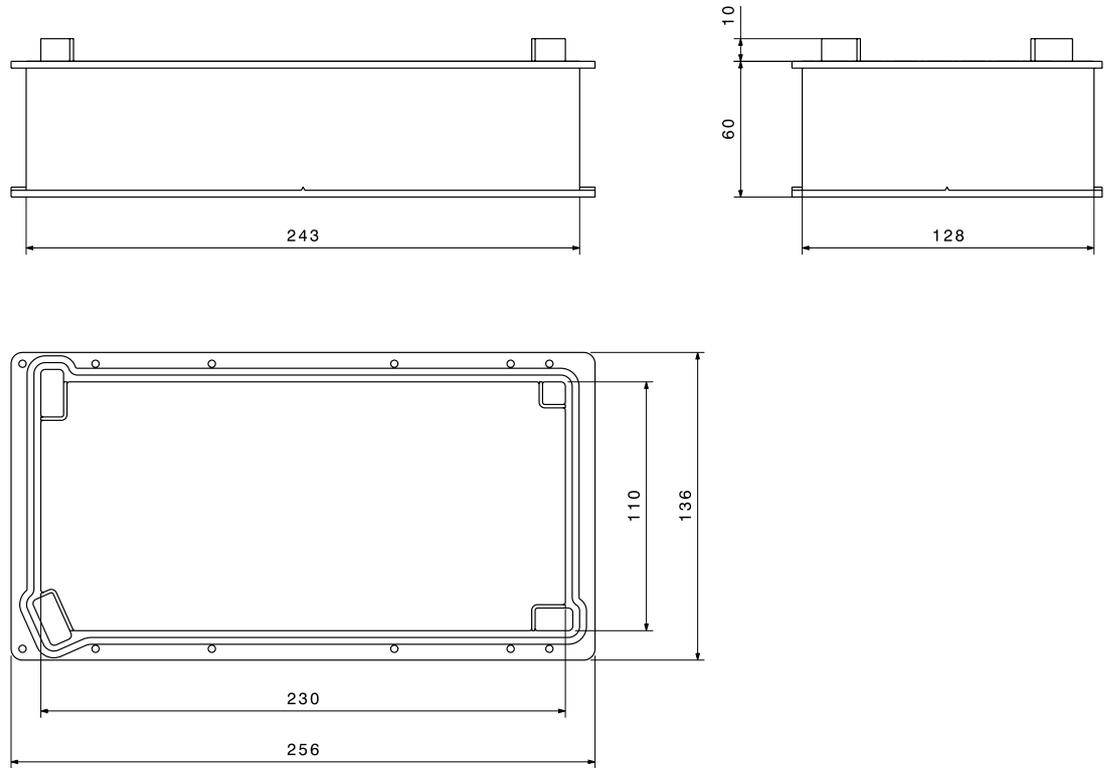
Consisting of a washable, fine-mesh net made from polyamide with a plastic frame for connection housing AG-60, AG-90, AGV-60 or AGV-90.

Type	Dimensions mm	Pressure drop Pa
AGF-60/90	235x110x10	7

■ Technical data

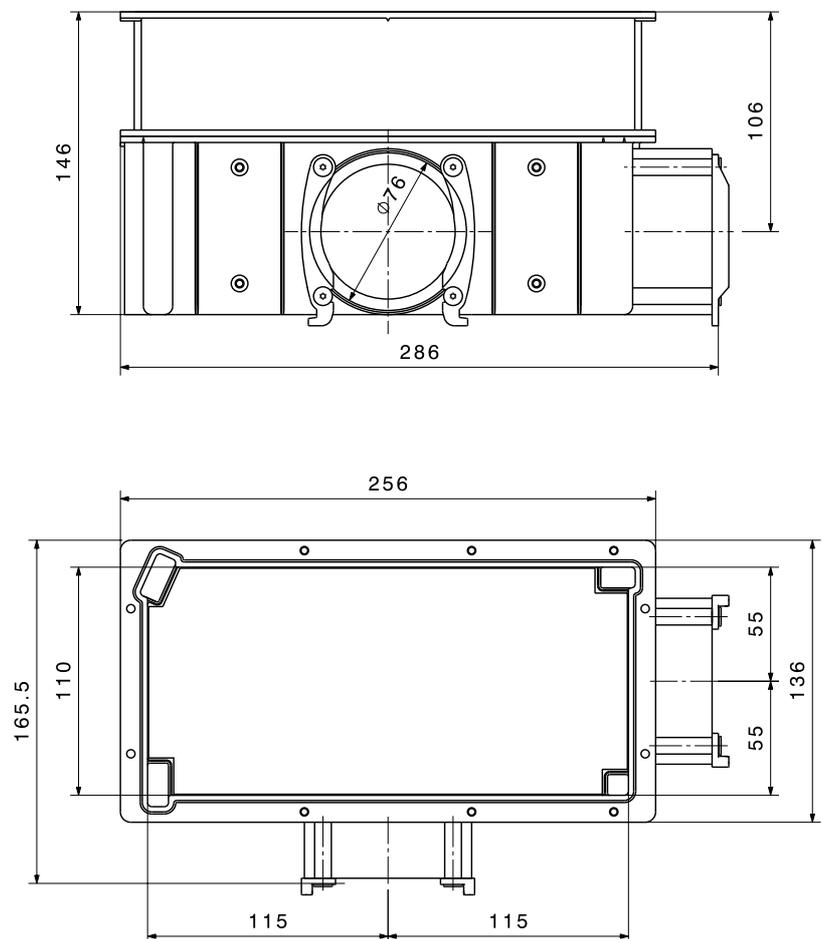
**Extension AG-60/AG-90**

For installation of AG-60 and AG-90 on the formwork panel.  
The housing allows fine adjustment of the grille (rotating) after installation.



**Connection housing set AGV-60**

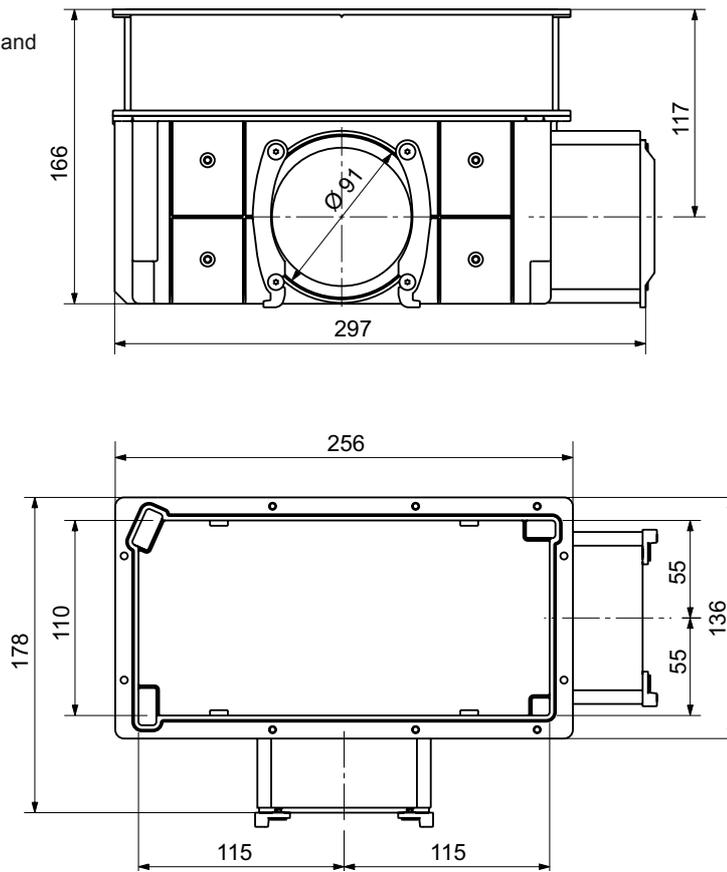
consisting of connection housing AG-60 and extension VAG-60/90.



■ Technical data

**Connection housing set AGV-90**

Consisting of connection housing AG-90 and extension VAG-60/90.

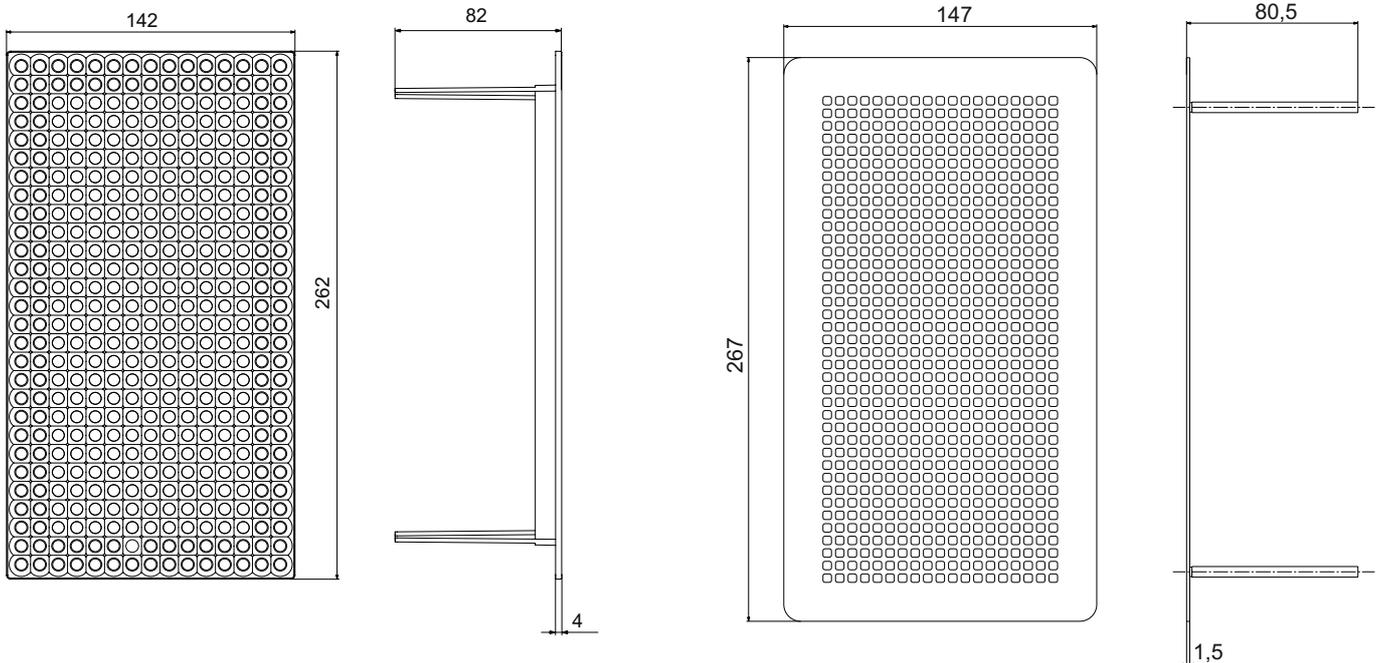


**Design grille made of plastic**

The grille is mounted on the connection housing AG-60, AG-90, AGV-60 or AGV-90. There are three grille designs (Pazific, Adriatic Sea, Atlantic). 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, AG-90, AGV-60 or AGV-90. There are three grille designs (Alvier, Sântis, Pizol). The outside dimensions are identical for all grilles. The wall/ceiling plaster must not exceed 30 mm.



