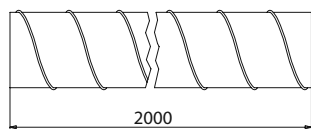
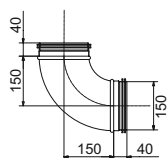


■ Part No.


**Pipe system DN 150
of sheet steel**
Part No.

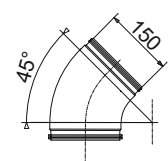
Spiral-seam tube WFR-150
of galvanised sheet steel
DN 150, length: 2 m

2045 240



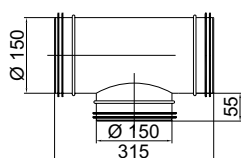
Pipe bend BU-150-90
90° bend of galvanised sheet steel
with double lip seal
DN 150

2015 667



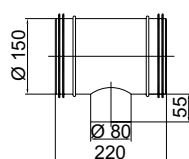
Pipe bend BU-150-45
45° bend of galvanised sheet steel
with double lip seal
DN 150

2022 208



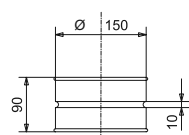
T-piece TCPU-150-150
of galvanised sheet steel
with double lip seal
DN 150/ DN 150/ DN 150

2024 255



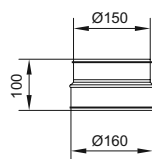
T-piece TCPU-150-80
of galvanised sheet steel
with double lip seal
DN 150/ DN 80/ DN 150

2024 257



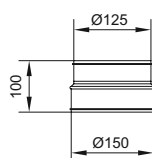
Sleeve MF-150
of galvanised sheet steel
DN 150

2015 668



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

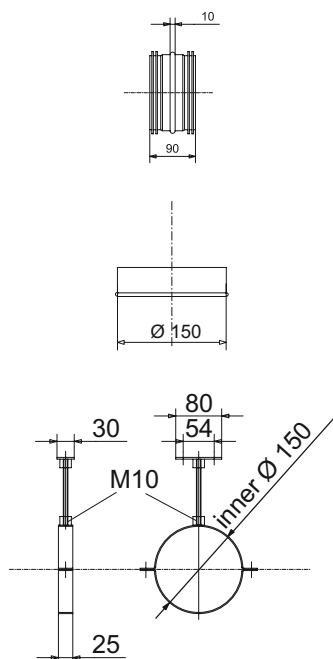
2024 260



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

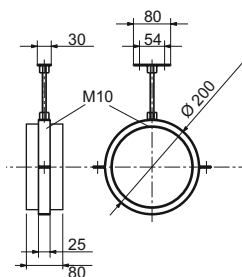
2023 562



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.

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

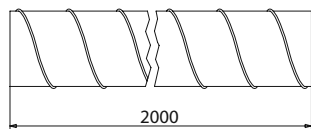
2021 796



Ventilation silicone
for sealing air ducts,
heat and cold resistant

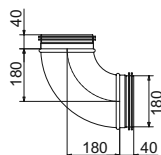
3000 009

■ Part No.


Pipe system DN 180
Part No.

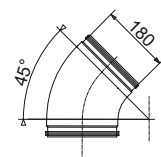
Spiral-seam tube WFR-180
of galvanised sheet steel
DN 180, 2 m long

2057 030



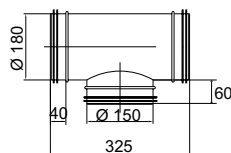
Pipe bend BU-180-90
90° bend of galvanised sheet steel
with double lip seal
DN 180

2057 047



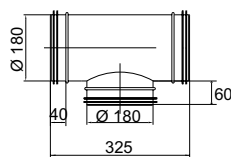
Pipe bend BU-180-45
45° bend of galvanised sheet steel
with double lip seal
DN 180

2057 048



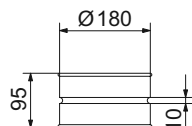
T-piece TCPU-180-150-180
of galvanised sheet steel
with double lip seal
DN 180/ DN 150/ DN 180

2057 050



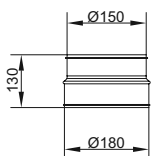
T-piece TCPU-180-180-180
of galvanised sheet steel
with double lip seal
DN 180/ DN 180/ DN 180

2057 049



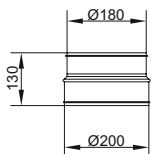
Sleeve MF-180
of galvanised sheet steel
DN 180

2057 051



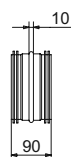
Reduction/extension RCFU-180-150
of galvanised sheet steel
with double lip seal
DN 180 nipple/ DN 150 nipple

2057 052



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

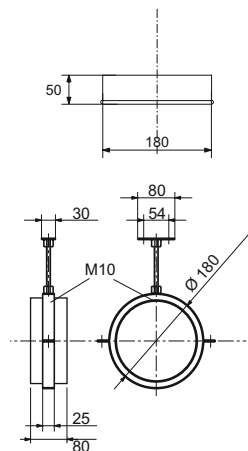
2057 053



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

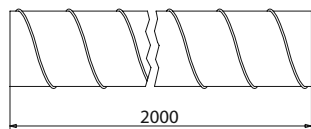
2057 874



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

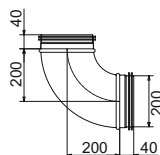
2057 875

■ Part No.


Pipe system DN 200
Part No.

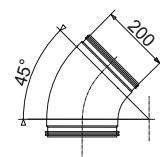
Spiral-seam tube WFR-200
of galvanised sheet steel
DN 200, length: 2 m

2045 707



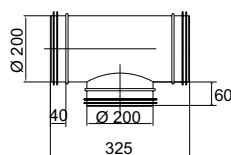
Pipe bend BU-200-90
90° bend of galvanised sheet steel
with double lip seal
DN 200

2040 734



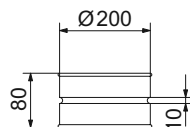
Pipe bend BU-200-45
45° bend of galvanised sheet steel
with double lip seal
DN 200

2040 735



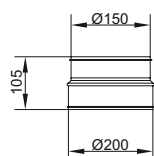
T-piece TCPU-200-200
of galvanised sheet steel
with double lip seal
DN 200/ DN 200/ DN 200

2040 736



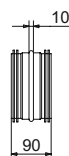
Sleeve MF-200
of galvanised sheet steel
DN 200

2040 737



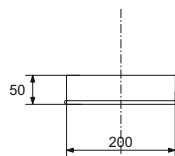
Reduction/extension RCFU-200-150
of galvanised sheet steel
with double lip seal
DN 200 nipple/DN 150 nipple

2040 738



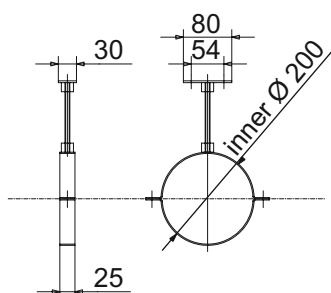
Nipple NPU-200
of galvanised sheet steel
with double lip seal
DN 200

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

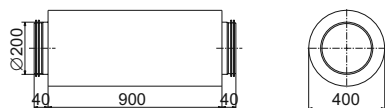
Accessories DN 200

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

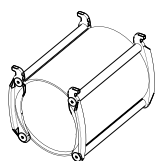


Sealing ring DI-75 signal blue
for flexible pipe DN 75
DN 75

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.



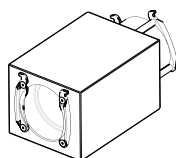
Double sleeve DM-75
for flexible pipe DN 75
for connecting flexible pipes DN 75

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

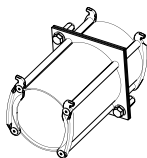
6020 756

■ Part No.

Accessories DN 75

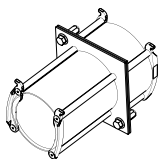
Part No.

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

6013 047

for flexible pipe DN 75 for extending a flexible pipe through the ceiling or the floor without damaging the boarding DN 75


Formwork coupling SK-75/90

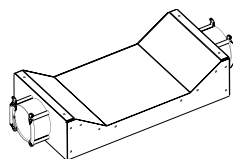
6030 820

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.


Pipe bend RB-75

6022 967

for flexible pipe DN 75 for connecting flexible pipes at an angle of 90° DN 75


Flexible pipe crossing FRK-75

6031 011

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.

Cable tie: 4.8 x 302 mm

2057 027

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

Cable tie: 7.6 x 380 mm

2057 028

For attaching flex pipes to the reinforcement.
100 pcs./package
Colour: natural

Cable tie: 9.0 x 610 mm

2057 029

For attaching flex pipes to the reinforcement.
50 pcs./package
Colour: natural

■ 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

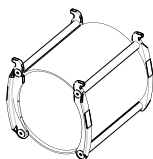
Part No.

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



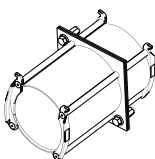
Double sleeve DM-90
for flexible pipe DN 90
for connecting flexible pipes DN 90

6022 494



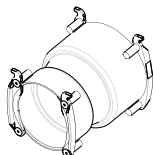
Plug ST-90
for flexible pipe DN 90
for flexible pipe ending

2037 296



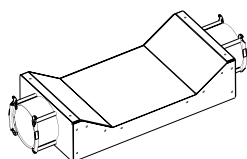
Formwork coupling SK-90
for flexible pipe DN 90 for extending a
flexible pipe through the ceiling or the
floor without damaging the boarding
DN 90

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.

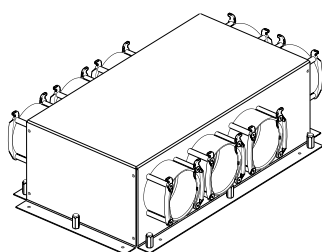
Distributor units DN 150

Part No.

Application:
Preferably concrete installation
(mass concrete)

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

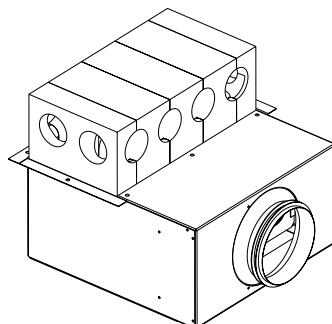
- The connection plate AP is mounted in the ceiling, in the floor or in the wall (set in concrete).
- The distributor unit VKA is then flanged directly on to the connection plate AP when the building shell is completed.



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

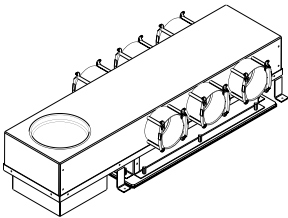


Distributor unit VKA to connection plates AP

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.



Access panel on bottom

Distributor units DN 150

Part No.

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

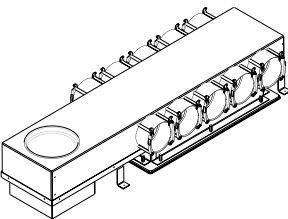
**In-wall distributor unit 6 x Ø X
for concrete installation**

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

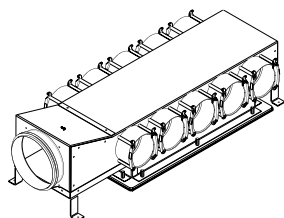
UPVK 10 x Ø 75
UPVK 10 x Ø 90

6022 677
6022 498

■ Part No.

Distributor units DN 150

Part No.



Access panel on bottom

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

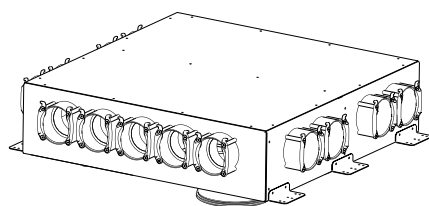
In-wall distributor unit UPVKS 10 x Ø X for concrete installation

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.

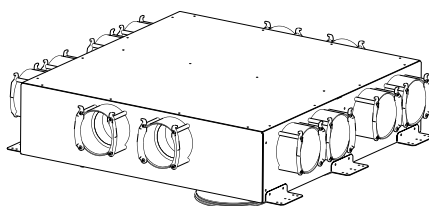
Connection nozzle:
2x DN 150 (downward)
ZUL 9x75 resp. ABL 9x75
ZUL 6x90 resp. ABL 6x90

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



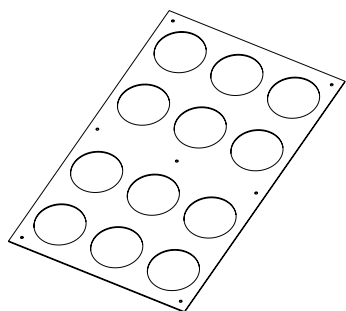
Access panel on bottom

■ Part No.

Distributor units DN 150

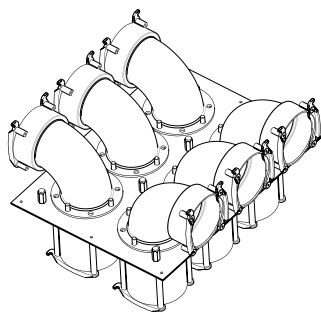
Part No.

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



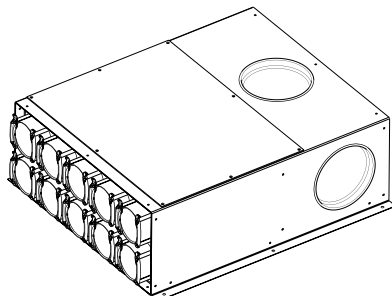
Section distributor SV-6 x 75
for flexible pipe DN 75
for space-saving laying of
6 flexible pipes in the ceiling.
Option of 6 x 90° bends or 3
straight connecting pieces. Each 90°
elbow can be turned at 45° increments.
6 x DN 75
One section distributor required for
each supply and exhaust air source.

6042 706

■ Part No.

Distributor units DN 150

Part No.

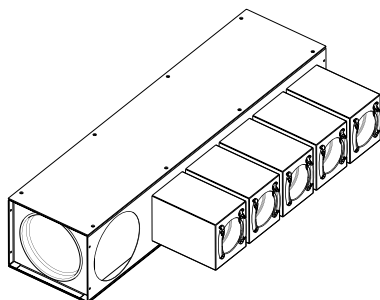


Application:
On-wall installation

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.

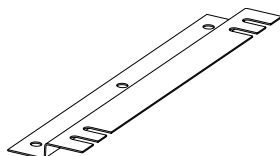
Type	Connections	
VK-150-75x6	6	6033 963
VK-150-75x8	8	6033 964
VK-150-75x10	10	6034 035



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.

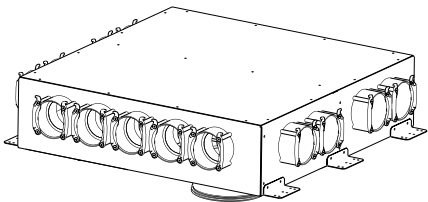
5032 853

■ Part No.

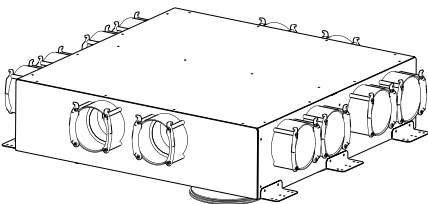
Distributor units DN 180

Part No.

Application:
Preferably concrete installation
(mass concrete)



Access panel on bottom

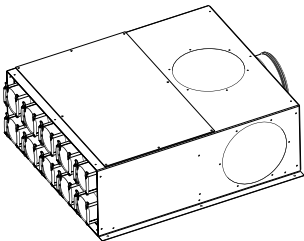


Access panel on bottom

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	6037 584
VTB-180 6x 90	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.

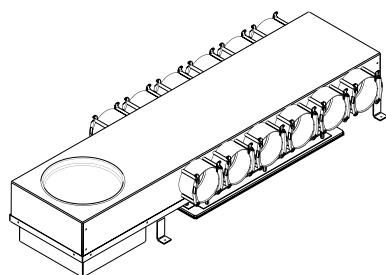
Type	Connections	
VK-180-75x6	6	6036 603
VK-180-75x8	8	6031 881
VK-180-75x10	10	6035 673
VK-180-75x12	12	6035 674
VK-180-90x6	6	6036 143
VK-180-90x8	8	6031 880
VK-180-90x10	10	6035 675
VK-180-90x12	12	6035 711

■ Part No.

Distributor units DN 200

Part No.

Application:
Preferably concrete installation
(mass concrete)



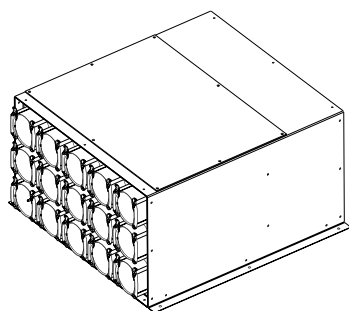
Access panel on bottom

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

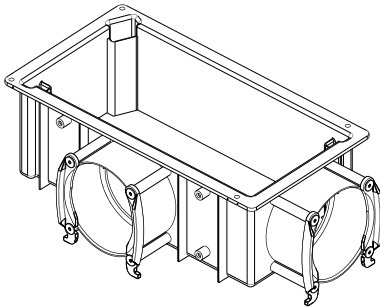
6022 513

■ Part No.

Air grilles - wall/ceiling

Part No.

Application:
Mass concrete, masonry walls and light-weight walls


Connection housing AG-60

6034 355

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

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

Supply air:

1 x DN 75 up to 30 m³/h

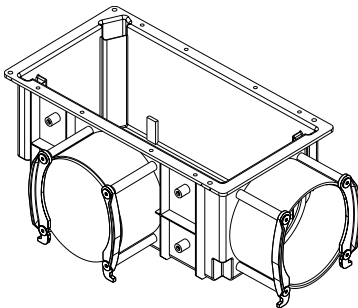
2 x DN 75 for 40 m³/h

Exhaust air:

1 x DN 75 up to 30 m³/h

2 x DN 75 up to 60 m³/h

For installation in solid concrete, masonry and plasterboard walls.


Connection housing AG-90

6034 357

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

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

Supply air:

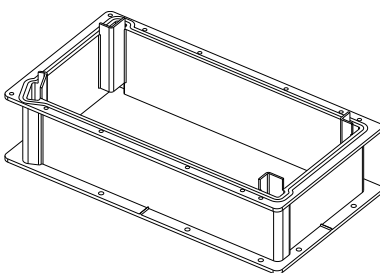
1 x DN 90 up to 40 m³/h

Exhaust air:

1 x DN 90 up to 60 m³/h

For installation in solid concrete, masonry and plasterboard walls.

Application:
Mass concrete


Extension VAG-60/90

6034 360

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

Raising height: 60 mm

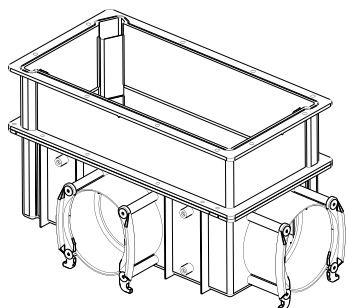
Extension permits precise grille alignment after installation.

■ 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 m³/h

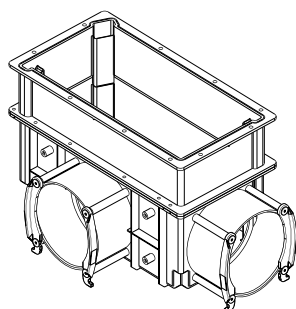
2 x DN 75 for 40 m³/h

Exhaust air:

1 x DN 75 up to 30 m³/h

2 x DN 75 up to 60 m³/h

For installation in solid concrete.


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 m³/h

Exhaust air:

1 x DN 90 up to 60 m³/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

retrofitable 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

6034 056

for connection housing AG-60, AG-90, AGV-60 and AGV-90

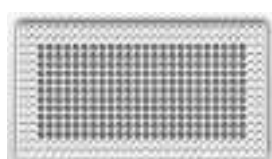
Of plastic (white RAL 9016) with plug connection.

Suitable for:

supply air up to 40 m³/h

extract air up to 60 m³/h

can be painted on site.


Design grille Adria

6034 057

for connection housing AG-60, AG-90, AGV-60 and AGV-90

Of plastic (white RAL 9016)

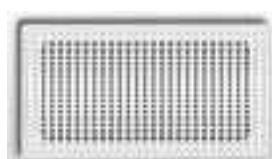
with plug connection.

Suitable for:

supply air up to 40 m³/h

extract air up to 60 m³/h

can be painted on site.


Design grille Atlantic

6034 058

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 m³/h

extract air up to 60 m³/h

can be painted on site.

■ 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 m³/h

extract air up to 60 m³/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 m³/h

extract air up to 60 m³/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 m³/h

extract air up to 60 m³/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 m³/h

extract air up to 60 m³/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 m³/h

extract air up to 60 m³/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 m³/h

extract air up to 60 m³/h

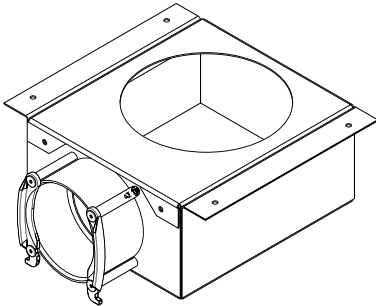
6028 157

■ Part No.

Air grilles - wall/ceiling

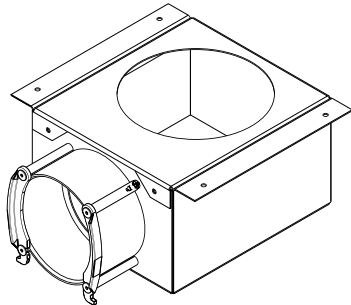
Part No.

Application:
Masonry walls, lightweight walls



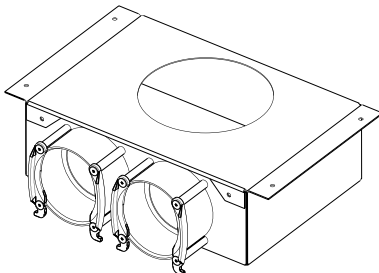
In-wall connection box UPK-30
for disc valve supply air TVZ-125 and
disc valve extract air TVA-125
made from galvanised sheet steel
with 1 connection DN 75,
building protection cover
Supply air:
1 x DN 75 up to 30 m³/h
Extract air:
1 x DN 75 up to 30 m³/h

6022 148



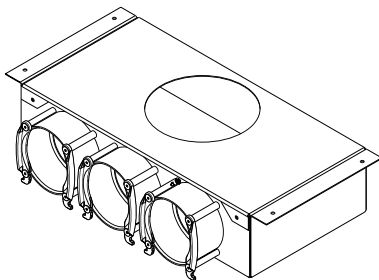
In-wall connection box UPK-90
for disc valve supply air TVZ-125 and
disc valve extract air TVA-125
made from galvanised sheet steel
with 1 connection DN 90,
building protection cover
Supply air:
1 x DN 90 up to 40 m³/h
Extract air:
1 x DN 90 up to 60 m³/h

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



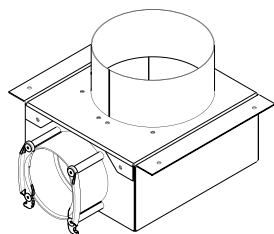
In-wall connection box UPK-80
for disc valve waste air TVA-125
or disc valve TVZ-125
made of galvanized sheet steel
with 3 connections DN 75,
building protection cover
Supply air:
1 x DN 75 to 30 m³/h
2 x DN 75 to 40 m³/h
3 x DN 75 to 50 m³/h
Extract air:
1 x DN 75 to 30 m³/h
2 x DN 75 to 60 m³/h
3 x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

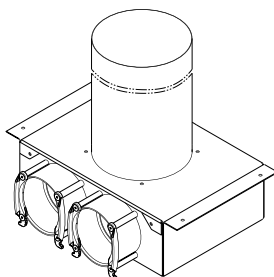
Type

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

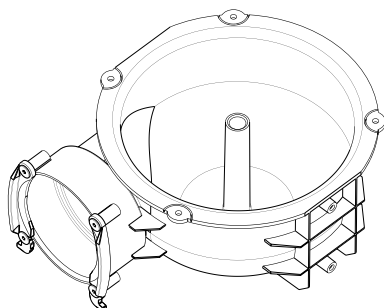
for concrete installation
Connection box UPK-90 with connection nozzle DN 90 and building protection cover, spigot and installation frame, disc valve TVA-125.
Extract air up to 60 m³/h

■ Part No.

