



DIFFUSERS

# SWIRL DIFFUSER

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## SWD

### DESIGN & CONSTRUCTION

ADF Swirl Diffuser consist of a one-piece square diffuser with fixed radial-twisted vanes and an air plenum box. With such distinctive design, these diffusers blend well with any modern or conservative ceiling systems besides their special high induction swirling motion in air discharge providing rapid temperature equalisation in stable room conditions.

Swirl Diffuser completed with plenum box, comes in Galvanised Steel construction with enamel baked finished, available in one standard size at 600 mm x 600 mm. The plenum box is directly screwed to the facial diffuser and available in top and side air inlet connection.

### FEATURES

- High induction swirling air discharge offers higher air change rates.
- Supply air temperature differential up to +/-10 K.
- Suitable for space ceiling height from 2.7 m to 4.0 m.
- Aesthetic facial design for office ceiling installation.
- Detachable face diffuser with a centre fixed screw.
- Available in one air outlet sizes : 535 mm Ø (21" Ø).

### APPLICATIONS AND INSTALLATION

This range of diffusers can be flushed ceiling mounted or free-hung mounting using the pre-fabricated suspension brackets and are commonly used in:

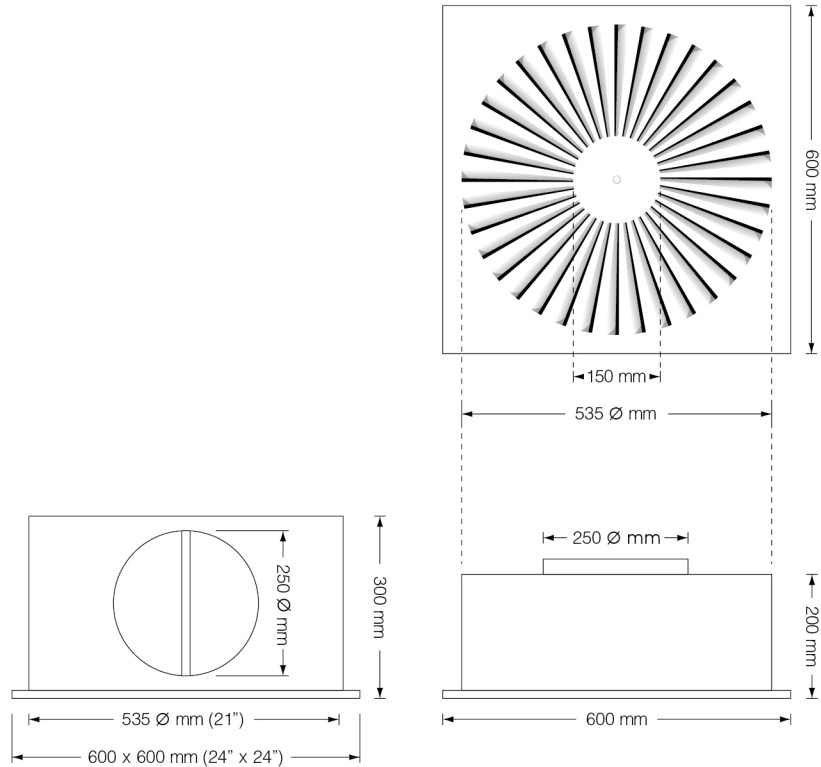
- Office buildings
- Hotels and motels
- Shopping malls
- Restaurants and cafeterias
- Hospitals and medical centres
- University and schools
- Other public areas



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## PHYSICAL DIMENSION



## PERFORMANCE DATA

Inlet Velocity m/s	Air Volume l/s      cmh		Throw, m @Terminal Velocity		Inlet Damper Opening			
					45°		Fully	
			0.25 m/s	0.5 m/s	ΔP, Pa	NR	ΔP, Pa	NR
1.05	55	198	0.7	<0.5	22	28	10	20
1.35	70	252	1.0	<0.5	24	32	17	24
1.64	85	306	1.6	0.7	25	25	22	27
1.83	95	342	1.8	1.0	32	38	24	30
2.12	110	396	2.3	1.2	44	43	25	34
2.41	125	450	2.8	1.5	50	45	32	38
2.70	140	504	3.2	1.8	65	50	43	42
3.18	165	594	4.0	1.9	80	55	55	47
3.75	195	702	4.8	2.0	100	60	82	52
4.24	220	792	5.5	2.3	120	65	85	56
4.82	250	900	6.5	2.6	160	70	100	60

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