

UNDERFLOOR AIR DISTRIBUTION — DISPLACEMENT DIFFUSER 8"

Personal Displacement Diffuser | Constant Volume | 360° Omni-Directional

PRODUCT DESCRIPTION

The 8-inch Personal Displacement Diffuser is an adjustable constant-volume air terminal for use in raised-floor air systems. It features an 18 gauge (1.3 mm) galvanised steel catch pan assembly, with all interior features pre-painted flat black. The nominal 8" (203 mm) diameter cast aluminium grille produces 360° omni-directional displacement air flow. A manually adjustable sliding damper allows occupants to limit maximum air flow. Ten (10) standard grille colours are available (custom finishes available). Air flow is substantially horizontal. Velocity decays below 40 fpm within a 2' (0.6 m) radius, delivering true displacement air distribution.



KEY FEATURES

- Substantially horizontal omni-directional displacement air flow
- True displacement — velocity < 40 fpm at 2' (0.6 m) radius
- Durability — rated as strong as the floor
- Manual air flow adjustment with sliding damper plate
- Tight shut-off

TECHNICAL SPECIFICATIONS

Application	Underfloor Cooling Raised Access Floors 8" (203 mm) +
Diffuser Opening	8" Ø (203 mm)
Full Face Diameter	9.5" Ø (241 mm)
Installation Cut-Out	8.3125" Ø [+0.125 / -.00] (211 mm [+3.175 / -.00])
Grille Material	Cast Aluminium Conforms to NFPA 90a
Load Strength	1 250 lbs (567 kg)
Supply Pressure	0.02 – 0.1 in. w.c. (5 – 25 Pa)
Supply Temperature	40 – 140°F (4 – 60°C)
Max. Capacity	52 cfm @ 0.05 in. w.c. (88 m³/hr @ 12.5 Pa)
Min. Capacity (damper closed)	7 cfm @ 0.05 in. w.c. (12 m³/hr @ 12.5 Pa)
Noise Criterion	≤ NC-17 (all flow conditions)
Air Flow Pattern	360° Omni-Directional Displacement
Velocity Decay	< 40 fpm within 2' (0.6 m) radius