Air grilles - wall/ceiling

Part No.

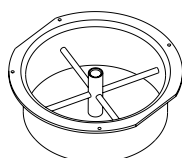
Application:
Mass concrete, masonry walls, light-weight construction



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

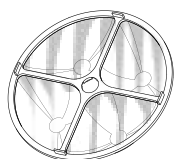
6023 060

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.

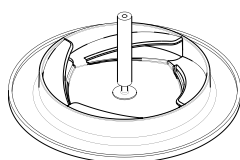
5020 632

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

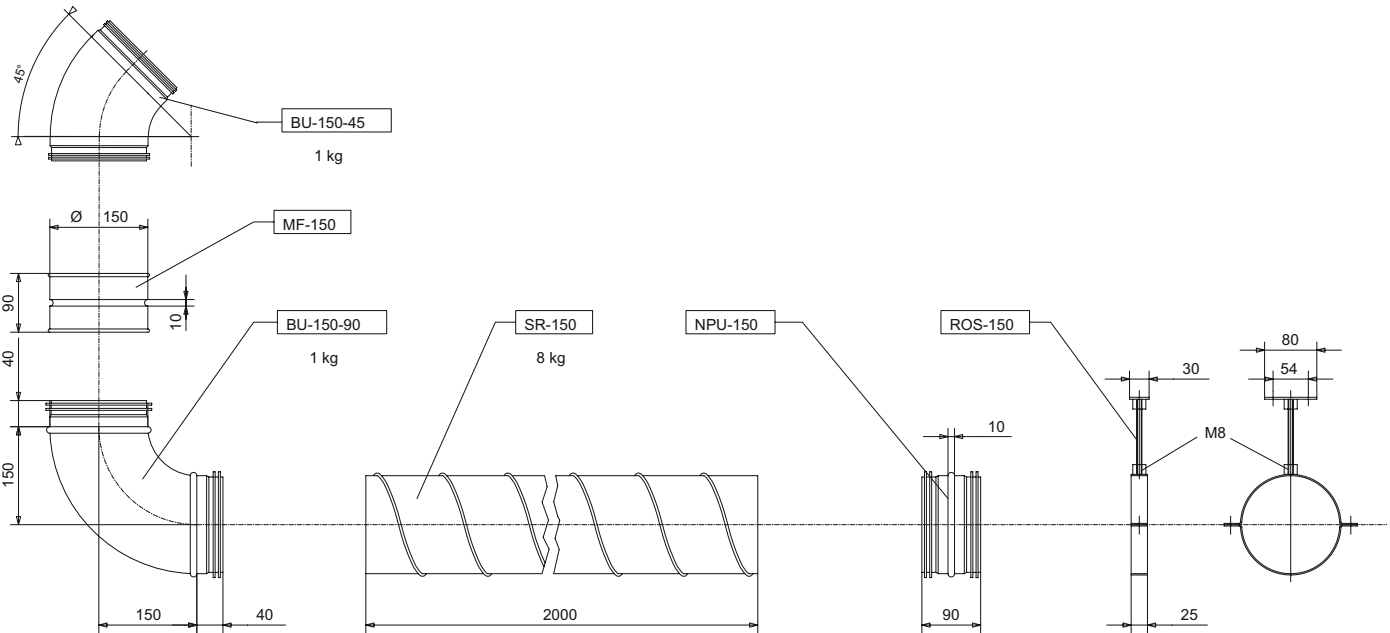
6022 516

■ 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 λ at 0 °C is 0.032 W/mK
Steam diffusion resistance ≥ 7000
Fire class 5.3 or B1



Thermal insulation tube: for spiral-seam tube DN 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

150	15	85	180	210	210
160	43	140	246	203	286
200	43	140	286	243	326

d = thickness of material in mm

Heat conductivity 0.035 W/mK

Dimensions in mm

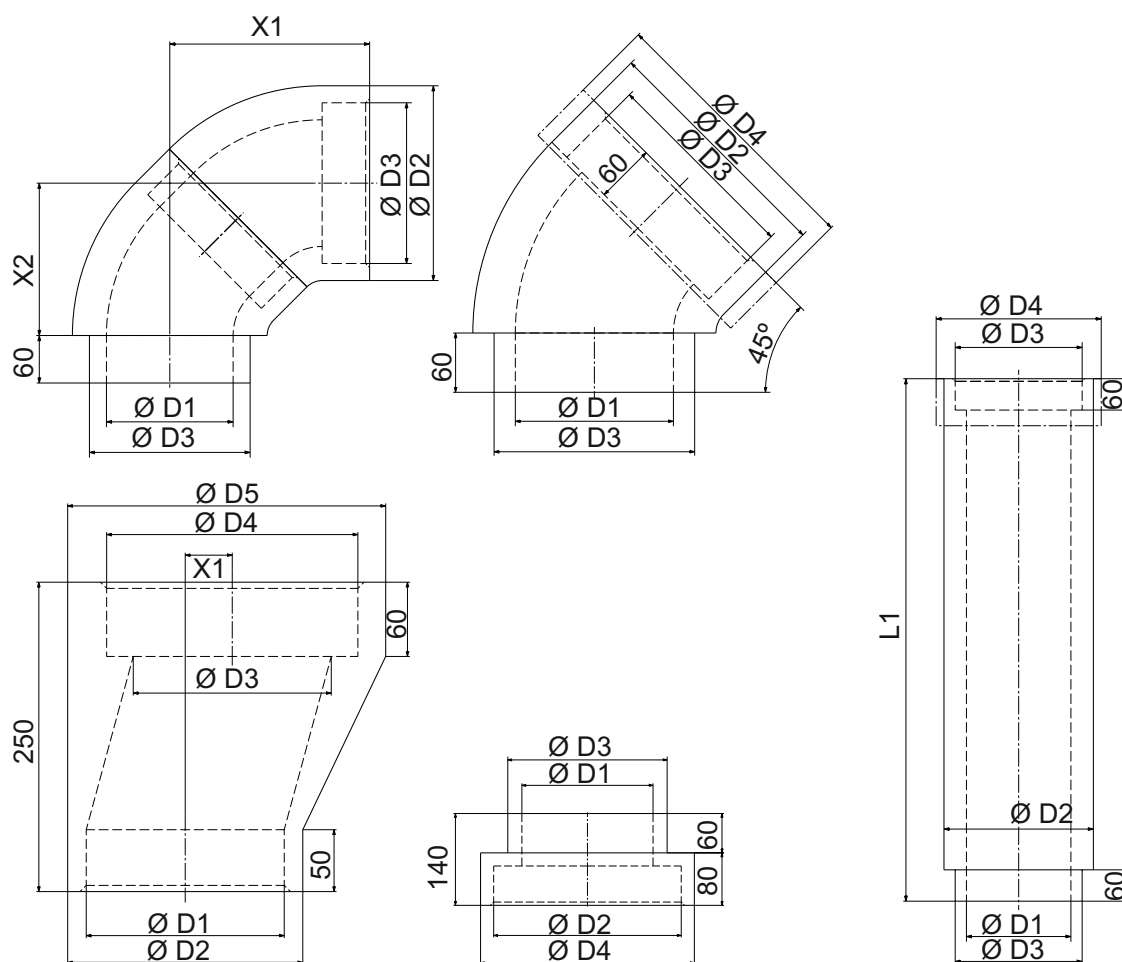
D1	d	D2	D3	D4	D5	X1	X2
Elbow bend 45°							
150	15	180	180	210			
160	43	246	203				
200	43	286	243				

Elbow bend 90°

150	15	180	180	210		245	
160	43	246	203			252	192
200	43	286	243			272	212

Eccentric adapter

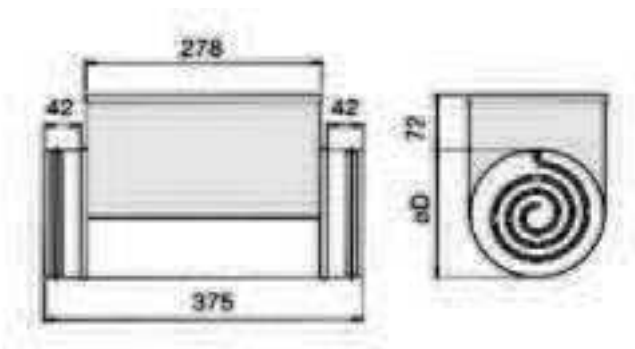
150/160	43	180	160	203	257	38	
160/160	43	190	160	203	257	38	
180/200	43	210	200	243	290	48	



■ Technical data

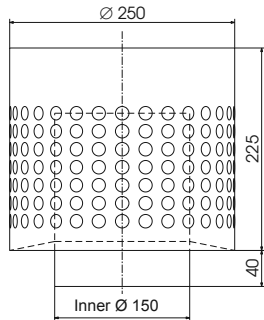
Komfort Plus CB-150-3

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

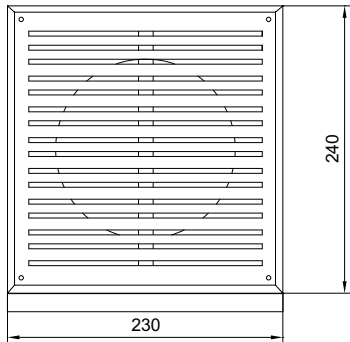
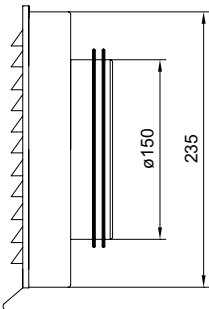
for spiral-seam tube DN 150
for outside and exhaust air
of galvanised sheet steel
Installation position: vertical



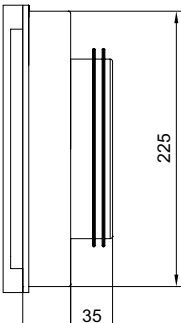
Volume flow [m³/h]	Pressure drop Outside air [Pa]	Pressure drop Exhaust air [Pa]
150	10	5
200	18	9
250	28	15

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

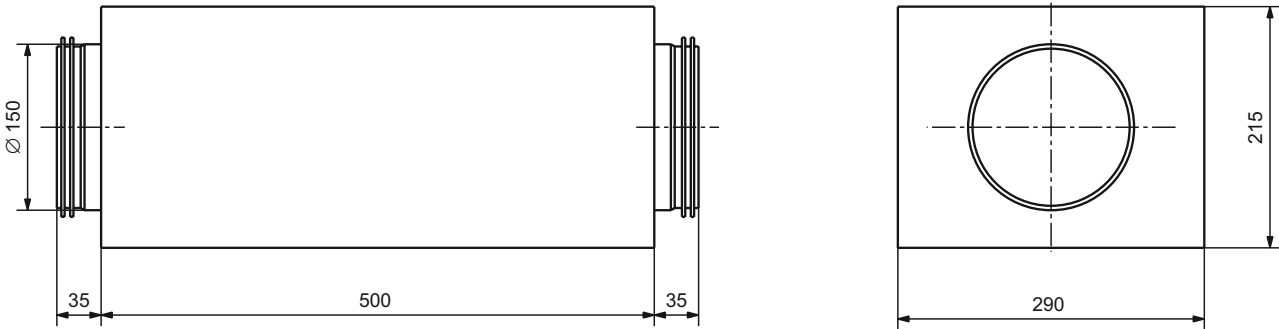


■ Technical data

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.

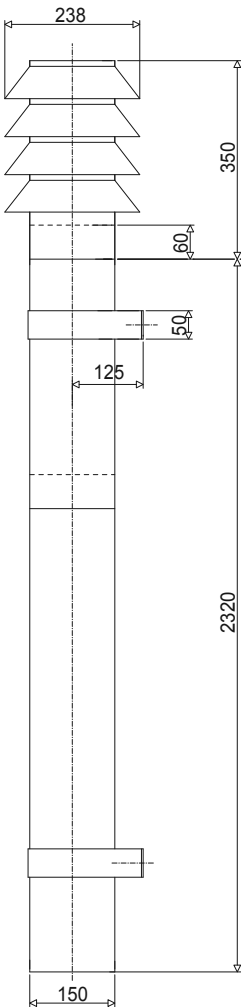
Frequency [Hz]	125	250	500	1000	2000	4000	8000
Damping [dB]	6	10	19	23	32	25	16



Outside air intake set AAS-150

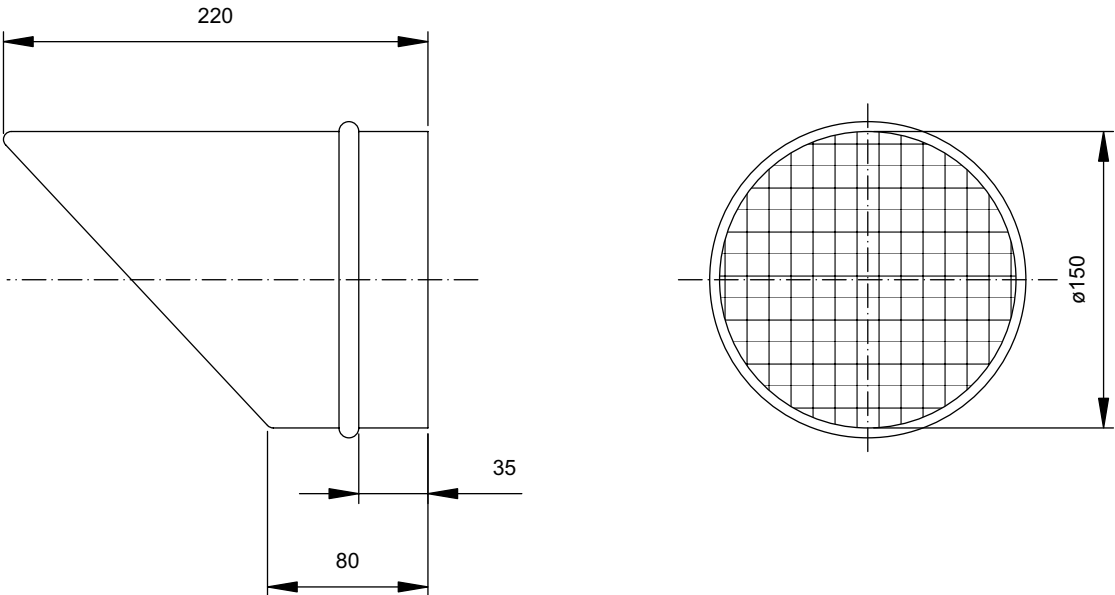
for spiral-seam tube DN 150,
galvanic isolation of the connection
for outside and exhaust air
of stainless steel, lamella cowl,
1 pipe DN 150, length: 0.5 m,
2 pipes DN 150, length: 1 m and
2 wall mountings

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

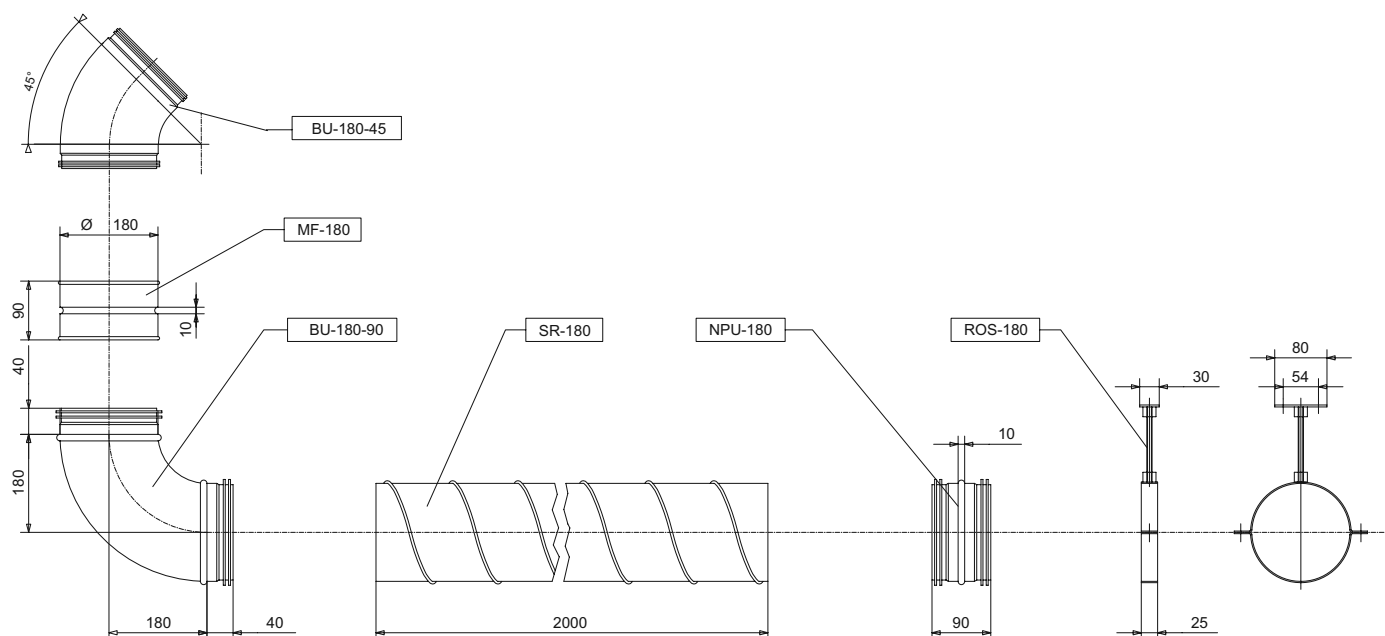


■ Technical data

Pipe system DN 180

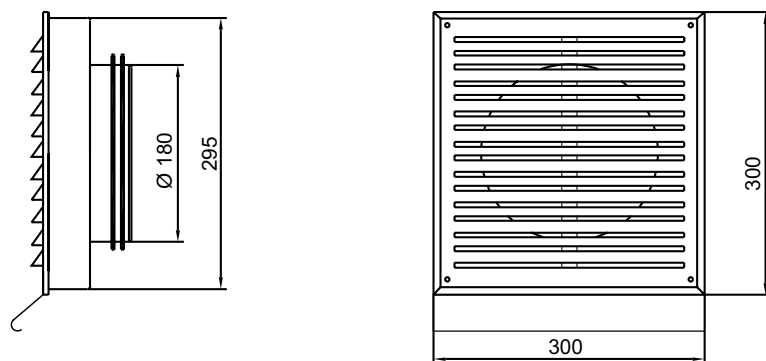
The pipe system consists of galvanised steel with double lip seal.
Pipe 0.5 mm thick.

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

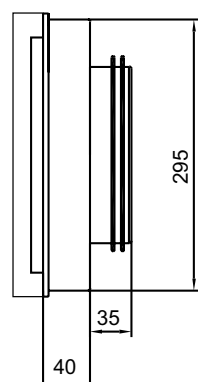


Weatherproof grille WG-180

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

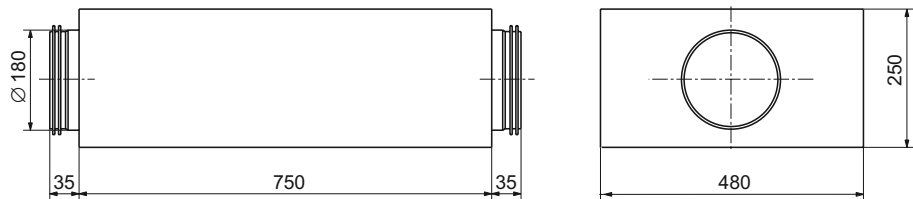


■ Technical data

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.

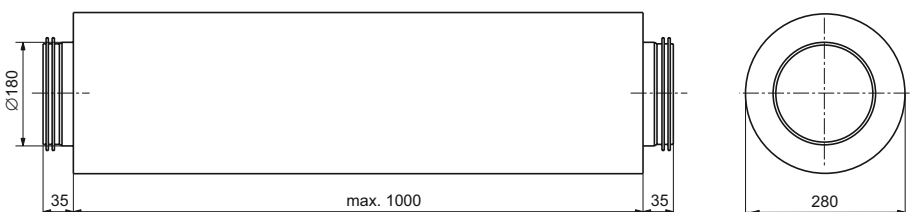
Frequency [Hz]	125	250	500	1000	2000	4000	8000
Simple damping [dB]	4	11	12	12	12	7	3



Silencer FLSDA-180-1000

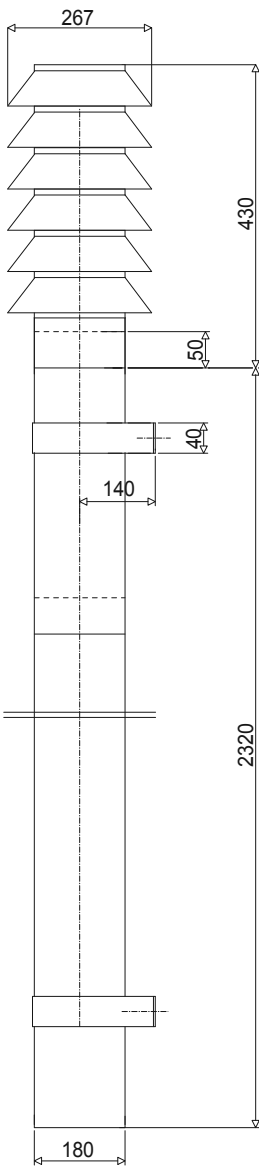
The silencer consists of a flexible aluminium envelope tube, inside from perforated aluminium tube with connection nozzles on both sides with double lip seal.

