



Specification Sheet

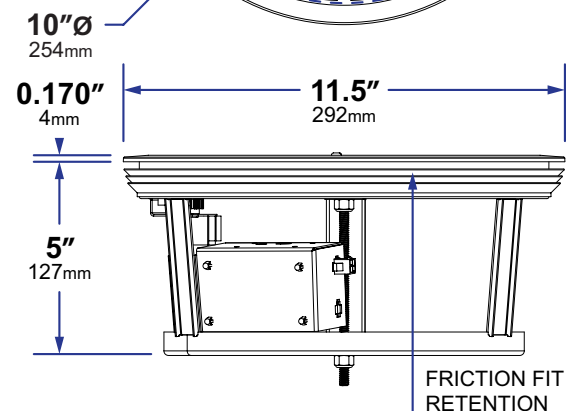
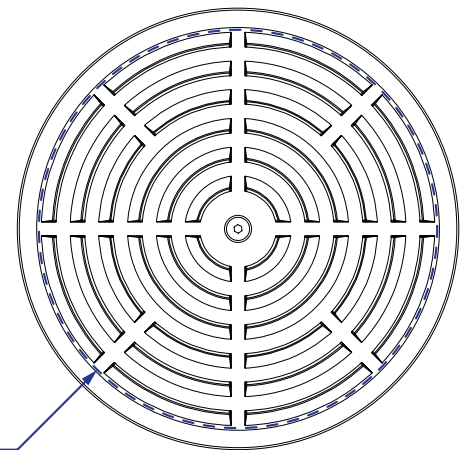
PDD-10R-DV-FF Drop-In VAV (Omni-Directional Displacement)

Description

PDD-10R-DV-FF (Thermostatically Controlled VAV Personal Comfort Diffuser) is a variable volume air terminal for use in raised floor air systems. It features an 18 gauge (1.3mm) galvanized steel catch pan assembly, with all interior features pre-painted flat black. A toolless friction fit retention design securely holds the diffuser assembly in place in the floor.

The nominal 10" (254mm) diameter cast aluminum grille produces omni-directional displacement air flow. A manually adjustable sliding damper allows occupants to limit maximum air flow. Ten (10) standard grille colors are available; custom colors and finishes can be provided to match architectural design (specify on order).

The PDD-10R-DV-FF works with thermostatic control to vary total air delivered to a conditioned space in response to a 0–10V cooling signal. The damper is rated for 24VAC operation; up to fourteen (14) units are supported in chain by a single 95VA power module.



Features

- VAV damper designed for ultra low power consumption
- Fully motorized diffuser plate moves in response to changes in temperature
- User-controlled manual damper for true personal comfort, independent of thermostatic control
- Connect up to 14 diffusers to a single 95VA power module
- One (1) 25' (7.6m) Plug & Play cable included
- Parts and labor warranty covers 5 years of operation in a standard office application
- Ships fully assembled; quick, easy & efficient installation
- Friction fit design for secure retention in floor

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

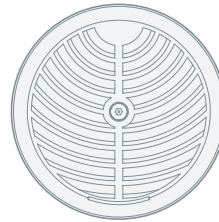
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PDD-10R-DV-FF Drop-In VAV (Omni-Directional Displacement)

Alternate Diffuser Configurations



Uni-Directional
Desktop Mixing
(Élan-04R-180)



Uni-Directional
Displacement
(Élan-06R-180)



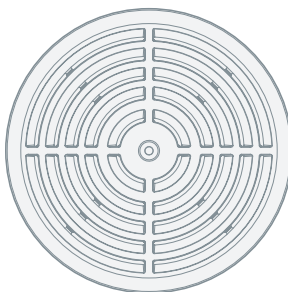
Uni-Directional
Mixing
(Élan-08R-180)



Omni-Directional
Mixing
(Élan-08R-360)



Omni-Directional
Mixing
(Élan-08R-720)



Omni-Directional
Displacement
(PDD-08R)



Omni-Directional
10" Mixing
(Élan-10R-360)

