



## Specification Sheet

### PDD-08R-DV-FF Drop-In Underfloor Air Diffuser Terminal (Variable Volume)

#### Description

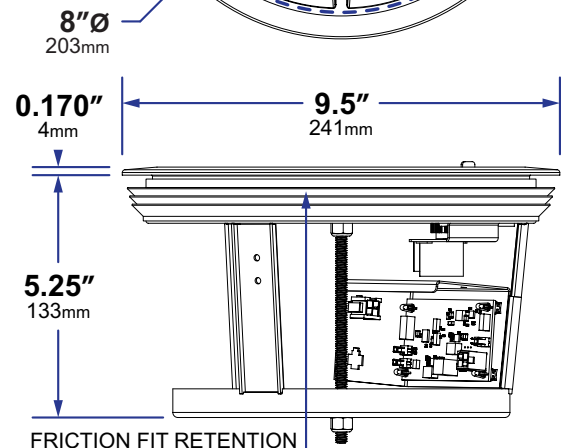
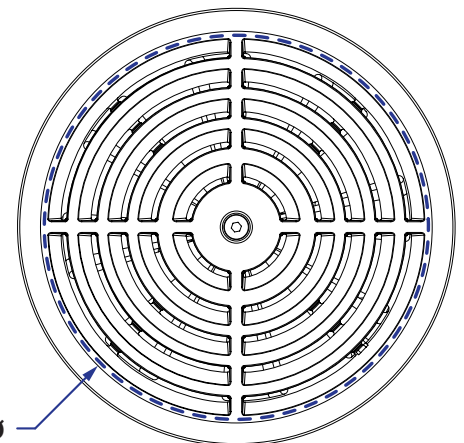
**PDD-08R-DV-FF (Thermostatically Controlled VAV Personal Displacement Diffuser)** is a variable volume air terminal for use in raised floor air systems. It features an 18 gauge (1.3mm) galvanized steel catch pan assembly, with all interior features pre-painted flat black. A toolless friction fit retention design securely holds the diffuser assembly in place in the floor.

The nominal 8" (203mm) diameter cast aluminum grille produces 360 degree omni-directional displacement air flow. An additional manually adjustable sliding damper allows occupants to limit maximum air flow. Ten (10) standard powder coat colors are available; custom colors and finishes can be provided to match architectural design (specify on order).

The PDD-08R-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 and 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
- Substantially horizontal omni- directional displacement air flow



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

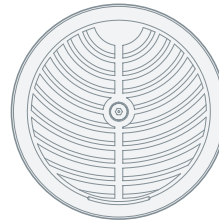
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#### Alternate Diffuser Configurations



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



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



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



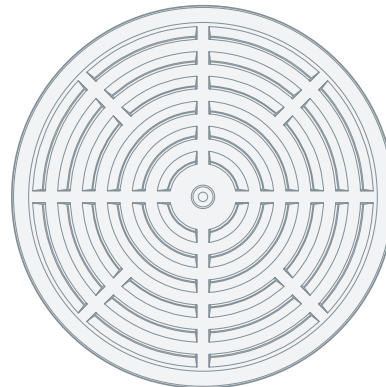
Omni-Directional  
Mixing  
(Élan-08R-360)



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



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



Omni-Directional  
10" Displacement  
(PDD-10R)