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



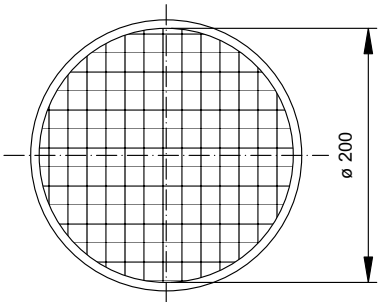
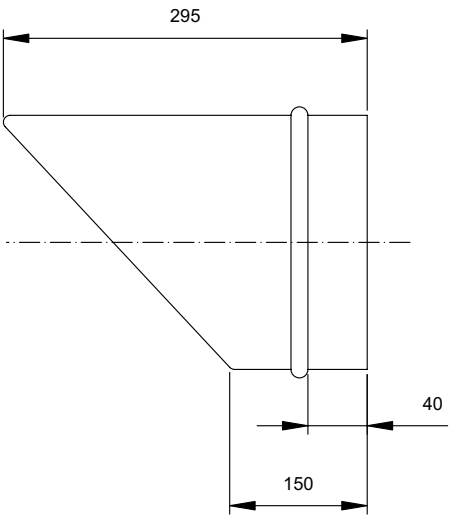
Stainless steel cowl AAS-180

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



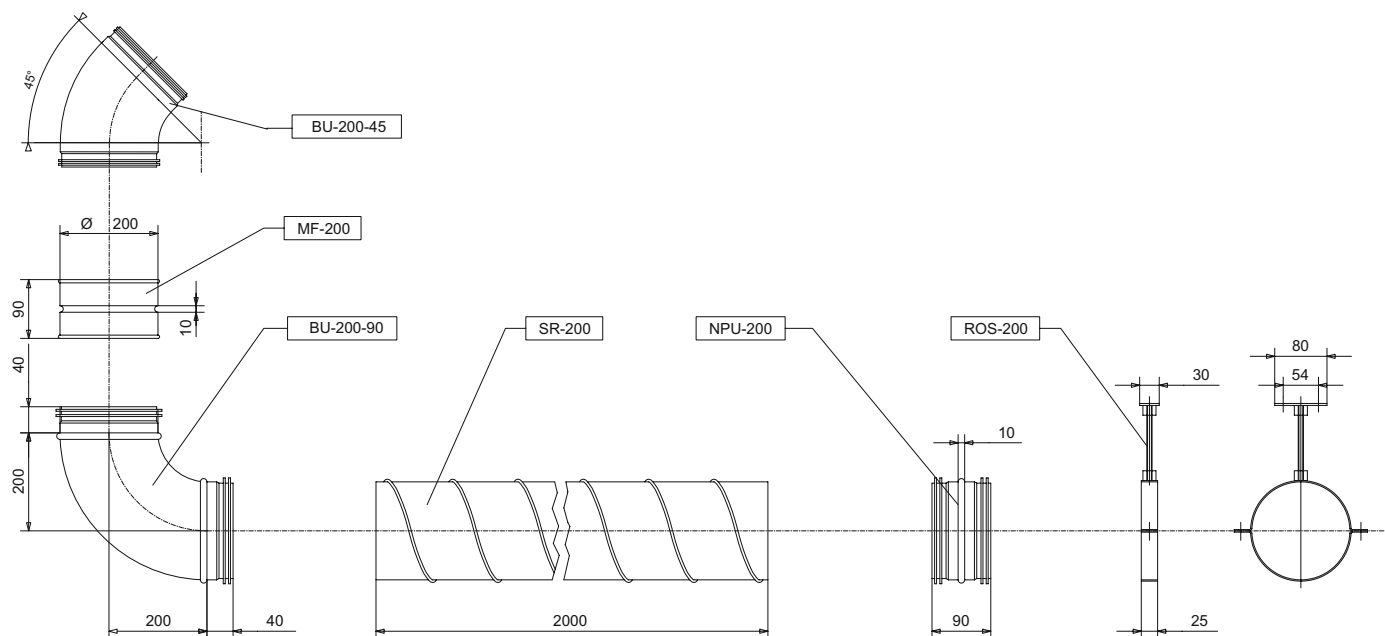
■ Technical data

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

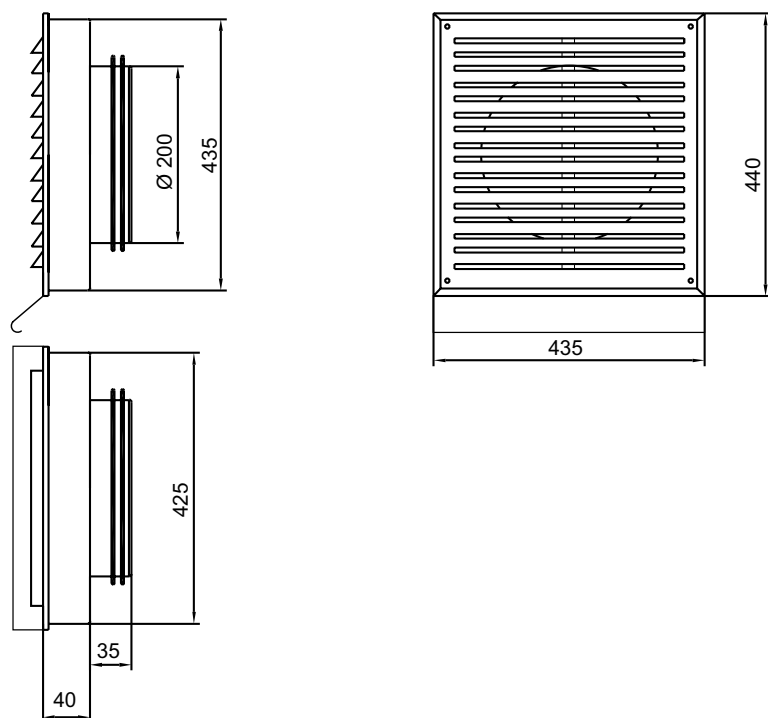
for outside and exhaust air

of aluminium with rain lug, can be

painted

with double lip seal,

pipe nozzle DN 200



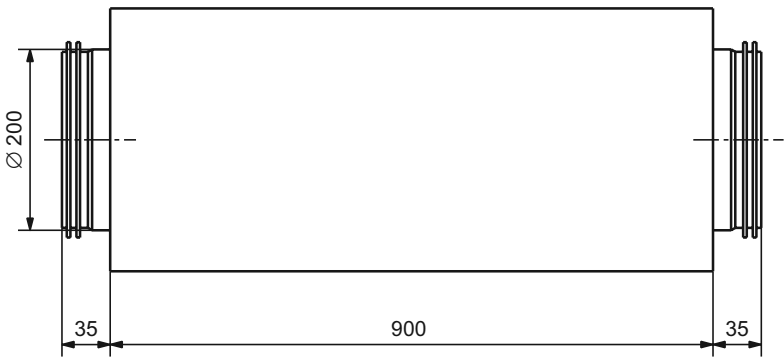
Volume flow [m³/h]	Pressure drop [Pa]
150	4
350	8
500	12

■ Technical data

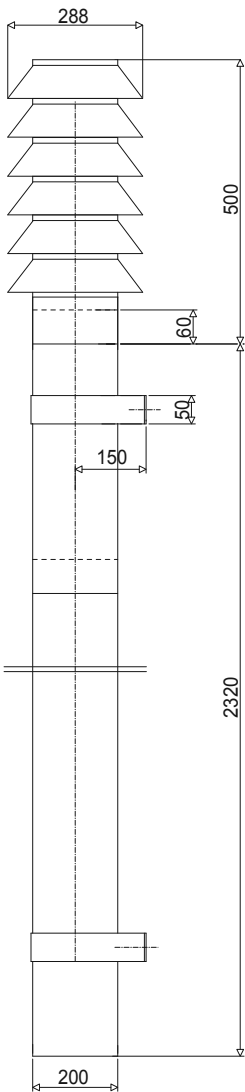
Silencer SD-200-1000

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

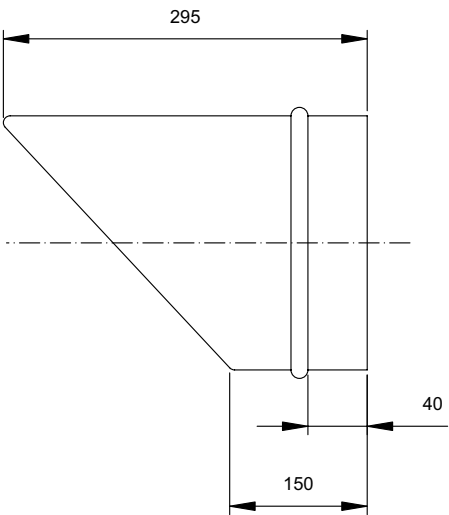


Stainless steel cowl AAS-200
for spiral-seam tube DN 200
galvanic isolation of the connection
for outside and exhaust air
of stainless steel, lamella cowl,
1 pipe DN 200, length: 0.5 m,
2 pipes DN 200, length: 1 m and
2 wall mountings



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.

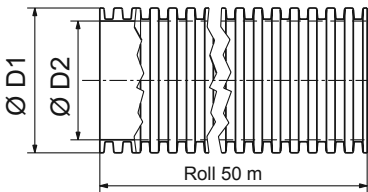
Antistatic coating

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

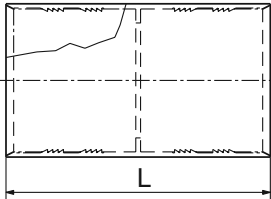
Flexible pipe FR



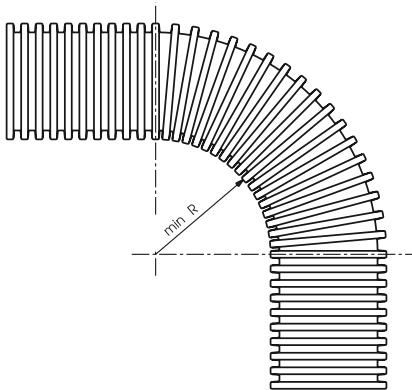
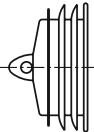
Sealing ring DI



Double sleeve DM



Stopper ST

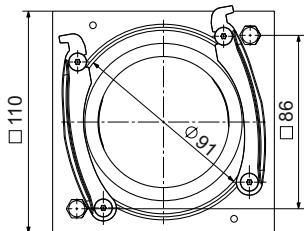
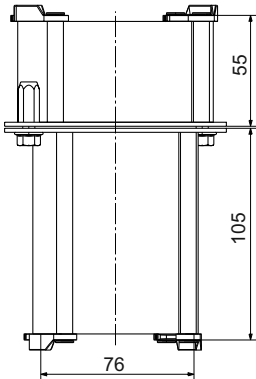


Pipe system	D1 [mm]	D2 [mm]	L [mm]	R
DN 75	75	62	100	75
DN 90	90	76	100	90

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.

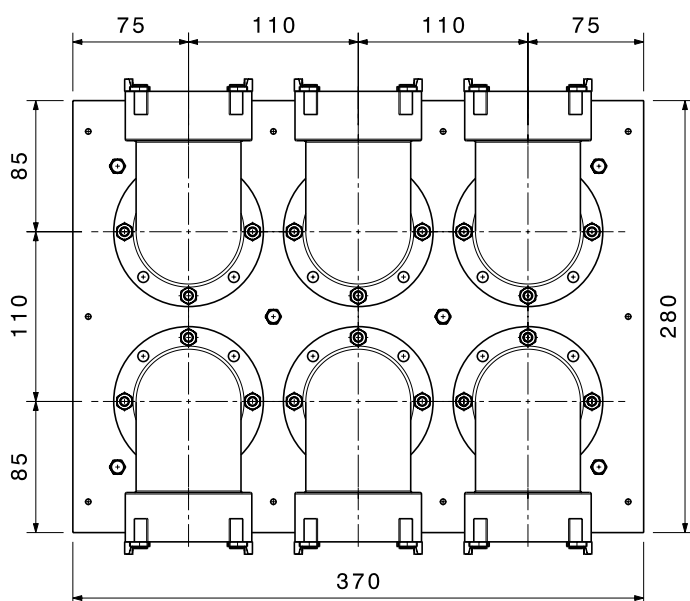
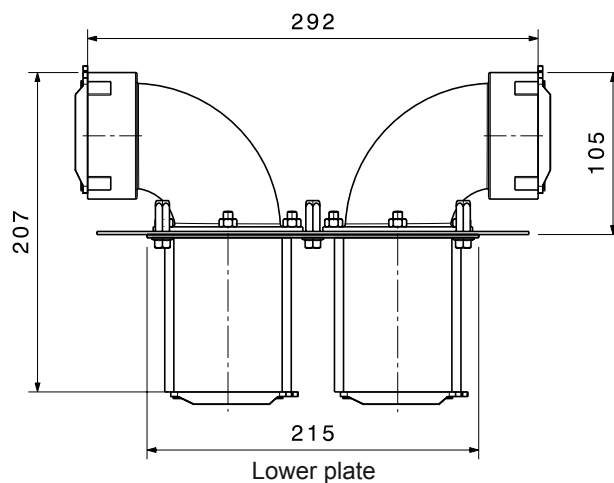
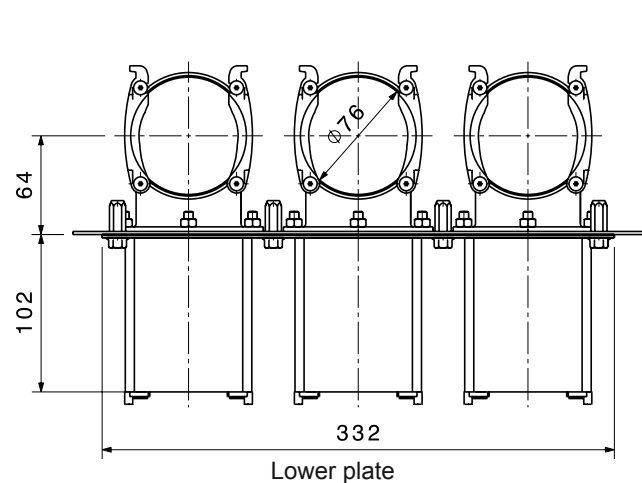


■ Technical data

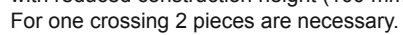
Section distributor SV-6x75

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.



For one crossing 2 pieces are necessary.



■ Technical data

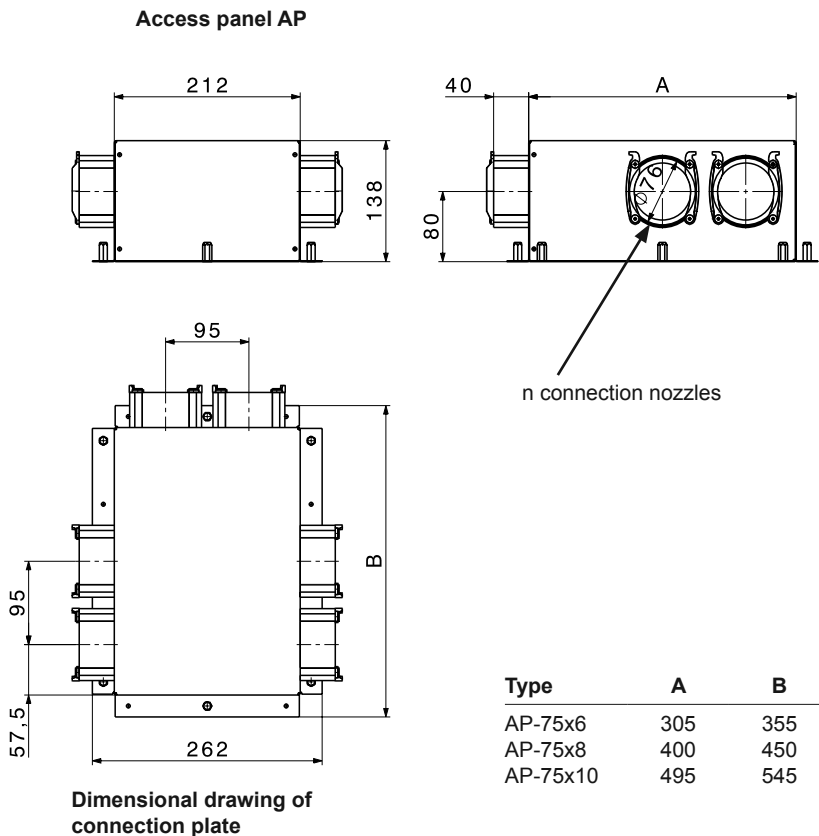
Distributor units DN 150

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

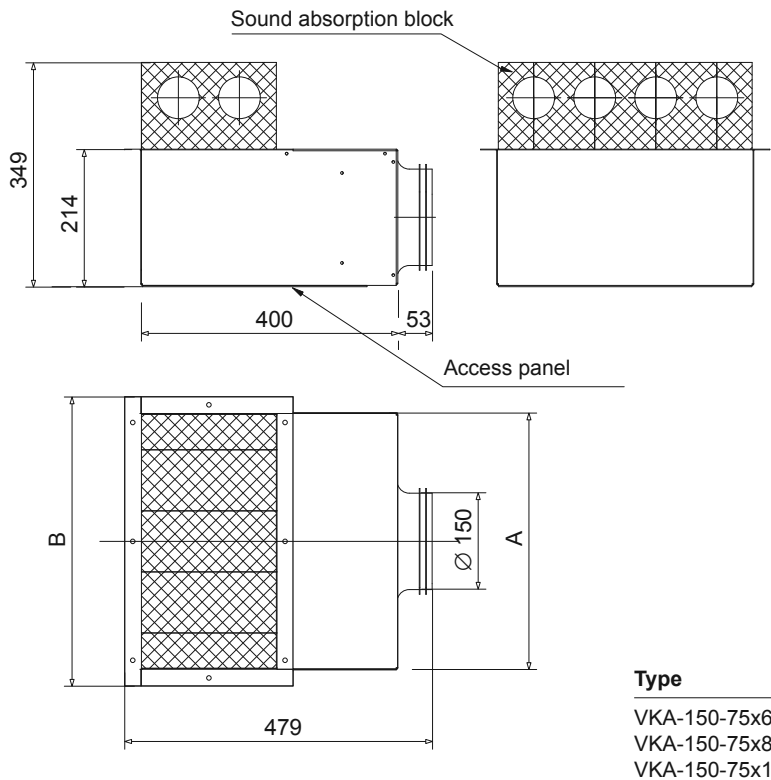
This distributor unit with an integrated silencer is used if the pipes can be arranged and laid centrally.

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.



