

Perforated Diffusers

B-10 Series

Type: Perforated Face - Supply / Return Ceiling Diffuser

Throw: Four way

Model : PD-AB-14-P

Construction: Aluminium

Description

Perforated diffuser frame and core are of high quality extruded aluminium profile having natural anodised finish. The perforated panel is fixed to the frame by screws and can be removed easily by loosening the screws. Supply air diffusers are provided with plenum box. Because of high induction rates, velocity and temperature will be equalized quite rapidly above the occupied zone.

Different types of internal cores can be fixed inside the perforated panel as an option. The core is fixed to the frame with aluminium pins loaded with steel springs and can be easily removable and interchangeable to allow for maximum flexibility in installation and maintenance.

Standard Construction

Frame

Extruded aluminium profile with 30 mm flange width.

Core

Die punched single piece sheet.

Perforated Panel

0.9 mm Galvanized steel sheet with 3mm hole.

Plenum box

0.7 mm Thick Galvanized steel sheet.

Finish

Available with RAL powder coating, please specify color.

Optional Fittings

Plenum Chamber

Plenum is available with circular, square or rectangular spigots in either top or side entry applications.

Neck Reducer (R)

Neck reducers are available with circular, square or rectangular spigots in top entry only.

Foam Gasket

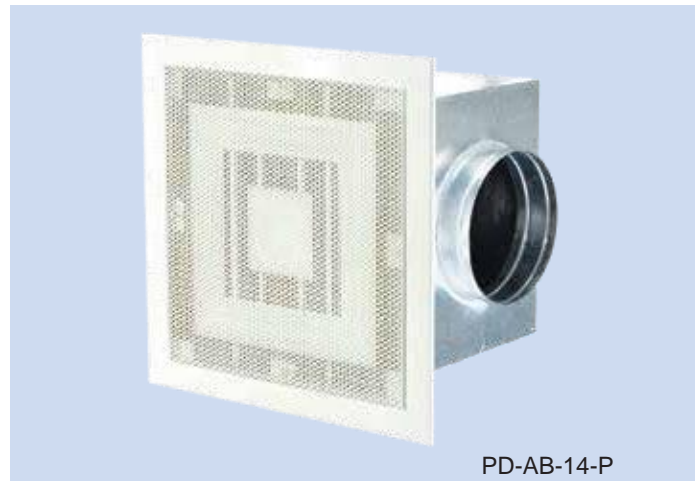
Can be provided through out the back of frame, to prevent the leakage of air.

Finish

Mill finish or Chrome plating.

Note:

Available in rectangular sizes & are suitable for flush mounting in lay-in type ceiling.



Features:

Efficient, draftless air distribution for all types of ceilings.

Air pattern controllers do not dampen the air in any way. Flow rate and sound level remain constant regardless of air pattern required.

Air pattern controllers can be replaced to any desired pattern.

Perforated surface plate completely conceals pattern controllers.

Always available in powder coated finish in any colour to match with the false ceiling grid.

For supply diffusers, perforated face is dropped slightly below the ceiling.

Concealed fixing and easily removable perforated face, give easy access to air pattern deflectors and control damper.

Suitable for installation into tiled ceilings.

Spigot air inlets are available in a variety of sizes, suitable for flexible duct connections.

Selected Products of the company have been Classified / Listed / Tested by various international testing authorities.

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BETEC CAD's Diffusers with Plenum / Neck reducers are recommended for heating, ventilating and cooling in centralized air conditioning systems.

Diffusers, with 4,3,2 or 1 way pattern deflectors for horizontal diffusion of air in their respective ways without change in air volume, pressure or sound level. 100% utilization of diffuser face area, regardless of pattern deflection, gives optimum performance in terms of air handling characteristics.

These diffusers have high diffusion induction rates, resulting in rapid temperature and velocity equalization of the mixed air mass, well above the zone of occupancy.

Correct selection and sizing of distribution plenum chambers and neck reducers is critical because terminal air resistance is very low relative to the distribution ductwork resistance. A similar effect results from use of neck reducers with circular duct connections because the reduced duct area will cause generally higher velocities and hence increased risk of noise generation

Standard Construction

Plenum Casing

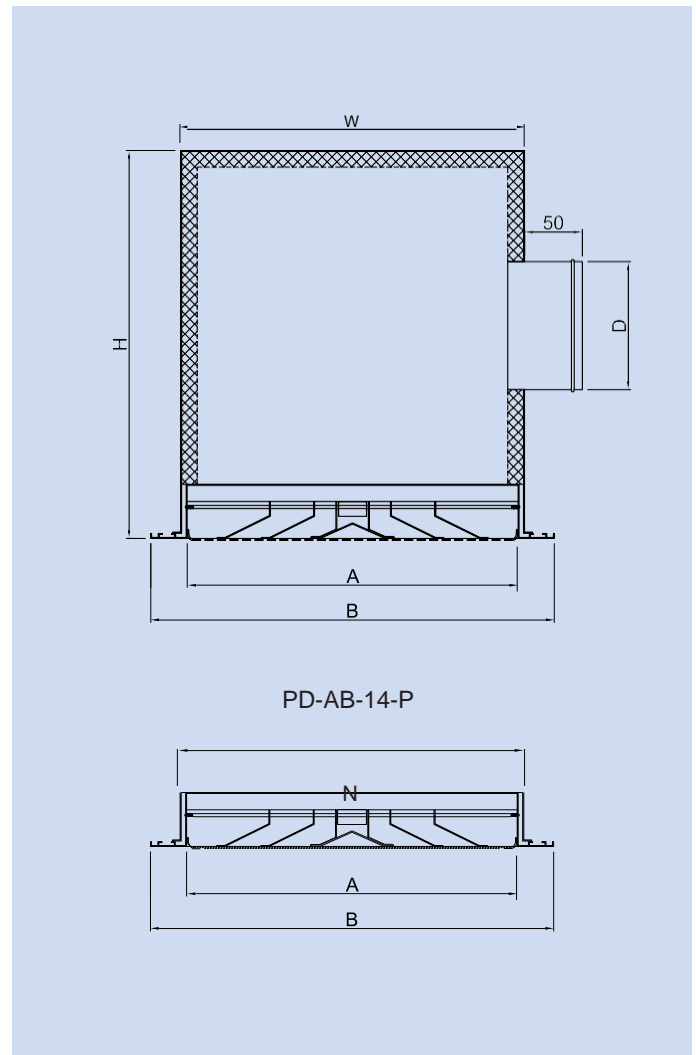
0.7 mm thick galvanized steel.

Insulation

Acoustic liner of 13 mm thickness, 32 kg/m³ density.

Neck Reducer (R)

0.7 mm Thick galvanized steel sheet adopted for neck
Available in Square / Round.



Standard Sizes and dimensions for straight plenum boxes					
Diffuser Neck (mm)	Plenum Height - H (mm)	D (mm)	Plenum Width - W (mm)	A = Neck Size (mm)	B = Face Size (mm)
300 x 300	300	150	300	300	360
400 x 400	350	200	400	400	460
500 x 500	400	250	500	500	560
600 x 600	450	300	600	600	660

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