■ Technical data

**In-wall unit UPK-30**

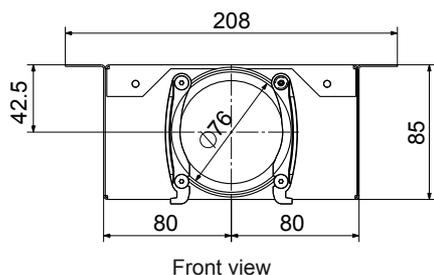
The connection box is used in combination with a disc valve for supply air or extract air. It consists of a galvanised sheet metal casing with frontal nozzles. The housing floor is lined with a sound absorbing mat.

A building protection cover is included to protect the in-wall unit against dirt before it is taken into service.

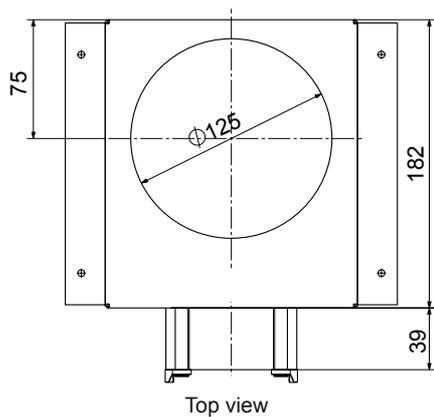
**In-wall unit UPK-90**

The connection box is used in combination with a disc valve for supply air or extract air. It consists of a galvanised sheet metal casing with frontal nozzles. The housing floor is lined with a sound absorbing mat.

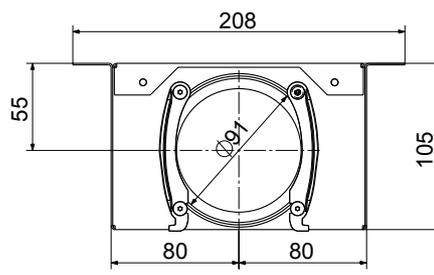
A building protection cover is included to protect the in-wall unit against dirt before it is taken into service.



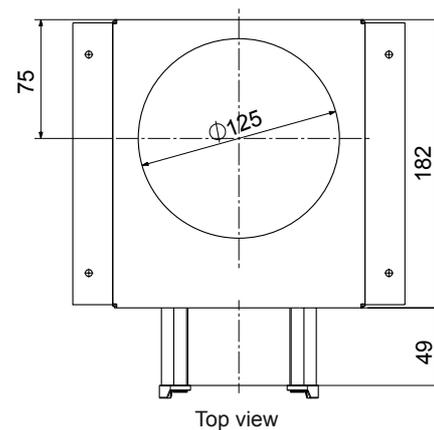
Front view



Top view



Front view



Top view

■ Technical data

**In-wall unit UPK-60**

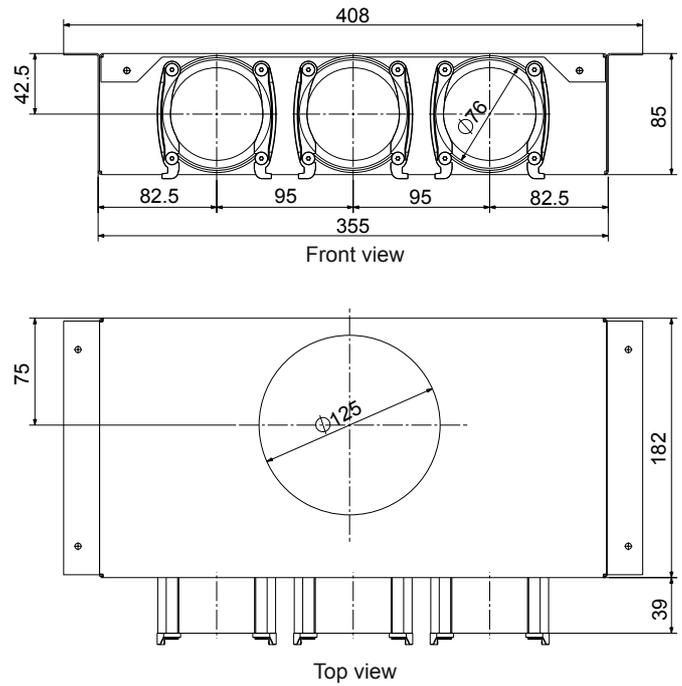
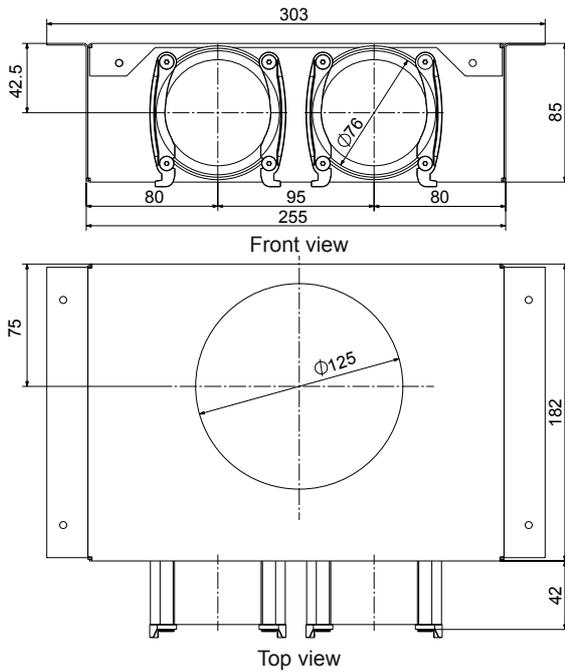
The connection box is used in combination with a disc valve for supply air or extract air. It consists of a galvanised sheet metal casing with frontal nozzles. The housing floor is lined with a sound absorbing mat.

A building protection cover is included to protect the in-wall unit against dirt before it is taken into service.

**In-wall unit UPK-80**

The connection box is used in combination with a disc valve for supply air or extract air. It consists of a galvanised sheet metal casing with frontal nozzles. The housing floor is lined with a sound absorbing mat.

A building protection cover is included to protect the in-wall unit against dirt before it is taken into service.



■ Technical data

**Filigree ceiling set FDS-125 X x75**

for disc valve supply air TVZ-125 and disc valve extract air TVA-125 made from galvanised sheet steel with 1 resp. 2 connections DN 75, special DN 125 collar for filigree ceiling lead-through, building protection cover

Supply air:

1 x DN 75 up to 30 m³/h

2 x DN 75 up to 40 m³/h

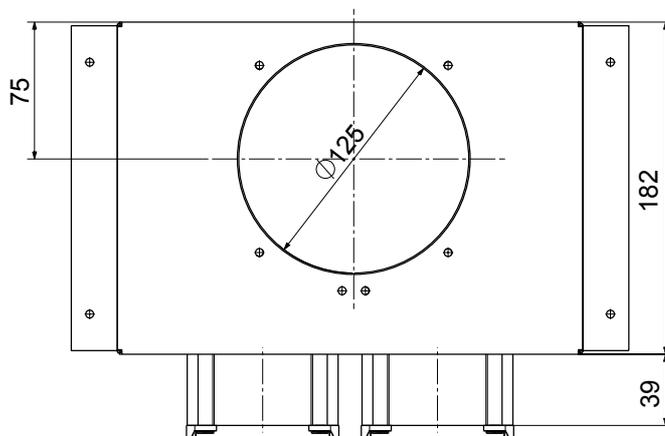
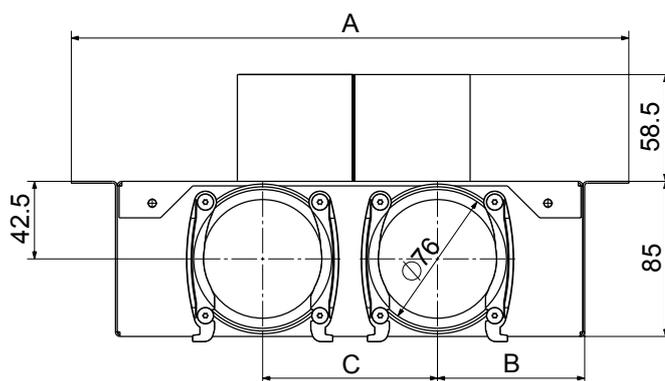
Extract air:

1 x DN 75 up to 30 m³/h

2 x DN 75 up to 60 m³/h

**Filigree ceiling set FDS-125 X x75**

Type	A	B	C
FDS125-1x75	208	80	-
FDS125-2x75	303	80	95



**In-wall connection box**

**UPK-125 X x75 LN**

For extract air disc valve TVA-125 or supply air disc valve TVZ-125 made from galvanised sheet steel with spiral-seam tube DN 125, L = 400 mm with 1, 2 or 3 connections DN 75, building protection cover

Supply air:

1 x DN 75 up to 30 m³/h

2 x DN 75 up to 40 m³/h

3 x DN 75 up to 40 m³/h

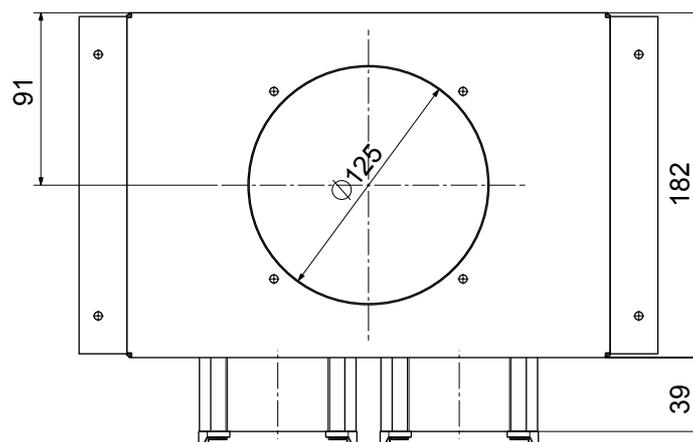
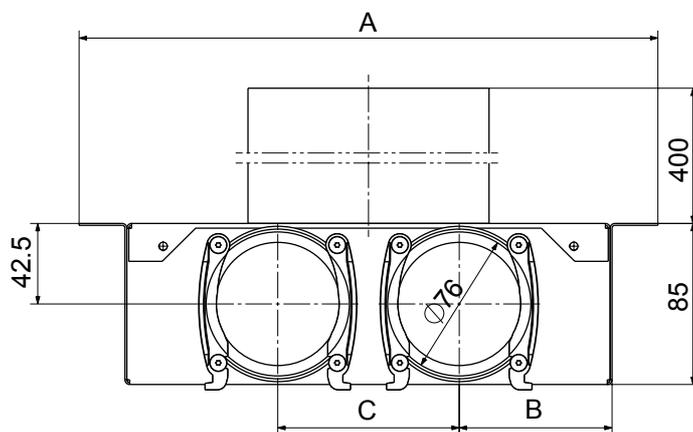
Extract air:

1 x DN 75 up to 30 m³/h

2 x DN 75 up to 60 m³/h

3 x DN 75 up to 60 m³/h

For special applications.



