Fixed Blade Swirl Diffusers - ODS

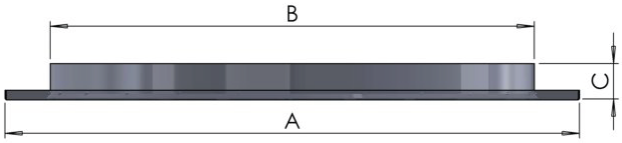
Suitable for ceiling mounting and can be manufacturerd to suit most ceiling tile arrangements.
The blade pattern is designed to offer high induction of room air and the rapid decay of supply air velocities and temperature differentials.





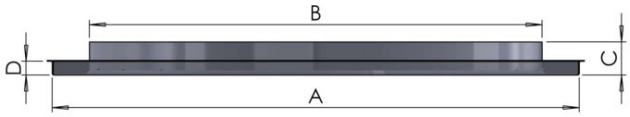
Multiple Variations

ODS-28-L Lay-in Ceiling Type



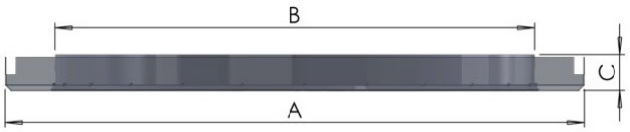
Nom Size	A	B	C
254	595 x 595	254	37mm
350	595 x 595	347	37mm
450	595 x 595	447	37mm
540	595 x 595	540	37mm

ODS-28-T Tegular Ceiling Type



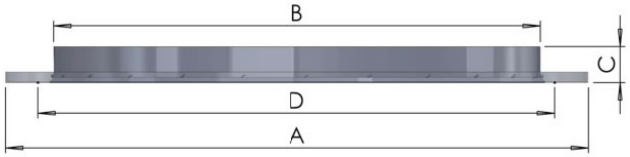
Nom Size	A	B	C	D
254	574 / 584	254	37mm	Drop Size
350	574 / 584	347	37mm	Drop Size
450	574 / 584	447	37mm	Drop Size
540	574 / 584	540	37mm	Drop Size

ODS-28-M Clip-in Metal Ceiling Type



Nom Size	A	B	C
254	599 x 599	254	37mm
350	599 x 599	347	37mm
450	599 x 599	447	37mm
540	599 x 599	540	37mm

ODS-28-C Circular Swirl Diffuser



Nom Size	A	B	C	D
254	300 Dia	254	37mm	279
350	400 Dia	347	37mm	375
450	500 Dia	447	37mm	475
540	600 Dia	540	37mm	565

How to Order

Type	No of Blades	Edge Detail	Tegular Depth	Size	Overall Size	Finish
		L - Lay In Grid				
		C - Circular		254		RAL Colour
ODS	28	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		540		

e.g. 10 No ODS - 28 - L - 450 - 595 x 595 - RAL 9010

Performance Data

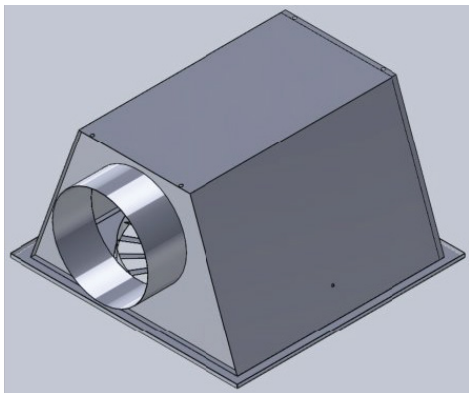
Size														
254 DIA	L/s	20	25	30	35	40	45	50	55	60	65	70	75	80
	Throw m 0.25 - 0.5 m/s	0.6 to 1.1	0.7 to 1.4	0.8 to 1.7	1.0 to 1.9	1.1 to 2.2	0.2 to2.5	1.4 to 2.8	1.5 to 3	1.6 to 3.3	1.8 to 3.6	1.9 to 3.9	2.0 to 4.1	2.2 to 4.4
	Pa	3	5	8	11	14	18	22	26	31	37	43	49	56
	NR					16	20	23	25	28	30	32	34	36

Size														
350 DIA	L/s	50	55	60	65	70	80	90	100	110	120	130	140	150	160
	Throw m 0.25 - 0.5 m/s	1.0 to 2.1	1.2 to 2.3	1.2 to 2.5	1.3 to 2.7	1.4 to 2.9	1.6 to 3.3	1.9 to 3.8	2.0 to 4.2	2.3 to 4.6	2.6 to 5.0	2.7 to 5.4	2.8 to 5.8	3.2 to 6.3	3.5 to 6.7
	Pa	6	7	9	10	12	16	20	25	30	35	41	48	55	63
	NR			15	17	21	24	27	30		32	35	37	39	40

