

Specification Sheet

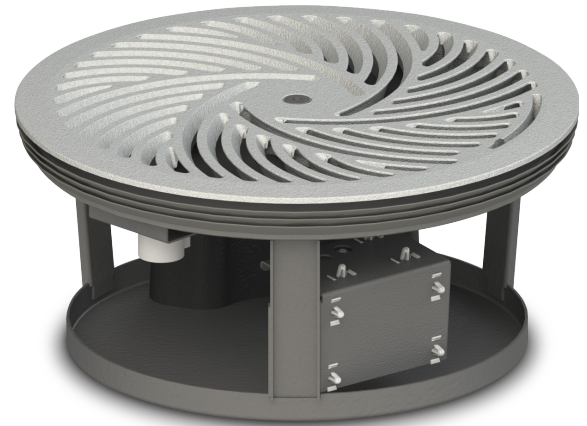
Élan-10R-360-Wi-FF Wireless Underfloor Air Terminal (Variable Volume)

Description

Élan-10R-360-Wi-FF (Thermostatically Controlled Fully Wireless 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.

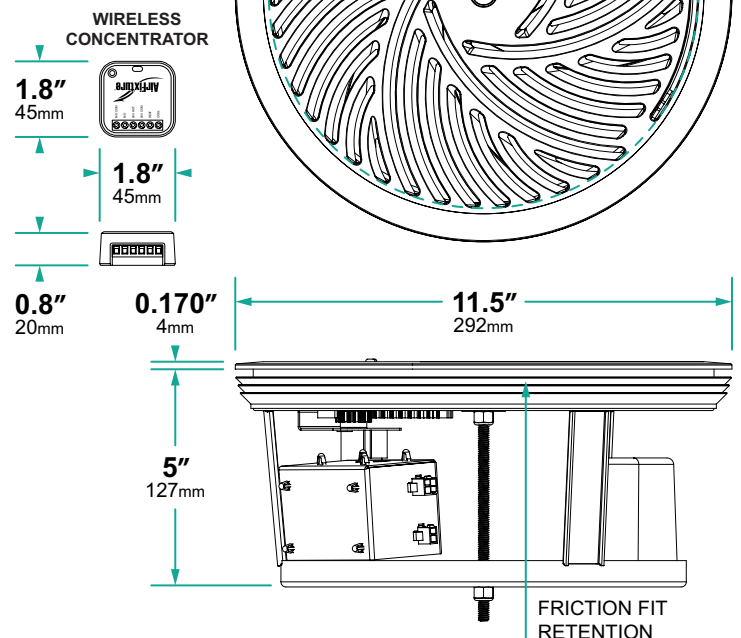
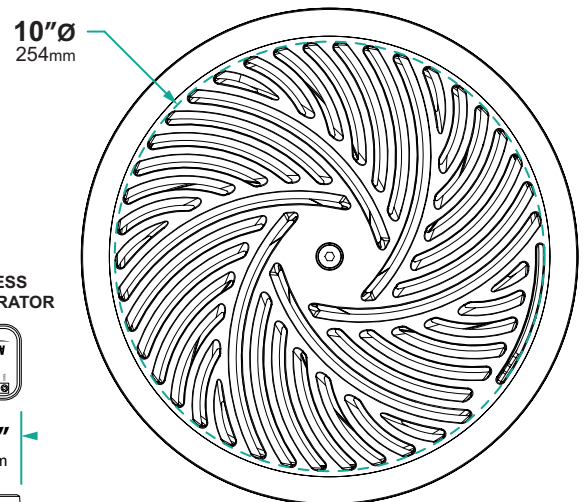
The nominal 10" (254mm) diameter cast aluminum grille produces 360 degree omni-directional mixing air flow. A manually adjustable sliding damper allows occupants to limit maximum air flow. Ten (10) standard grille colors are available; custom colors and finishes can be provided to match architectural design (specify on order).

The Élan-10R-360-Wi-FF requires no wired connectivity of any kind to function. Power is provided by an integrated high capacity battery, designed to facilitate normal operation in an office application for up to ten (10) years (projected). Thermostatic control is handled via Zigbee 2.4GHz wireless signal to a separate Concentrator. The Concentrator is connected to a standard 24VAC zone controller, and accepts a 0–10V cooling signal. Each Concentrator supports up to thirty-two (32) paired units.



Features

- FCC approved 2.4GHz wireless communications supports unobstructed zones up to 100 meters
- Connect up to 32 diffusers to a single wireless Concentrator (one Concentrator recommended per thermostatic zone)
- Sync units using the intuitive push-button pairing mode
- VAV damper designed for ultra low power consumption, providing a projected 10-year battery life
- Fully motorized diffuser plate moves in response to changes in temperature
- User-controlled manual damper for true personal comfort, independent of thermostatic control
- 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 simple and secure retention in floor



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

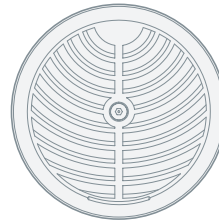
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Alternate Diffuser Configurations



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



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



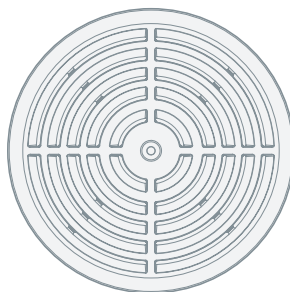
Uni-Directional Mixing
(Élan-08R-180)



