SW-2T Fan Type Swirl Ceiling Diffuser

ASLI SW-2T is a type of diffuser with fixed radially arranged air control blades. This unique type of slots provide high induction "vortex" air flow projecting horizontally from the face of diffuser. This swirling air flow produce a diffuse air distribution, with no stationary air jet resulting excellent uniformity of temperature in air conditioned space. SW-2T is suitable in area of high heat load where large quantities of cool air must be rapidly mixed with room air in a short time. The SW-2T series can also be use as a return and exhaust type device.

Materials

Diffuser Face : 0.7mm galvanized steel.
Outer Frame : 0.7mm galvanized steel.

Surface Finish

Baked white powder coated as standard.
Others available upon request.

Standard size *Unit : mm*

595 x 595 / 603 x 603

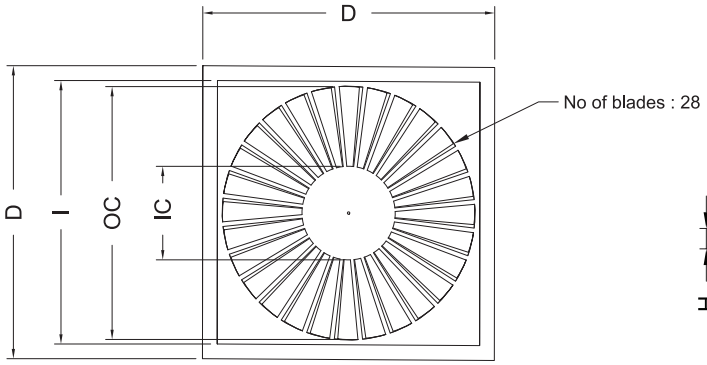
Features

- Diffuser face can be open without using any tools (optional).
- Volume control damper is adjustable without removing ceiling panel.
- Swirl air pattern provides high induction ratio.
- High coanda effect reduces direct-throw of air on occupants.
- Standard sizes available for T-bar ceiling on metric or imperial size.

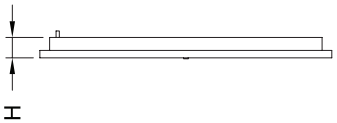
Accessories

C1	Radial fan blade damper
C2	Crown damper
D2	Adapter
G1	Opposed blade damper
PB-S	Plenum box side entry
PB-T	Plenum box top entry