**In-wall connection box**

**UPK-125-X x 75 LN**

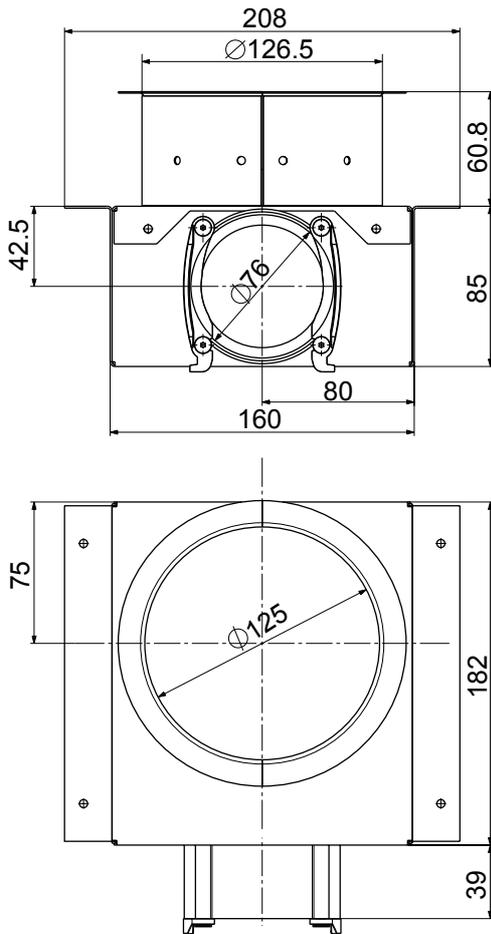
Type	A	B	C
UPK-125 1x75 LN	208	80	-
UPK-125 2x75 LN	303	80	95
UPK-125 3x75 LN	398	80	95

■ Technical data

**Extract air set BAK-125-75 resp. supply air set BZK 125-75 for concrete installation**

Connection box UPK-30-(DN 75) with pre-assembled spigot and installation frame, disc valve TVA-125 (extract air) resp. TVZ-125 (supply air), incl. building protection cover.

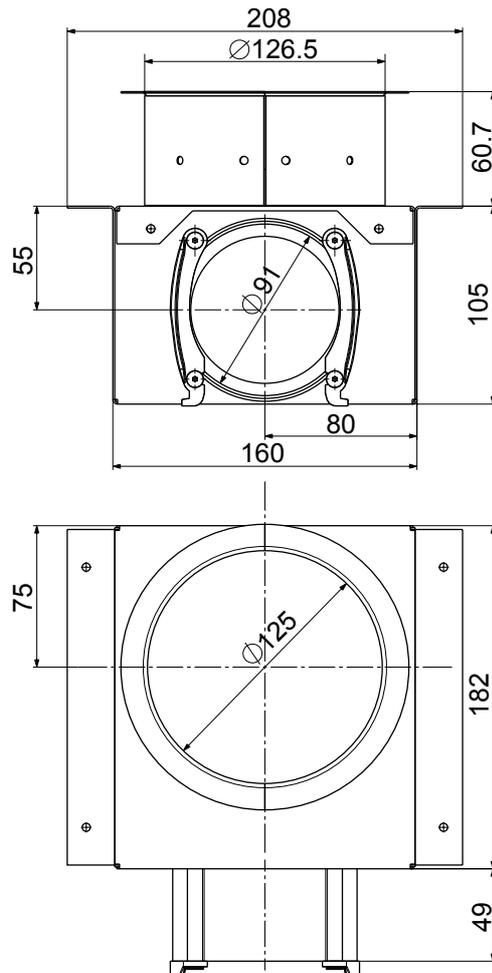
Ceiling must not be lined or plastered.  
For spackled ceilings or béton brut.



**Extract air set BAK-125-90 resp. supply air set BZK 125-90 for concrete installation**

Connection box UPK-30-(DN 90) with pre-assembled spigot and installation frame, disc valve TVA-125 (extract air) resp. TVZ-125 (supply air), incl. building protection cover.

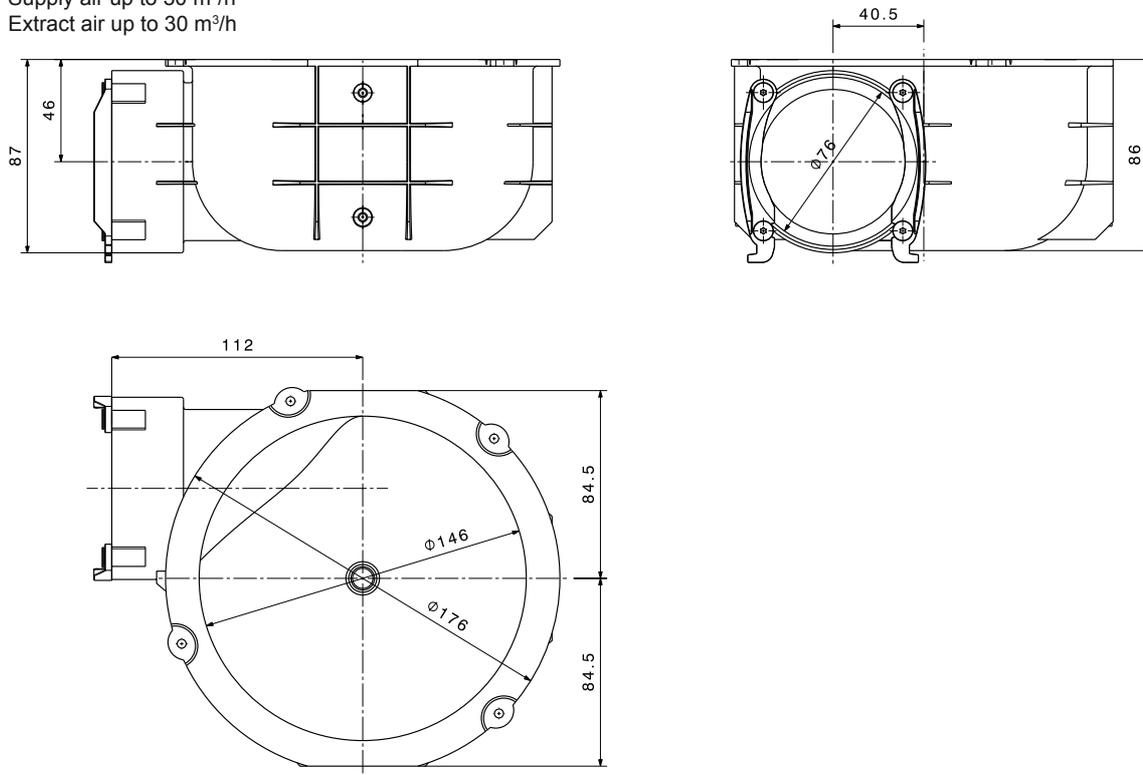
Ceiling must not be lined or plastered.  
For spackled ceilings or béton brut.



■ Technical data

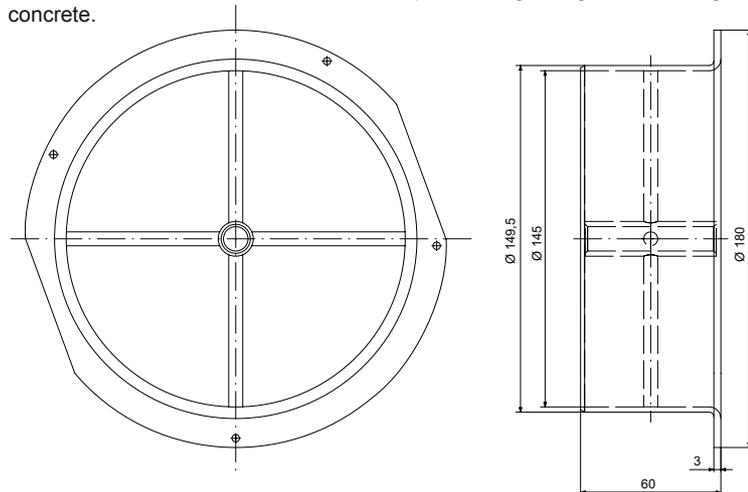
**Tangential casing TG-30**

For supply air or extract air in combination with the tangential design grille.  
 Suitable for installation in mass concrete, masonry walls or lightweight construction.  
 Of plastic with 1 connection nozzle DN 75 incl. fixing angles, building protection cover.  
 Supply air up to 30 m³/h  
 Extract air up to 30 m³/h



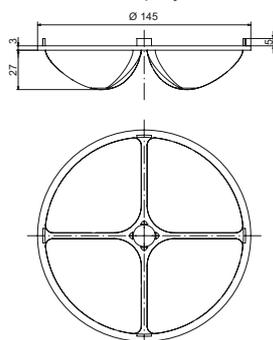
**Tangential extension TGA**

For the connection of the tangential design grille with the tangential casing TG-30. A connection extension which is required for lightweight walls or filigree concrete.



**Extract air filter ATG-30**

for tangential casing TG-30 and tangential extension TGA  
 of cleanable, fine-mesh polyamide net with plastic frame.



