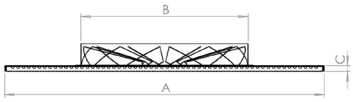
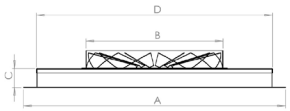
Perforated Face Swirl Diffuser - PSW

Perforated Face Swirl Diffuser suitable for ceiling mounting and is available with either a fixed or hinged perforated sheet face offering excellent performance but with a more discreet appearance within the ceiling. Nominal Neck Sizes: 450, 400, 315, 250, 200 & 160. Circular and Square Face available. Mounting Height: 2.4 – 4.5 metres.



Lay-in Ceiling Type

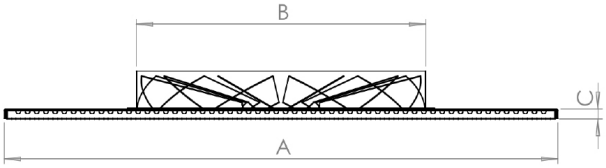


Hinged Face Type



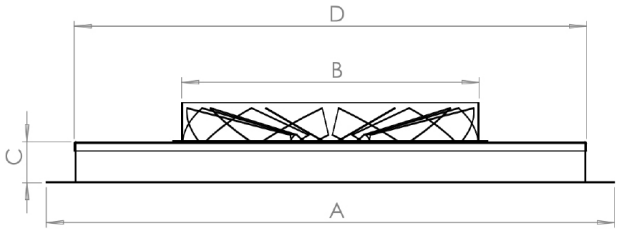
Multiple Variations

PSW-12-L Lay-in Ceiling Type



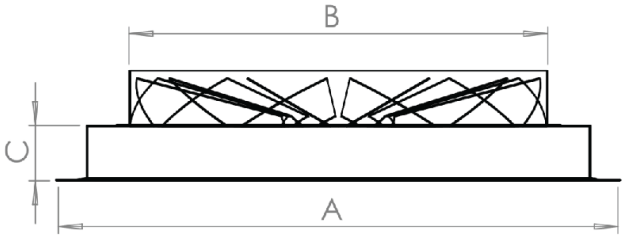
Nom Size	A	B	C
160	595 x 595	157 Dia	10mm
200	595 x 595	197 Dia	10mm
250	595 x 595	247 Dia	10mm
300	595 x 595	297 Dia	10mm
315	595 x 595	312 Dia	10mm
400	595 x 595	397 Dia	10mm
450	595 x 595	447 Dia	10mm

PSW-12-H Hinged Face Type



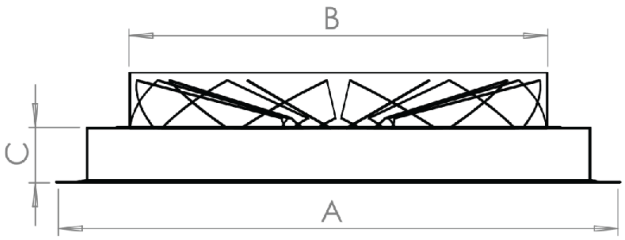
Nom Size	A	B	C	D
160	595 x 595	157 Dia	40mm	540 x 540
200	595 x 595	197 Dia	40mm	540 x 540
250	595 x 595	247 Dia	40mm	540 x 540
300	595 x 595	297 Dia	40mm	540 x 540
315	595 x 595	312 Dia	40mm	540 x 540
400	595 x 595	397 Dia	40mm	540 x 540
450	595 x 595	447 Dia	40mm	540 x 540

PSW-12-C Circular Type



Nom Size	A	B	C
160	270 Dia	157 Dia	40mm
200	330 Dia	197 Dia	40mm
250	380 Dia	247 Dia	40mm
300	440 Dia	297 Dia	40mm
315	440 Dia	312 Dia	40mm
400	600 Dia	397 Dia	40mm

