















CONSTRUCTIONS & MATERIALS

- Standard sizes of:1) 2' x 2'2) 600mm x 600mm
- Square and Round swirl diffuser face configurations avaliable
- Highly customizable plenum & inlet spigot
- Avaliable in fixed and removable configurations





Galvanized Steel

Deflector Construction



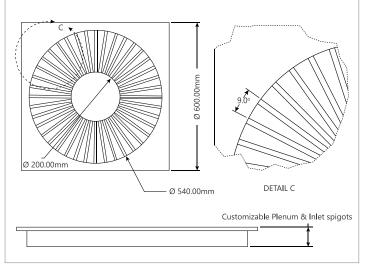
Galvanized Steel

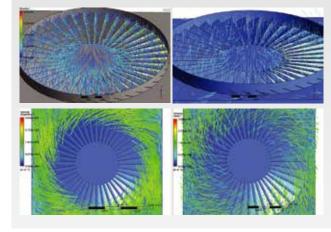
Surface Finishing

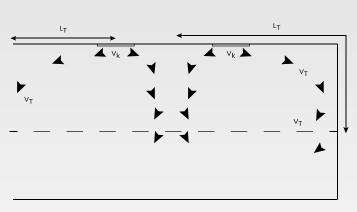


White (Matt)
Customizable Colors

DIMENSIONS







Supply				NR20						
Inlet Dia (mm)	Supply Neck Velocity, m/s	2.0	2.5	3.0	3.5	4.0	4.5	5.0	6.0	
200	Volume Flowrate, m³/hr	226	283	339	395	452	509	565	679	
	Flowrate, 1/s	63	79	94	110	126	141	157	188	
	Face Velocity, m/s	1.1	1.4	1.7	2.0	2.2	2.5	2.8	3.4	
	Throw Distance-1. (0.5 m/s), m	0.53	0.70	0.87	1.0	1.2	1.4	1.5	1.9	
	Throw Distance-2. (0.5 m/s), m	0.42	0.56	0.69	0.8	0.96	1.1	1.2	1.5	
	Total Pressure Loss, Pa	<10	<10	<10	<10	11	15.1	19.1	26.0	
	Noise Rating (NR)	<20	<20	<20	<20	20	21	23	26	
250	Volume Flowrate, m³/hr	353	442	530	619	707	795	884	1060	
	Flowrate, 1/s	98	123	147	172	196	221	245	295	
	Face Velocity, m/s	1.8	2.2	2.6	3.1	3.5	3.9	4.4	5.3	
	Throw Distance-1. (0.5 m/s), m	0.63	1.2	1.44	1.71	1.94	2.18	2.45	2.93	
	Throw Distance-2. (0.5 m/s), m	0.51	0.96	1.15	1.37	1.55	1.74	1.96	2.34	
	Total Pressure Loss, Pa	<10	11	16.6	22.8	26.9	31.5	40.4	55.87	
	Noise Rating (NR)	<20	20	22	24	27	31	34	40	
300	Volume Flowrate, m³/hr	509	636	763	891	1018	1145	1272	1527	
	Flowrate, 1/s	141	177	212	247	283	318	353	424	
	Face Velocity, m/s	2.5	3.2	3.8	4.4	5.0	5.7	6.3	7.6	
	Throw Distance-1. (0.5 m/s), m	1.38	1.76	2.1	2.5	2.81	2.90	3.5	4.2	
	Throw Distance-2. (0.5 m/s), m	1.10	1.41	1.68	2.0	2.25	2.32	2.8	3.3	
	Total Pressure Loss, Pa	15.1	24.0	29.0	42.0	52.2	55	74.2	96.3	
	Noise Rating (NR)	21	25	30	35	39	40	47	>50	

xxx (1) Throw Distance With Ceiling Effect

SWIRL DIFFUSER TECHNICAL SPECIFICATION

Frame Construction

- 1. Frame to be in galvanizes steel. Frame thickness should be in minimum 0.7mm thick, unless otherwise stated.
- 2. The margin to be in 12mm from the neck height to the edge.
- 3. Standard size of the diffuser to be with 2' x 2' or 600mm x 600mm only. The size larger than 600mm to be supplied in modular.

Swirl Construction

- 1. Diffusers core to be radially fixed a stamped galvanizes steel sheet face plated.
- 2. The blade arrangement should be in 540mm diameter and supported by 200mm diameter plate.
- 3. Blade should be arranged in 9° to generate a swirl vortex motion.

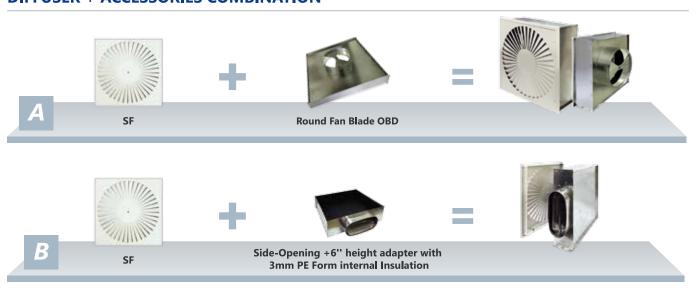
Finishing

1. Finishing should be in powder coated RAL 9010 SG white matt, unless otherwise stated.

Performance

- 1. Air change rated of up to 30 air changes per hours with temperature differentials of 10°C.
- 2. Swirl Diffusers are designed to be ceiling mounted, round duct connection with damper should to be installed at the neck of the diffuser for volume control purpose, unless otherwise stated.

DIFFUSER + ACCESSORIES COMBINATION



xxx (2) Throw Distance Without Ceiling Effect



Products Range

Grilles



Diffusers



Dampers



Fire & Smoke Protection



VAV



Others



Accessories





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