

Underfloor Air Terminal (Constant Volume)

MODEL: PCDP - 10R

DESCRIPTION:

PCDP-10R (Personal Comfort Diffuser Polycarbonate) is an adjustable constant volume air terminal for use in raised floor air systems. The two-part core (diffuser grille and catch pan) features Lexan™ 940 polycarbonate, fire rated UL-94-V0 polyamide construction, with a tensile stress rating (yld) of 630 kgf/cm² according to ASTM D 638. The diffuser rated load capacity of 1275 lbs. (578 Kg) is based on load applied to a 1" (25mm) square.

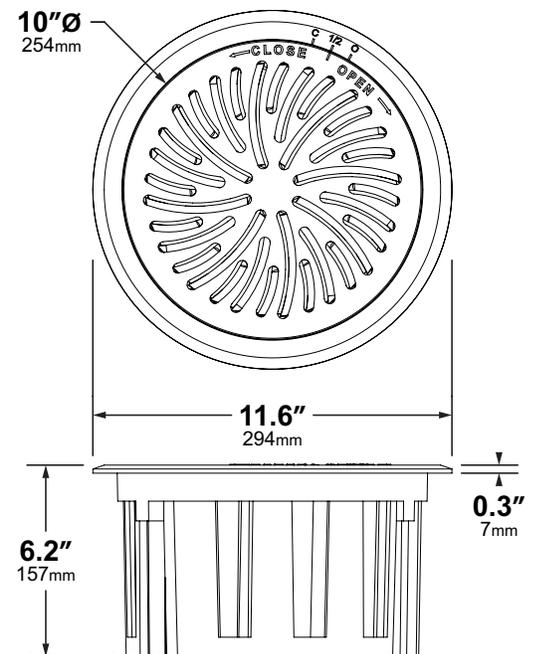
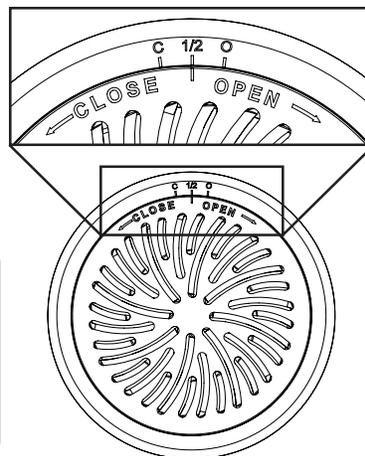
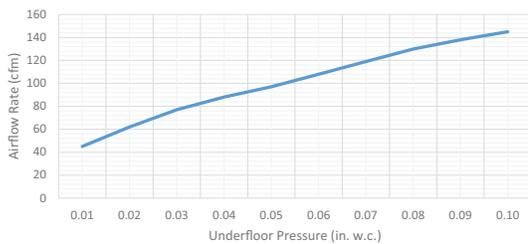
The nominal 10" (254mm) diameter diffuser grille produces 360 degree omni-directional mixing air flow. It can be easily rotated to adjust air flow volume, and is removable for convenient cleaning of the catch pan. Supply air throw will not exceed 4.5' (1.4m) at 50 ft/min (0.25 m/s) to maintain a V_E of 1.2 according to ASHRAE 62.1.

FEATURES:

- Manual air flow adjustment via rotating diffuser grille
- Ships fully assembled; installation in seconds
- 360° omni-directional mixing air flow
- Durability (as strong as the floor)
- Non-binding flow adjustment

AVAILABLE OPTIONS:

- Custom colors (specify on order)
- MIN / MAX stops



ALL DIMENSIONS NOMINAL +/- 0.1" (2.5mm)

SPECIFICATIONS:

Application:	Underfloor Cooling Raised Access Floors 6.5" (165mm) +
Grille Dimensions:	Diffuser Opening: 10"Ø (254mm) Full Face: 11.6"Ø (294mm)
Diameter (Nominal)	Installation Cut-Out: 10.25"Ø [+1.125/-0.00] (260mm [+3.175/-0.00])
Grille Rating:	Polyamide Polycarbonate Conforms to NFPA 90a 1275 lbs. (578 Kg) Load Strength
Supply Press. / Temp.:	0.02–0.1 in. w.c. (5–25 Pa) 40–110°F (4–43°C)
Capacity:	Maximum: 100 cfm @ 0.05 in. w.c. (170 m ³ /hr @ 12.5 Pa)
(Nominal)	Minimum (Diffuser Closed): 7 cfm @ 0.05 in. w.c. (12 m ³ /hr @ 12.5 Pa)
Noise Criterion:	≤ NC-17 (All Flow Conditions)