SW-2T Physical Dimension *Unit : mm*



Top View

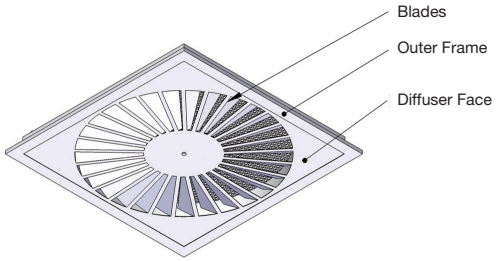


Side View

D	I	OC	IC	H
603 595	535	515	190	50

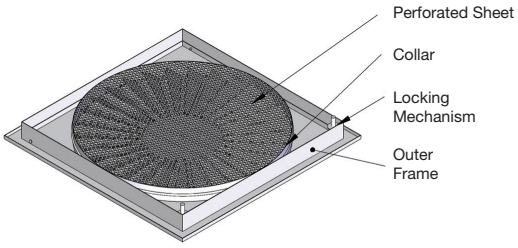
SW-2T Fan Type Swirl Ceiling Diffuser

SW-2T Construction Illustrations

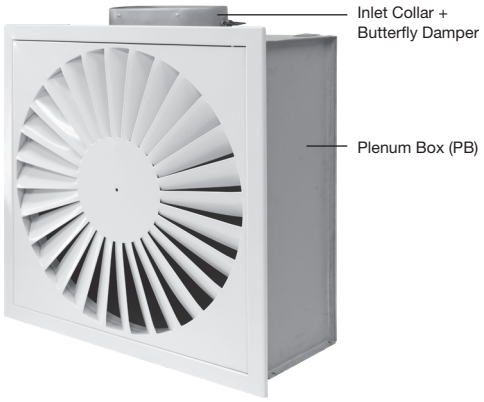


Isometric Top View

SW-2T

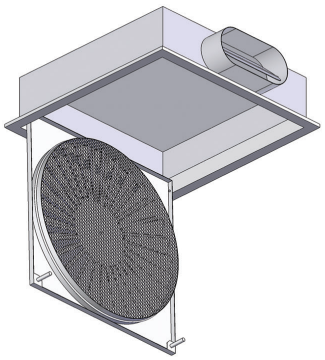


Isometric Back View

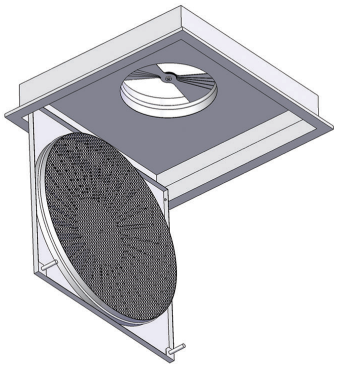


SW-2T + PB-S (Isometric Front View)

SW-2T + C2 (Isometric Back View)



SW-2T + PB-S in open position



SW-2T + C1 in open position

SW-2T Fan Type Swirl Ceiling Diffuser

SW-2T Air Flow Perfomance Data

Inlet Diameter (mm)	Collar Neck Vel. (m/s)	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
	Vel. Press (mmAq)	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.6	1.9	2.3
ø 150	CMH	97	129	161	194	223	254	286	318	350	382
	Tot. Press (mmAq)	0.3	0.6	0.9	1.2	1.7	2.2	2.7	3.2	3.9	4.8
	NC	-	-	-	-	-	-	23	26	30	33
	Throw (m)	0.6 ~ 1.2	0.9~1.5	0.9 ~ 1.8	1.2 ~ 1.8	1.5 ~ 2.1	1.5 ~ 2.1	1.5 ~ 2.4	1.8 ~ 2.4	1.8 ~ 2.7	1.8 ~ 2.7
ø 200	CMH	172	230	287	344	396	452	509	565	622	679
	Tot. Press (mmAq)	0.4	0.7	1.2	1.7	2.3	3.0	3.7	4.8	5.5	6.5
	NC	-	-	-	21	27	31	35	38	40	41
	Throw (m)	0.6 ~ 1.2	0.9 ~ 1.5	0.9 ~ 2.1	1.2 ~ 2.1	1.5 ~ 2.4	1.5 ~ 2.7	1.8 ~ 2.7	2.1 ~ 3.0	2.1 ~ 3.0	2.1 ~ 3.4
ø 250	CMH	269	359	449	538	619	707	795	884	972	1060
	Tot. Press (mmAq)	0.6	1.1	1.7	2.9	3.9	4.9	6.1	7.6	9.1	10.8
	NC	-	-	21	28	34	36	40	42	44	46
	Throw (m)	0.9 ~ 1.8	1.2 ~ 2.4	1.5 ~ 2.7	1.8 ~ 3.0	2.1 ~ 3.4	2.4 ~ 3.7	2.7 ~ 4.0	2.7 ~ 4.0	3.0 ~ 4.3	3.0 ~ 4.3
ø 300	CMH	388	517	646	775	891	1018	1145	1272	1400	1527
	Tot. Press (mmAq)	1.3	2.3	3.5	5.1	6.8	9.0	11.3	14.1	17.0	21.4
	NC	-	24	30	38	41	44	47	49	51	54
	Throw (m)	1.2 ~ 2.4	1.5 ~ 3.0	1.8 ~ 3.4	2.4 ~ 4.0	2.7 ~ 4.3	3.0 ~ 4.6	3.4 ~ 4.6	3.7 ~ 4.9	3.7 ~ 5.2	3.9 ~ 5.5

- 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.

SW-2T Order Code

Model	Accessories	Face Size	Neck Size
SW-2T	C1	B 603 x 603	N 200

Example : SW-2T + C1 - B 603 x 603, N 200