Distributor unit **VKA-150**



■ Technical data

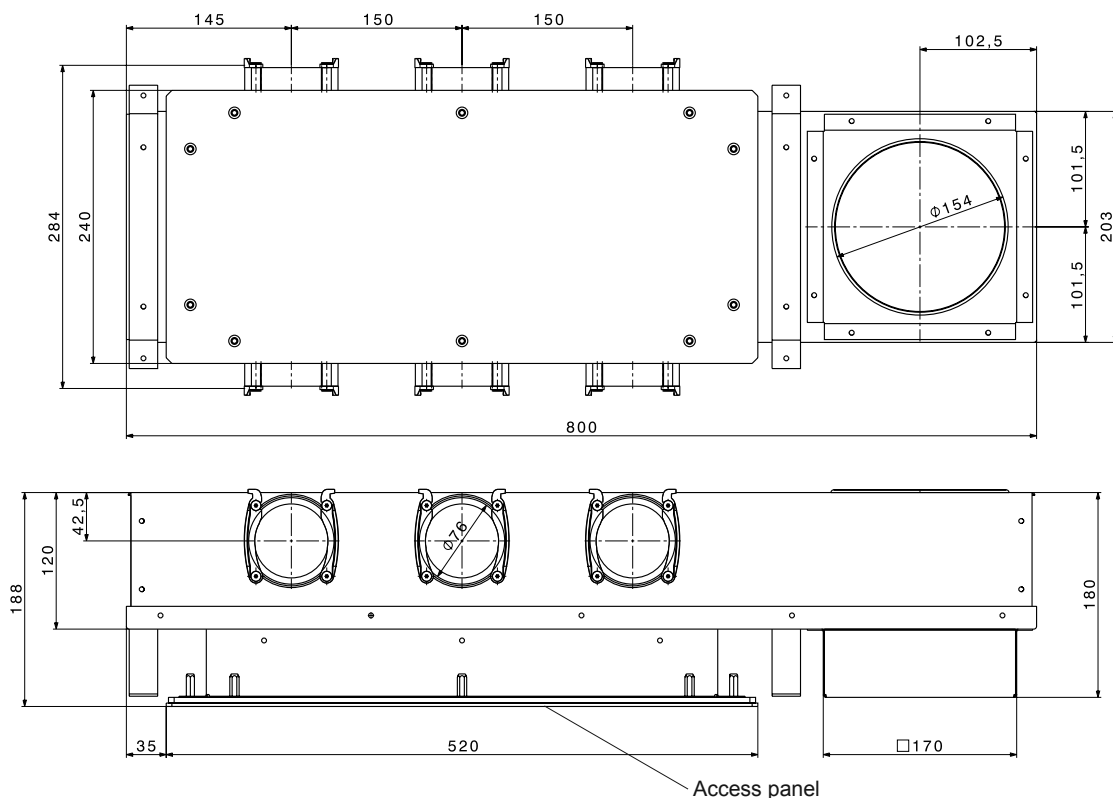
Distributor units DN 150

In-wall distributor unit 6 x DN X

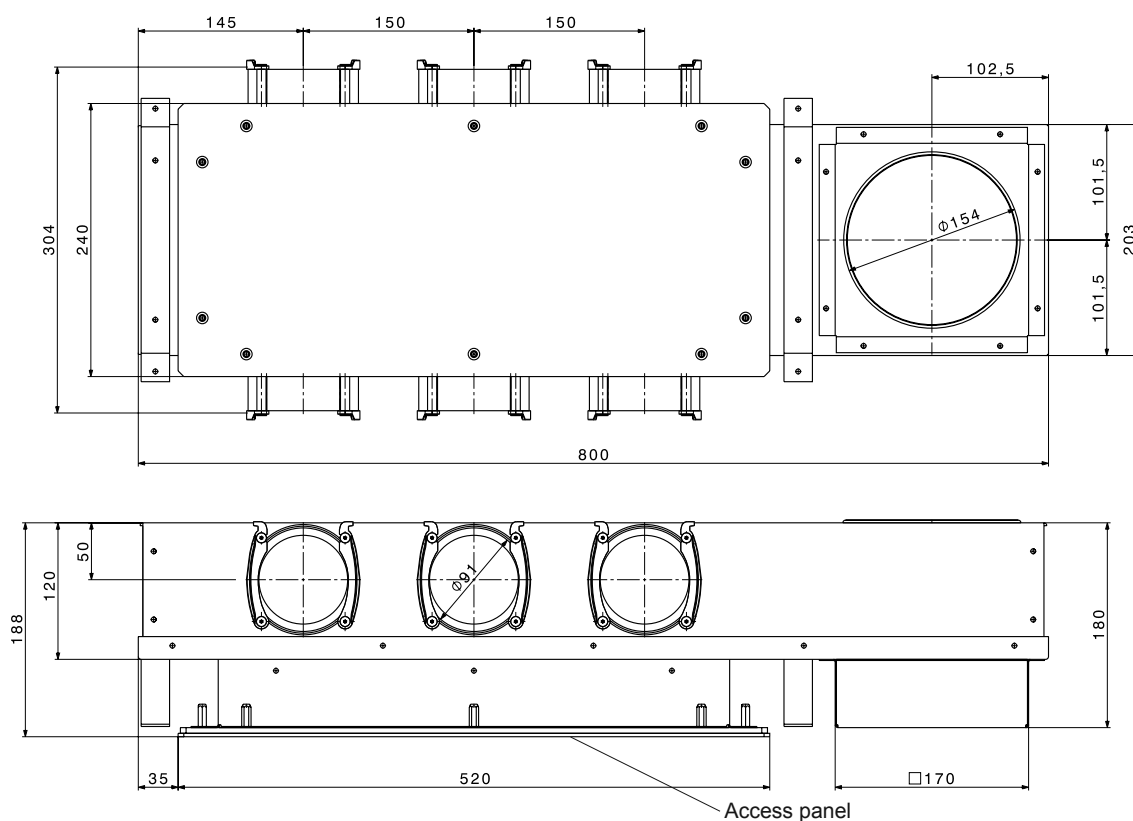
for concrete installation

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

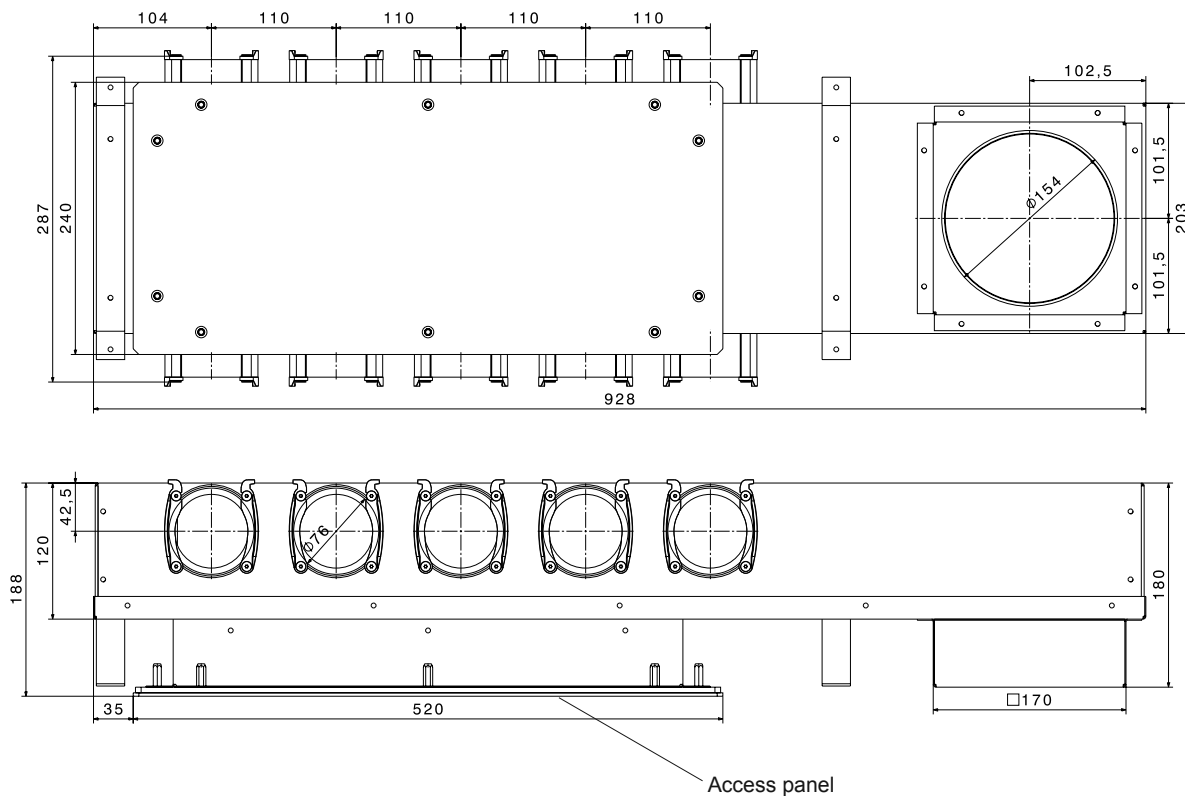
Distributor units DN 150

In-wall distributor unit 10 x DN X

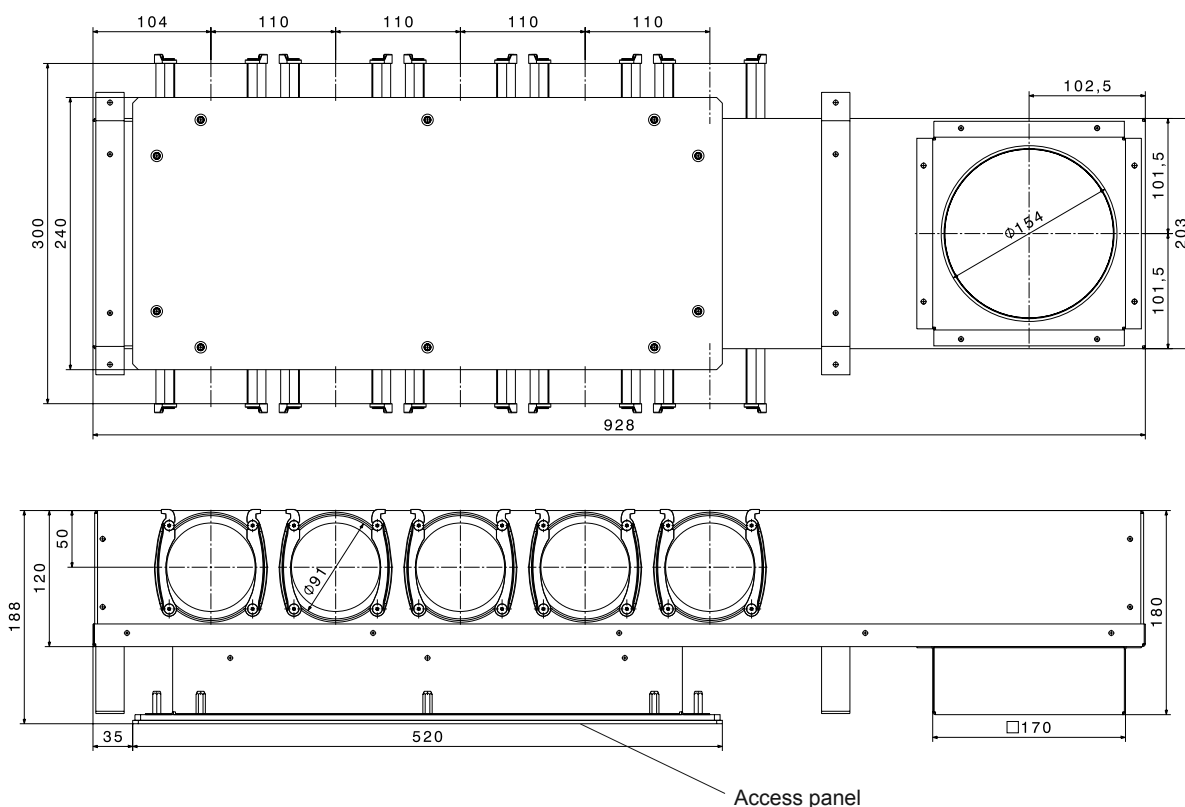
for concrete installation

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

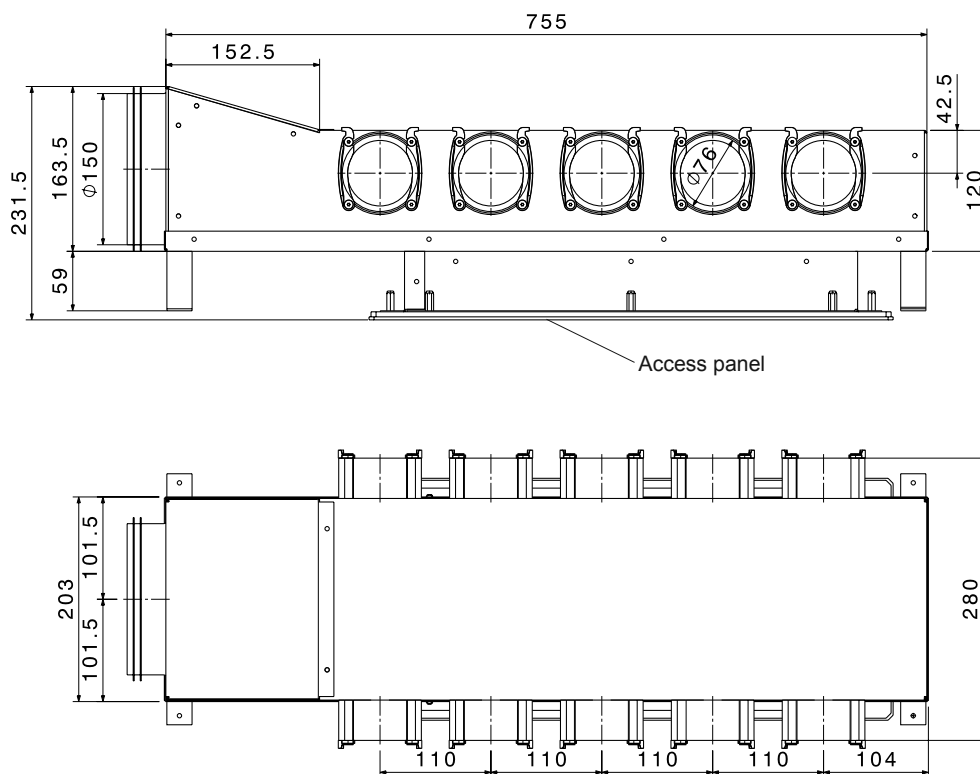
Distributor units DN 150

In-wall distributor unit UPVKS 10 x DN X

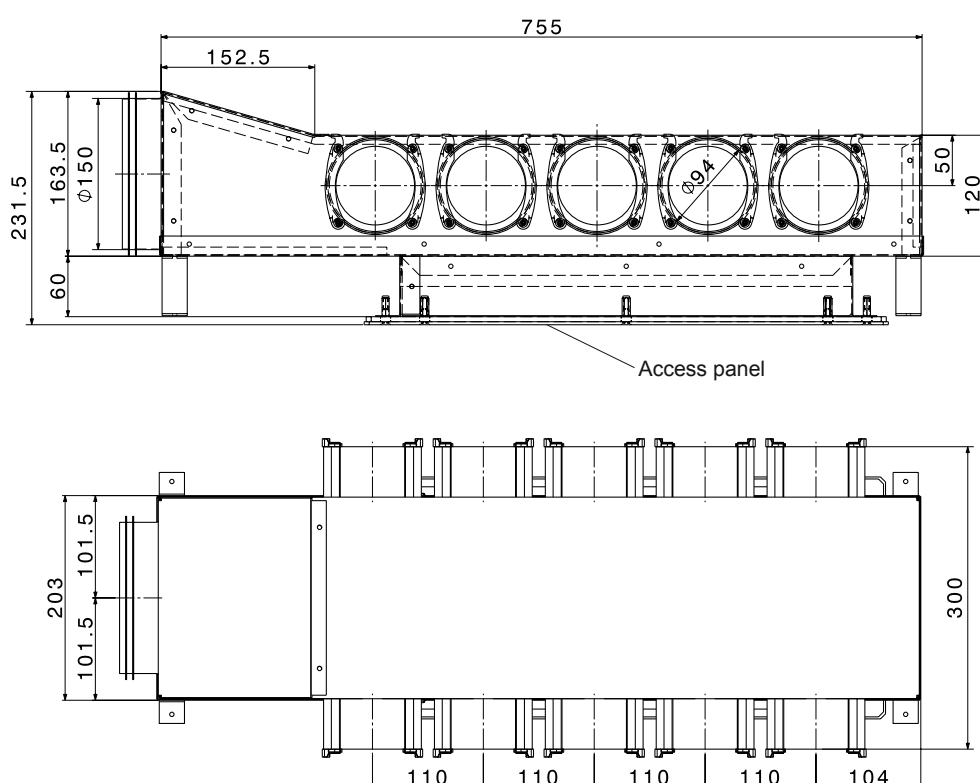
for concrete installation

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:

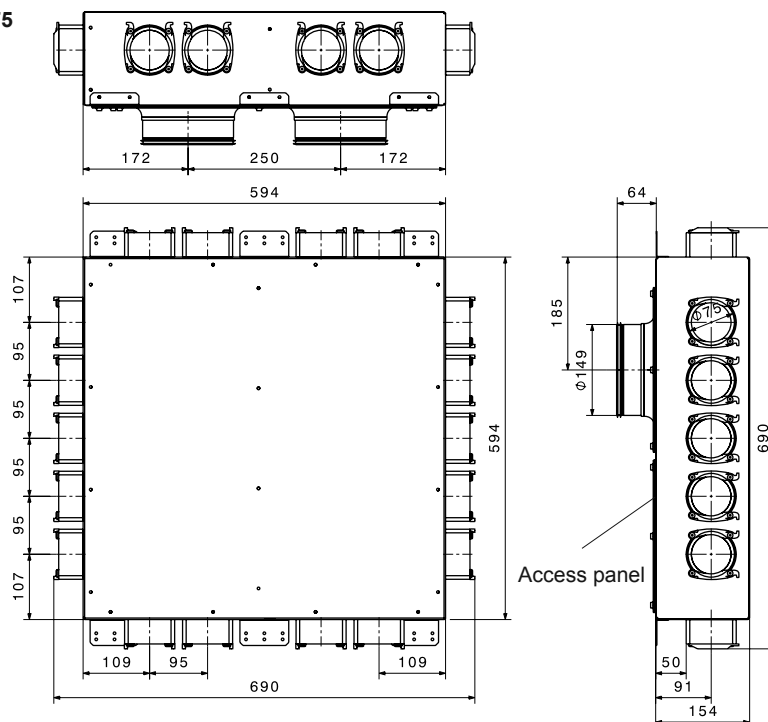
2x DN 150 (downward)

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

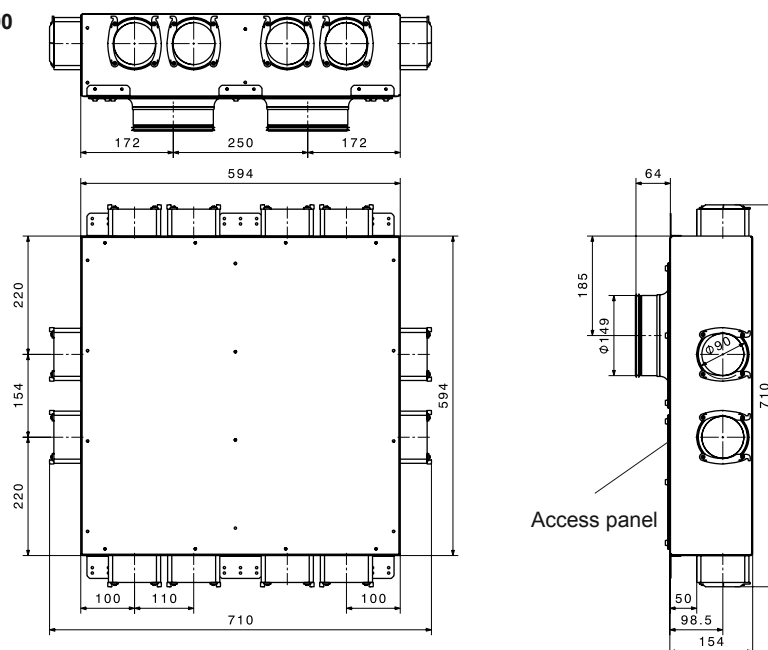
Extract air 9x DN 75 resp. 6x DN 90 (5x resp. 2x side/ 2x front and rear each)

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

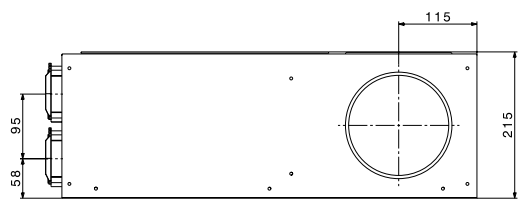
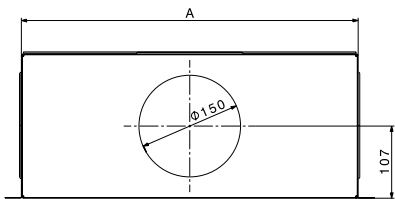


■ Technical data

Distributor units DN 150

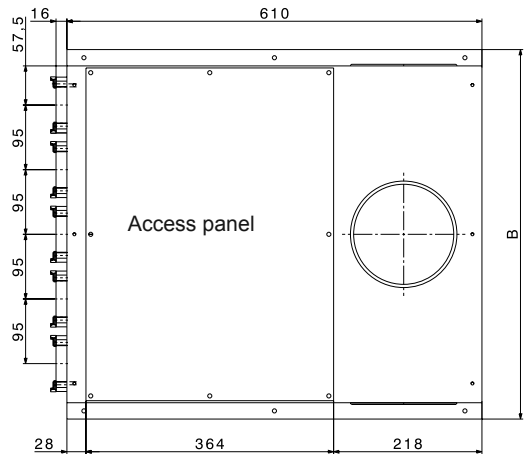
Central distributor unit for 6, 8 or 10 connections **VK-150-75**

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

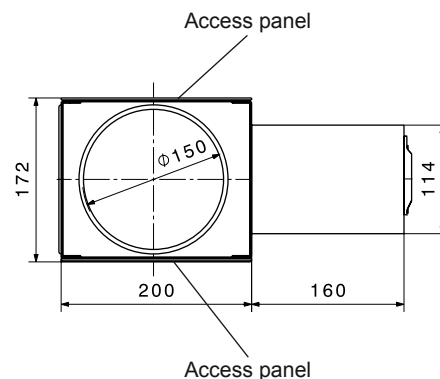
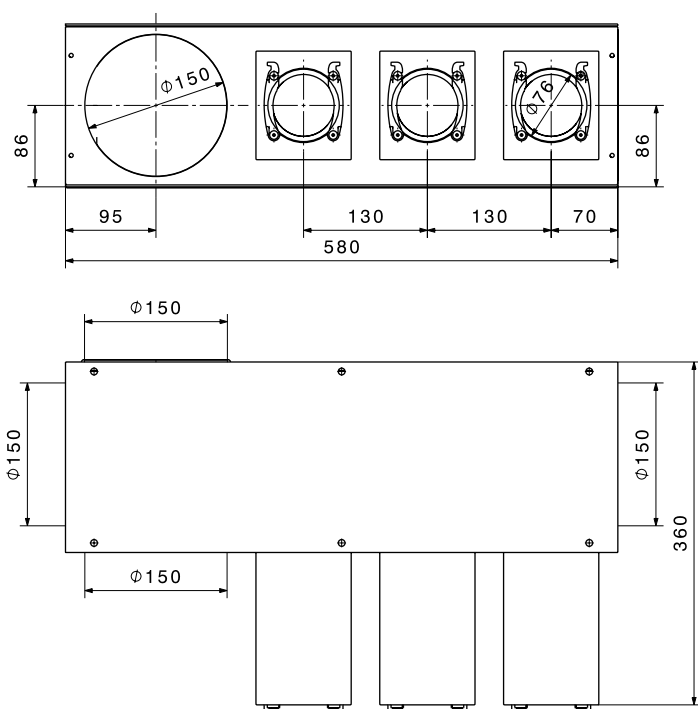
Storey distributor GVT-3 ... GVT-6

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.

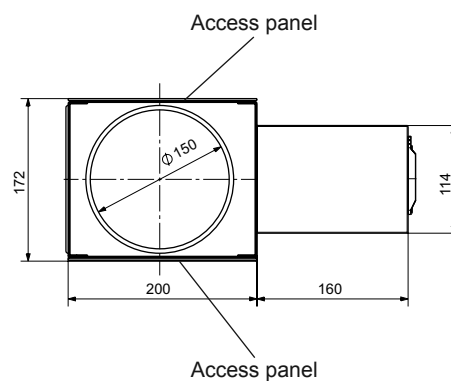
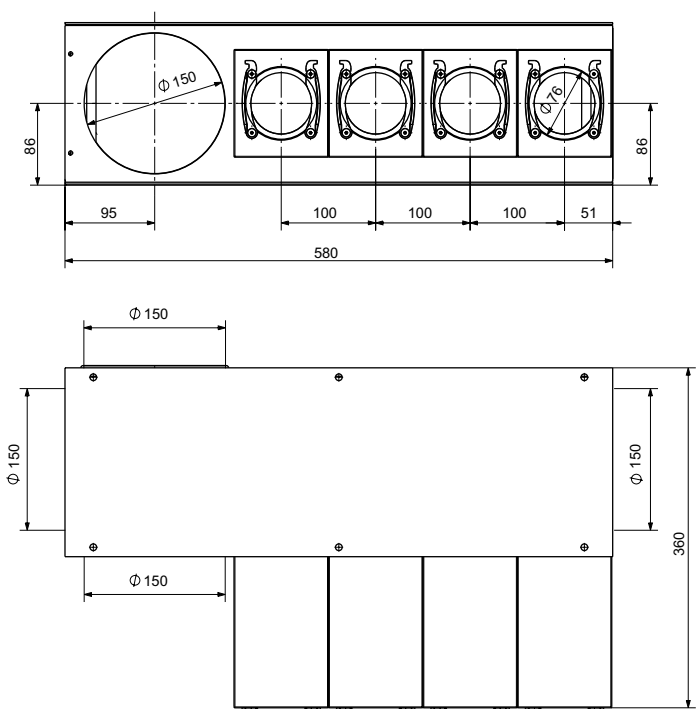
Orifices for setting the air quantity per flexible
pipe DN 75 or DN 90 (included in the scope of
delivery). Resonators for sound insulation.
Material: Galvanised steel
Inside lining: Sound absorbing mat

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

Storey distributor GVT-3

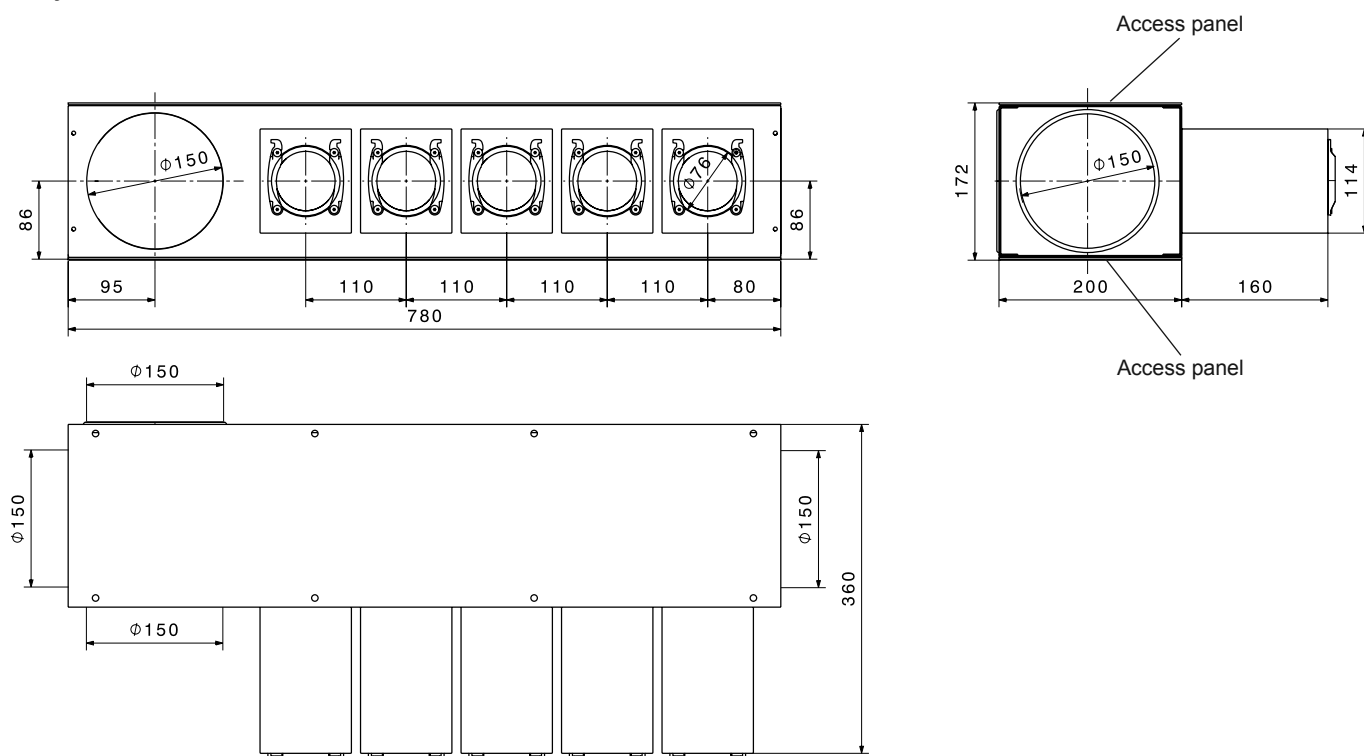


Storey distributor GVT-4

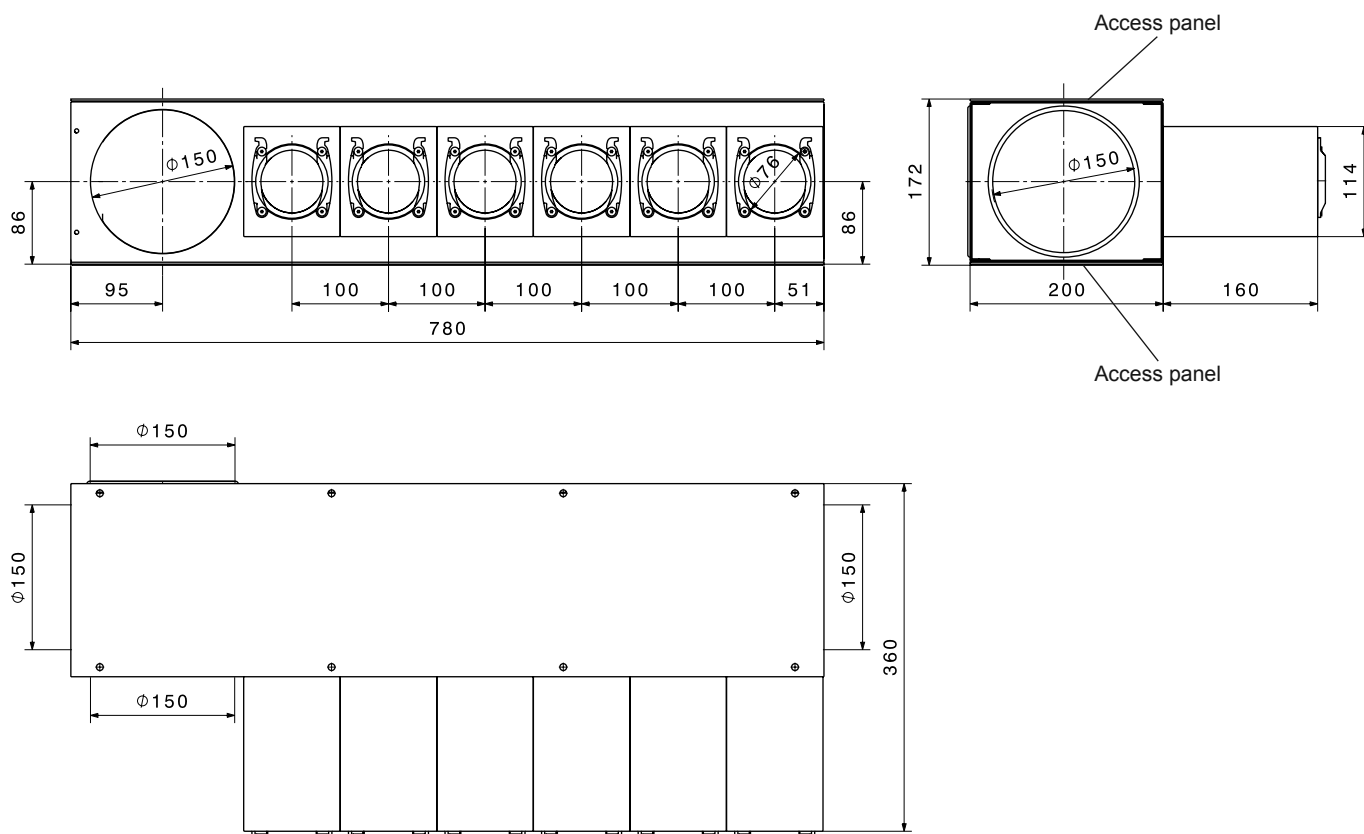


■ Technical data

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:

