

# UNDERFLOOR AIR DISTRIBUTION — ROUND DIFFUSER 6" 180°

Personal Displacement Diffuser | Constant Volume | Uni-Directional

## PRODUCT DESCRIPTION

The 6-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 6" (152 mm) diameter cast aluminium grille is directionally adjustable and produces 180° uni-directional displacement air flow. A manually adjustable sliding damper allows occupants to limit maximum air flow. Ten (10) standard grille colours are available; custom colours and finishes can be provided (specify on order).



## KEY FEATURES

- Ships fully assembled; installation in seconds
- Substantially horizontal displacement air flow
- Manual air flow adjustment with sliding damper (optional)
- Redirect air flow by rotating grille
- Durability — rated as strong as the floor
- Non-binding flow adjustment
- No 'clear area' required
- Tight shut-off

## TECHNICAL SPECIFICATIONS

<b>Application</b>	Underfloor Cooling   Raised Access Floors 6" (152 mm) +
<b>Diffuser Opening</b>	6" Ø (152 mm)
<b>Full Face Diameter</b>	6.75" Ø (171 mm)
<b>Installation Cut-Out</b>	6" Ø [+ .125 / -.00] (152 mm [+3.175 / -.00])
<b>Grille Material</b>	Cast Aluminium   Conforms to NFPA 90a
<b>Load Strength</b>	1 250 lbs (567 kg)
<b>Supply Pressure</b>	0.02 – 0.1 in. w.c. (5 – 25 Pa)
<b>Supply Temperature</b>	40 – 140°F (4 – 60°C)
<b>Max. Capacity</b>	45 cfm @ 0.05 in. w.c. (77 m³/hr @ 12.5 Pa)
<b>Min. Capacity (damper closed)</b>	5 cfm @ 0.05 in. w.c. (8.5 m³/hr @ 12.5 Pa)
<b>Noise Criterion</b>	≤ NC-17 (all flow conditions)
<b>Air Flow Pattern</b>	180° Uni-Directional Displacement