

SQUARE SWIRL DIFFUSER (SSD)



PRODUCTS FFATURES

To supply helical air with high inductivity rate.

Rapid reduction in temperature.

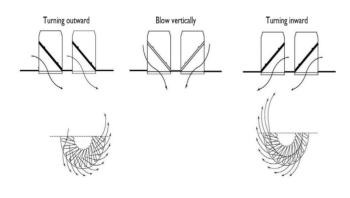
Round and square diffuser panel as option.

Manually adjustable.

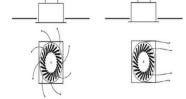
ACCESSORIES

For specification 300×8 , 400×16 , 500×54 , 600×24 , 625×24 , the diversion blades are set to operate by turning outward.

For specification 600 x 48 and 825 x 72, the external diversion blades are set to operate by turning outward and the internal ones are set to operate by turning inward.



The direction of current (specifications 300×8 , 400×16 , 500×54 , 600×24 , 625×24)



All of the diversion blades are set at turning outward.

Diversion blades are set at turning half outward and half inward.



Within the scope of every 90° on the diffuser panel diversion blades are set in agreement, whereas diversion blades between neighboring scope of 90° are set reversely, i.e., half inward and half outward. SSD (Square Swirl Diffuser) are manually adjustable. It adjusts the direction of the air current to adapt to any change in the pattern of the building.

Air is blown by means of swirl, which guarantees high inductivity as well as the rapid reduction in wind speed and temperature. The air supply temperature difference can reach $\pm 20^{\circ}$ C.

SSD type diffuser could be used for air blow and draught. The specified diversion blades are to be used when the diffuser is used for air blow. Change of air blow direction could be achieved by means of altering the blade settings.

MATERIALS

With Aluminium - Powder coated. The diversion blades are made of polystyrene and painted in white or black

INSTALLATION

Installation flat to the ceiling is applicable to all types. If the density of diversion ring is less than 50mm, and even if the diffuser is installed and sealed beneath the suspended ceiling, a stable blowing current can be guaranteed.

Install flat to the ceiling Install through tapping on the hover

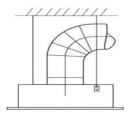




Installation on suspended ceiling



Hang freely



Install through hooks

TYPES

SIZE 300X8

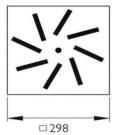
SIZE 400X16

SIZE 500X24

SIZE 600X24 SIZE 625X24

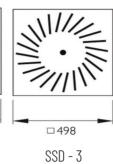
SIZE 600X48

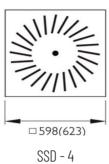
SIZE 825X72





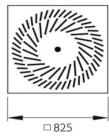
SSD - 2







SSD - 5



SSD - 6

PARAMETERS

SSD - 1

AIR BLOW VERTICAL					
Specs	Breastplate Angle	00	45°	90°	
300 X 8	ΔPt	X 1.0	X 1.2	X 1.8	
	L _{WA}	-	-	-	
400 X 16	∆ Pt	X 1.0	X 1.1	X 2.0	
	L _{WA}	-	-	+1	
500 X 24	ΔPt	X 1.0	X 1.4	X 2.8	
	L _{WA}	-	+3	+6	
600 X 24 625 X 24	∆ Pt	X 1.0	X 1.3	X 2.8	
	L _{WA}	-	+ 3	+ 5	
600 X 48	ΔPt	X 1.0	X 1.6	X 3.4	
	L _{WA}	-	+ 4	+ 9	
825 X 72	∆ Pt	X 1.0	X 1.3	X 3.3	
	L _{WA}	-	+ 2	+ 4	

AIR BLOW HORIZONTAL					
Specs	Breastplate Angle	00	45°	90°	
300 X 8	ΔPt	X 1.0	X 1.3	X 2.2	
	L _{WA}	=	+ 3	+ 5	
400 X 16	∆ Pt	X 1.0	X 1.2	X 2.3	
400 X 10	L _{WA}	-	+1	+ 3	
500 X 24	ΔPt	X 1.0	X 1.5	X 3.4	
300 X 24	L _{WA}	-	+ 2	+ 3	
600 X 24 625 X 24	∆ Pt	X 1.0	X 1.5	X 4.0	
	L _{WA}	-	+ 2	+ 5	
600 X 48	∆ Pt	X 1.0	X 1.7	X 4.5	
	L _{WA}	-	+ 5	+ 10	
825 X 72	∆ Pt	X 1.0	X 1.5	X 4.7	
	L _{WA}	-	+ 5	+ 11	

Size	Max Air Volume (m³/h)	Min. Air Volume (m³/h)	Max Noise dB (A)	Min. Noise dB (A)	Effective Air Blowing Area (m²)
300 x 8	252	54	40	<20	0.0070
400 x 16	396	108	40	<20	0.0140
500 x 24	468	144	40	<20	0.0210
600 x 24	684	216	40	<20	0.0295
600 x 48	828	360	40	<20	0.0390
625 x 24	684	216	40	<20	0.0295
825 x 72	1260	558	40	<20	0.0730



CHART

AIR BLOW VERTICAL					
Specs	Air Volume (m³/h)	Pressure Loss (Pa)	Noise (dB)		
	72	5.5	<20		
	90	9	<20		
	108	15	20		
300 X 8	144	25	27.5		
	180	35	38		
	252	70	47.5		
	288	100	50		
	162	4	<20		
	180	8	<20		
400 X 16	216	13	23		
400 X 10	288	25	25		
	360	36	37		
	540	80	55		
	252	10	22		
	360	20	33		
500 X 24	576	45	45		
	720	70	50		
	1080	170	70		
	360	9.5	21		
	450	14	26		
600 X 24	540	20	33		
625 X 24	720	33	42		
	900	55	47.5		
	1080	80	55		
	360	6.5	<20		
	450	9	20		
600 X 48	540	13	25		
000 / 40	720	25	35		
	900	50	46		
	1080	90	50		
	630	7.5	20		
	720	10	28		
	900	15	31		
825 X 72	1080	20	36		
	1440	40	45		
	1800	60	53		
	-	-	-		

AIR BLOW HORIZONTAL					
Specs	Air Volume (m³/h)	Pressure Loss (Pa)	Noise (dB)		
	108	10	<20		
	144	18	22.5		
300 X 8	180	28	28		
300 X 0	252	55	38		
	288	65	42.5		
	360	120	50		
	180	9	<20		
	252	18	26		
400 X 16	288	23	30		
400 X 10	360	35	37.5		
	450	50	42		
	540	70	50		
	252	10	15		
	360	20	33		
500 X 24	450	28	37		
JUU A 24	540	45	43		
	630	60	47		
	720	70	70		
	288	6	<20		
	360	8	22		
600 X 24	450	13	27		
625 X 24	540	19	34		
023 X 24	720	30	41		
	900	40	45		
	1080	65	53		
	360	6	13		
	450	10	22.5		
600 X 48	540	15	27		
000 / 40	720	26	36		
	900	33	40		
	1080	60	46		
	540	7	<20		
	720	10	23		
825 X 72	900	13	26		
023 X 72	1080	20	34		
	1440	32	43		
	1800	60	47		