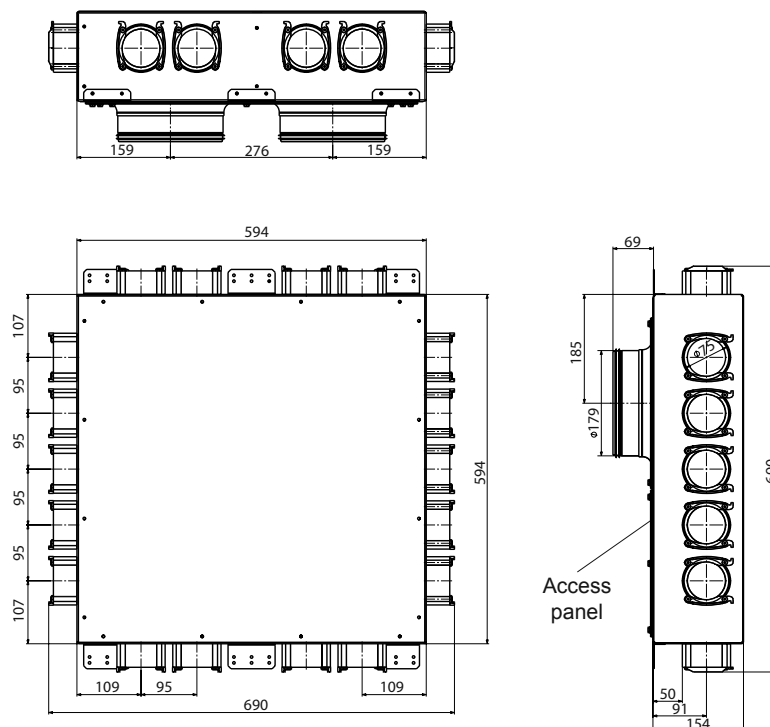
2x DN 180 (downward)

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

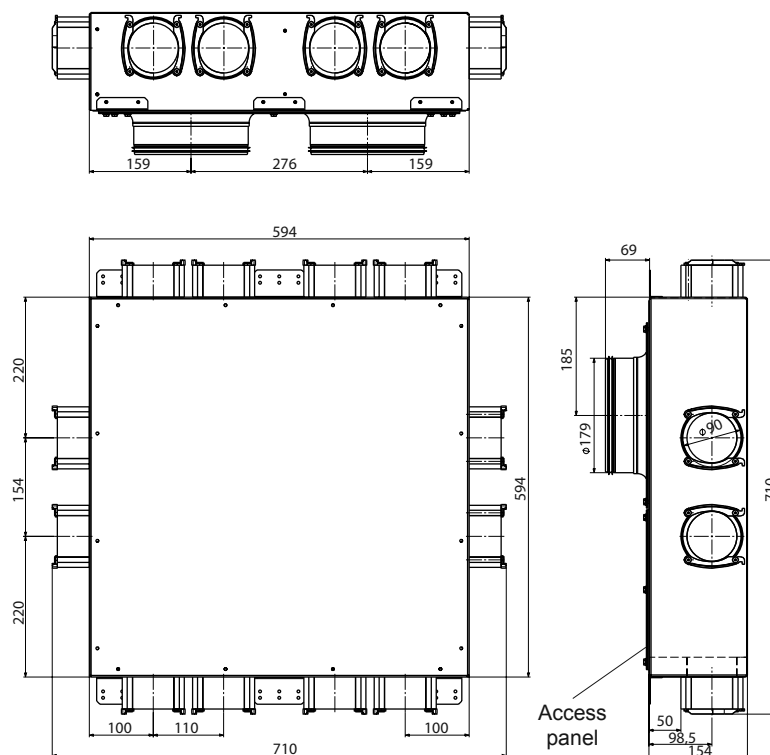
Extract air 9x DN 75 resp. 6x DN 90 (5x resp. 2x side/ 2x front and rear each)

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

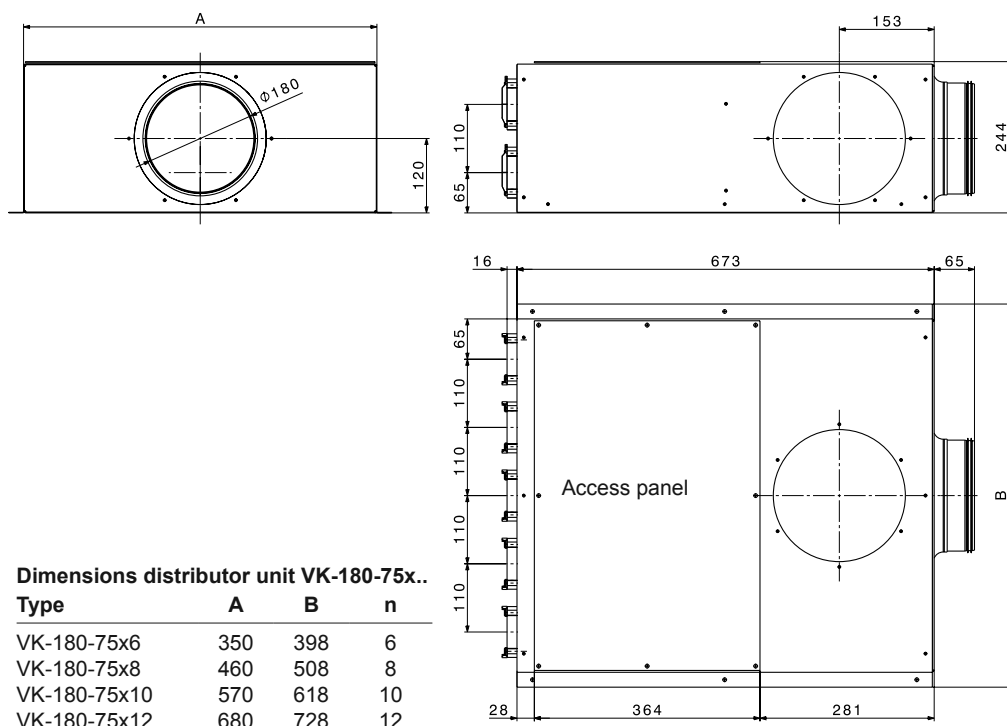
Central distributor unit for 6, 8 or 10 connections

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

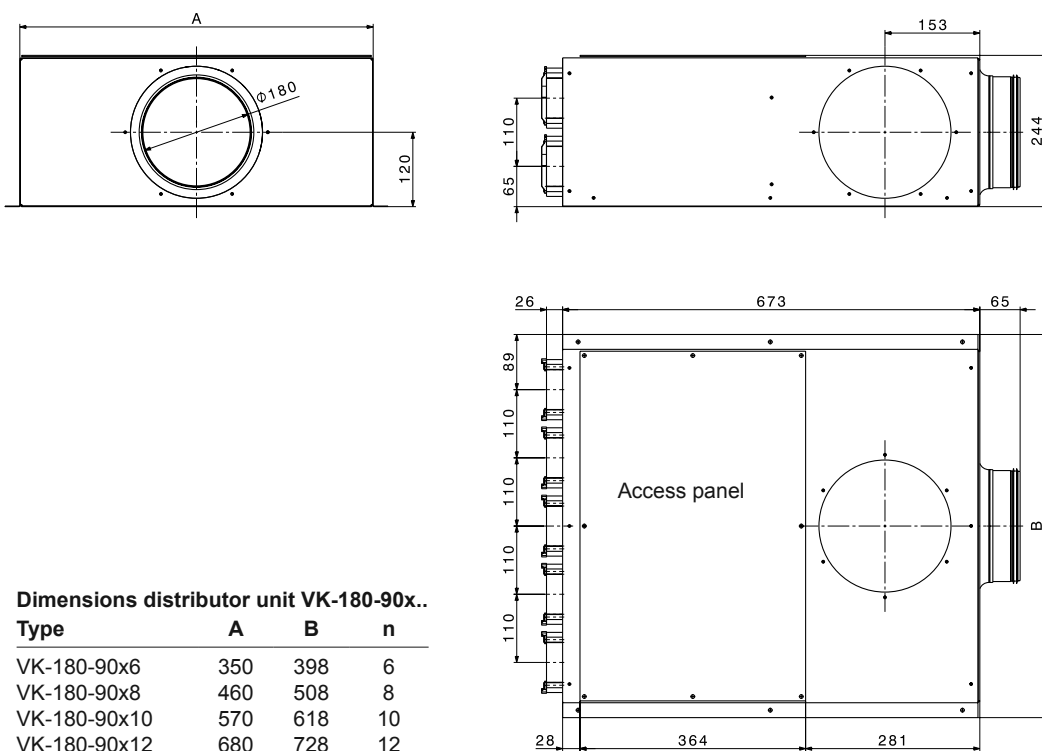
This distributor unit with an integrated silencer is used if the pipes can be arranged and laid centrally. Orifices for setting the air quantity per flexible pipe DN 75 or DN 90 (included in the scope of delivery).

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



Distributor unit VK-180-90



■ Technical data

Distributor units DN 200

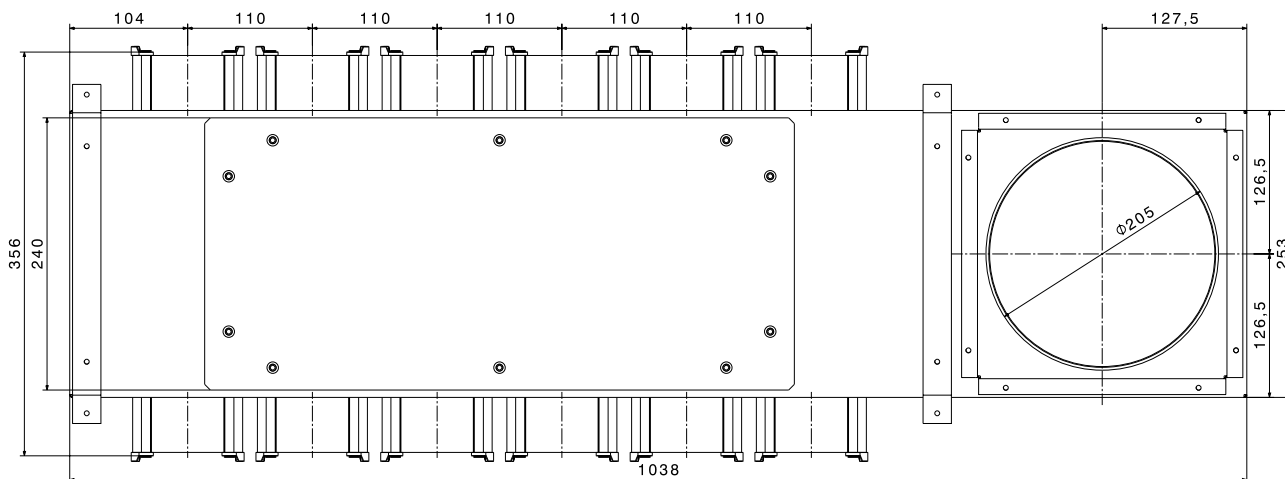
In-wall distributor unit UPVK 200-90x12

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).



Access panel

Distributor unit VK200-75x15

Air distributor unit of aluzinc sheet with access panel.

Inside with sound absorption block.

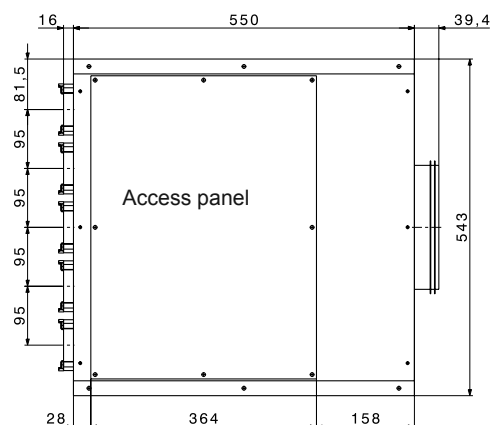
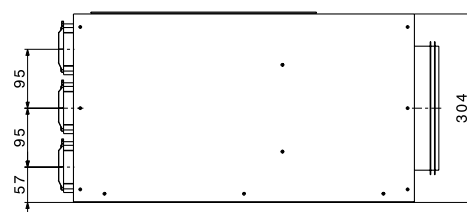
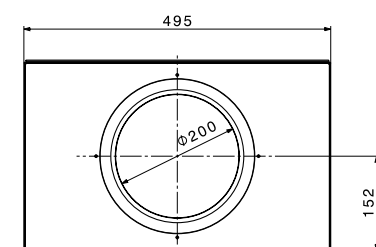
Connection nozzles:

1 x DN 200 (on the back)

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

Consisting of:

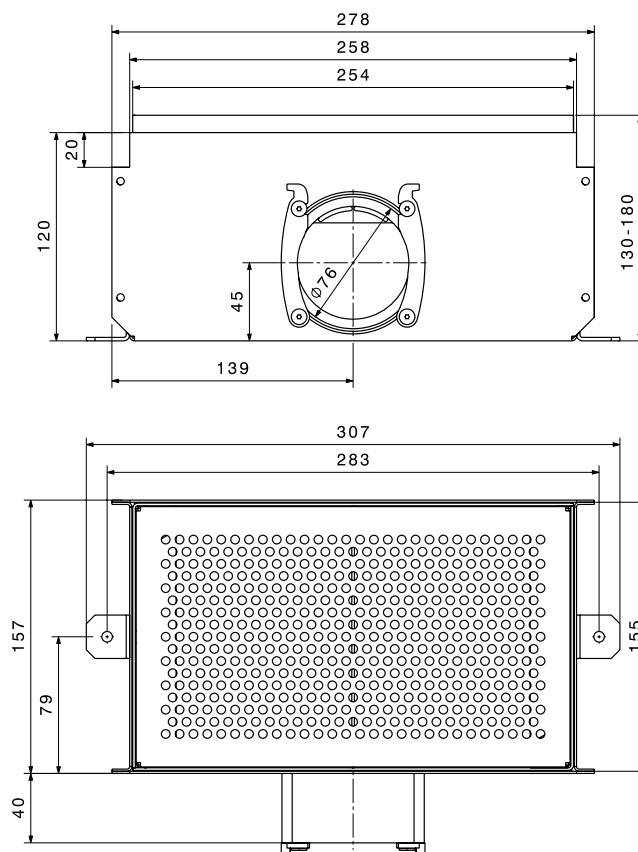
distributor unit, baffles for adjusting the air flow for each flexible pipe DN 75 (included in the scope of delivery).



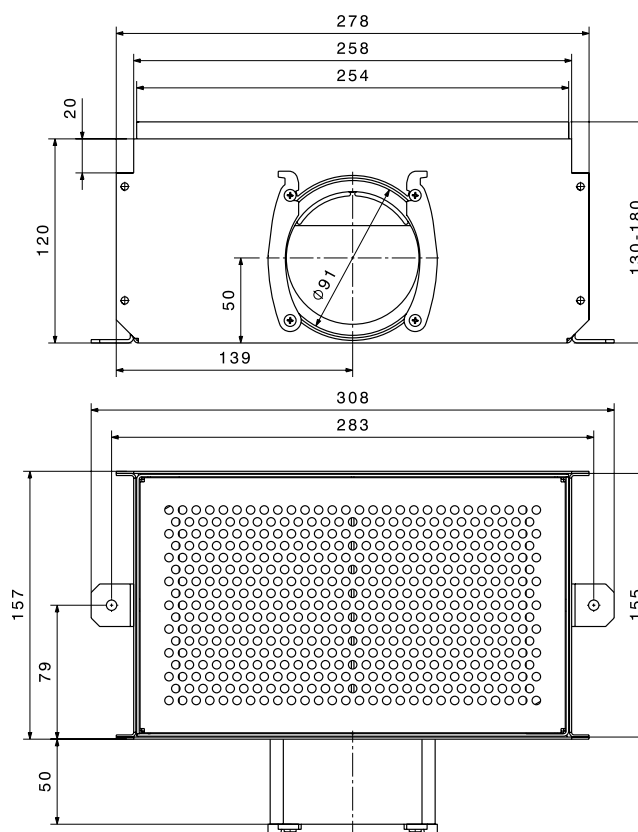
■ Technical data

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**

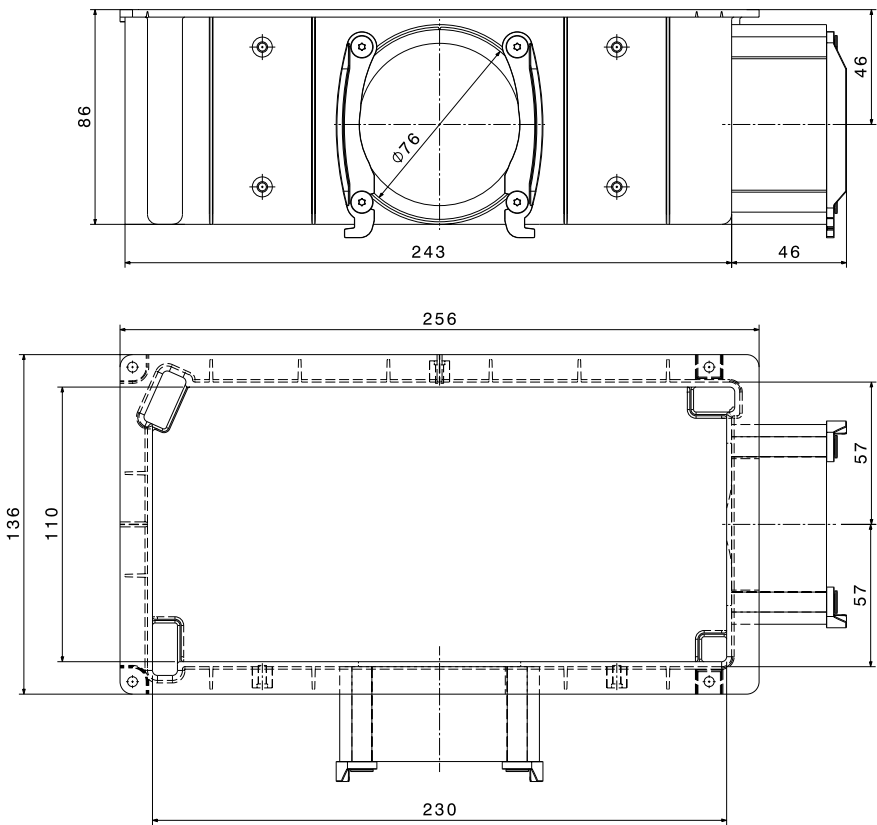
For installation in the floor structure, supply air volume flow 40 m³/h. Perforated stainless steel grille in an adjustable casing, height 130-180 mm, inner component of stainless steel with 3 contact points, outer component of aluzinc sheet with 2 fastening catches and one connection nozzle for flexible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



