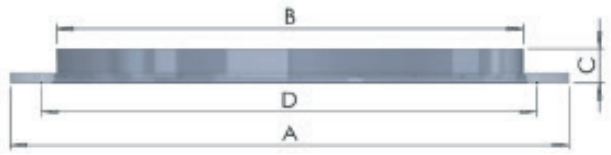
Fixed Blade Swirl Diffusers - SSW

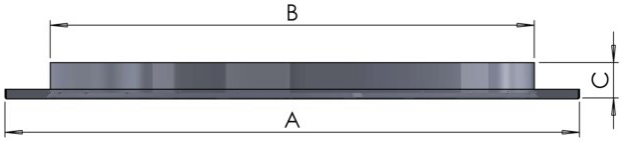
Suitable for ceiling mounting and can be manufacturerd to suit most ceiling tile arrangements.
The Straight Vane Swirl Diffuser offers excellent induction of room air and the rapid decay of supply air velocities and air temperature differentials.





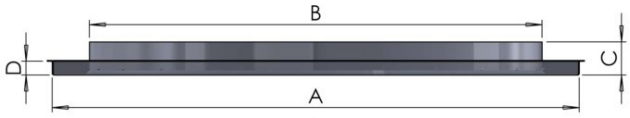
Multiple Variations

SSW-24-L Lay-in Ceiling Type



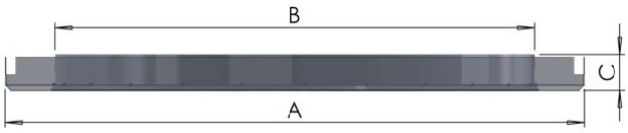
Nom Size	A	B	C
200	595 x 595	197	37mm
300	595 x 595	297	37mm
350	595 x 595	347	37mm
450	595 x 595	447	37mm
500	595 x 595	500	37mm
535	595 x 595	535	37mm

SSW-24-T Tegular Ceiling Type



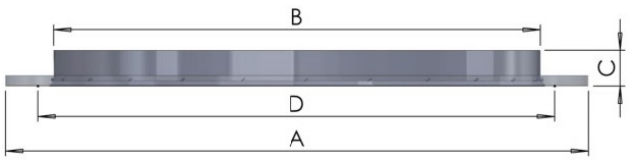
Nom Size	A	B	C	D
200	574 / 584	197	37mm	Drop Size
300	574 / 584	297	37mm	Drop Size
350	574 / 584	347	37mm	Drop Size
450	574 / 584	447	37mm	Drop Size
500	574 / 584	500	37mm	Drop Size
535	574 / 584	535	37mm	Drop Size

SSW-24-M Clip-in Metal Ceiling Type



Nom Size	A	B	C
200	599 x 599	197	37mm
300	599 x 599	297	37mm
350	599 x 599	347	37mm
450	599 x 599	447	37mm
500	599 x 599	500	37mm
535	599 x 599	535	37mm

SSW-24-C Circular Swirl Diffuser



Nom Size	A	B	C	D
200	300 Dia	197	37mm	225
300	400 Dia	297	37mm	325
350	500 Dia	347	37mm	375
450	600 Dia	447	37mm	475
500	600 Dia	500	37mm	525
535	600 Dia	535	37mm	560

How to Order

Type	No of Blades	Edge Detail	Tegular Depth	Size	Overall Size	Finish
		L - Lay In Grid		200		
		C- Circular		300		RAL Colour
SSW	24	T15 - Tegular 584 x 584	e.g. 8mm	350	e.g. 595 x 595	Galvanised
		T24 - Tegular 574 x 574		450		Stainless Steel
		M - Clip In Metal Tile		500		
				535		