■ Technical data

**Tangential design grille**

Of high quality ABS plastic,  
colour white.

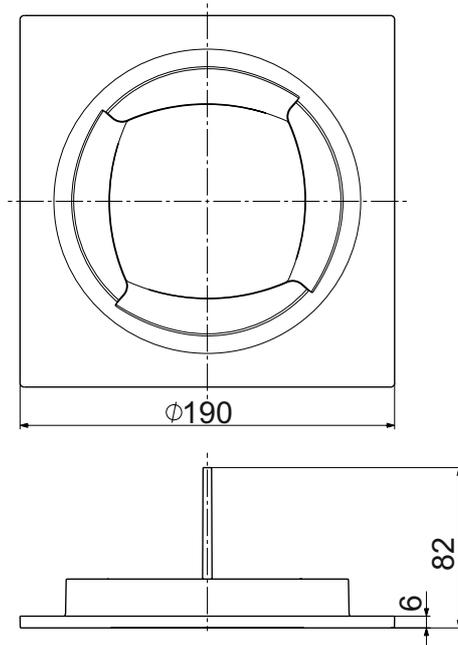
Suitable for:

Supply air up to 30 m<sup>3</sup>/h

Extract air up to 30 m<sup>3</sup>/h

Plug connection for tangential casing TG-30

The design grille is washable and can be  
painted on site.



**Tangential design grille TR-30**

of high-quality ABS plastic,  
colour white.

Suitable for:

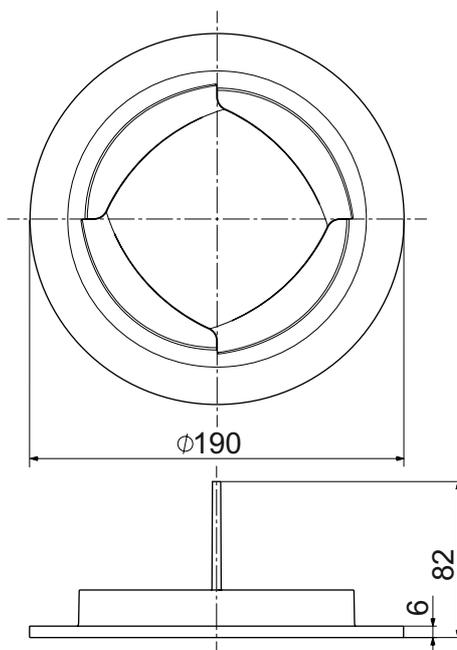
Supply air up to 30 m<sup>3</sup>/h

Extract air up to 30 m<sup>3</sup>/h

Plug connection for

tangential casing TG-30

The design grille is washable and can be  
painted on site.



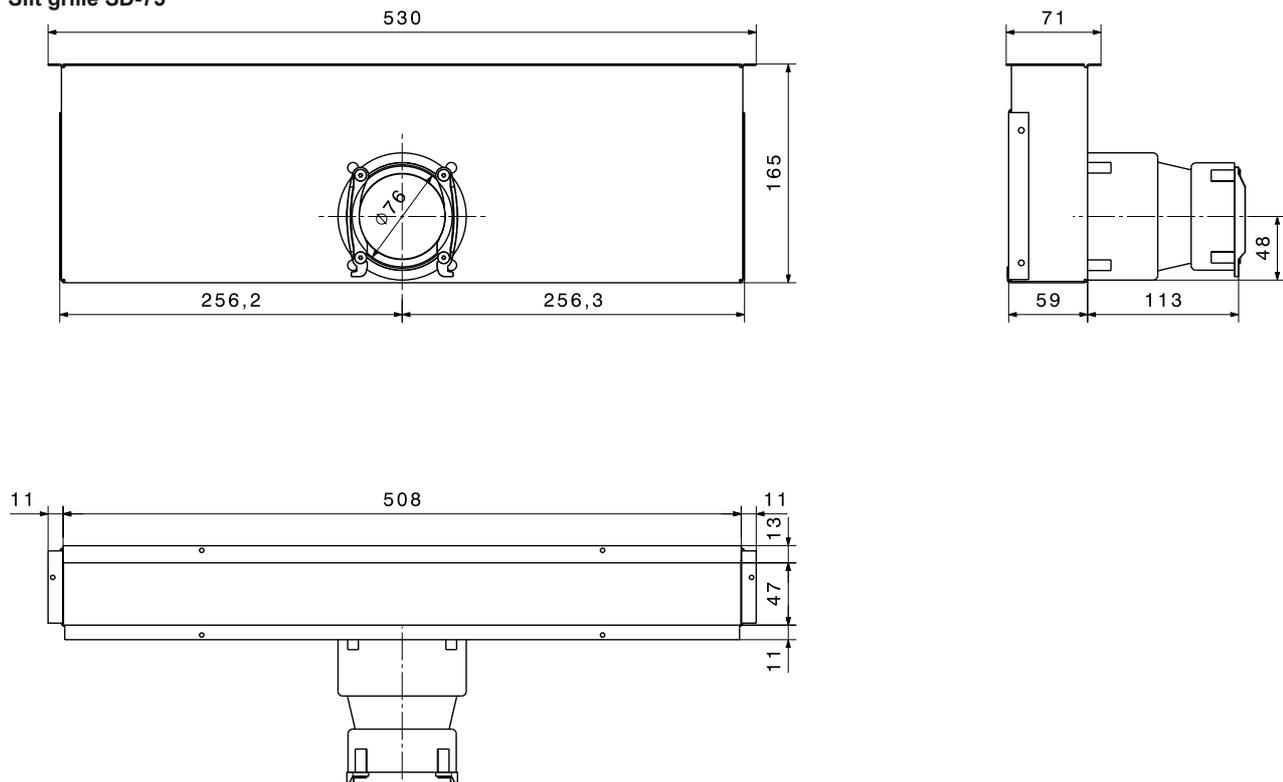
■ Technical data

**Slit grille SD-75 and SD-90**

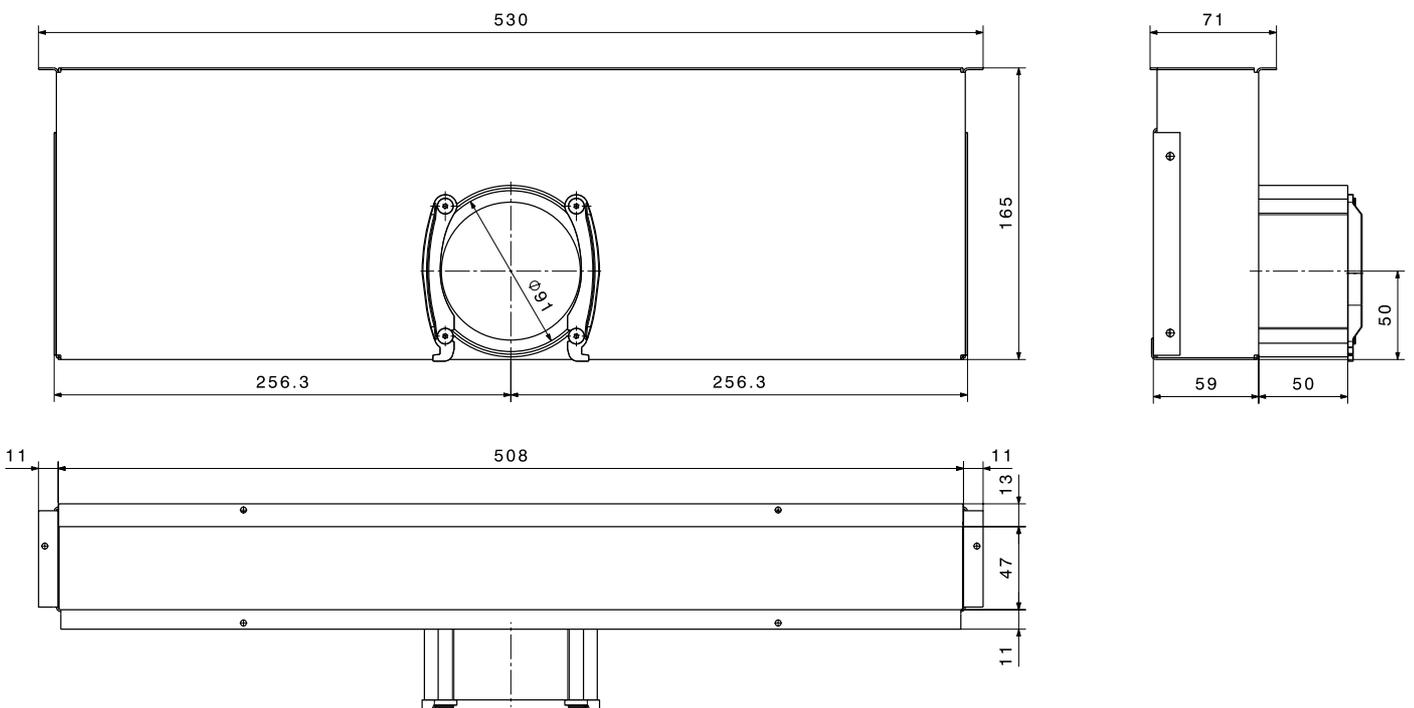
The slit grille is used for linear supply air distribution. It can be set to one or two outlet sides when taken into service, as required (preset to two sides).

The scope of delivery includes the elegant slit grille of anodised aluminium and the connection box of galvanised steel. The volume flow is set in the distributor unit.

**Slit grille SD-75**



**Slit grille SD-90**





■ Engineering

**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
- Energy Conservation Ordinance EnEV
- 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 code), there are no special fire protection requirements within usage units with max. 2 dwelling units comprising in total less than 400 m<sup>2</sup> surface area and less than 7 m height.

**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.

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

**Flow rates**

Necessary volume flows 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 values in the table apply to ventilation with a fan and already take into account that a small proportion of the exchange of air occurs by «infiltration» (through joints, etc.). 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).

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 volume flow of 30 m<sup>3</sup>/h must be provided per person for the residential unit.
2. The area-related minimum volume flows in Table 2 must be complied with.
3. The volume flows in Table 3 must be guaranteed for extract air rooms.
4. The volume flows in Table 4 are recommended for supply air rooms.

