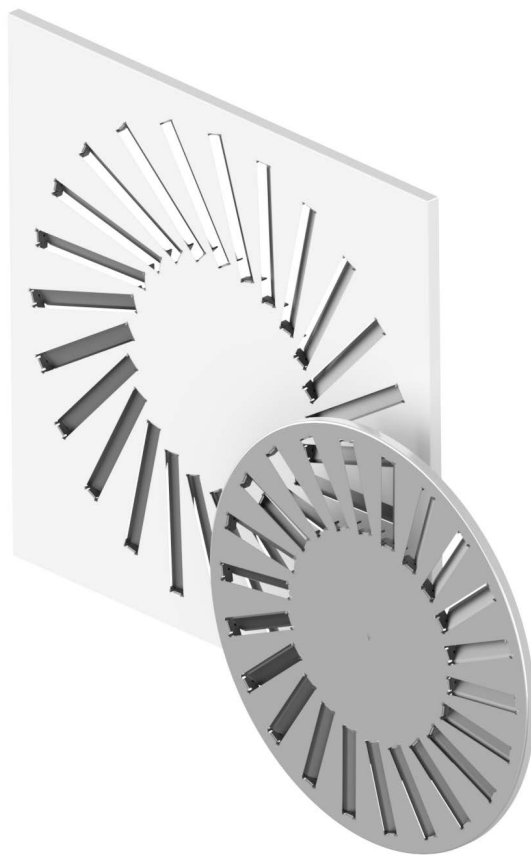


ADJUSTABLE VANE SWIRL DIFFUSER



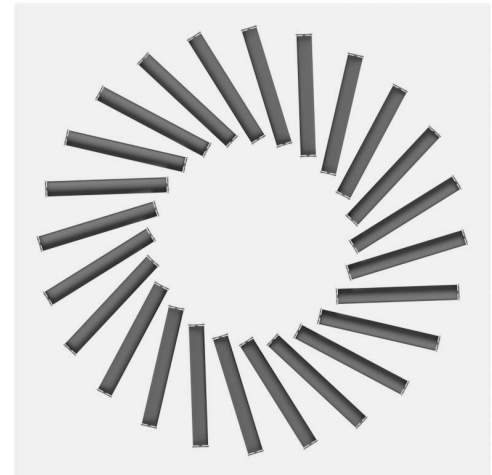
ADSW SWIRL DIFFUSER

Suitable for ceiling mounting and can be manufactured to suit most ceiling tile arrangements.

The steel blades can be easily adjusted from the face of the diffuser to give either a Horizontal or Vertical air pattern.

This diffuser offers high induction of room air and the rapid decay of supply air velocities and temperature differentials.

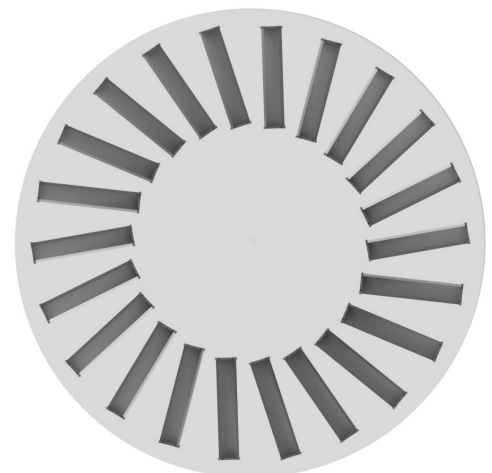
ADSW-24-L Lay-in Ceiling Type



ADSW Circular Exposed Ceiling Type



ADSW-24-C Circular Type



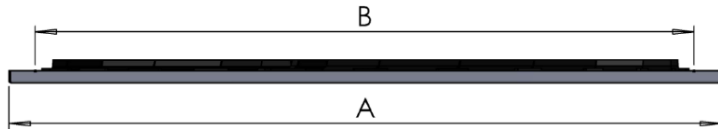
Regular frame options are available to suit most ceiling systems