e.g. 10 No SSW - 24 - L - 450 - 595 x 595 - RAL 9010

Performance Data

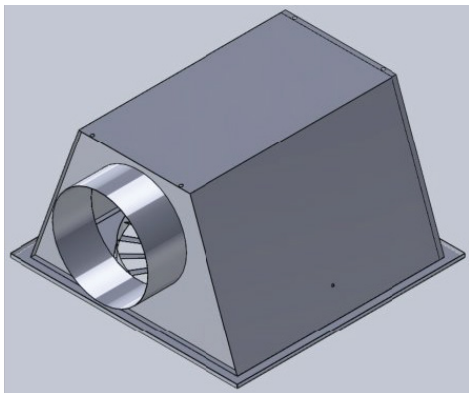
Size																			
200 DIA	L/s	10	15	20	25	30	35	40	45	50	55	60	65	70					
	Throw m 0.5 - 0.25 m/s	0.3 - 0.5	0.4 - 0.8	0.5 - 1.0	0.6 - 1.3	0.8 - 1.5	0.9 - 1.8	1.0 - 2.2	1.2 - 2.3	1.3 - 2.7	1.4 - 2.8	1.5 - 3.1	1.7 - 2.3	1.8 - 3.6					
	Pa	1	3	5	9	12	17	22	28	41	41	49	57	67					
	NR	2	3	6	12	17	22	25	29	32	34	37	39	41					
300 DIA	L/s	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115
	Throw m 0.5 - 0.25 m/s	0.5 - 1.0	0.6 - 1.2	0.7 - 1.4	0.7 - 1.5	0.8 - 1.7	0.9 - 1.9	1.2 - 2.2	1.2 - 2.3	1.2 - 2.4	1.3 - 2.5	1.4 - 2.7	1.5 - 2.9	1.8 - 3.1	2.1 - 3.2	2.2 - 3.4	2.6 - 3.6	2.6 - 3.7	2.6 - 3.9
	Pa	3	4	5	6	8	9	11	13	15	17	20	22	25	28	29	31	32	33
	NR	2	4	7	11	14	16	19	21	22	25	27	29	30	32	33	35	36	37
350 DIA	L/s	50	55	60	65	70	80	90	100	110	120	130	140	150	160	170	180	190	200
	Throw m 0.5 - 0.25 m/s	0.8 - 1.6	0.8 - 1.7	1.0 - 1.9	1.1 - 2.0	1.1 - 2.2	1.2 - 2.5	1.5 - 2.8	1.5 - 3.1	1.5 - 3.4	1.8 - 3.8	2.0 - 4.1	2.1 - 4.4	2.2 - 4.7	2.4 - 5.0	2.4 - 5.3	2.5 - 5.6	2.5 - 5.9	3.0 - 6.3
	Pa	4	4	5	6	7	9	12	14	17	21	24	28	32	36	41	46	51	57
	NR	4	6	9	11	13	17	20	23	26	28	31	33	35	36	38	40	41	43
450 DIA	L/s	75	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240
	Throw m 0.5 - 0.25 m/s	0.8 - 1.8	0.9 - 1.9	1.0 - 2.2	1.1 - 2.4	1.2 - 2.6	1.4 - 2.9	1.5 - 3.1	1.6 - 3.4	1.8 - 3.6	1.8 - 3.8	2.0 - 4.1	2.1 - 4.3	2.3 - 4.6	2.4 - 4.8	2.4 - 5.0	2.5 - 5.3	2.7 - 5.5	2.8 - 5.8
	Pa	23	26	29	33	36	40	44	48	52	23	26	29	33	36	40	44	48	52
	NR	5	7	10	13	16	18	21	23	25	26	28	30	31	33	34	35	37	38

500 DIA	L/s	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	260	280	300
	Throw m 0.5 - 0.25 m/s	0.8 - 2.0	1.0 - 2.2	1.1 - 2.4	1.2 - 2.6	1.3 - 2.8	1.4 - 3.0	1.5 - 3.2	1.6 - 3.4	1.8 - 3.6	1.8 - 3.8	2.0 - 4.0	2.1 - 4.2	2.2 - 4.4	2.2 - 4.6	2.3 - 4.8	2.5 - 5.2	2.6 - 5.6	2.9 - 6.0
	Pa	6	7	8	9	11	13	14	16	18	20	22	25	27	29	30	32	34	36
	NR	2	3	5	8	11	13	15	17	18	20	22	25	26	27	29	30	32	34

