



SFD *Swirl Flow Diffuser*





Introduction

Floor Diffuser is designed for usage in raised access floor air distribution systems, whereby the floor space beneath is used as a pressurized supply air plenum.

Diffuser's designs are optimized to provide the most comfortable and energy efficient air discharge possible into the space, by complimenting upward convection streams present in the occupied space. Therefore targeting the local heat loads directly.

CONSTRUCTIONS & MATERIALS

- 3 Model available:
 - i) Swirl floor diffuser (SFD)
 - ii) Swirl floor diffuser with plenum (SFD-P)
 - iii) Swirl floor diffuser with plenum & fan (SFD-F)
- Size available with 8" & 10"
- Basket are available for all the sizes and models to catches dust & dirt fall through diffuser face & is easy removable for cleaning.
- Diffuser cores are easy assembly and remove for maintenance and cleaning purpose.
- Optional remote control for fan powered model only.

Diffuser Core & Outer Ring



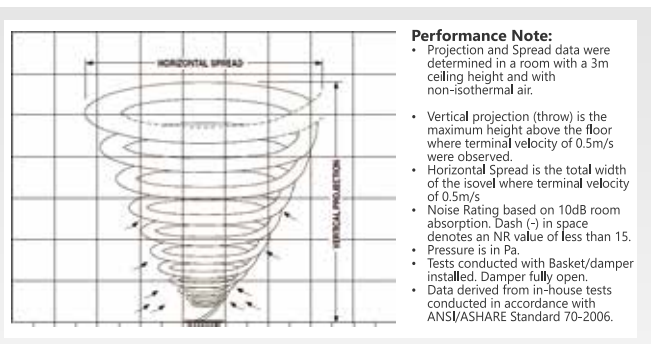
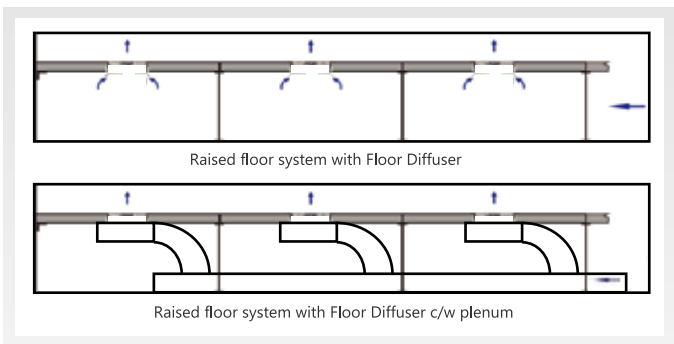
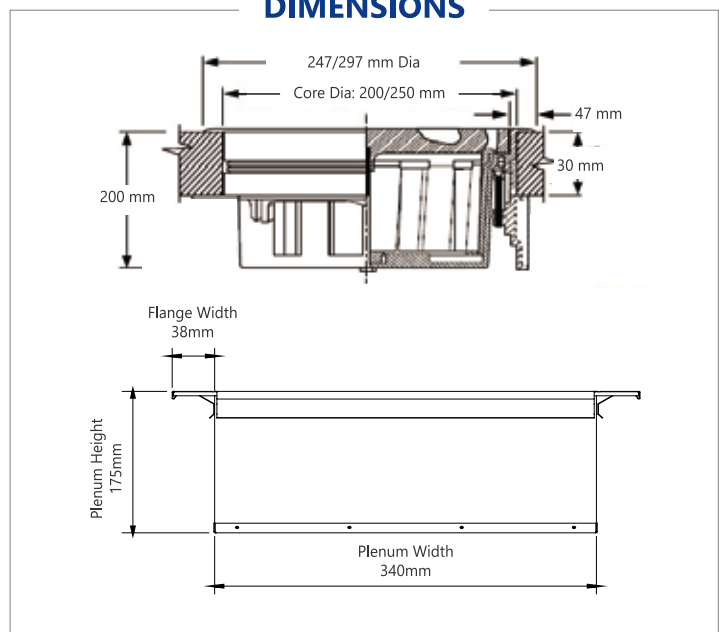
Aluminium
Die Casting

Plenum & Basket



Galvanized Steel
0.7mm

DIMENSIONS



Performance Note:

- Projection and Spread data were determined in a room with a 3m ceiling height and with non-isothermal air.
- Vertical projection (throw) is the maximum height above the floor where terminal velocity of 0.5m/s were observed.
- Horizontal Spread is the total width of the isovel where terminal velocity of 0.5m/s
- Noise Rating based on 10dB room absorption. Dash (-) in space denotes an NR value of less than 15.
- Pressure is in Pa.
- Tests conducted with Basket/damper installed. Damper fully open.
- Data derived from in-house tests conducted in accordance with ANSI/ASHARE Standard 70-2006.

TECHNICAL PERFORMANCE DATA

6" / 150mm	Air Flow (CFM)	50	70	90	100	120	170	190	200
	Pressure (Pa)	2.25	3.75	5.25	7.5	9.75	18	19.5	23.25
	Vertical Proj (m)	0.3	0.45	0.675	0.825	0.975	1.35	1.425	1.5
	Horizontal Proj (m)	0.375	0.45	0.6	0.975	1.275	1.275	1.275	1.275
	Noise Rating (NR)	-	-	-	-	-	-	14	17
8" / 200mm	Air Flow (CFM)	50	70	90	100	120	170	190	200
	Pressure (Pa)	3	5	7	10	13	24	26	31
	Vertical Proj (m)	0.4	0.6	0.9	1.1	1.3	1.8	1.9	2.0
	Horizontal Proj (m)	0.5	0.6	0.8	1.3	1.7	1.7	1.7	1.7
	Noise Rating (NR)	-	-	-	-	-	15	19	20








SPECIFICATION GUIDE

1. The diffuser core and outer ring shall be constructed of high strength cast aluminum.
2. The core design shall produce the required helical "swirl" discharge air pattern, maximizing induction and comfortable level in an occupied zone.
3. The diffusers shall incorporate a removable dust collection basket to capture any form of contaminants falling through the diffuser face.
4. A flow regulator, adjustable without the need of diffuser core removal.
5. Adjustable mounting clamps shall be provided to permit installation from above the floor without removal of the floor panel.



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Products Range

- Grilles 
- Diffusers  ◀
- Dampers 
- Fire & Smoke Protection 
- VAV 
- Others 
- Accessories 



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