■ Technical data

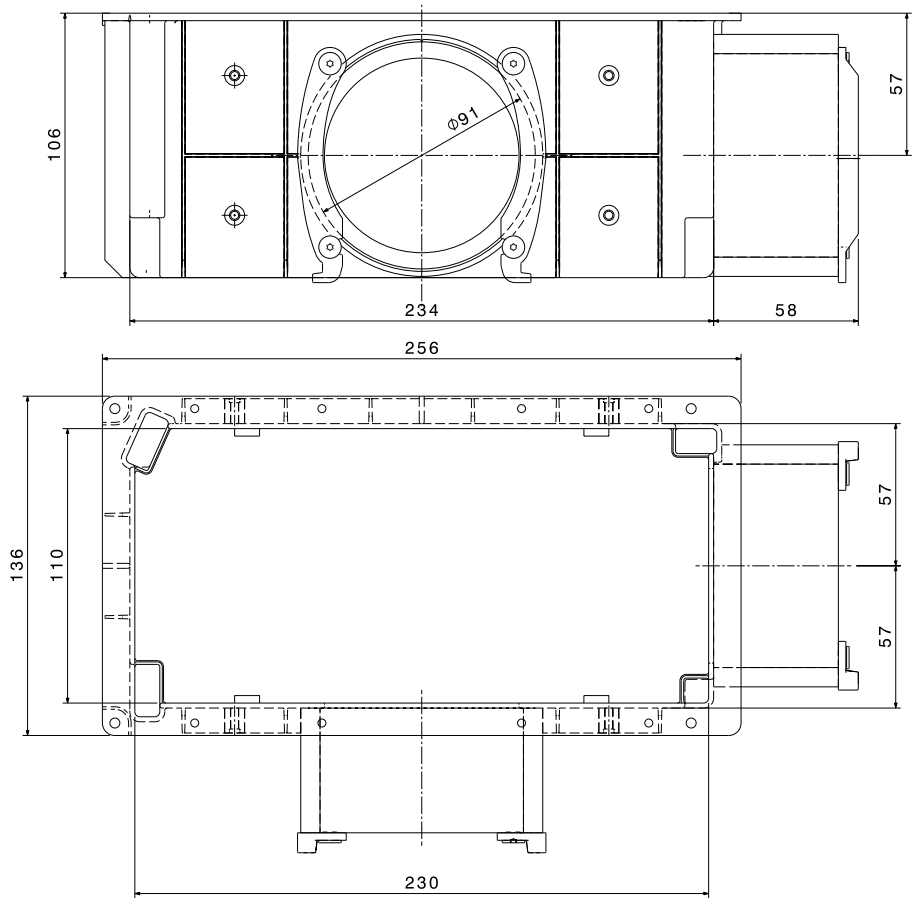
Connection housing AG-60

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

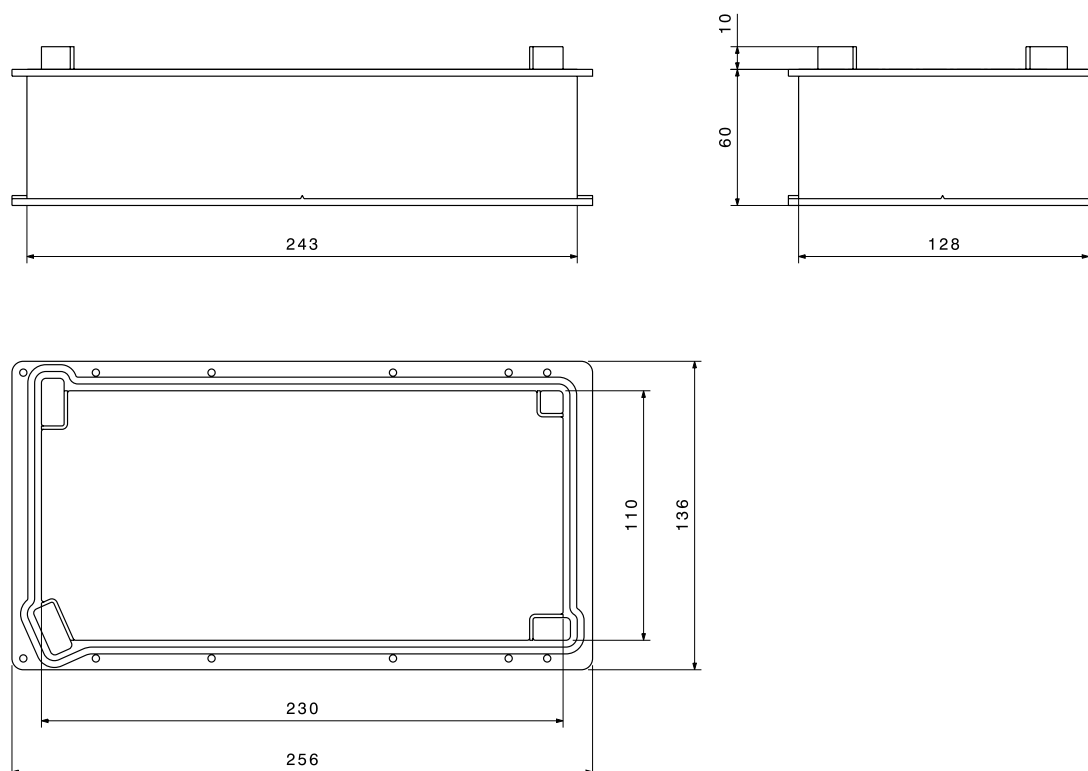
Consisting of a washable, fine-mesh net made from polyamide with a plastic frame for connection housing AG-60, AG-90, AGV-60 or AGV-90.

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

■ Technical data

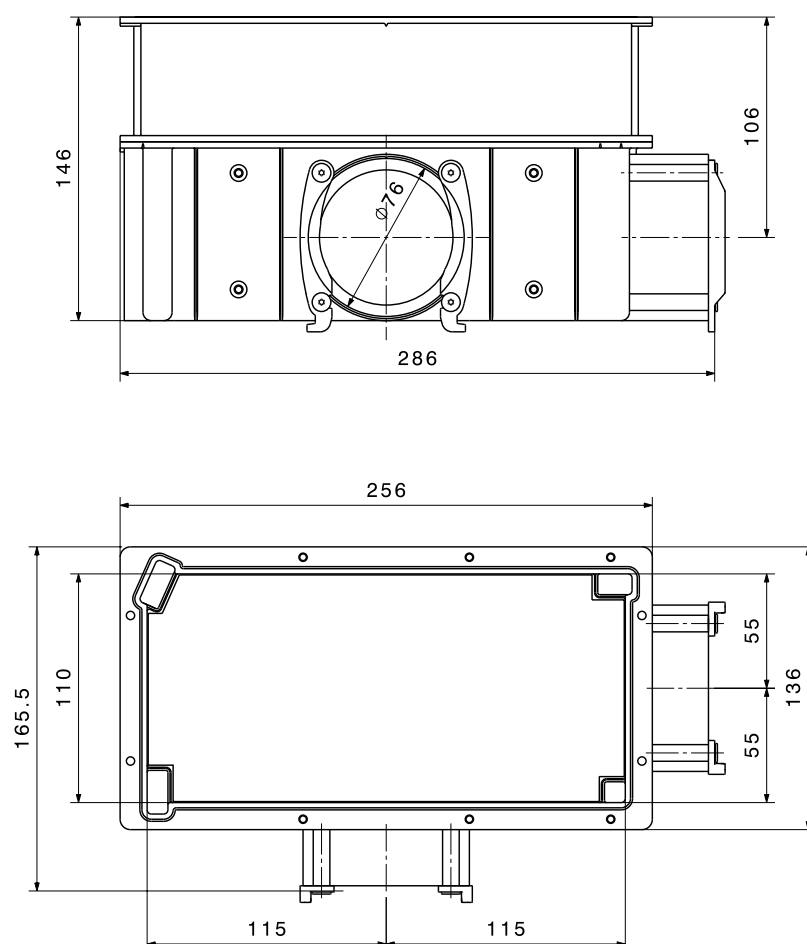
Extension AG-60/AG-90

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

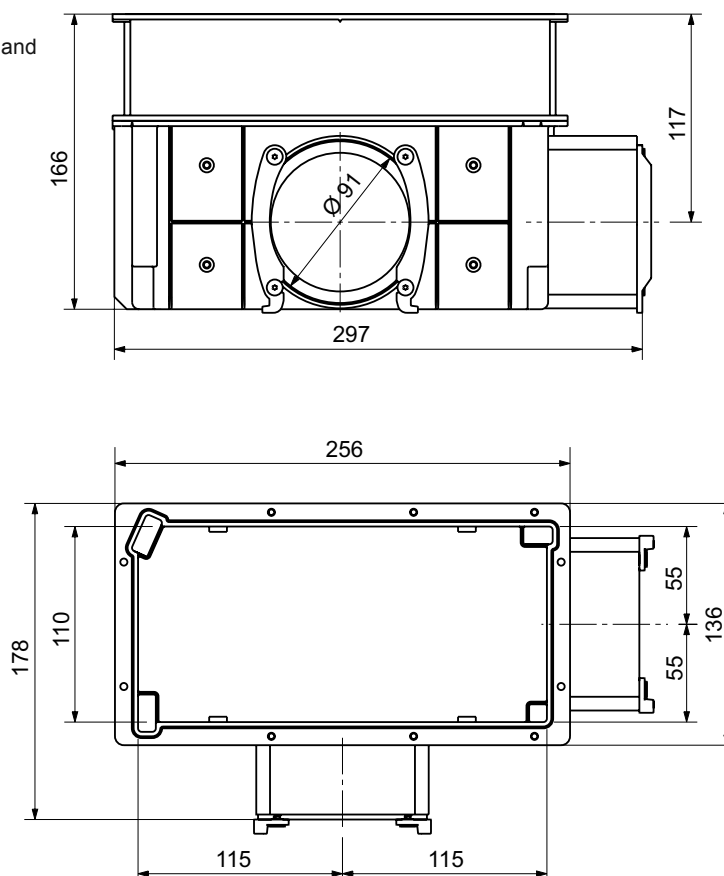
consisting of connection housing AG-60 and extension VAG-60/90.



■ Technical data

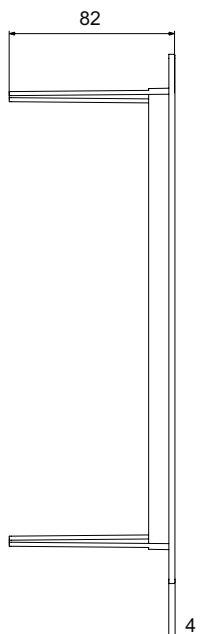
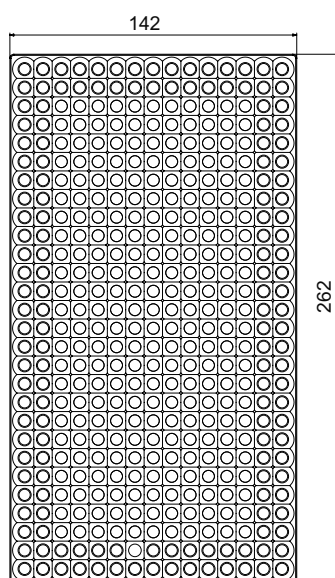
Connection housing set AGV-90

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



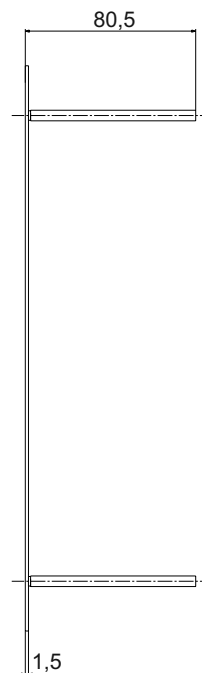
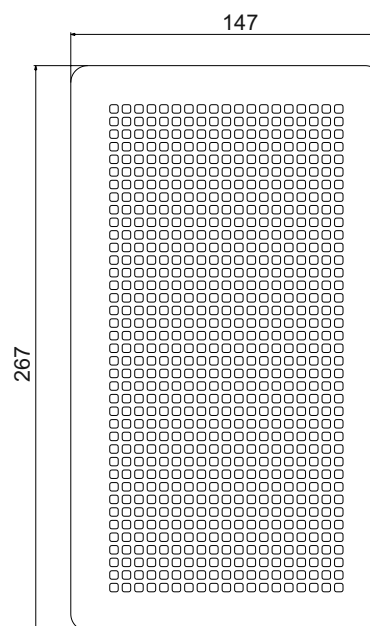
Design grille made of plastic

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.

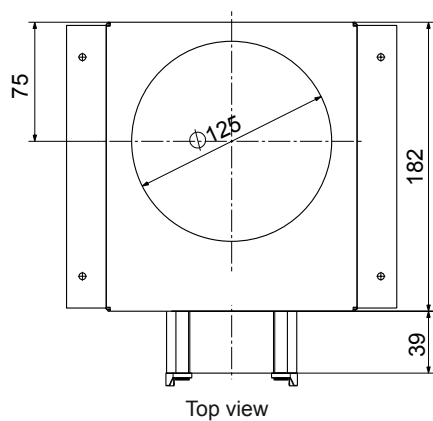
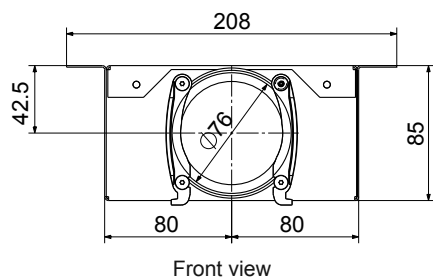


■ Technical data

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.

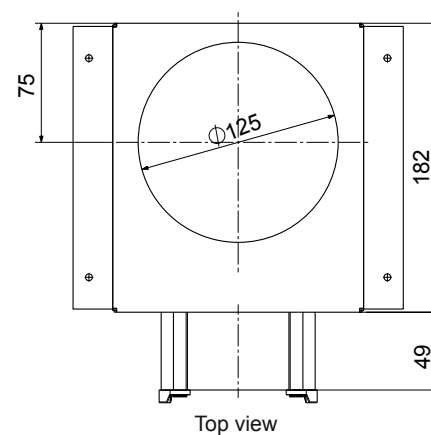
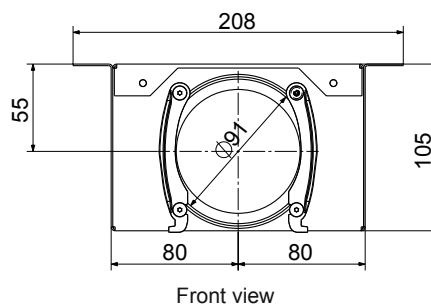
A building protection cover is included to protect the in-wall unit against dirt before it is taken into service.



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.

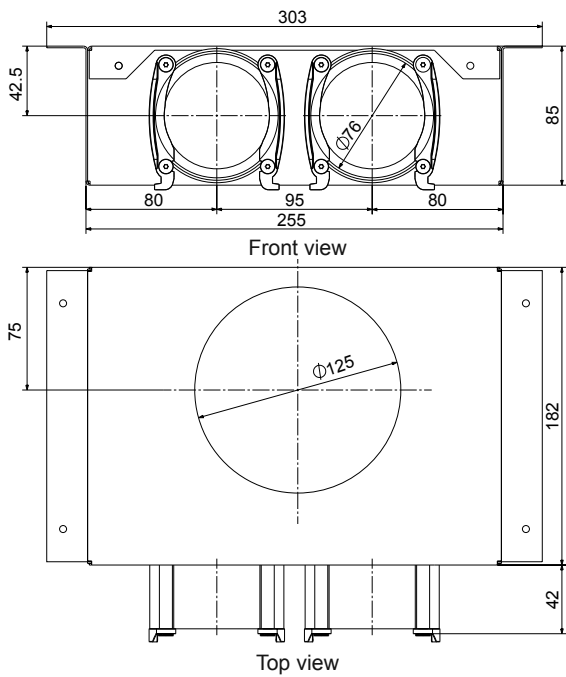


■ Technical data

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.

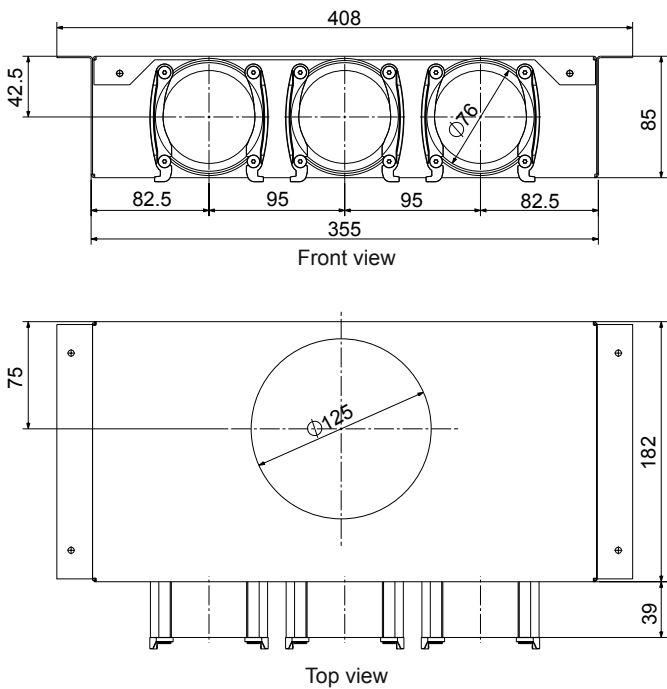
A building protection cover is included to protect the in-wall unit against dirt before it is taken into service.



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

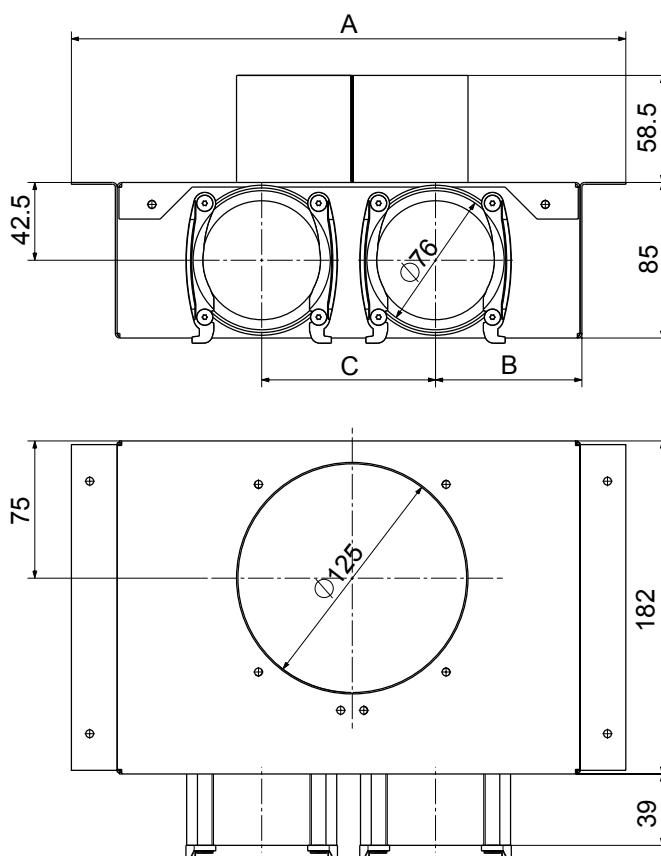
Extract air:

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

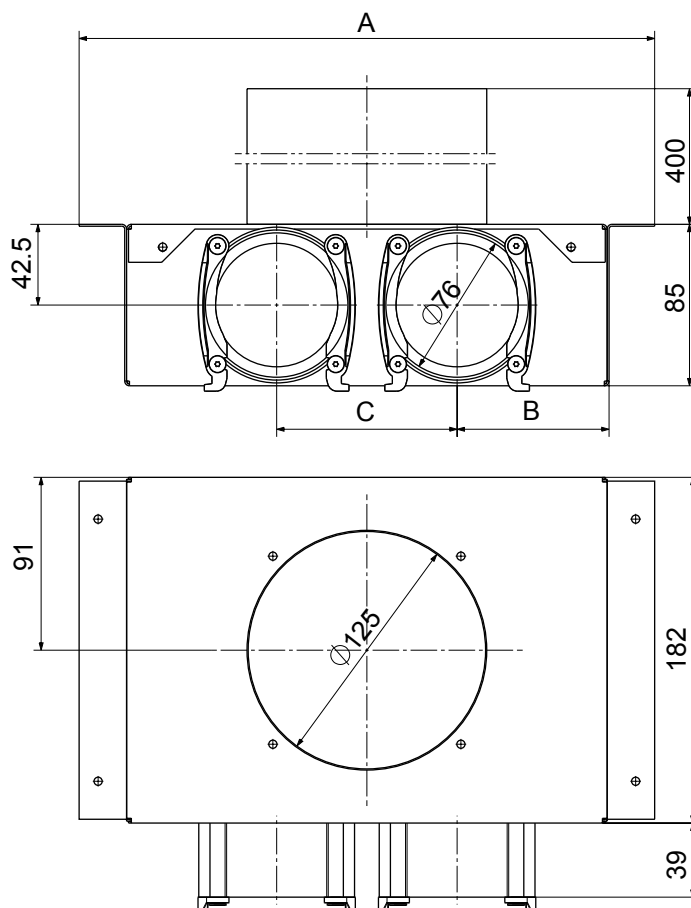
3 x DN 75 up to 60 m³/h

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



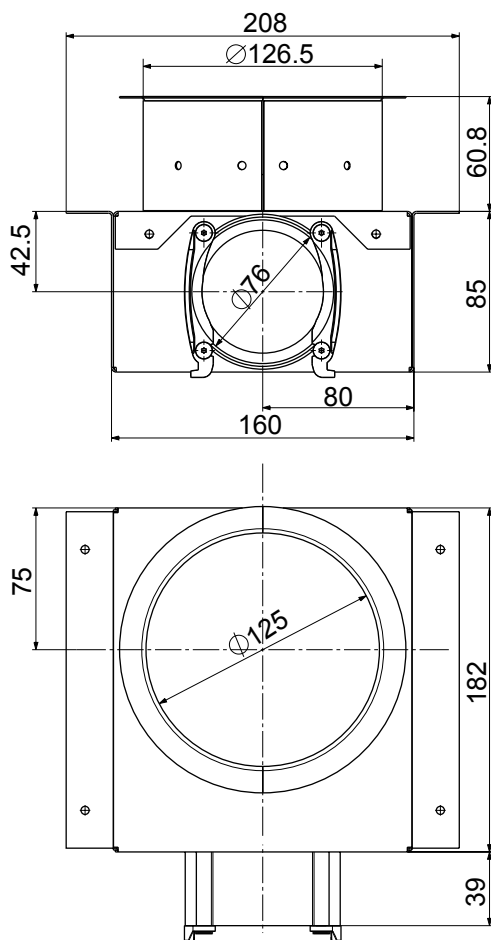
■ Technical data

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.

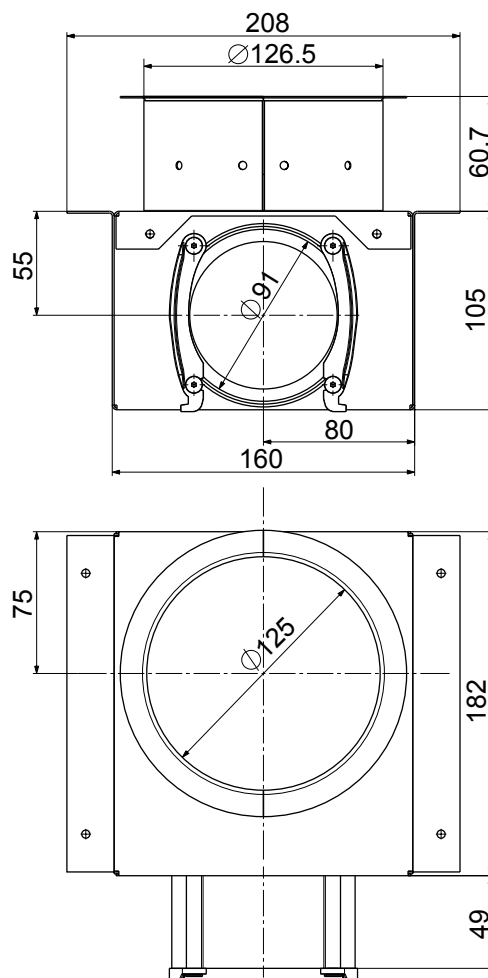


Extract air set BAK-125-90 resp. supply air set BZK 125-90 for concrete installation

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

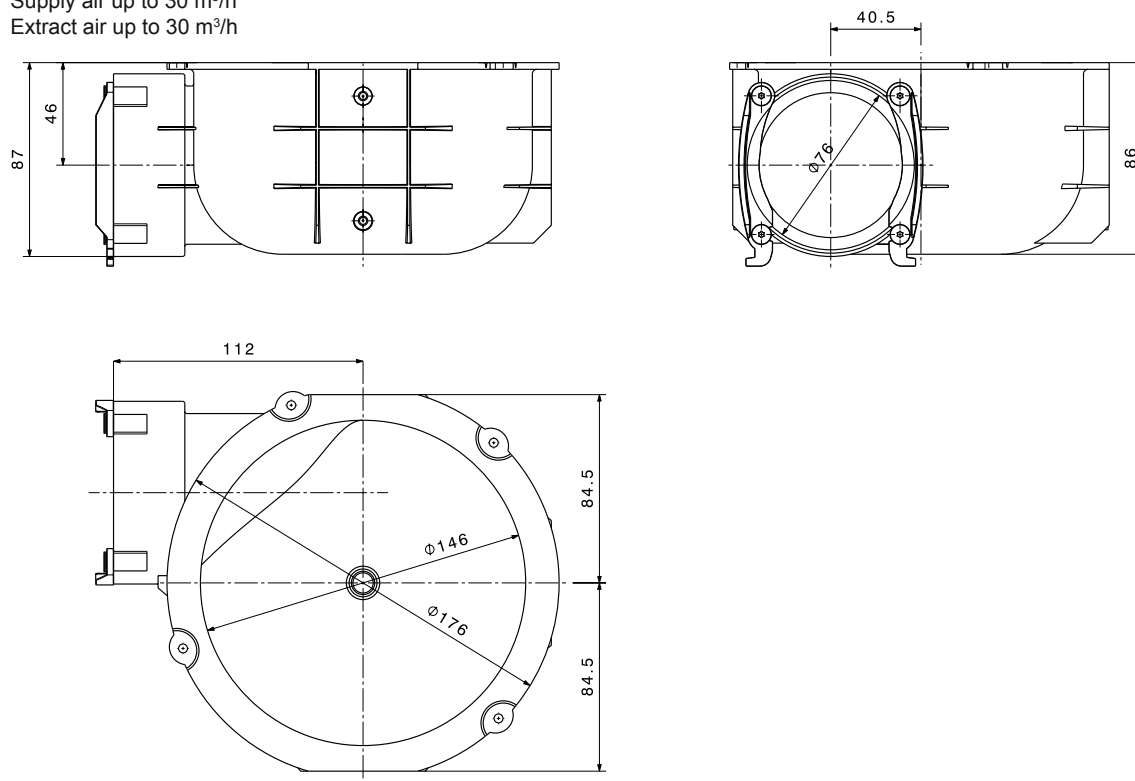
For supply air or extract air in combination with the tangential design grille.

