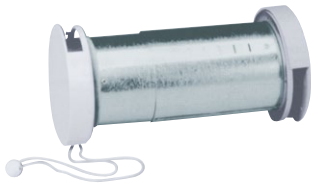
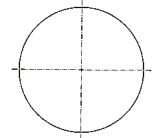
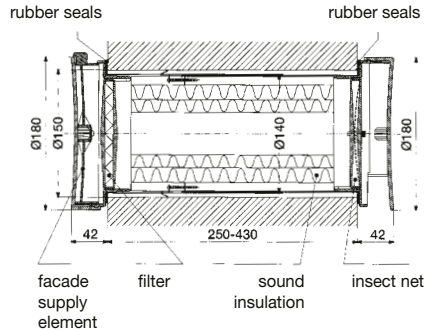


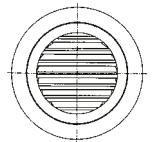
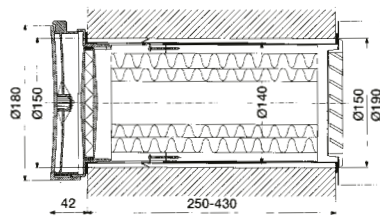
PPA – fresh air inlet element



facade supply element



external grid type 1



external grid type 2

Technical parameters

Description

The PPA is a circular fresh air inlet element with a telescopic housing for installation in an external wall near the ceiling structure. The internal grille has an integrated control damper which can be operated by a cord. The PPA has a built-in silencer. Telescopic extension allows installation in the wall without the aid of screws. The two parts of the telescopic extension are joined and pulled together through the wall using internal screws. The PPA is supplied with two types of outdoor grille, while type 1 is equipped with an insect screen.

The inlet element is supplied with silencers in two thicknesses. The silencer is lint-free, washable and can be easily removed.

The PPA is equipped with an EU3 class filter. The insect screen and silencer can be easily removed from the room.

- Easy to clean
- Wall mounting with a thickness of 250 to 400 mm
- Can be supplied with silencers of two thicknesses
- Outer part can be supplied in different colours

Materials and surfaces

- Inner part – permanent white plastic
- External grilles type 1 – permanent coloured plastic, grey
- External grilles type 2 – aluminium, standard finish – powder coating, grey RAL7040

- Telescopic extension – galvanised steel
- Sound insulation – foam material

Maintenance

The front circular part of the inlet element, filter and silencer are removable so that they can be cleaned.

Accessories

- ULZ-1 special silencer length (wall thickness more than 300 mm)
- ULZ-2 cover flanges 241 mm diameter, galvanised steel, white/grey
- ULZ-3 filter
- ULZ-4 insect net
- PPAK Type1, copper enclosure
- PPAK Type1, aluminium housing
- PPAG Type1, galvanised steel enclosure

Example of order execution

PPA – a

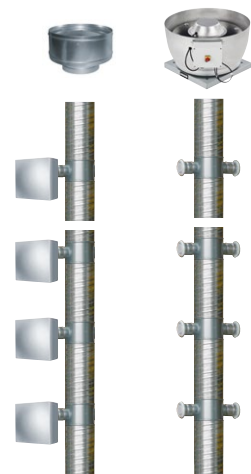
Type _____
Outdoor grille 1, 2 _____

The PPA is supplied with a two-part noise insulation with a diameter of 140/50 mm. If more air flow is required, the inner part of the insulation is removed to increase the internal cross section. This reduces the noise attenuation by 3 dB (see technical data). Short inlet elements for installation in lightweight constructions are available on special order, but these elements have a lower noise attenuation.