PSW-12-T Tegular Type



Nom Size	A	B	C
160	595 x 595	157 Dia	Drop Size
200	595 x 595	197 Dia	Drop Size
250	595 x 595	247 Dia	Drop Size
300	595 x 595	297 Dia	Drop Size
315	595 x 595	312 Dia	Drop Size
400	595 x 595	397 Dia	Drop Size
450	595 x 595	447 Dia	Drop Size

How to Order

Type	No of Blades	Edge Detail	Size	Overall Size	RAL Colour
PSW	12	"L - Lay-In Grid H - Hinged Core T - Tegular C - Circular"	e.g. 315	e.g. 595 x 595	e.g. RAL 9010

e.g. 10 No PSW - 12 - L - 450 - 595 x 595 - RAL 9010

Performance Data

Size										
160 DIA	L/s	20	25	30	35	40	45	50	55	60
	Throw m 0.25 - 0.5 m/s	0.3 - 0.5	0.4 - 0.7	0.5 - 0.9	0.6 - 1.1	0.6 - 1.3	0.7 - 1.4	1.0 - 1.6	1.0 - 1.7	1.2 - 1.9
	Pa	6	10	14	20	26	33	40	49	58
	NR		18	23	28	31	35	38	40	43
200 DIA	L/s	30	35	40	45	50	55	60	70	80
	Throw m 0.25 - 0.5 m/s	1.0 - 0.5	1.1 - 0.6	1.3 - 0.7	1.5 - 0.7	1.6 - 0.8	1.8 - 0.9	2.0 - 1.0	2.3 - 1.1	2.6 - 1.3
	Pa	7	10	12	16	19	24	28	34	50
	NR	10	15	18	22	25	27	30	34	38
250 DIA	L/s	40	50	60	70	80	90	100	110	120
	Throw m 0.25 - 0.5 m/s	0.5 - 0.9	0.6 - 1.2	0.7 - 1.4	0.9 - 1.9	1.0 - 2.1	0.9 - 2.3	1.2 - 2.4	1.3 - 2.6	1.4 - 2.9
	Pa	5	8	12	16	21	26	32	39	47
	NR		18	23	27	31	34	37	40	42
300 DIA	L/s	50	60	70	80	90	100	120	140	150
	Throw m 0.25 - 0.5 m/s	1.1 - 0.6	1.4 - 0.7	1.6 - 0.8	1.8 - 0.9	2.1 - 1.0	2.3 - 1.1	2.8 - 1.4	3.2 - 1.6	3.4 - 1.7
	Pa	3	5	6	8	10	13	18	27	34
	NR		3	8	12	16	19	22	27	32
315 DIA	L/s	70	80	90	100	120	140	160	180	200
	Throw m 0.25 - 0.5 m/s	0.8 - 1.5	0.8 - 1.7	1.0 - 1.9	1.1 - 2.1	1.2 - 2.5	1.4 - 2.9	1.8 - 3.4	2.0 - 3.8	2.4 - 4.2
	Pa	6	8	10	12	18	24	31	38	41
	NR		15	18	21	26	31	34	38	41

Performance Data

Size										
400 DIA	L/s	100	125	150	175	200	225	250	275	300
	Throw m 0.25 - 0.5 m/s	1.2 - 0.6	1.5 - 0.8	1.8 - 0.9	2.1 - 1.1	2.4 - 1.2	2.7 - 1.4	3.0 - 1.5	3.4 - 1.7	3.7 - 1.8
	Pa	5	8	12	16	21	26	32	39	47
	NR	11	17	23	27	31	34	37	40	42
450 DIA	L/s	150	175	200	225	250	275	300	325	350
	Throw m 0.25 - 0.5 m/s	1.0 - 2.1	1.2 - 2.5	1.3 - 2.8	1.5 - 3.2	1.6 - 3.5	2.0 -3.9	2.0 - 4.2	2.3 - 4.6	2.5 - 4.9
	Pa	5	7	9	11	14	17	20	23	27
	NR		17	21	24	27	30	32	34	42

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

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