ADSW SWIRL DIFFUSER

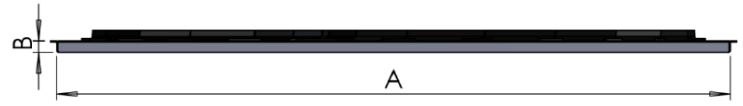
Dimensional Data

ADSW - L - Lay In



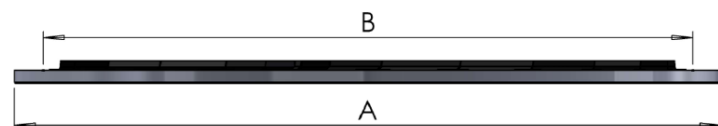
Blades	A	B
48-HC	795 x 795	785 x 785
48	595 x 595	580 x 580
32	595 x 595	580 x 580
24	595 x 595	580 x 580
16	595 x 595, 495 x 495, 395 x 395	380 x 380
14	595 x 595, 495 x 495	470 x 470
8	595 x 595, 495 x 495, 395 x 395, 295 x 295	280 x 280
24 Small	595 x 595, 495 x 495	465 x 465

ADSW - T - Tegular



Blades	A	B
48	574 / 584	Drop Size
32	574 / 584	Drop Size
24	574 / 584	Drop Size
16	574 / 584	Drop Size
14	574 / 584	Drop Size
8	574 / 584	Drop Size
24 Small	574 / 584	Drop Size

ADSW - C - Circular



Blades	A	B
48-HC	800 Dia	785 Dia
48	600 Dia	580 Dia
32	600 Dia	580 Dia
24	600 Dia	580 Dia
16	600, 500, 400 Dia	380 Dia
14	600, 500 Dia	470 Dia
8	600, 500, 400, 300 Dia	280 Dia
24 Small	600, 500 Dia	465 Dia

ADSW - M - Clip In



Blades	A
48	599 x 599
32	599 x 599
24	599 x 599
16	599 x 599
14	599 x 599
8	599 x 599
24 Small	599 x 599

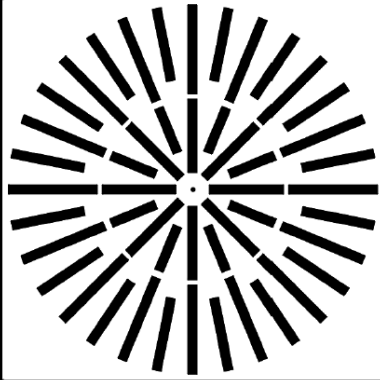
How to order

Type	No of Blades	Edge Detail	Tegular Depth	Size	Overall Size	RAL Colour
ADSW	24	L - Lay-In Grid T15 - Tegular 584 x 584 T24 - Tegular 574 x 574 M - Clip-In Metal Tile C - Circular	e.g. 8mm		e.g. 595 x 595 599 x 599 600 Dia 500 Dia 400 Dia 300 Dia	e.g. RAL 9010