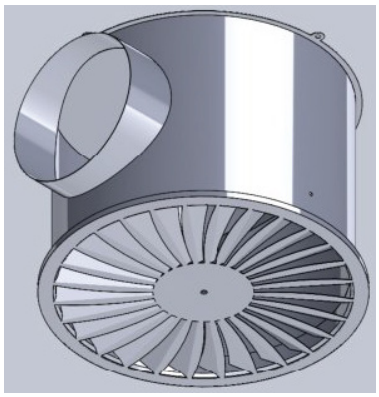
Size														
450 DIA	L/s	75	80	90	100	110	120	130	140	150	160	170	180	190	200
	Throw m 0.25 - 0.5 m/s	1.2 to 2.5	1.3 to 2.7	1.6 to 3.1	1.7 to 3.4	1.8 to 3.7	2.0 to 4.0	2.1 to 4..4	2.4 to 4.7	2.5 to 5	2.7 to 5.4	2.9 to 5.7	3.0 to 6.1	3.2 to 6.4	3.3 to 6.7
	Pa	9	11	14	17	20	24	28	33	38	43	49	51	61	67
	NR	16	18	21	24	27	29	32	34	36	37	39	41	42	44

Size																	
540 DIA	L/s	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	260
	Throw m 0.25 - 0.5 m/s	1.7 to 3.4	1.8 to 3.7	2.0 to 4.1	2.2 to 4.4	2.4 to 4.7	2.6 to 5.1	2.7 to 5.4	2.8 to 5.7	3.2 to 6.1	3.2 to 6.4	3.5 to 6.8	3.6 to 7.1	3.7 to 7.4	4.0 to 7.8	4.1 to 8.1	4.3 to 8.4
	Pa	9	11	16	16	18	21	26	27	30	33	37	40	44	49	53	57
	NR	16	19	21	24	26	28	29	31	33	33	36	37	38	40	41	42

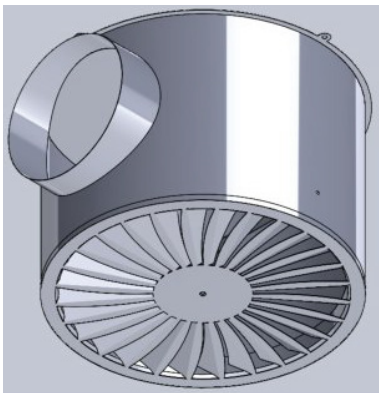
Plenum Box Variations



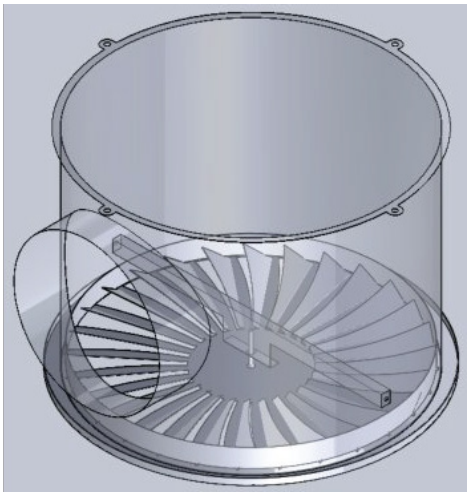
Fixing Detail

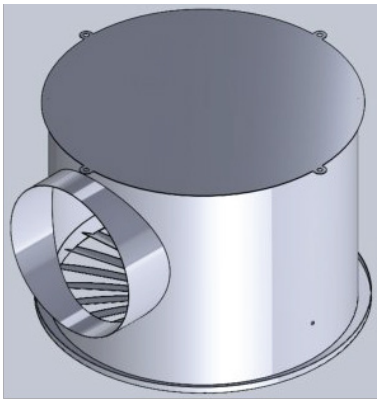


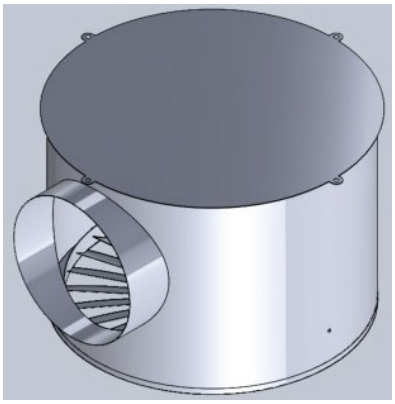
To Suit Neck



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 Damper	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