Table 2

Relevant surface A <sub>NE</sub> [m <sup>2</sup> ]	≤ 30	50	70	90	110	130	150	170	190	210
Nominal ventilation V <sub>R,NL</sub> [m <sup>3</sup> /h]	50	68	86	104	120	135	150	164	177	190

Table 3: extract air

Room type	Extract air [m <sup>3</sup> /h]	n *
Kitchen, kitchenette	42	2
Bathroom, toilet with shower	42	2
Toilet	23	1
Utility room, hobby room	23	1

\* n = usual number of flexible pipes

Table 4: supply air

Room type	Extract air [m <sup>3</sup> /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 heated rooms are included in the ventilation. All supply and extract lines must 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 DN75 (90) 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). Volume flows in excess of 27 m<sup>3</sup>/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). Positioning on different walls is a favourable solution.

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). 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 comfort ventilation unit can be mounted in various different installation orientations (mounting on a wall / ceiling / floor, outside air top / bottom). 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.

## ■ Engineering

### 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 in a reference room with typical air humidity (e.g. living room, hallway between supply and extract air rooms) so that it is visible (fault display, operation) (only BG02 and BG03).

The comfort ventilation unit and operator terminal are connected by an 8-pol CAT 5 patch ribbon cable. A socket (RJ45) must be installed in the building 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

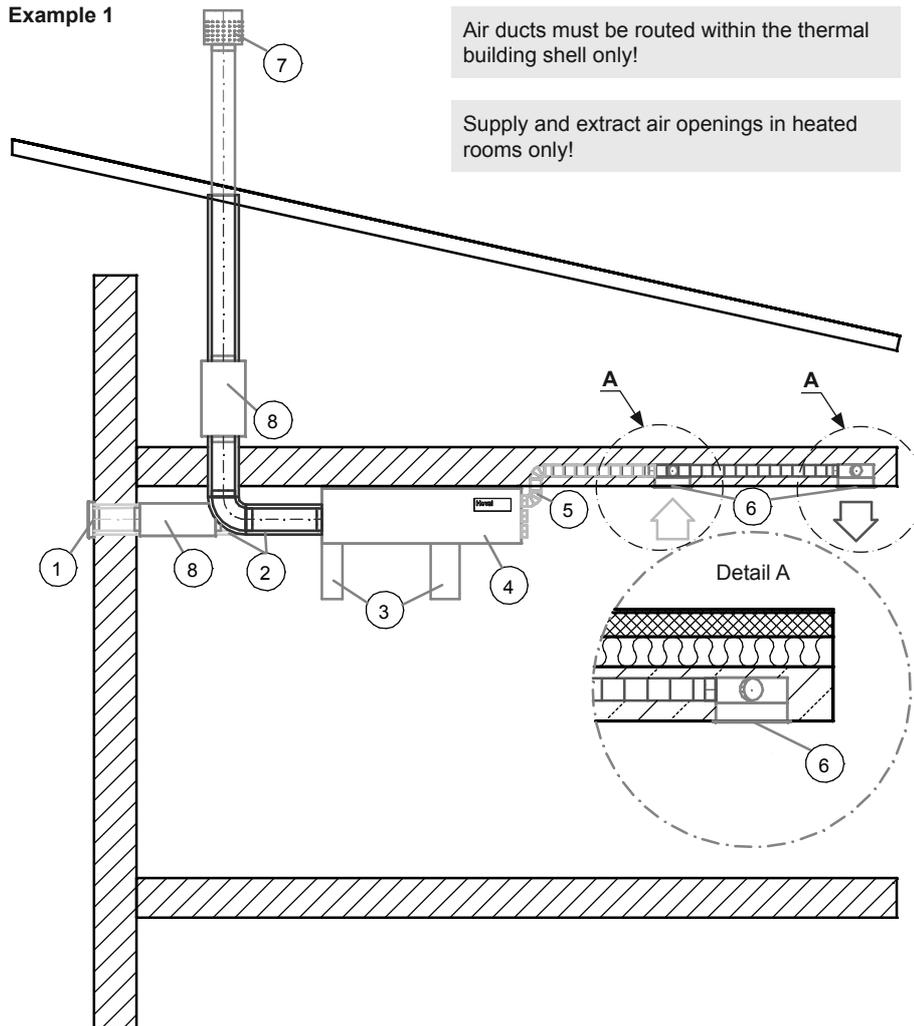
Hoval will be happy to assist you in planning and taking the systems into operation.

### 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.

■ Examples

Example 1



Air ducts must be routed within the thermal building shell only!

Supply and extract air openings in heated rooms only!

- ① Weatherproof grille WG-150 for fresh air
- ② Diffusion-tight heat insulation for fresh and exhaust air
- ③ Service area filter
- ④ Hoval HomeVent® comfort (suitable for all installation positions)
- ⑤ Distributor ducts DN75 up to 6 x supply air and 6 x extract air
- ⑥ Connection housing AG 60 + extension VAG-60/90 + selectable grille
- ⑦ Hood HA-250 DN150 for exhaust air
- ⑧ Silencer DN150 SD-150-500 - optional

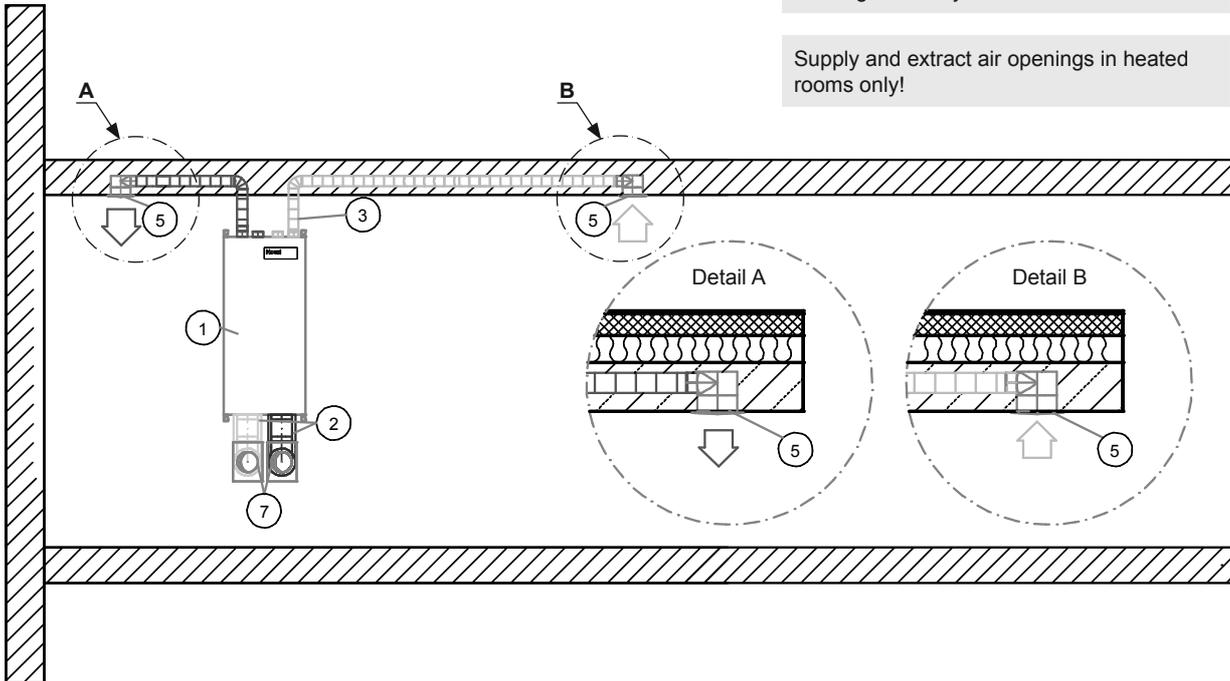
Fire areas and insulation thickness:  
 The local regulations must be observed!

■ Examples

Example 2a

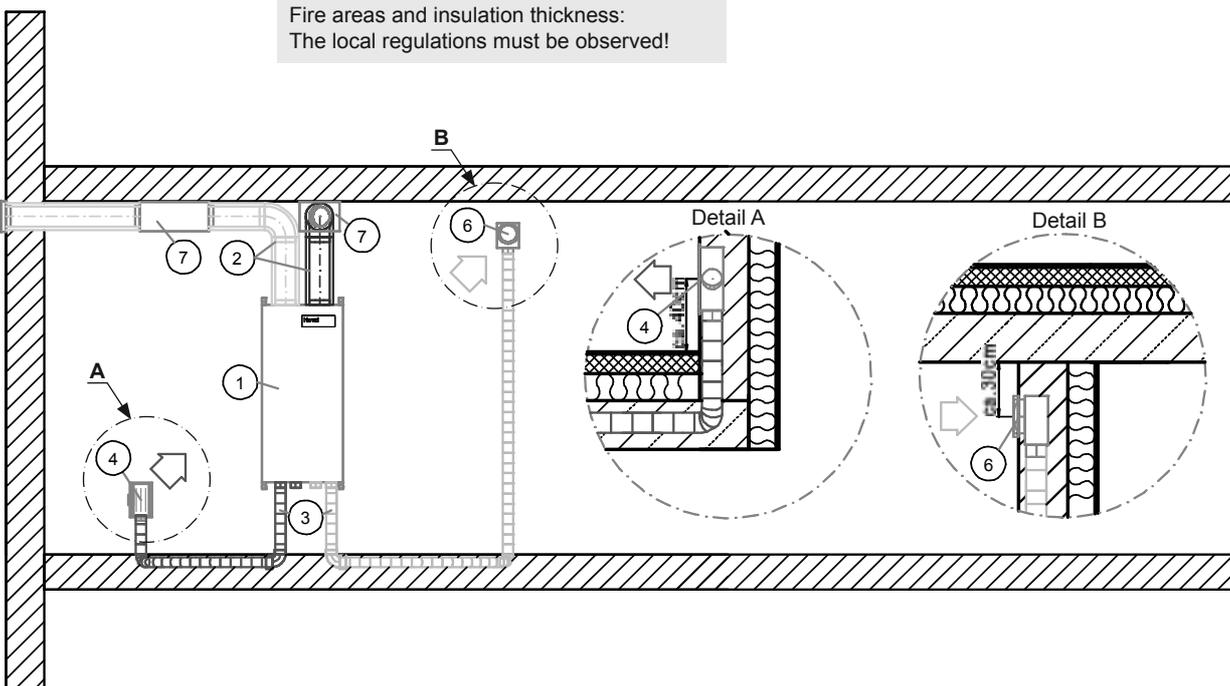
Air ducts must be routed within the thermal building shell only!

Supply and extract air openings in heated rooms only!