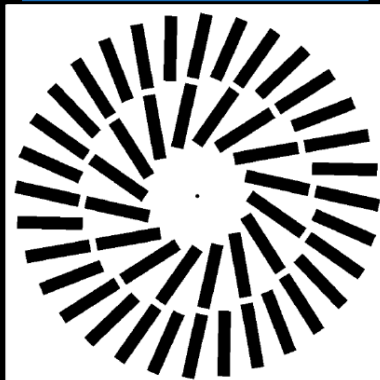
ADSW SWIRL DIFFUSER

Faceplate Patterns

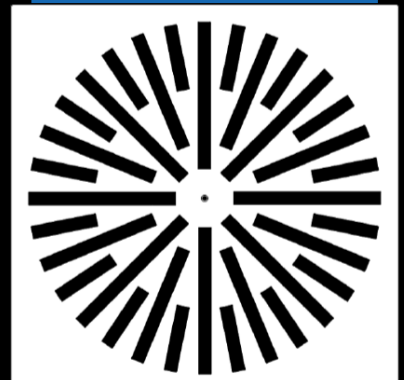
ADSW-48-HC



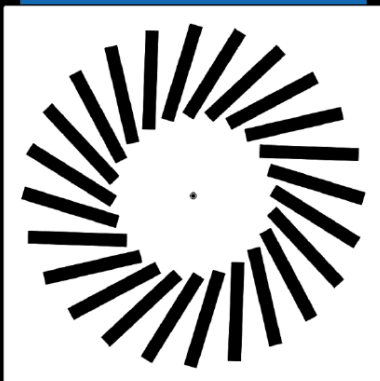
ADSW- 48



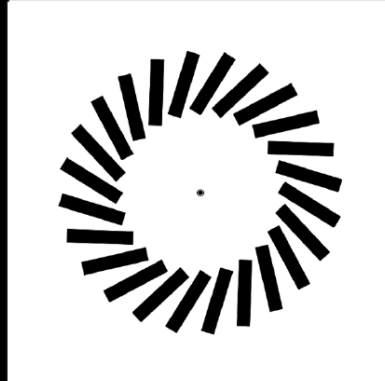
ADSW- 32



ADSW- 24



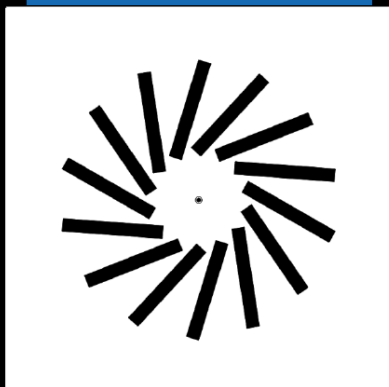
ADSW- 24 - Small Blades



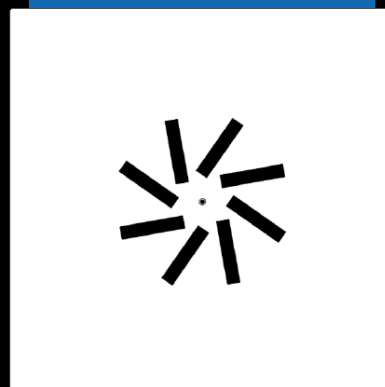
ADSW- 16



ADSW- 14



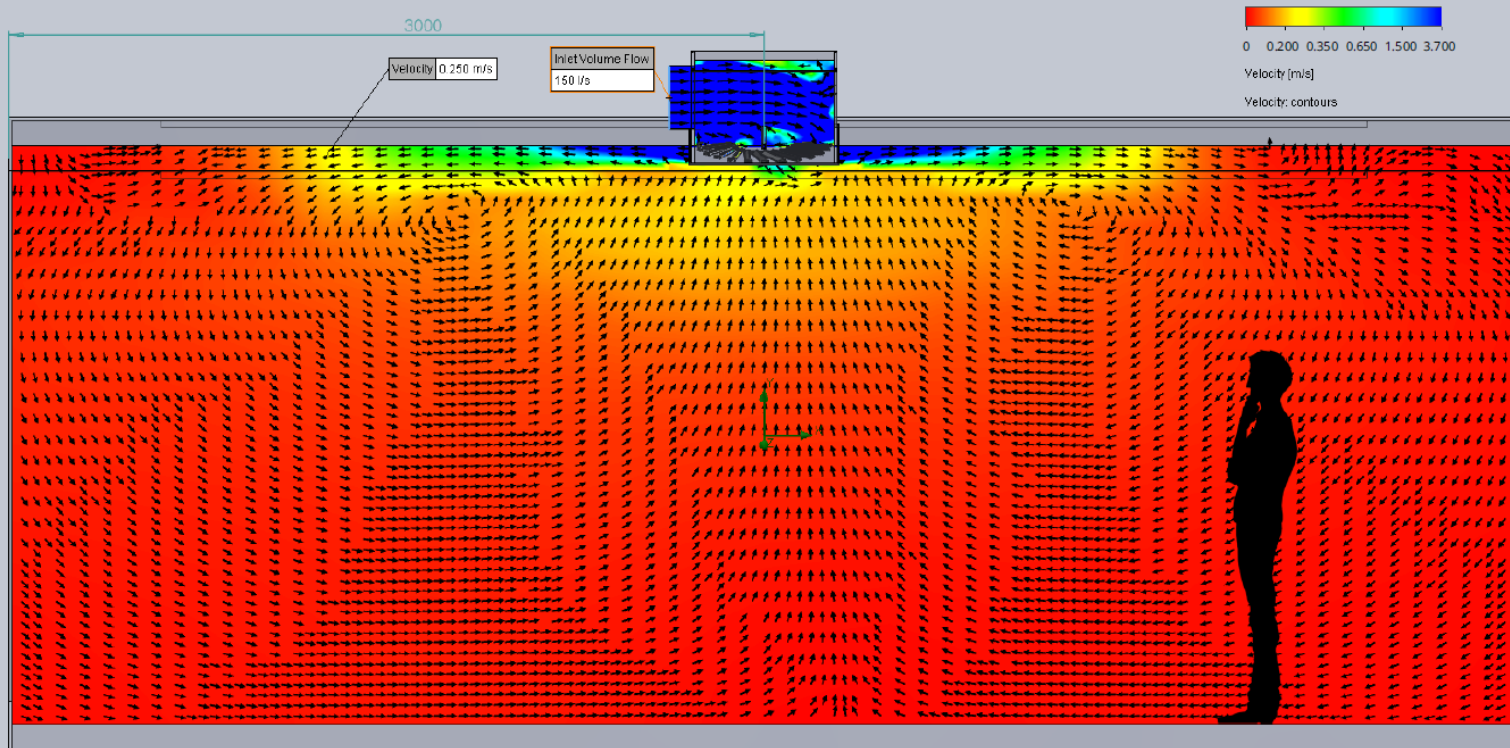
ADSW- 8



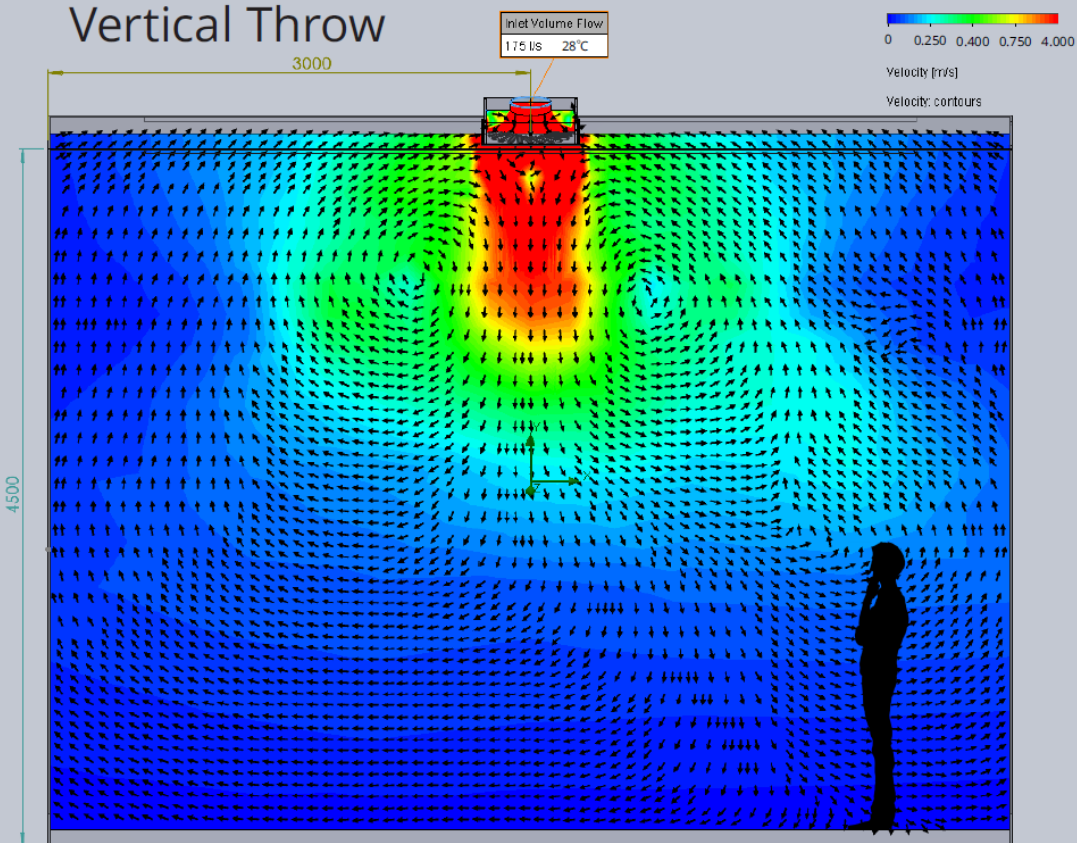
ADSW SWIRL DIFFUSER

CFD Performance Modelling

Horizontal Throw



Vertical Throw



Our specially designed blades can be adjusted from the face to offer either a horizontal or vertical throw.

ADSW SWIRL DIFFUSER



Performance Data

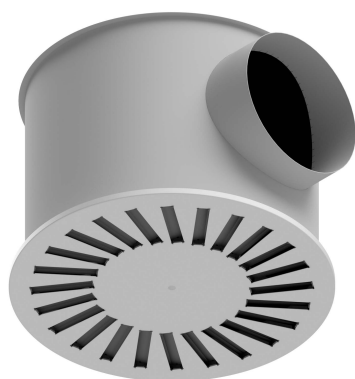
Size		150	160	170	180	190	200	220
ADSW-48-HC	L/s	150	160	170	180	190	200	220
	Throw m 0.25 - 0.5 m/s	1.6 - 0.8	1.7 - 0.9	1.8 - 0.9	2.0 - 1.0	2.1 - 1	2.2 - 1.1	2.4 - 1.2
	Pa	7	7	8	9	11	12	14
	NR	13	14	16	18	19	21	23
	L/s	240	260	280	300	320	340	350
