

# Underfloor Air Terminal (Variable Volume)

**MODEL: PCDP - 08RVAV - C**

**DESCRIPTION:**

**PCDP-08RVAV-C (Personal Comfort Diffuser Polycarbonate)** is an adjustable variable volume diffuser for use in raised floor air systems. The underfloor terminal features 20 gauge (1mm) galvanized steel construction, pre-painted flat black.

The air valve uses time modulation to vary total air supplied to a conditioned space. Air velocity is constant any time the valve is open; the short time duration between open/close cycles produces the effect of continuous air delivered to the occupied space. It is rated for 24V (18-30VAC) operation; one (1) PAP-1 Plug & Play Cable is included.

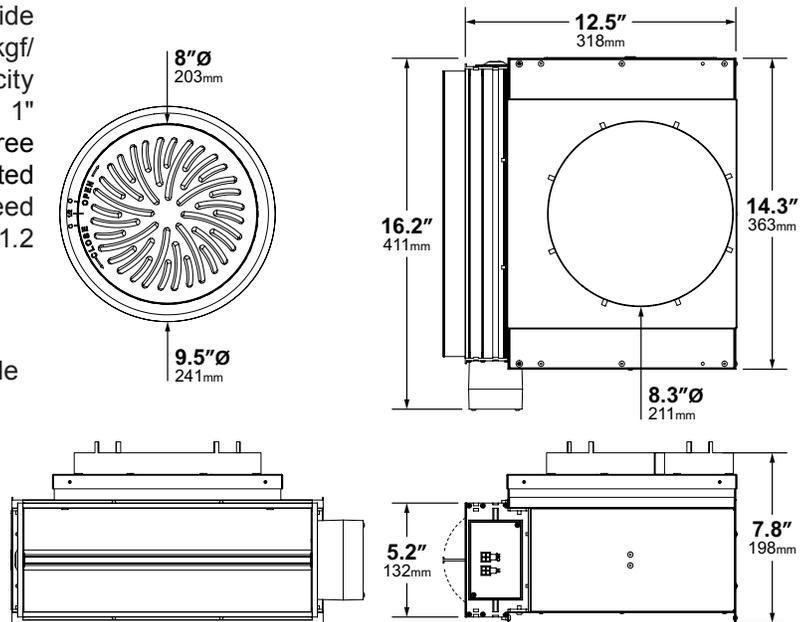
The nominal 8" (203mm) diameter diffuser grille features Lexan™ 940 polycarbonate, fire rated UL-94-V0 polyamide construction, with a tensile stress rating (yld) of 630 kgf/cm<sup>2</sup> according to ASTM D 638. The rated load capacity of 1275 lbs. (578 Kg) is based on load applied to a 1" (25mm) square. The diffuser grille produces 360 degree omni-directional mixing air flow, and can be easily rotated to adjust air flow volume. Supply air throw will not exceed 4.5' (1.4m) at 50 ft/min (0.25 m/s) to maintain a V<sub>E</sub> of 1.2 according to ASHRAE 62.1.

**FEATURES:**

- Manual air flow adjustment via rotatable diffuser grille
- Welded and riveted pre-painted galvanized steel
- 360° omni-directional mixing air flow
- DC synchronized magnetic motor

**AVAILABLE OPTIONS:**

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



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

**SPECIFICATIONS:**

<b>Application:</b>	Underfloor Cooling   Raised Access Floors 8" (203mm) +
<b>Grille Dimensions:</b>	Diffuser: 8"Ø (203mm)   Face: 9.5"Ø (241mm)
<b>Diameter (Nominal)</b>	Installation Cut-Out: 8.4375"Ø [+1.125/-0.00] (214mm [+3.175/-0.00])
<b>Grille Rating:</b>	Polyamide Polycarbonate   Conforms to NFPA 90a   1275 lbs. (578 Kg) Load Strength
<b>Supply Press. / Temp.:</b>	0.02–0.1 in. w.c. (5–25 Pa)   40–110°F (4–43°C)
<b>Capacity:</b>	Maximum: 77 cfm @ 0.05 in. w.c. (131 m <sup>3</sup> /hr @ 12.5 Pa)
<b>(Nominal)</b>	Minimum (Damper Closed): 7 cfm @ 0.05 in. w.c. (12 m <sup>3</sup> /hr @ 12.5 Pa)
<b>Noise Criterion:</b>	≤ NC-17 (All Flow Conditions)