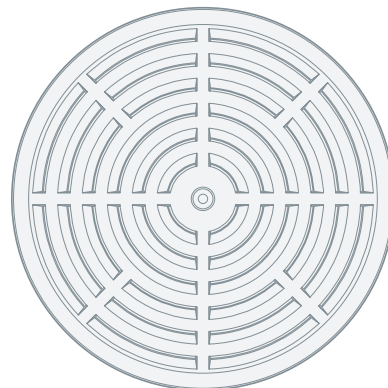
Omni-Directional Mixing
(Élan-08R-360)



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



Omni-Directional Displacement
(PDD-08R)



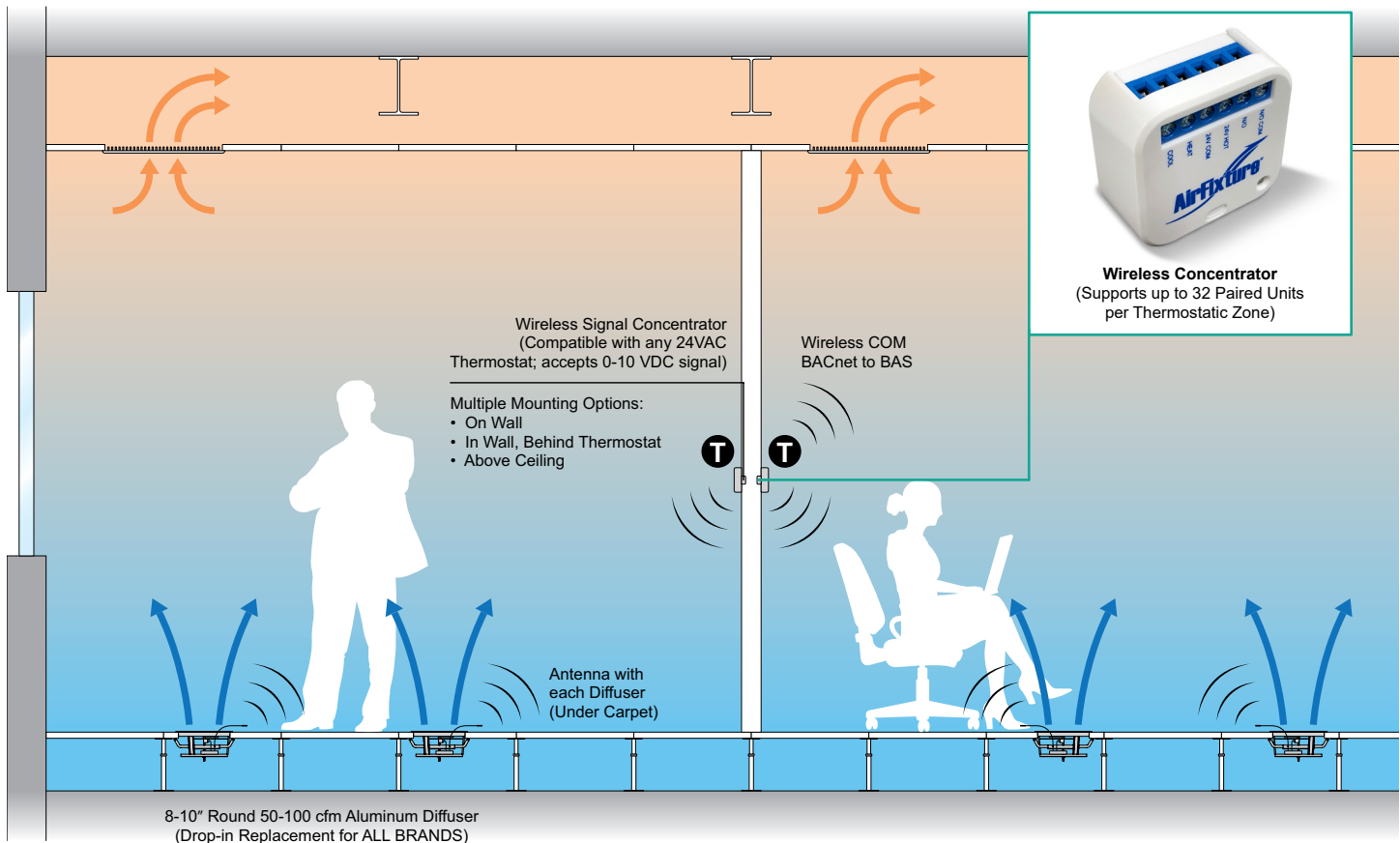
Omni-Directional 10" Displacement
(PDD-10R)

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Example System Layout

Cooling-Only with Fully Wireless Controls and Power



Specifications

Application:	Wireless Underfloor 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 [+.125/-0.0] (277mm [+3.175/-0.0])
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: 100 cfm @ 0.05 in. w.c. (170 m ³ /hr @ 12.5 Pa)
(Nominal)	Minimum (Damper Closed): 8 cfm @ 0.05 in. w.c. (14 m ³ /hr @ 12.5 Pa)
Noise Criterion:	≤ NC-17 (All Flow Conditions)
Battery Life:	Ten (10) Years (Based on Standard Office Application and Operation)
(Estimated Maximum)	
Wireless Signal:	2.4GHz Zigbee (Maximum Thirty-Two (32) Units Supported per Zone Concentrator)