	Throw m 0.25 - 0.5 m/s	2.6 - 1.3	2.8 - 1.5	3 - 1.5	3.2 - 1.6	3.5 - 1.7	3.7 - 1.8	3.8 - 1.9
	Pa	17	20	23	26	30	34	36
	NR	26	28	30	32	34	36	37
ADSW-48	L/s	100	110	120	130	140	150	160
	Throw m 0.25 - 0.5 m/s	1.5 - 0.8	1.7 - 0.8	1.8 - 0.9	2.0 - 1.0	2.1 - 1.1	2.3 - 1.2	2.5 - 1.2
	Pa	4	4	8	6	7	8	9
	NR	7	10	12	15	17	19	20
	L/s	170	180	190	200	220	240	260
	Throw m 0.25 - 0.5 m/s	2.6 - 1.3	2.8 - 1.4	3.1 - 1.5	3.1 - 1.5	3.4 - 1.7	3.7 - 1.8	4.0 - 2.0
	Pa	12	12	13	15	18	21	25
	NR	24	24	25	27	29	32	34
ADSW-32	L/s	100	110	120	130	140	150	160
	Throw m 0.25 - 0.5 m/s	1.4 - 0.7	1.5 - 0.8	1.7 - 0.8	1.8 - 0.9	2.0 - 1.0	2.1 - 1.1	2.2 - 1.1
	Pa	6	7	9	10	12	14	16
	NR	12	15	17	20	22	24	25
	L/s	170	180	190	200	220	240	260
	Throw m 0.25 - 0.5 m/s	2.4 - 1.2	2.5	2.7 - 1.3	2.8 - 1.4	2.9	3.1 - 1.5	3.4 - 1.7
	Pa	18	20	22	25	27	30	35
	NR	27	29	30	32	33	34	37
ADSW-24	L/s	75	90	100	110	120	130	140
	Throw m 0.25 - 0.5 m/s	1.1 - 0.5	1.3 - 0.6	1.4 - 0.7	1.5 - 0.8	1.7 - 0.8	1.8 - 0.9	2 - 1.0
	Pa	5	7	9	10	12	15	17
	NR	<15 - 9	14	17	20	22	25	27
	L/s	150	160	170	180	190	200	
