

SWR-ST Sun Type Swirl Ceiling Diffuser



ASLI SWR-ST is a type of diffuser with adjustable air control blades. The unique configuration enables to perform “vortex” air flow projecting horizontally from the face of diffuser. Its high air induction power enhances air mixing effect and suitable for large air conditioned space where high heat load is produced. It is also suitable for rapid cooling usage.

Materials

Diffuser Face : 0.7mm galvanized steel.
Guide Vane holder : ABS plastic
Guide Vane : Aluminium extrusion

Surface Finish

Diffuser Face : Baked white powder coated as standard.
Guide Vane : Matt black.

Standard size *Unit : mm*

ø 450

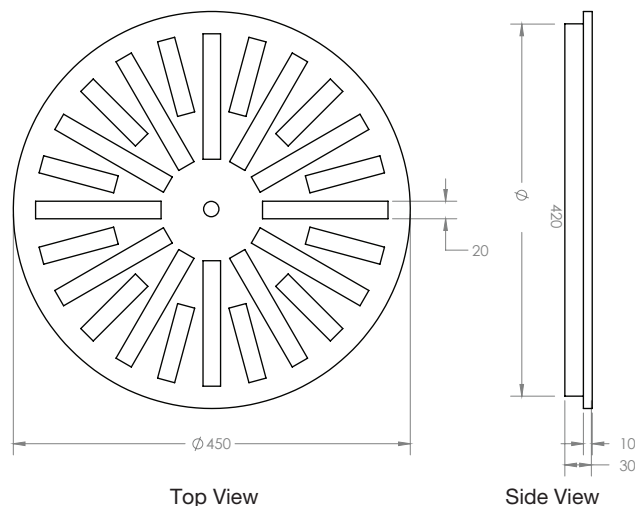
Features

- Swirl air flow pattern
- High induction power improve air mixing and rapid cooling effect.
- High coanda effect reduces direct-throw of air on occupants.

Accessories

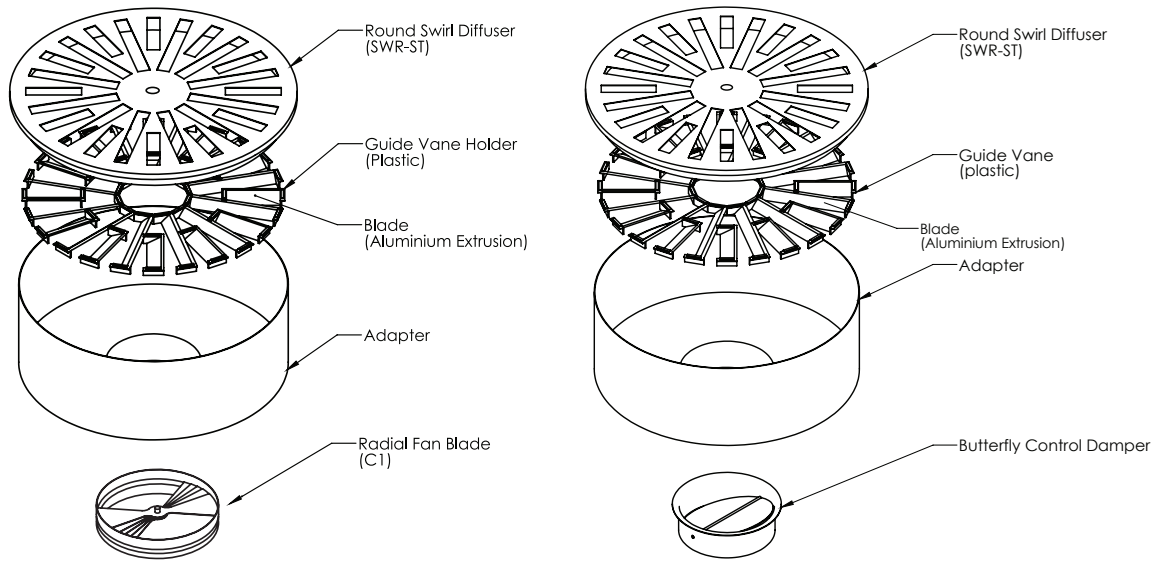
- C1 Radial fan blade damper
- C2 Crown damper
- D2 Adapter
- PB-T Plenum box top entry

SWR-ST Physical Dimension *Unit : mm*



SWR-ST Sun Type Swirl Ceiling Diffuser

SWR-ST Construction Illustration



Round Swirl Diffuser + Adapter + Radial Fan Blade Damper

Round Swirl Diffuser + Adapter + Butterfly Control Damper

SWR-ST Performance Data

Inlet Diameter (mm)	Collar Neck Vel. (m/s)	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5
	Vel. Press (mmAq)	1.0	2.2	4.0	5.3	7.0	10.0	12.7	15.4
ø 150	CMH	97	129	161	194	223	254	286	318
	Tot. Press (mmAq)	0.3	0.5	0.8	1.0	1.3	1.6	1.8	2.1
	NC	-	-	-	-	-	23	25	27
	Throw (m)	0.2-0.5	0.4-0.7	0.5-0.8	0.6-0.9	0.7-1.1	0.9-1.3	1.1-1.5	1.3-1.7
ø 200	CMH	172	230	287	344	396	452	509	565
	Tot. Press (mmAq)	0.6	0.7	0.9	1.3	1.6	1.8	2.1	2.4
	NC	-	-	23	26	30	32	34	36
	Throw (m)	0.3-0.6	0.5-0.8	0.7-1.1	0.9-1.3	1.1-1.6	1.3-1.8	1.5-2.0	1.7-2.3
ø 250	CMH	269	359	449	538	619	707	795	884
	Tot. Press (mmAq)	0.9	1.5	1.9	2.5	3.8	5.1	6.2	8.3
	NC	-	23	26	30	34	41	44	47
	Throw (m)	0.4-0.9	0.5-1.1	0.8-1.3	1.1-1.9	1.35-2.5	2.5-3.3	2.9-3.9	3.2-4.3
ø 300	CMH	388	517	646	775	891	1018	1145	1272
	Tot. Press (mmAq)	1.8	2.4	3.63	5.2	7.1	9.6	11.28	13.8
	NC	-	-	25	32	37	43	47	50
	Throw (m)	0.6-1.4	0.9-1.9	1.3-2.75	1.7-2.3	2.25-3.9	2.8-4.2	3.75-4.7	4.1-5.1
ø 350	CMH	518	705	881	1057	1234	1410		
	Tot. Press (mmAq)	2.6	4.1	6.26	8.3	12.2	15		
	NC	-	30	39	44	48	53		
	Throw (m)	1.2-2.8	1.6-3.7	2.25-4.6	2.9-5.3	3.75-6.25	4.1-7.2		

- Throw is based on terminal velocities of 0.5m/s and 0.25m/s respectively.
- Throw is based on isothermal condition.
- NC value is based on a room absorption of 10 dB, re 10⁻¹² watts.
- Dash (-) in space indicates NC value less than 20.

SWR-ST Order Code

Model	Accessories	Face Size	Neck Size
SWR-ST	C1	B 450	N 450

Example : SWR-ST + C1 - B 450, N 200