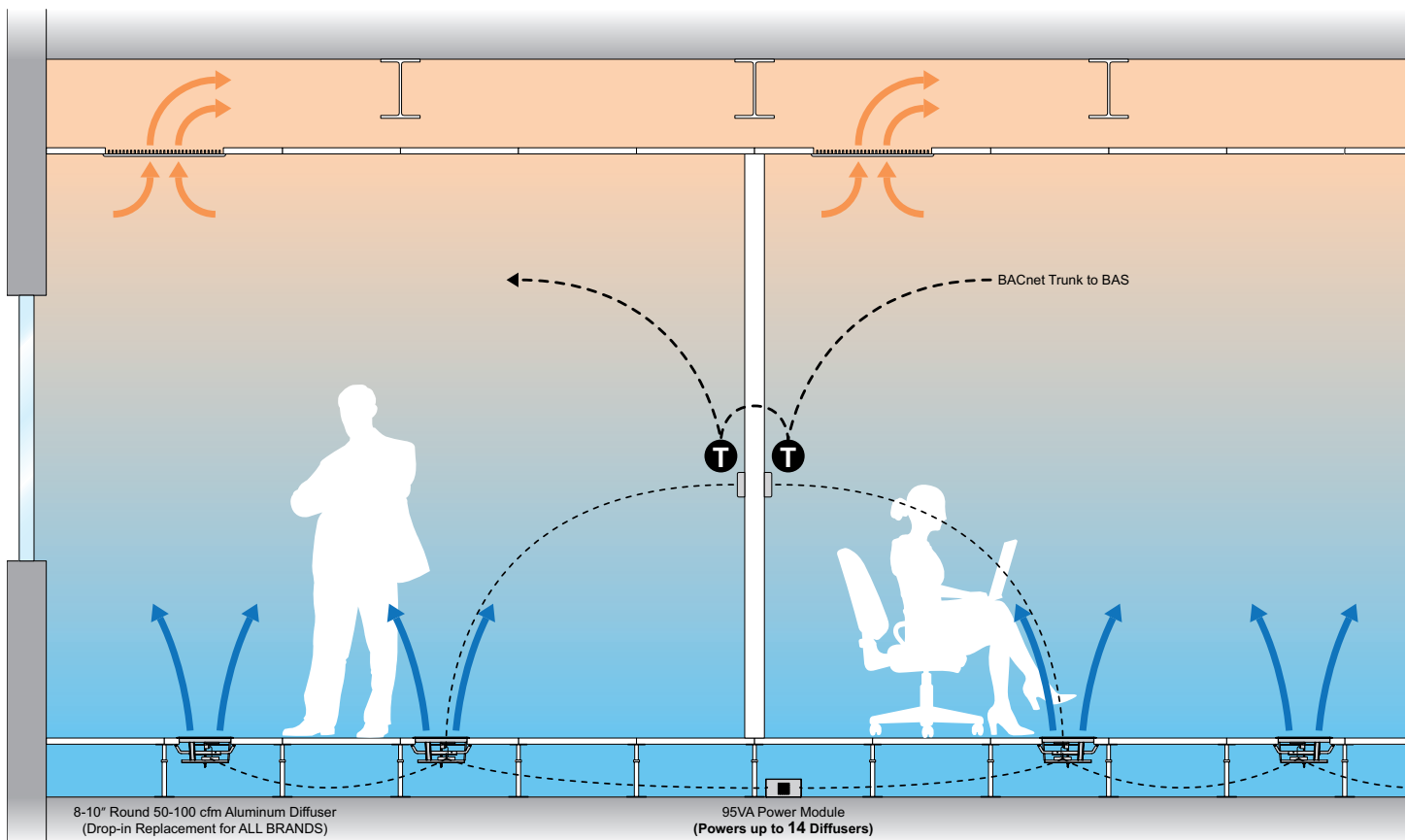


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PDD-10R-DV-FF Drop-In VAV (Omni-Directional Displacement)

Example System Layout

Cooling-Only with Wired Controls and Power



Specifications

Application:	Drop-In Underfloor VAV Cooling Raised Access Floors 6" (152mm) or Higher
Grille Dimensions:	Diffuser Opening: 10"Ø (254mm) Full Face: 11.5"Ø (292mm)
Diameter (Nominal)	Installation Cut-Out: 10.9"Ø [+1.125/-0.00] (277mm [+3.175/-0.00])
Grille Rating:	Cast Aluminum Conforms to NFPA 90a 1250 lbs. (567 Kg) Load Strength
Supply Press. / Temp.:	0.02–0.1 in. w.c. (5–25 Pa) 40–140°F (4–60°C)
Capacity:	Maximum: 85 cfm @ 0.05 in. w.c. (145 m³/hr @ 12.5 Pa)
(Nominal)	Minimum (Damper Closed): 8 cfm @ 0.05 in. w.c. (14 m³/hr @ 12.5 Pa)
Noise Criterion:	≤ NC-17 (All Flow Conditions)