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.

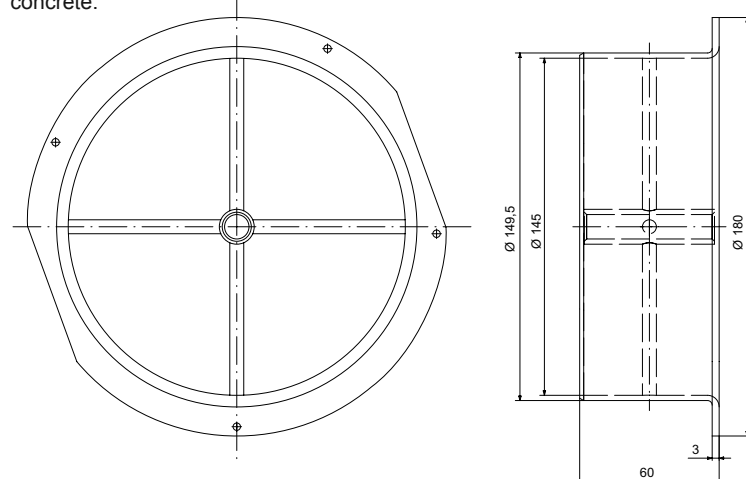
Supply air up to 30 m³/h

Extract air up to 30 m³/h



Tangential extension TGA

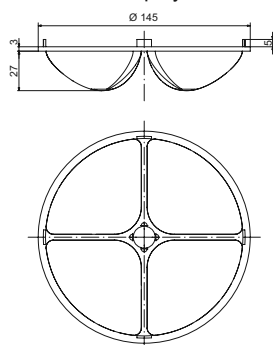
For the connection of the tangential design grille with the tangential casing TG-30. A connection extension which is required for lightweight walls or filigree concrete.



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.

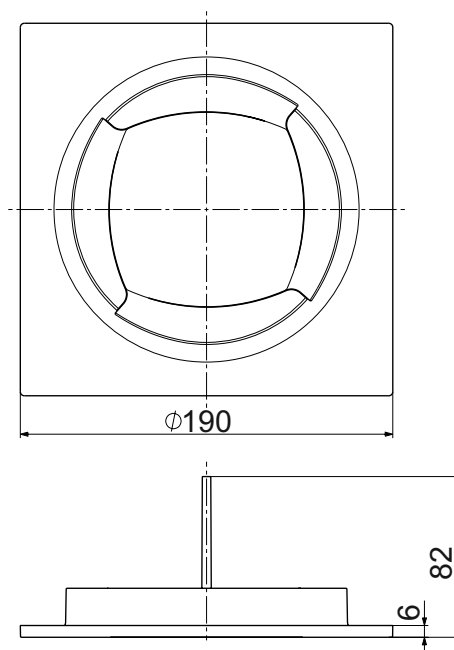
Suitable for:

Supply air up to 30 m³/h

Extract air up to 30 m³/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:

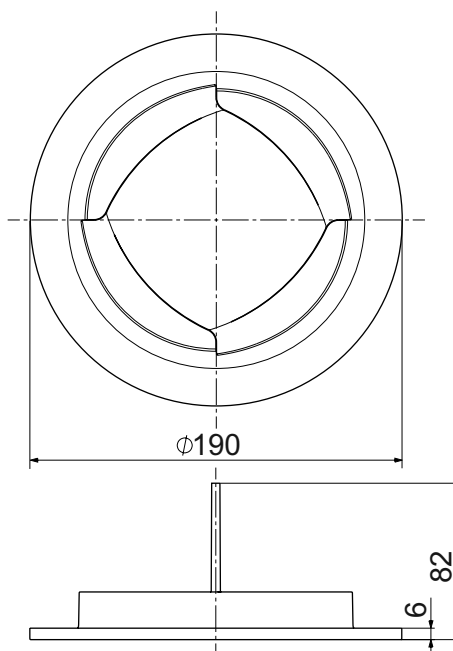
Supply air up to 30 m³/h

Extract air up to 30 m³/h

Plug connection for

tangential casing TG-30

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



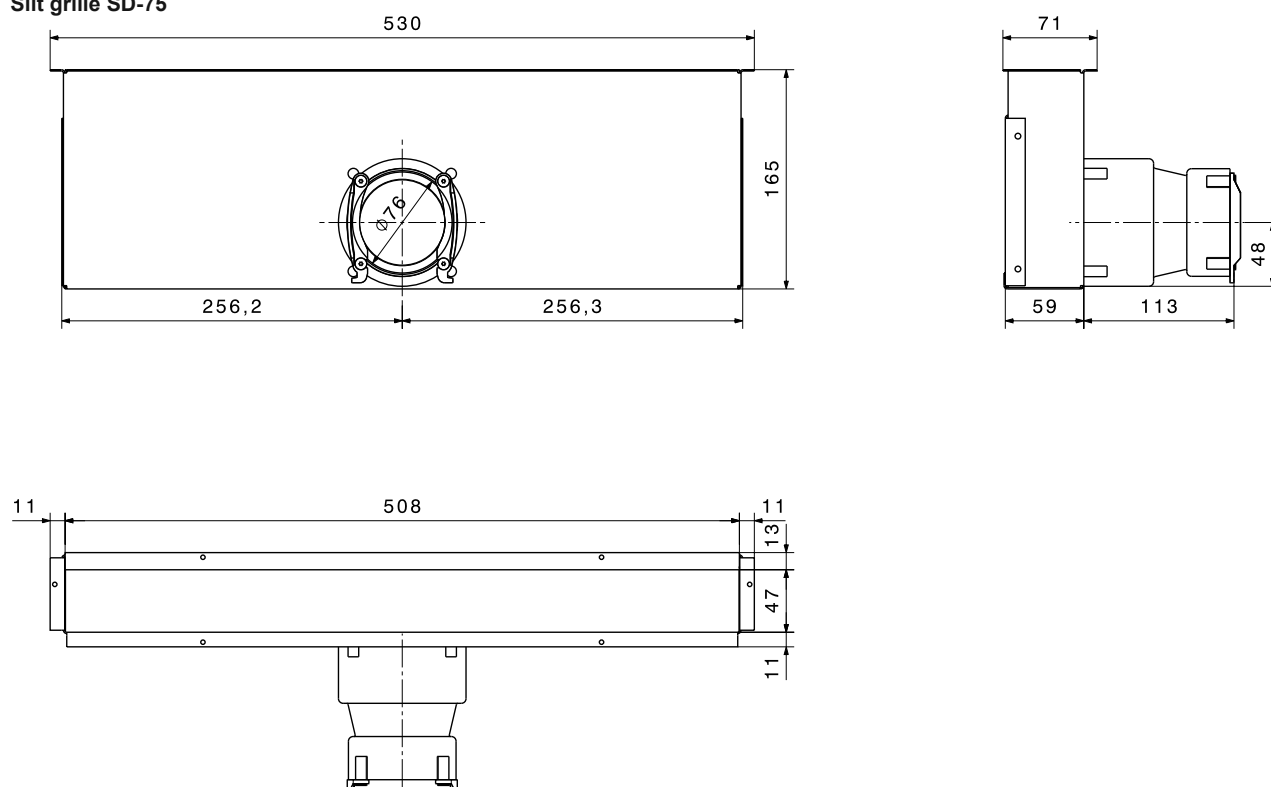
■ Technical data

Slit grille SD-75 and SD-90

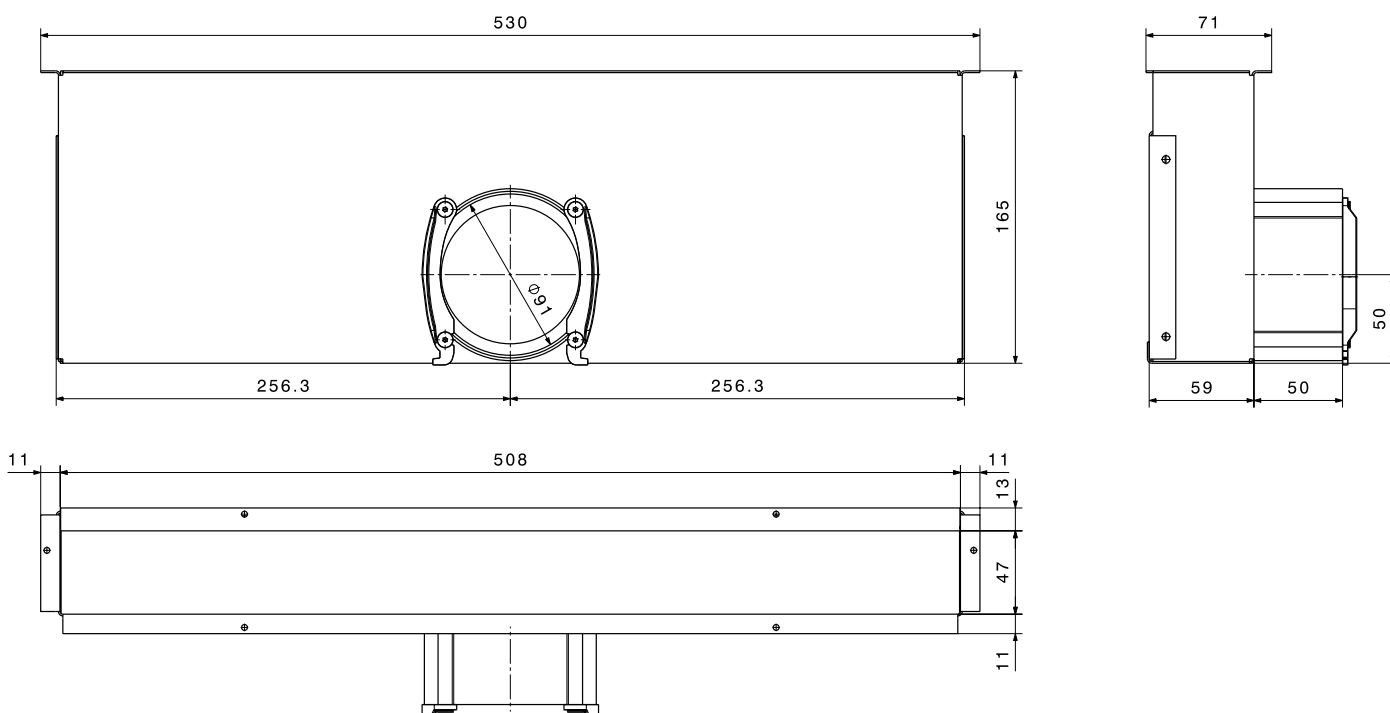
The slit grille is used for linear supply air distribution. It can be set to one or two outlet sides when taken into service, as required (preset to two sides).

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 m² 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).

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

Table 2

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

Table 3: extract air

Room type	Extract air [m ³ /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 ³ /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 m³/h rated ventilation must therefore be distributed between 2 lines. In long line runs, it is necessary to carry out a corresponding calculation.

Distributors must be accessible for inserting the throttle orifices and for cleaning.

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

Fresh / exhaust air

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

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

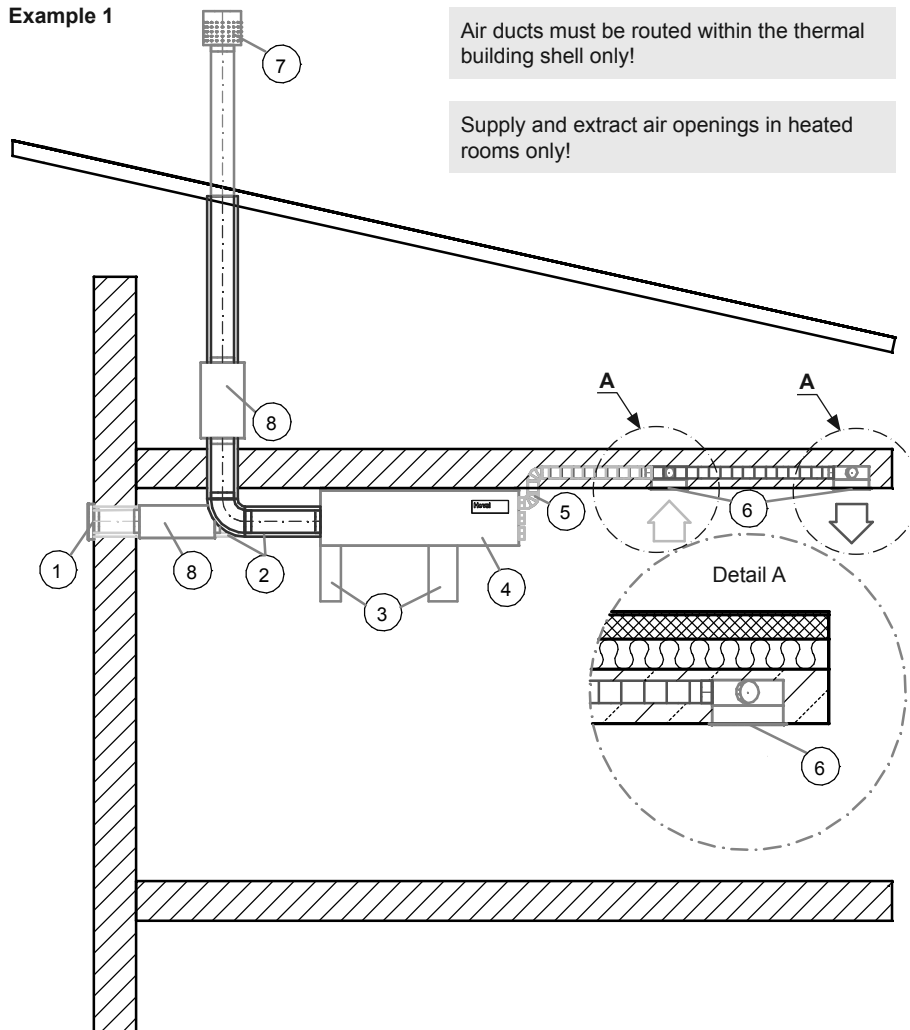
Hoval will be happy to assist you in planning and taking the systems into operation.

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



- 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

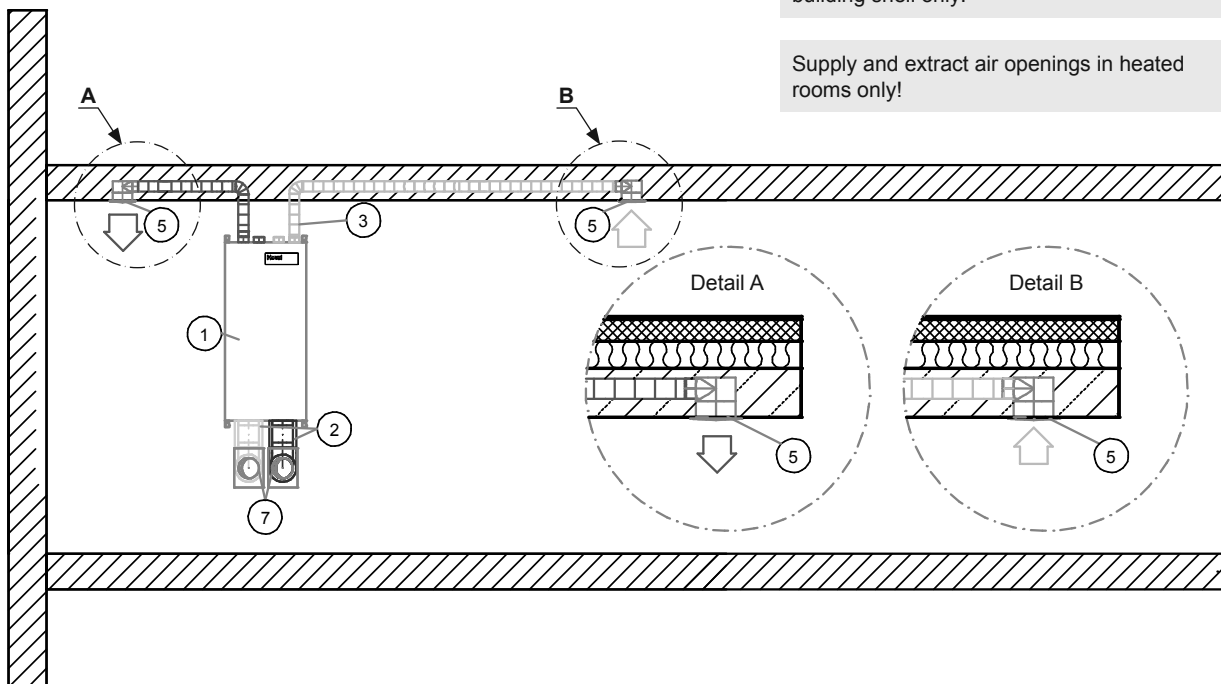
Fire areas and insulation thickness:
The local regulations must be observed!

■ Examples

Example 2a

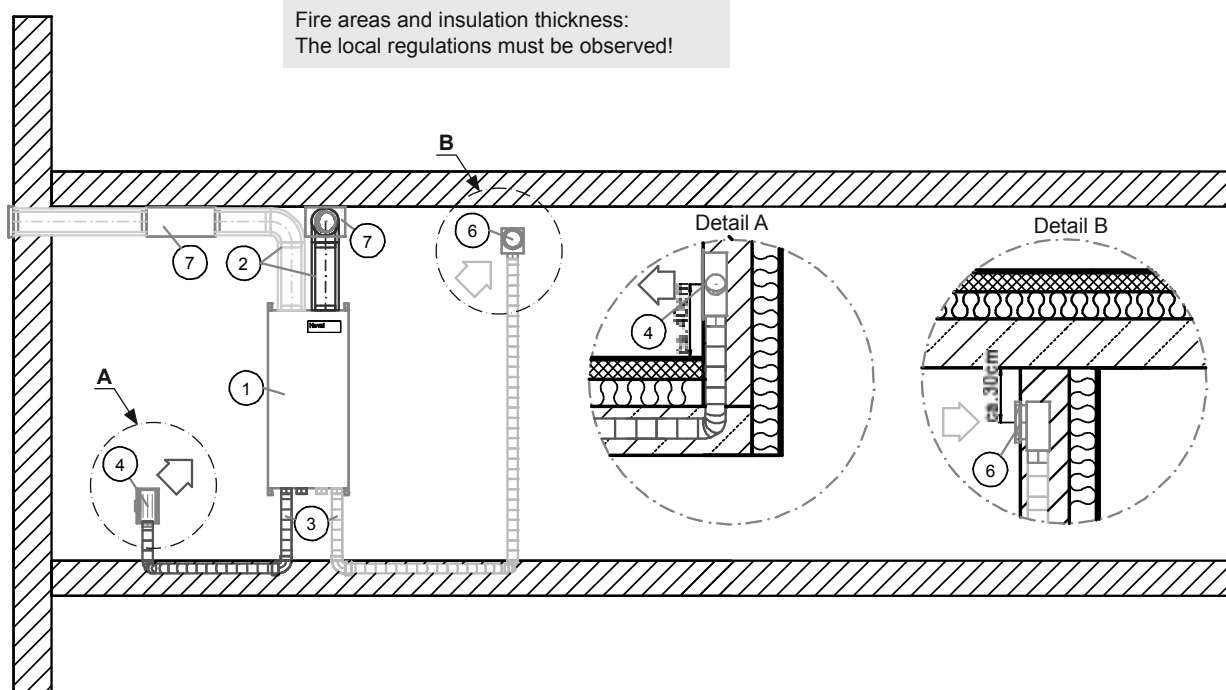
Air ducts must be routed within the thermal building shell only!

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!