- ① Hoval HomeVent® comfort (suitable for all installation positions)
- ② Diffusion-tight heat insulation for fresh and exhaust air
- ③ Distributor ducts DN75 up to 6 x supply air and 6 x extract air
- ④ Connection housing AG 60 + selectable grille
- ⑤ Tangential casing TG-30 + Tangential add-on TGA + Tangential design grille
- ⑥ In-wall unit UPK-30 + disc valve extract air TVA
- ⑦ Silencer DN 150 SD-150-500 - optional

Fire areas and insulation thickness:  
 The local regulations must be observed!

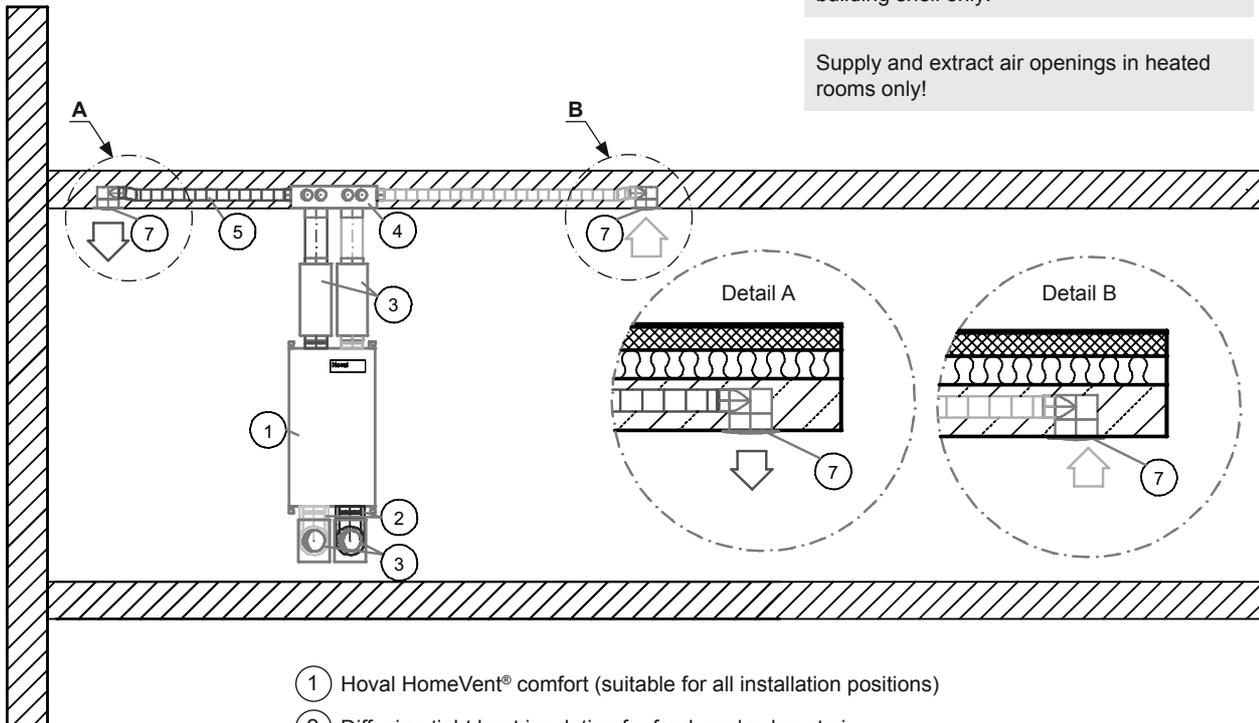


■ Examples

Example 2b

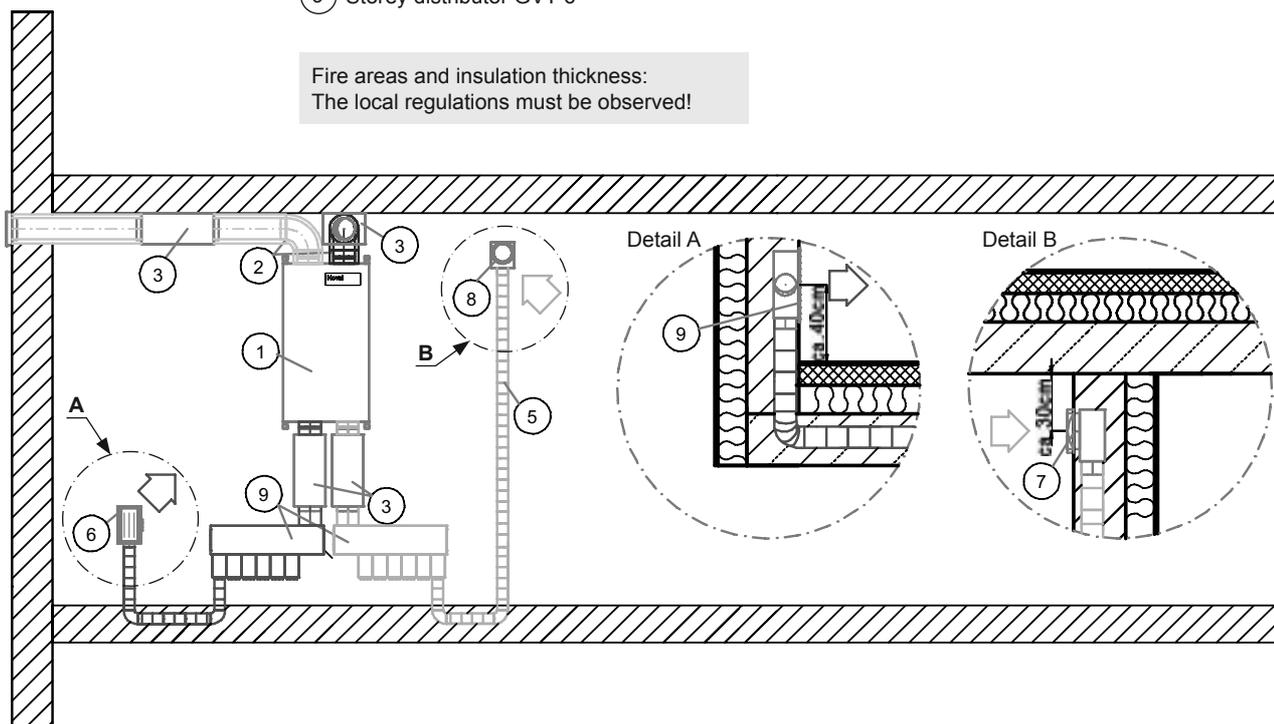
Air ducts must be routed within the thermal building shell only!

Supply and extract air openings in heated rooms only!



- ① Hoval HomeVent® comfort (suitable for all installation positions)
- ② Diffusion-tight heat insulation for fresh and exhaust air
- ③ Silencer DN150 SD-150-500 for fresh and exhaust air - optional
- ④ Distributor box VTB-150 9x75
- ⑤ Distributor ducts DN75
- ⑥ Connection housing AG60 + selectable grille
- ⑦ Tangential casing TG-30 + Tangential add-on TGA + Tangential design grille
- ⑧ In-wall unit UPK-30 + disc valve extract air TVA
- ⑨ Storey distributor GVT-6

Fire areas and insulation thickness:  
 The local regulations must be observed!



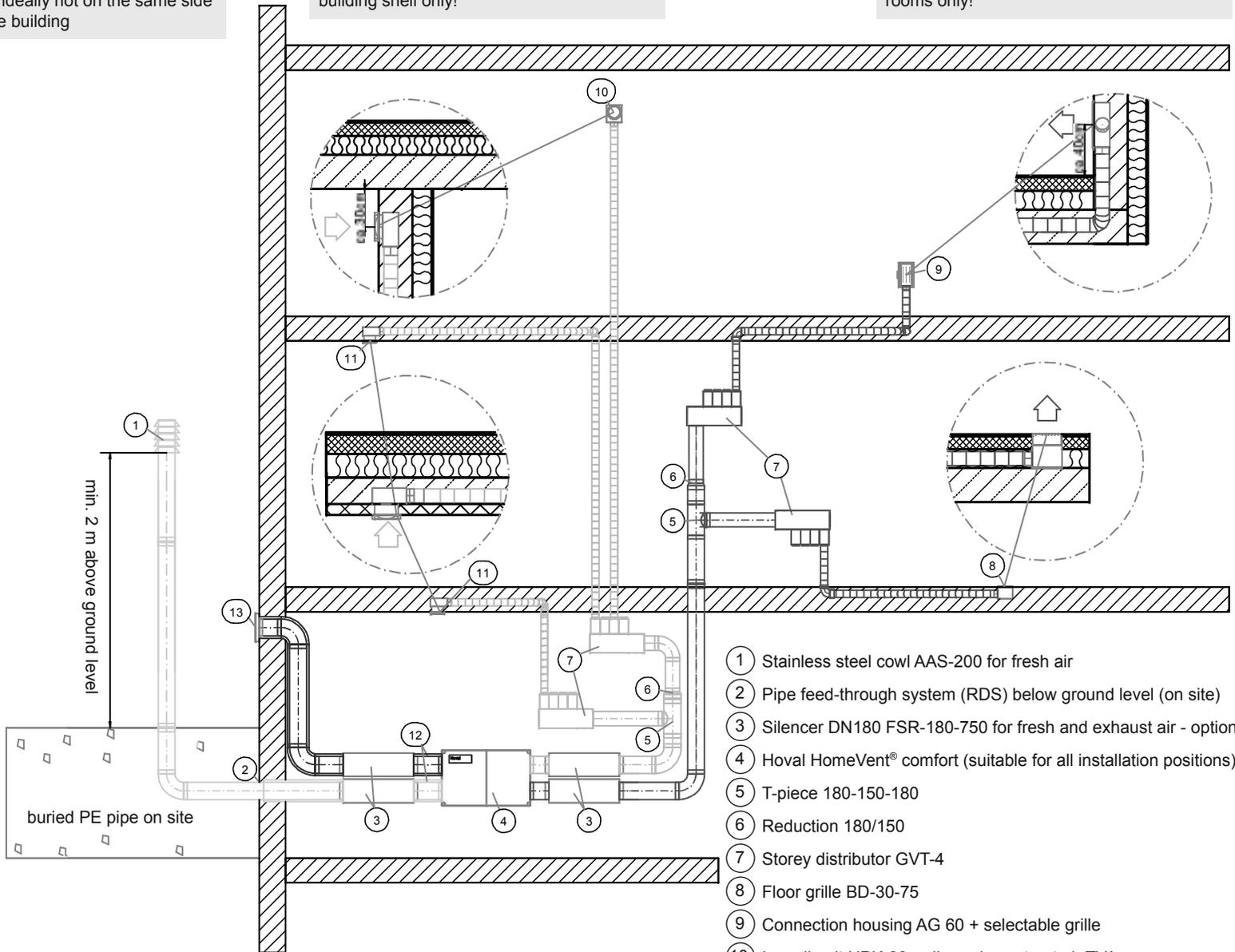
■ Examples

Example 3

Min. spacing fresh air/exhaust air  
 5 m, ideally not on the same side  
 of the building

Air ducts must be routed within the thermal  
 building shell only!