Additional illustration

SILENT ECO
decentral
system

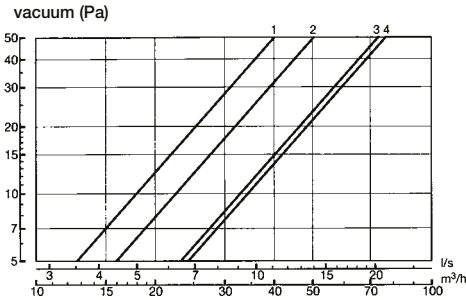
CRxB-N
central
system



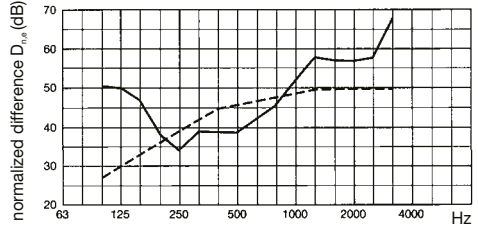
PPA is a fresh air supply element suitable for central ventilation systems with CRxB-N fans or for decentral systems equipped with e.g. Silent ECO fans

PPA – fresh air inlet element

Characteristics

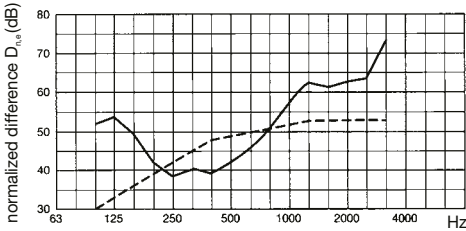


PPA with sound insulation diameter 140/80mm



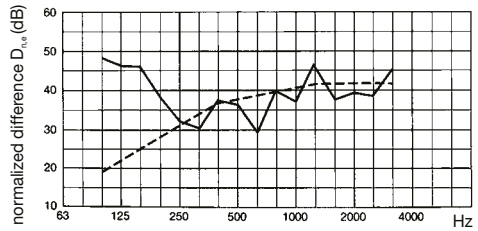
wall thickness 300 mm
weighted normalised difference of levels $D_{n,w} = 46$ dB, $\Delta_{n,max} = 7,6$ dB

PPA with sound insulation diameter 140/50mm



wall thickness 300 mm
weighted normalised difference of levels $D_{n,w} = 49$ dB, $\Delta_{n,max} = 8,3$ dB

PPA without sound insulation



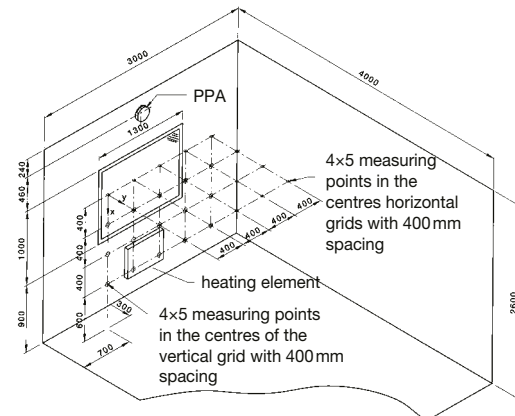
wall thickness 300 mm
weighted normalised difference of levels $D_{n,w} = 38$ dB, $\Delta_{n,max} = 10,2$ dB

curve	filter	sound insulation [mm]	free cross-section [cm ²]	equivalent cross section [cm ²]
1	EU-3	Ø140/Ø50	20	21
2	EU-3	Ø140/Ø80	50	26
3	-	Ø140/Ø50	20	26
4	-	-	50	39

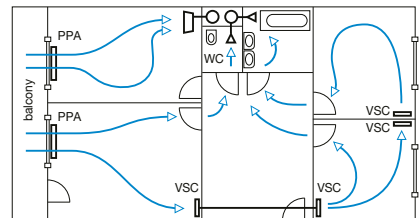
Flow [m ³ /h]	[l/s]	without heating element (500 W)			with heating element (500 W)	
		0	-20	-40	-20	-40
20	5,6	<0,10	0,15	0,21	<0,10	0,10
30	8,3	<0,10	0,15	0,22	<0,10	0,17
40	11,1	0,10	0,15	0,22	0,10	0,18
50	13,9	0,13	0,15	-	0,11	-
60	16,7	0,14	0,15	-	0,13	-
70	19,4	0,14	0,15	-	0,13	-
100	28,0	0,15	0,23	-	0,13	-

table of speeds in the residence zone in [m/s]

Additional illustration



schematic sketch of ventilation of a flat in residential construction using supply and passage elements



Test equipment for determining residence zone velocities for different flow rates and temperature differences. The test used $\Delta T = -40$ K, window with $U = 1,5$ W/m². At -20 K the $U = 2,6$ W/m².