	Throw m 0.25 - 0.5 m/s	2.1 - 1.1	2.2 - 1.1	2.4 - 1.2	2.5 - 1.3	2.7 - 1.3	2.8 - 1.4	
	Pa	19	22	25	28	31	34	
	NR	29	30	32	34	35	37	
ADSW-16	L/s	40	50	60	70	80	90	100
	Throw m 0.25 - 0.5 m/s	0.9 - 0.4	1.2 - 0.6	1.3 - 0.6	1.6 - 0.8	1.8 - 0.9	2.0 - 1.0	2.2 - 1.1
	Pa	6	9	13	18	23	29	36
	NR	7	14	19	23	27	30	33
	L/s	110	120	130	140	150	160	
	Throw m 0.25 - 0.5 m/s	2.5 - 1.2	2.7 - 1.3					
	Pa	44	52					
	NR	36	38					
ADSW-14	L/s	40	50	60	70	80	90	100
	Throw m 0.25 - 0.5 m/s	0.7 - 0.4	0.9 - 0.5	1.1 - 0.6	1.3	1.5 - 0.7	1.7 - 0.8	1.9 - 0.9
	Pa	4	7	10	13	17	22	27
	NR	1	8	13	17	21	24	27
	L/s	110	120					
	Throw m 0.25 - 0.5 m/s	2.1 - 1.0	2.2 - 1.1					
	Pa	33	39					
	NR	30	32					
ADSW-8	L/s	20	30	40	50	60	70	80
	Throw m 0.25 - 0.5 m/s	0.4 - 0.2	0.7 - 0.3	0.9 - 0.4	1.1 - 0.6	1.3 - 0.7	1.6 - 0.8	1.8 - 0.9
	Pa	5	11	19	30	44	59	78
	NR	3	14	22	29	34	38	42
ADSW-24 - Small Blades	L/s	45	60	75	85	100	110	120
	Throw m 0.25 - 0.5 m/s	0.7 - 0.3	0.9 - 0.4	1.1 - 0.6	1.3 - 0.6	1.5 - 0.7	1.6 - 0.8	1.8 - 0.9
	Pa	5	9	15	19	26	32	37
	NR	3	11	17	21	25	28	30