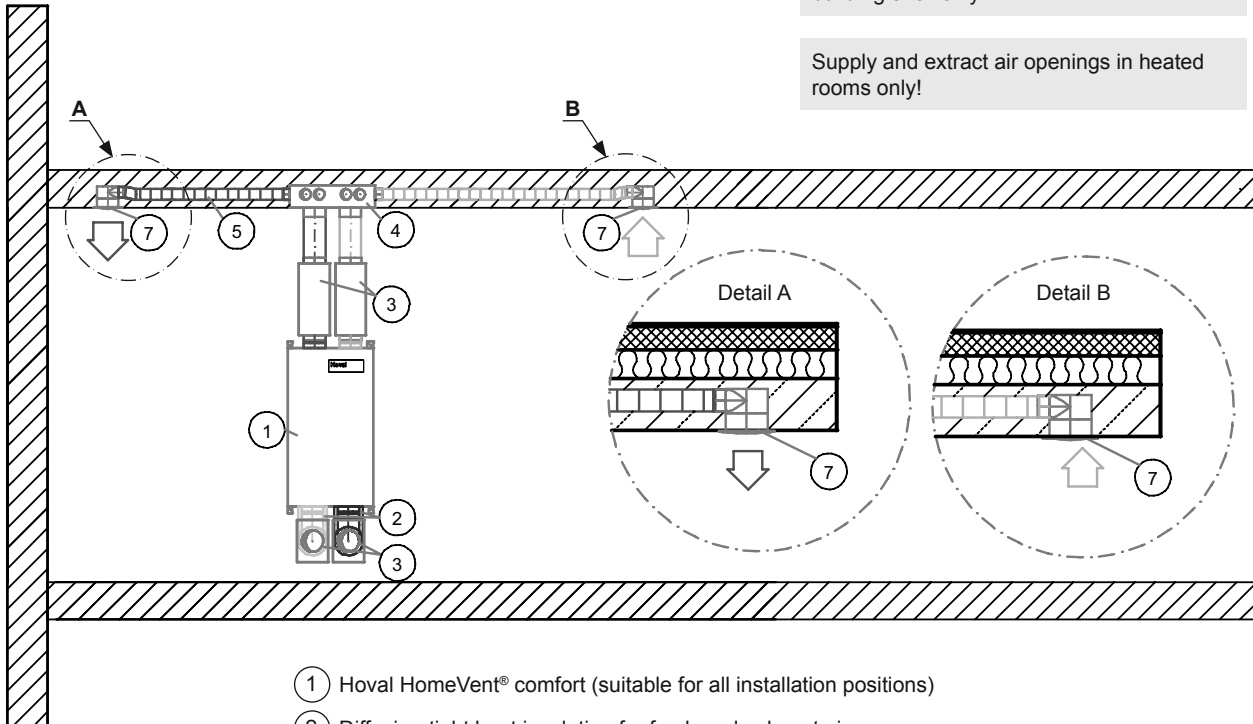


■ Examples

Example 2b

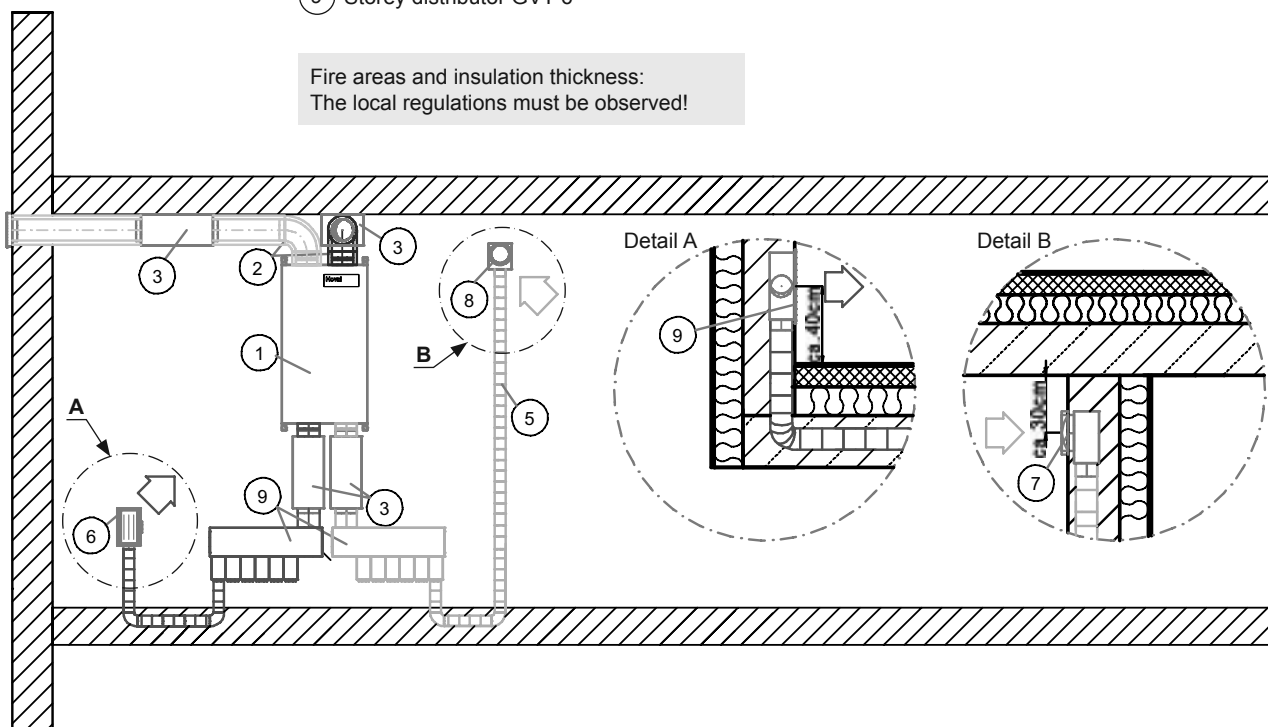
Air ducts must be routed within the thermal building shell only!

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!



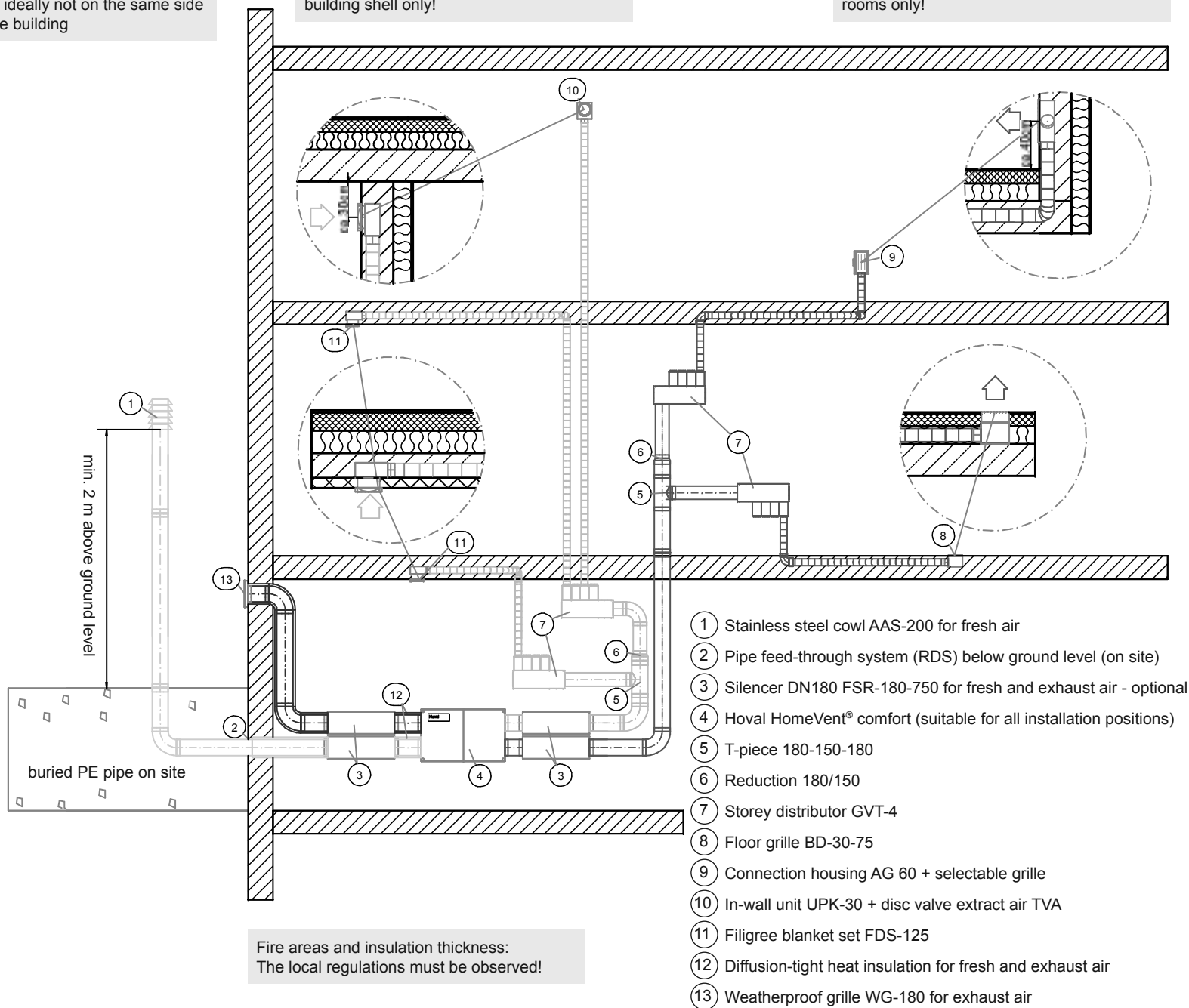
■ Examples

Example 3

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

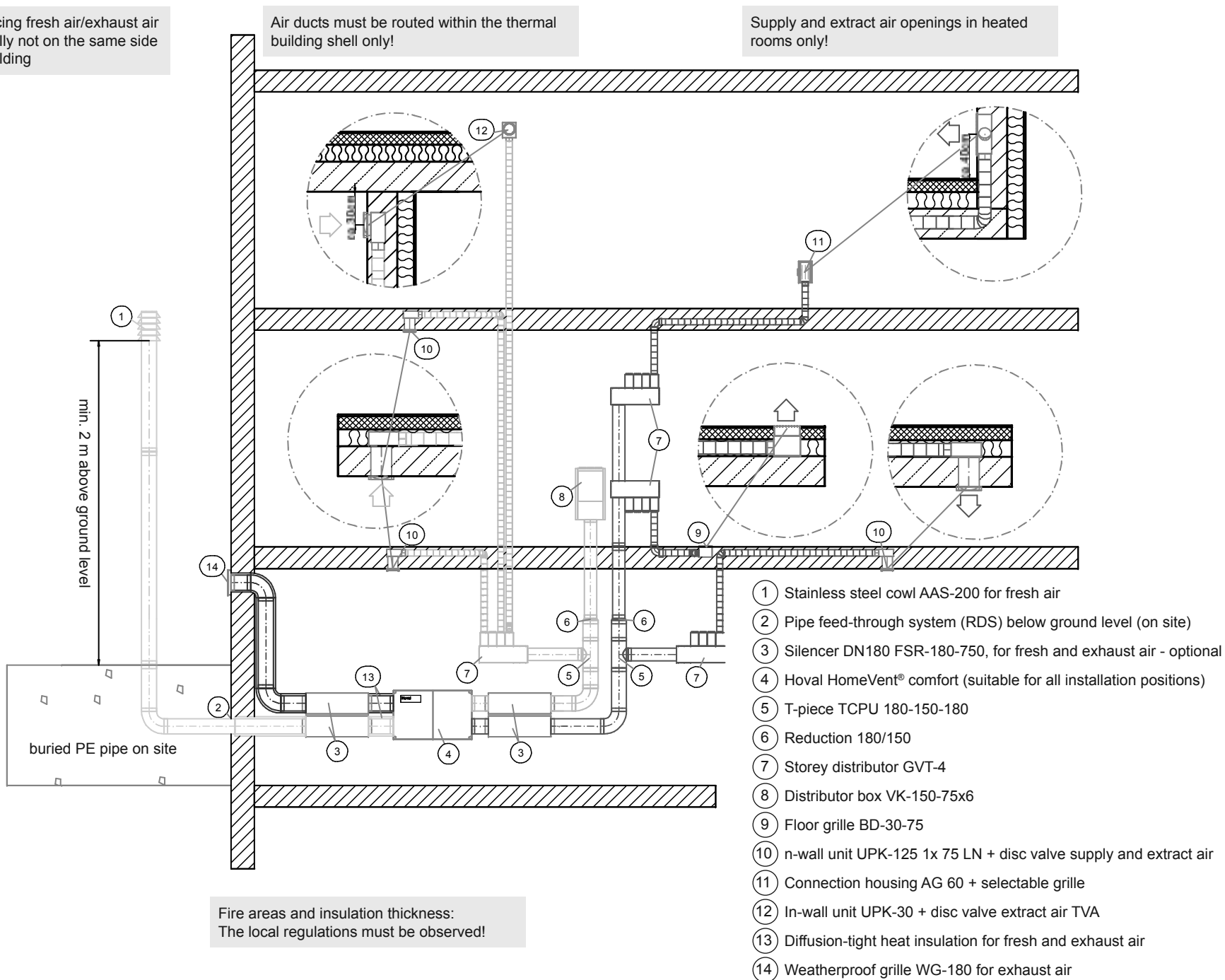
Air ducts must be routed within the thermal
building shell only!

Supply and extract air openings in heated
rooms only!



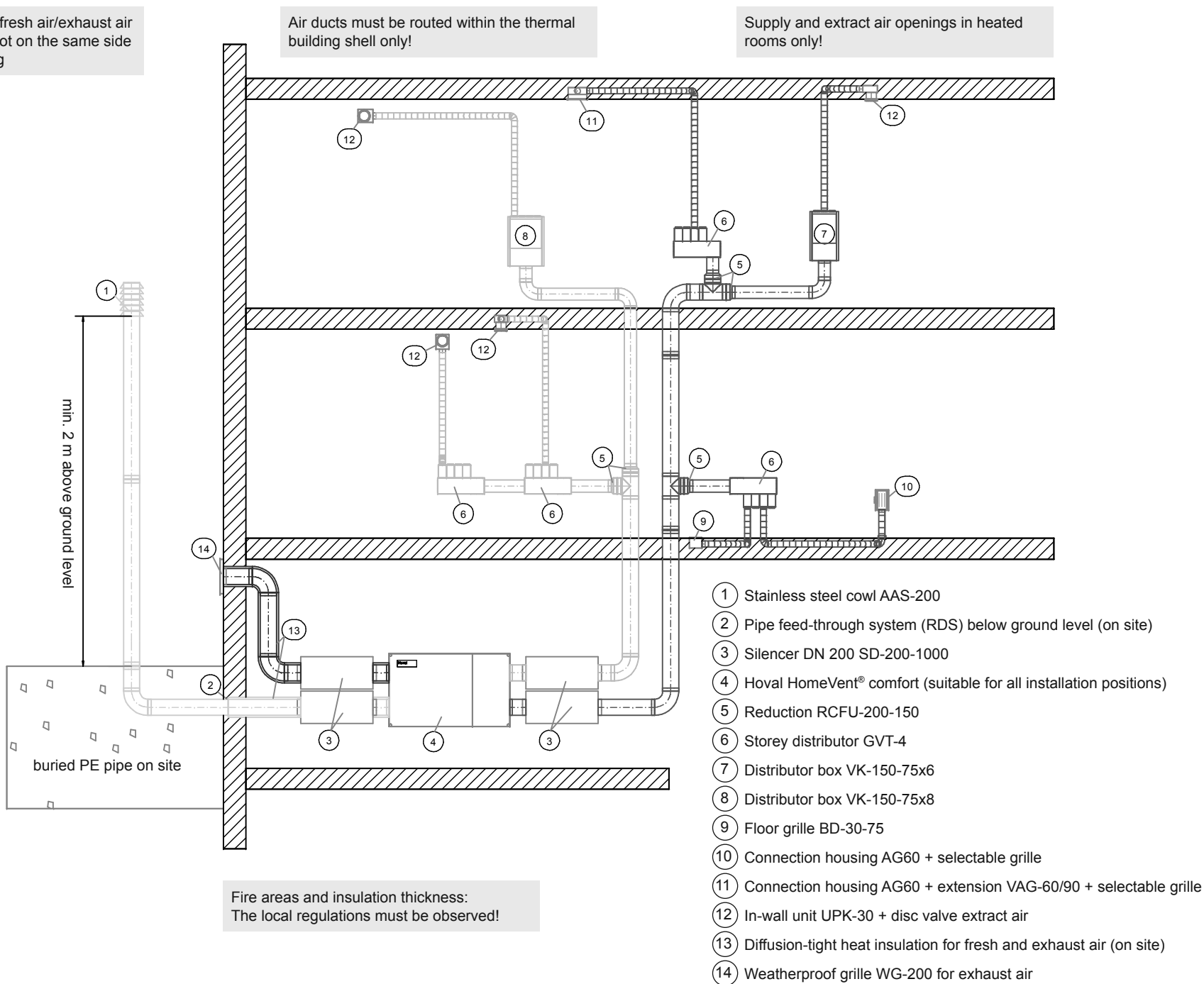
■ Examples

Example 4



■ Examples

Example 5



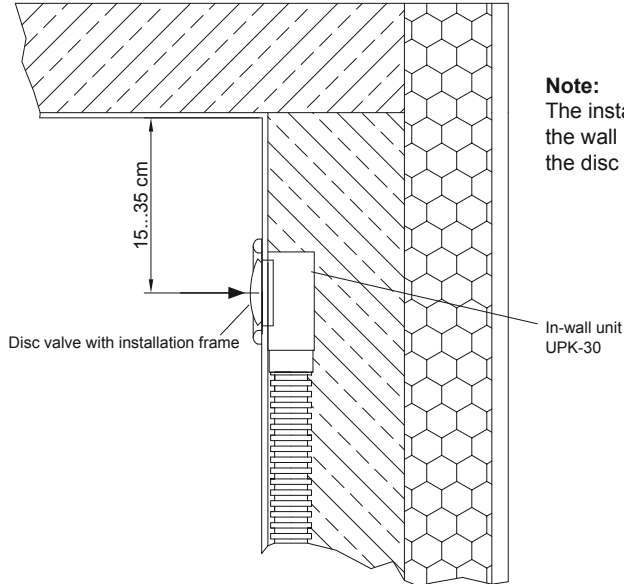
■ Engineering

Component installation instructions

Example: extract air, wall installation

Recommended material

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



Note:

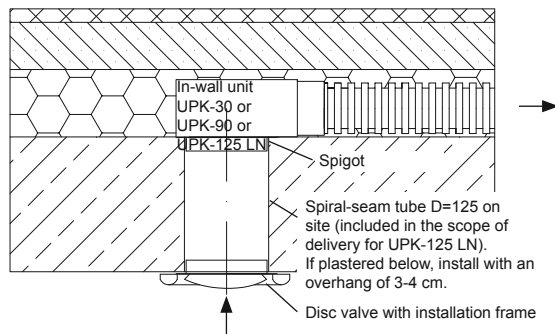
The installation frame of the disc valve must not be mounted before the wall is plastered or tiled (otherwise it will not be possible to mount the disc valve).

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:

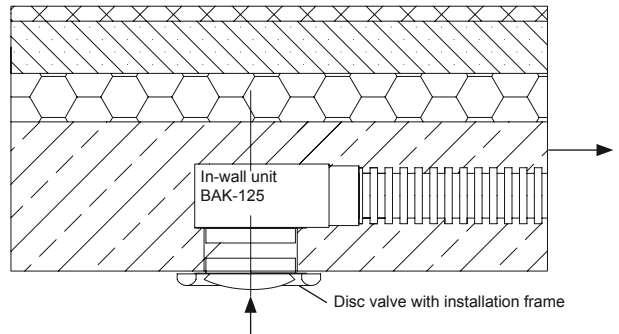
The installation frame of the disc valve must only be mounted after plastering (otherwise it will not be possible to mount the disc valve).

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

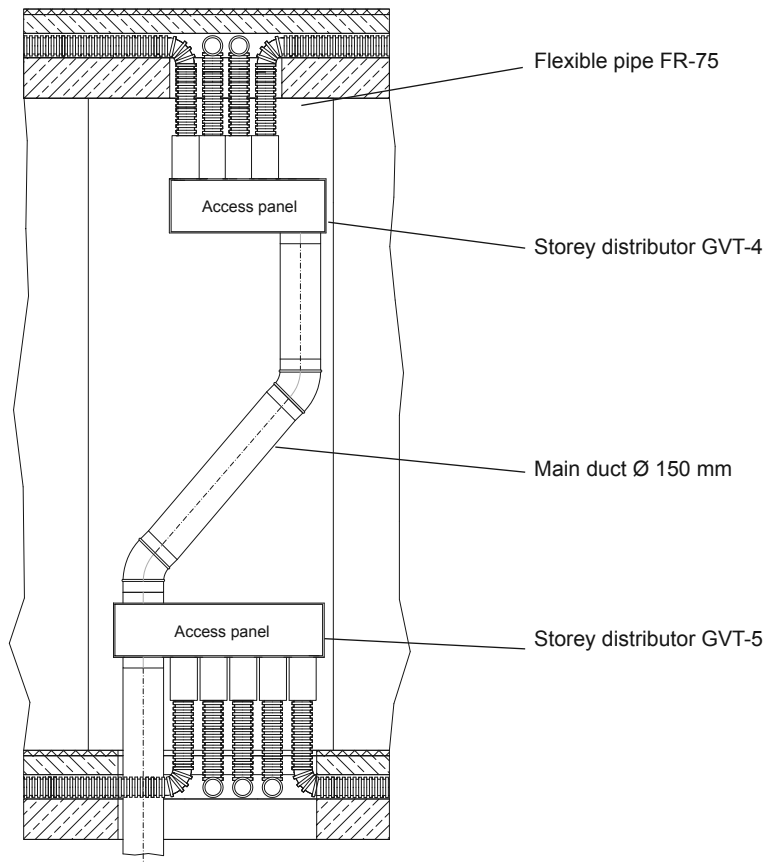


■ Engineering

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.



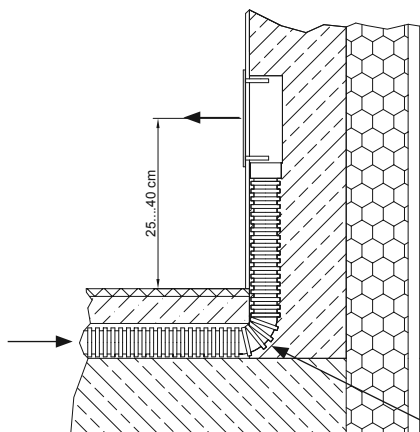
The access panel should be accessible for cleaning purposes. The air flow rate is controlled using baffles in the storey distributor.

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).

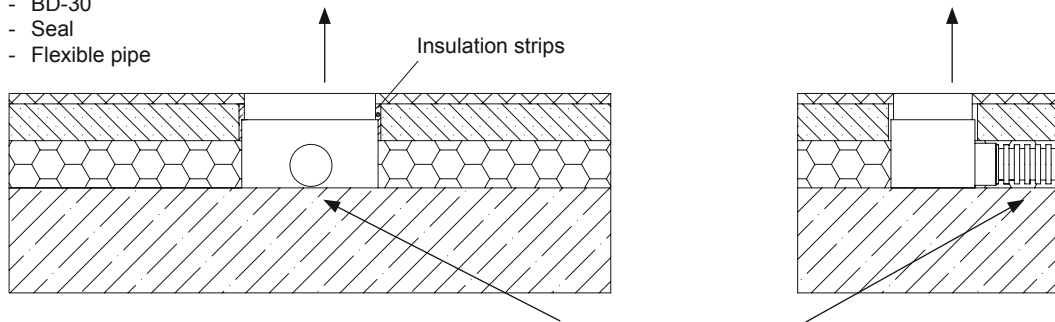
■ Engineering

Component installation instructions

Example: floor grille BD-30

Recommended material

- BD-30
- Seal
- Flexible pipe



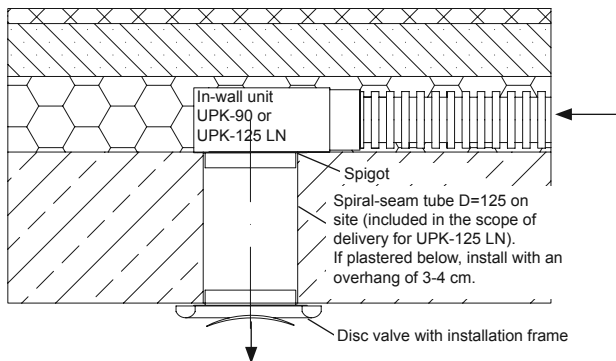
When routing flexible pipes on cold slab ceilings, use effective insulation (at least 3 cm) underneath (cold).

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



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).

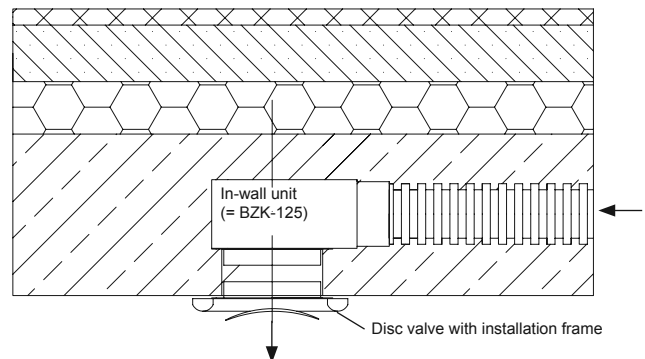
When routing on cold slab ceiling/wall, use effective thermal insulation (at least 5 cm) underneath.

Example: supply air, ceiling installation

In concrete ceiling

Recommended material

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



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

¹ access panel