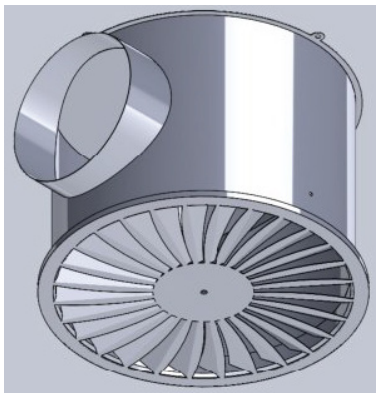
535 DIA	L/s	150	170	190	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350
	Throw m 0.25 - 0.5 m/s	2.5 - 1.3	2.9 - 1.4	3.2 - 1.6	3.5 - 1.8	3.7 - 1.8	3.9 - 1.9	4 - 2	4.2 - 2.1	4.4 - 2.2	4.5 - 2.3	4.7 - 2.4	4.9 - 2.4	5 - 2.5	5.2 - 2.6	5.4 - 2.7	5.5 - 2.8	5.7 - 2.9	5.9 - 2.9
	Pa	8	10	13	16	18	19	21	23	25	26	28	31	33	35	37	40	42	44
	NR	12	15	18	21	22	24	25	26	27	28	29	30	31	32	33	34	35	36

NOTE:
All throws based on terminal velocities of 0.5 - 0.25 m/s
For Return Air Applications Multiply Pa x 0.75, NC Levels remain the same

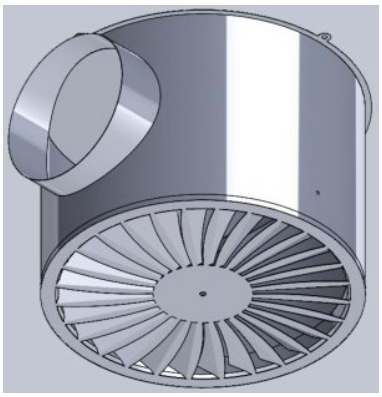
Plenum Box Variations



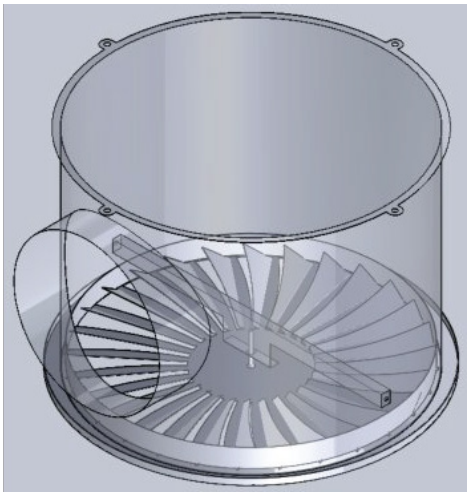
Fixing Detail

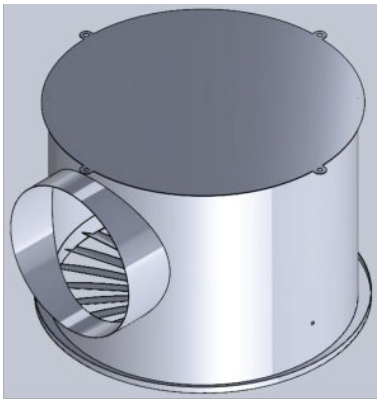


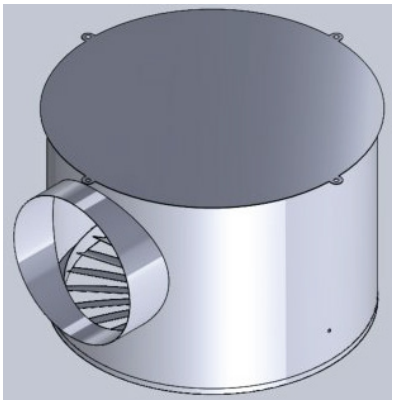
To Suit Neck



To Suit Overall







How to Order

Type	Spigot Orientation	Insulation	Fit - Circular Boxes	Equalizing Grid	Damper	Finish
PB - Square Box	SE - Side Entry	0 - Unlined	N - Neck		FD - Spigot Damper	RAL Colour
PBC - Circular Box	TE - Top Entry	INS - Insulated	O/a - Overall	EQ	CD - Cord Damp-er	Galvanised
						Stainless Steel

e.g. 10 No PB-SE-INS-EQ-FD-Galvanised (Plenum Box, Side Entry, Insulated, Equalizing Grid, Spigot Damper, Galvanised Finish)

e.g. 25 No PBC-SE-INS-N-FD-Galvanised (Circular Plenum Box, Side Entry, Insulated, To Suit Neck, Spigot Damper, Galvanised Finish)

Please contact our Sales Office on for selection guidance on the above:

3-4 Torridge Close,
Telford Way Industrial Estate,
Kettering, Northants, NN16 8PY

P 01536 519 922

E sales@polyaire.co.uk