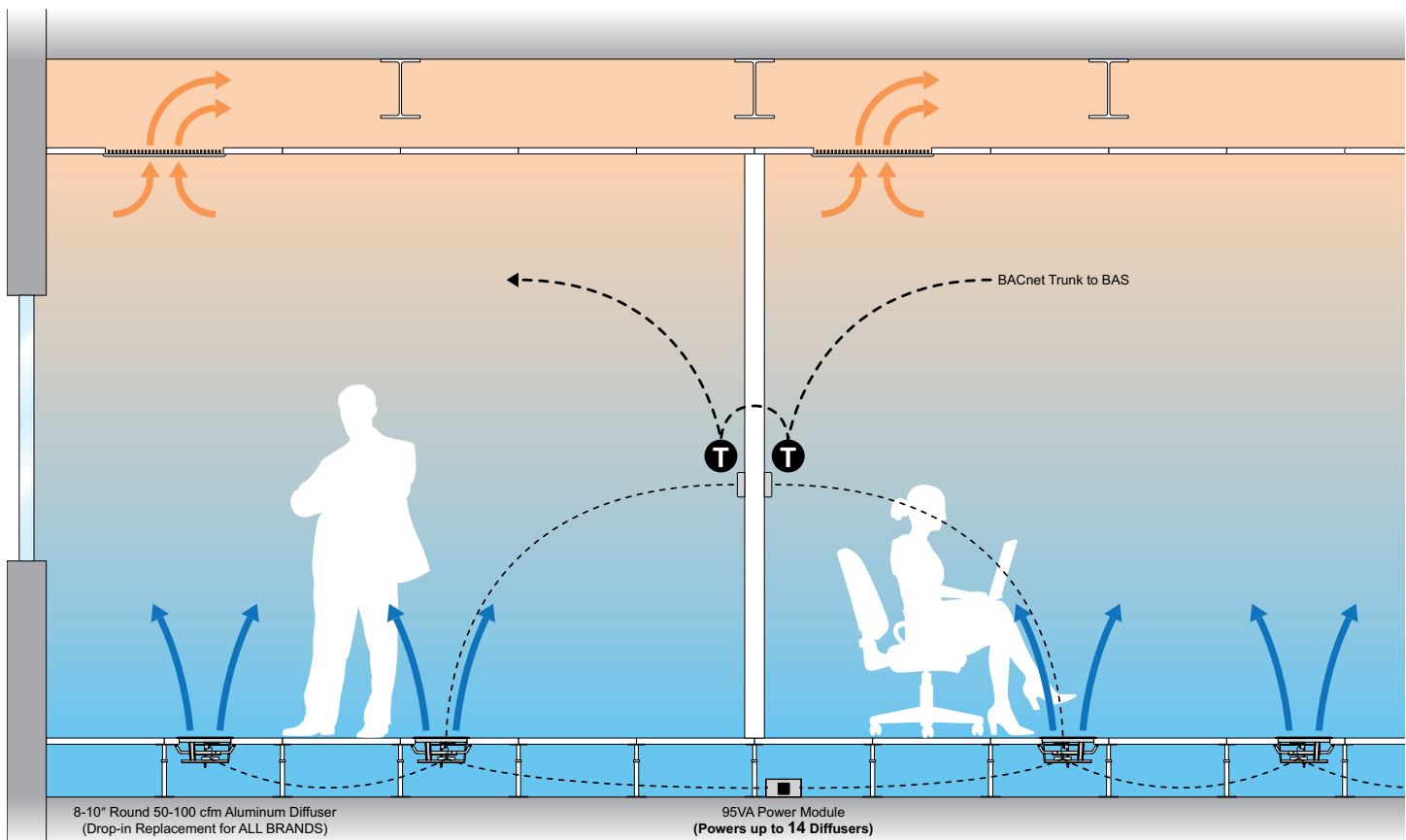


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### PDD-08R-DV-FF Drop-In Underfloor Air Diffuser Terminal (Variable Volume)

#### Example System Layout

Cooling-Only with Wired Controls and Power



#### Specifications

<b>Application:</b>	Drop-In Underfloor VAV Cooling   Raised Access Floors 6" (152mm) +
<b>Grille Dimensions:</b>	Diffuser Opening: 8"Ø (203mm)   Full Face: 9.5"Ø (241mm)
<b>Diameter (Nominal)</b>	Installation Cut-Out: 8.6875"Ø [+1.25/-0.00] (221mm [+3.175/-0.00])
<b>Grille Rating:</b>	Cast Aluminum   Conforms to NFPA 90a   1250 lbs. (567 Kg) Load Strength
<b>Supply Press. / Temp.:</b>	0.02–0.1 in. w.c. (5–25 Pa)   40–140°F (4–60°C)
<b>Capacity:</b>	Maximum: 52 cfm @ 0.05 in. w.c. (88 m³/hr @ 12.5 Pa)
<b>(Nominal)</b>	Minimum (Damper Closed): 7 cfm @ 0.05 in. w.c. (12 m³/hr @ 12.5 Pa)
<b>Noise Criterion:</b>	≤ NC-17 (All Flow Conditions)