Supply and extract air openings in heated  
 rooms only!



Fire areas and insulation thickness:  
 The local regulations must be observed!

- ① Stainless steel cowl AAS-200 for fresh air
- ② Pipe feed-through system (RDS) below ground level (on site)
- ③ Silencer DN180 FSR-180-750 for fresh and exhaust air - optional
- ④ Hoval HomeVent® comfort (suitable for all installation positions)
- ⑤ T-piece 180-150-180
- ⑥ Reduction 180/150
- ⑦ Storey distributor GVT-4
- ⑧ Floor grille BD-30-75
- ⑨ Connection housing AG 60 + selectable grille
- ⑩ In-wall unit UPK-30 + disc valve extract air TVA
- ⑪ Filigree blanket set FDS-125
- ⑫ Diffusion-tight heat insulation for fresh and exhaust air
- ⑬ Weatherproof grille WG-180 for exhaust air

min. 2 m above ground level

buried PE pipe on site

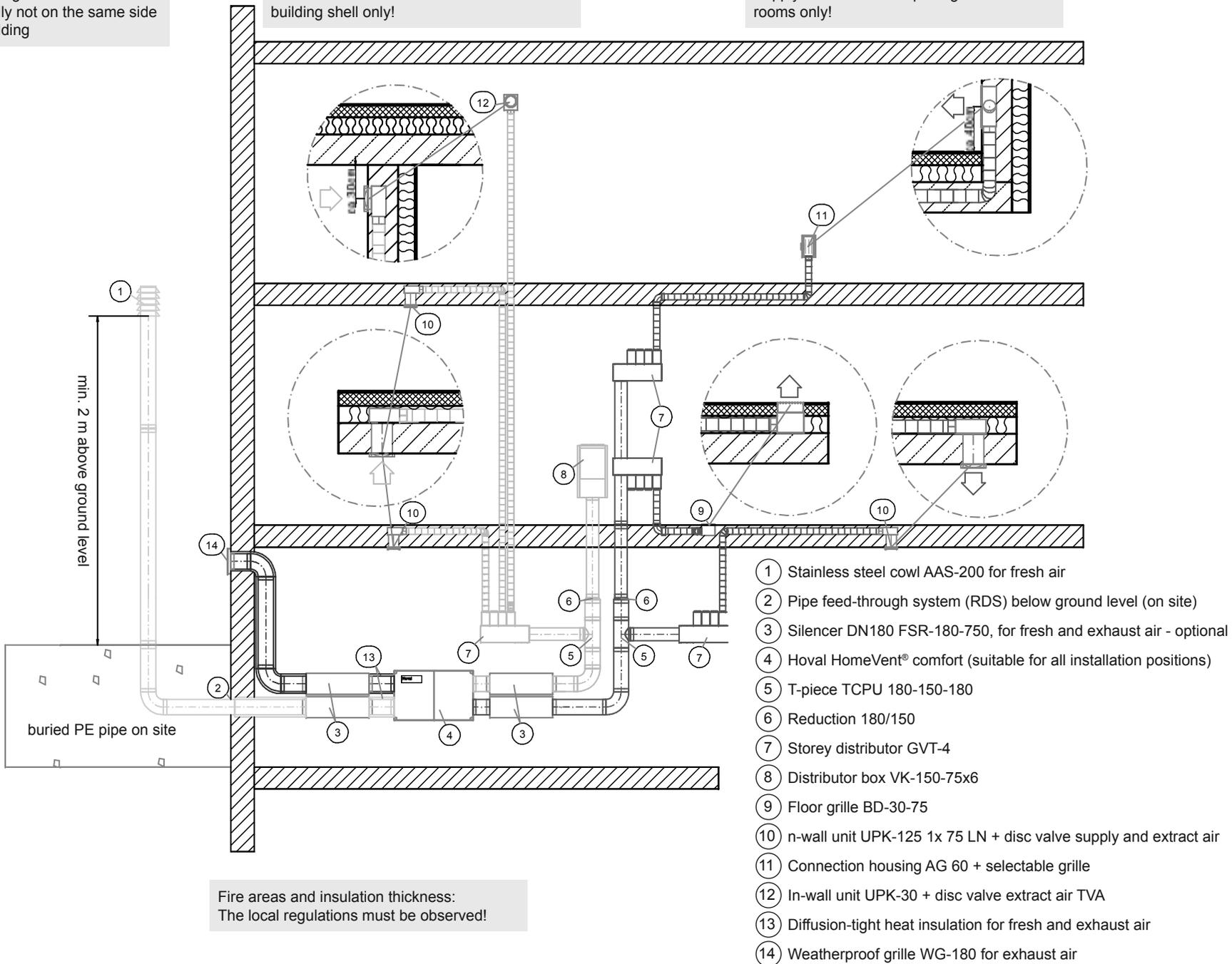
■ Examples

Example 4

Min. spacing fresh air/exhaust air  
 5 m, ideally not on the same side  
 of the building

Air ducts must be routed within the thermal  
 building shell only!

Supply and extract air openings in heated  
 rooms only!



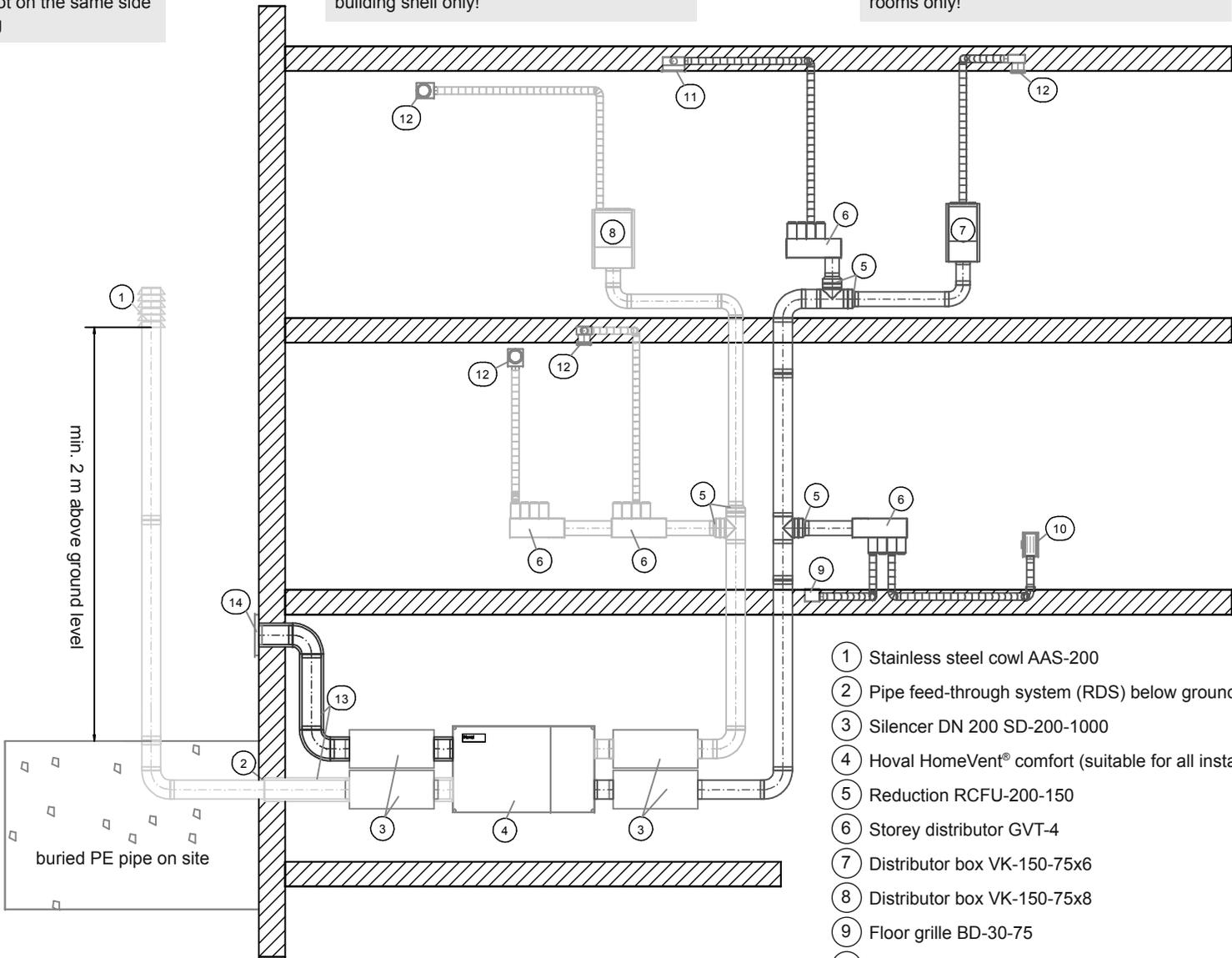
■ Examples

Example 5

Min. spacing fresh air/exhaust air  
 5 m, Ideally not on the same side  
 of the building

Air ducts must be routed within the thermal  
 building shell only!

Supply and extract air openings in heated  
 rooms only!