Plenum Box Dimensions & Standards

All plenum boxes are manufactured from galvanized sheet steel and are available with 6mm or 12mm Class 'O' foam lining.

Circular Plenums

Circular plenum boxes are available to suit either ceiling or exposed services installations with either side or top entry spigot connections (side entry shown).



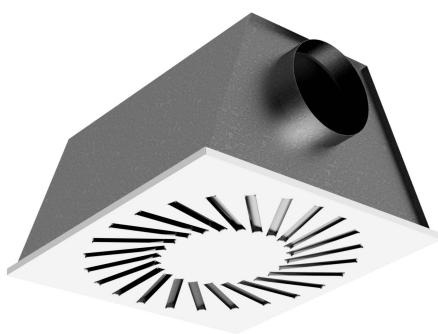
Ceiling Installation



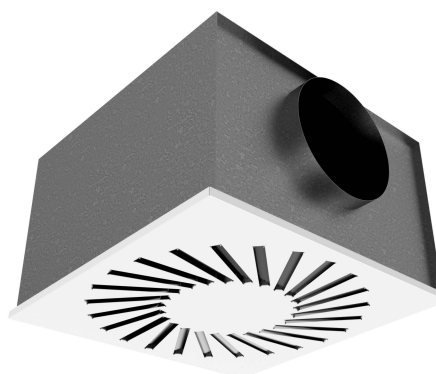
Exposed Installation

Square Plenums

Square plenum boxes are available to suit either ceiling or exposed services installations with either side or top entry spigot connections (side entry shown). Tapered boxes are supplied for ceilings and parallel for exposed.



Ceiling Installation



Exposed Installation

Additional spigots and other bespoke plenums are available. please contact the Sales Office to discuss your requirements.

Issue date : 29/09/26