- ① Stainless steel cowl AAS-200
- ② Pipe feed-through system (RDS) below ground level (on site)
- ③ Silencer DN 200 SD-200-1000
- ④ Hoval HomeVent® comfort (suitable for all installation positions)
- ⑤ Reduction RCFU-200-150
- ⑥ Storey distributor GVT-4
- ⑦ Distributor box VK-150-75x6
- ⑧ Distributor box VK-150-75x8
- ⑨ Floor grille BD-30-75
- ⑩ Connection housing AG60 + selectable grille
- ⑪ Connection housing AG60 + extension VAG-60/90 + selectable grille
- ⑫ In-wall unit UPK-30 + disc valve extract air
- ⑬ Diffusion-tight heat insulation for fresh and exhaust air (on site)
- ⑭ Weatherproof grille WG-200 for exhaust air

Fire areas and insulation thickness:  
 The local regulations must be observed!

min. 2 m above ground level

buried PE pipe on site

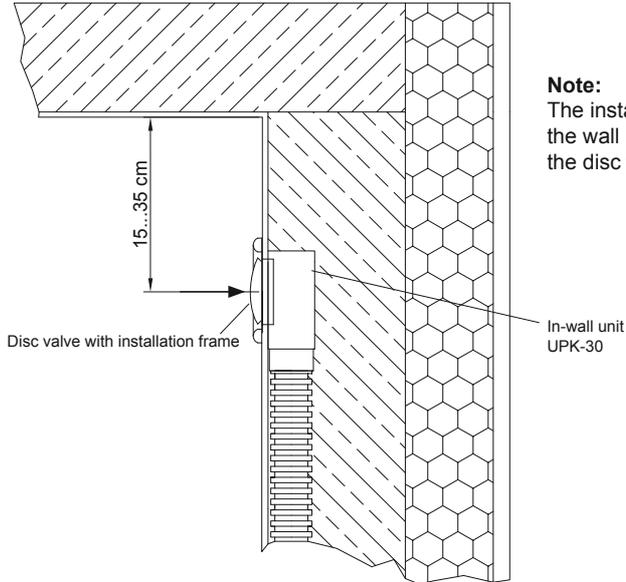
■ Engineering

Component installation instructions

**Example: extract air, wall installation**

Recommended material

- UPK-30
- TVA-125
- Sealing ring
- Flexible pipe



**Note:**

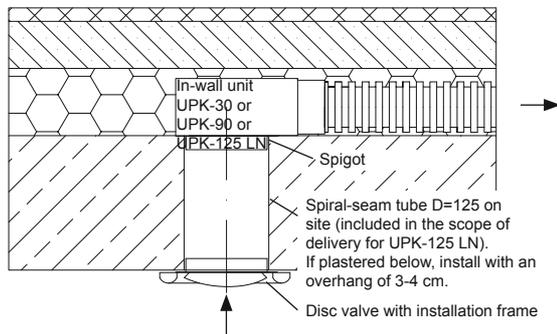
The installation frame of the disc valve must not be mounted before the wall is plastered or tiled (otherwise it will not be possible to mount the disc valve).

**Example: extract air, ceiling installation**

On concrete ceiling

Recommended material

- Flexible pipe
- Sealing
- UPK-30 (or UPK-125 LN) or UPK-90
- Spigot 125
- Spiral-seam tube (on site or included in the scope of delivery with UPK-125 LN)
- TVA-125



**Note:**

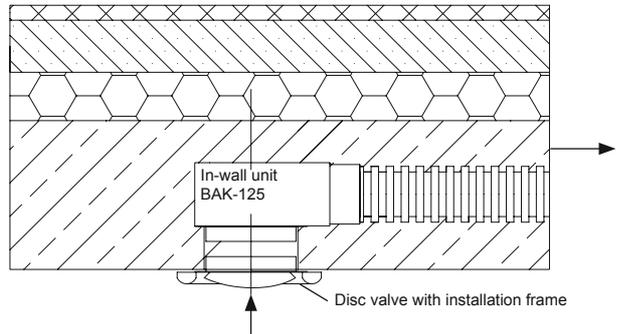
The installation frame of the disc valve must only be mounted after plastering (otherwise it will not be possible to mount the disc valve).

**Example: extract air, ceiling installation**

In concrete ceiling

Recommended material

- Flexible pipe
- Sealing
- Extract air set for concrete installation BAK-125-70 or BAK-125-90

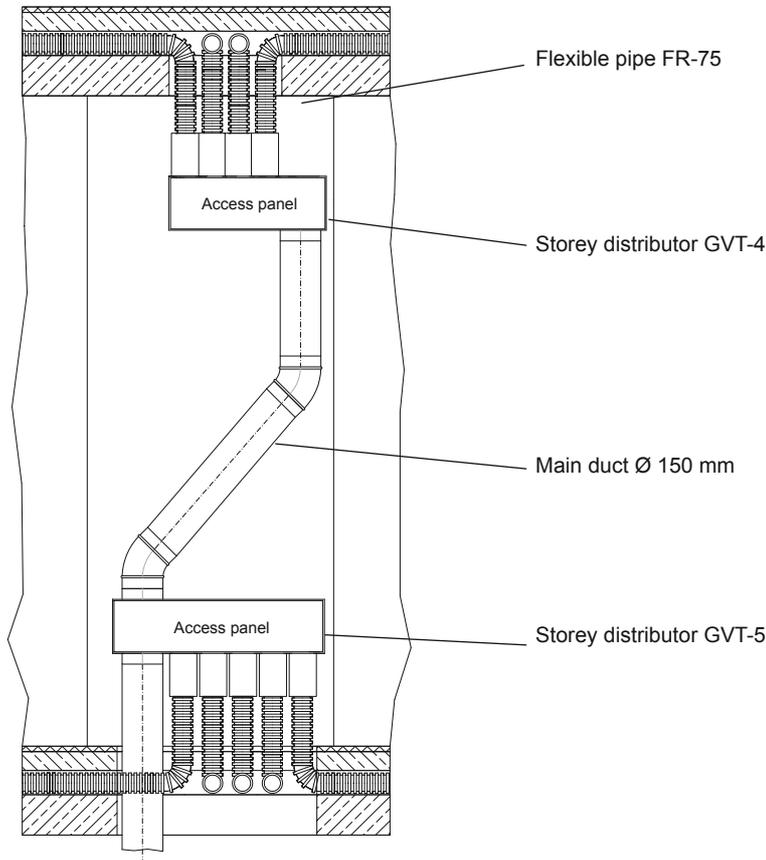


■ **Engineering**

Component installation instructions

**Example of supply air distribution:**

To achieve a simple design for the distribution of the supply air, the following version is recommended.



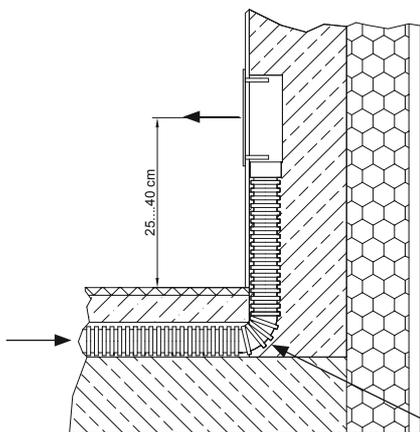
The access panel should be accessible for cleaning purposes. The air flow rate is controlled using baffles in the storey distributor.

The length of the supply ducts (applies to flexible pipe FR-75) should be at least 5.0 m, ideally not above 10.0 m.

**Example: supply air, wall**

Recommended material

- Connection housing AG-60 with required design grille
- Seal
- Flexible pipe



When routing flexible pipes on cold slab ceilings, use effective insulation (at least 3 cm) underneath (cold).

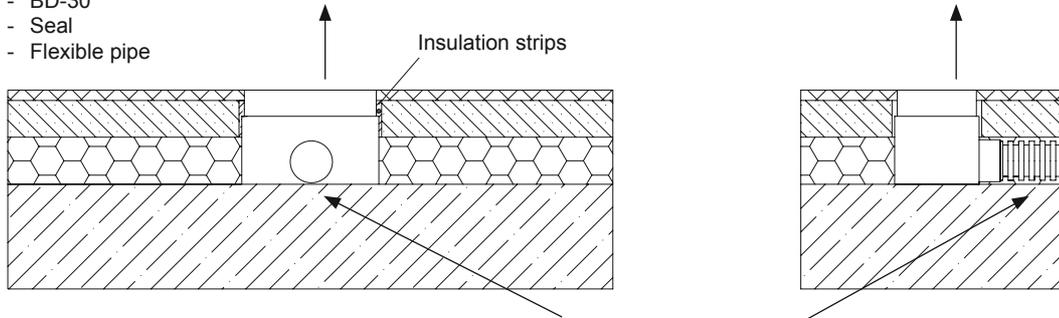
■ Engineering

Component installation instructions

**Example: floor grille BD-30**

Recommended material

- BD-30
- Seal
- Flexible pipe



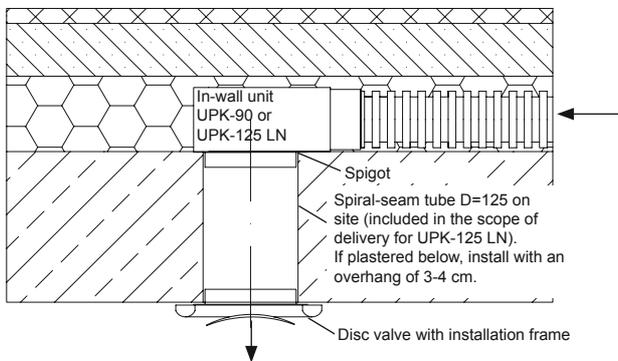
When routing flexible pipes on cold slab ceilings, use effective insulation (at least 3 cm) underneath (cold).

**Example: supply air, ceiling installation**

On concrete ceiling

Recommended material

- Flexible pipe
- Sealing
- UPK-90 or UPK-125 LN
- Spigot 125
- Spiral-seam tube (included in the scope of delivery for UPK-125 LN)
- TVZ-125

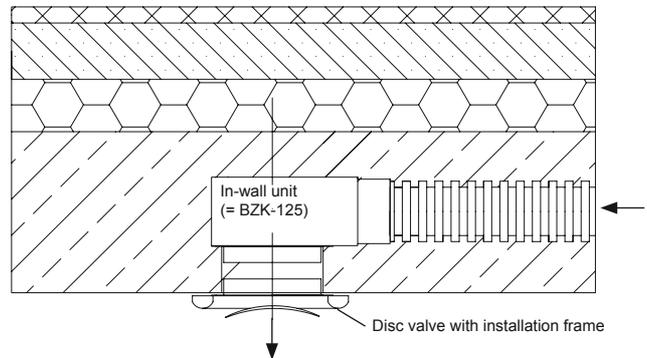


**Example: supply air, ceiling installation**

In concrete ceiling

Recommended material

- Flexible pipe
- Sealing
- Supply air set for concrete installation BZK-125-75 or BZK-125-90



**Note:**

The installation frame of the disc valve must only be mounted after plastering or tiling (otherwise it will not be possible to mount the disc valve).

When routing on cold slab ceiling/wall, use effective thermal insulation (at least 5 cm) underneath.

**Example: supply air, filigree blanket installation**

In concrete ceiling

Recommended material

- Filigree blanket set FDS-125
- Sealing ring
- In-wall unit 10 x Ø X for concrete installation
- Flexible pipe

<sup>1</sup> access panel

