

**CIRCULAR SWIRL DIFFUSERS**

*Model ODS*



**Description:**

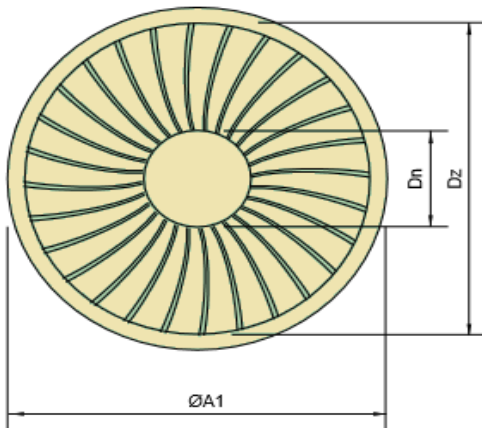
- The circular swirl is a fixed horizontal air pattern swirl diffuser.
- Suitable for mounting heights up to 4.5 metres.
- A temperature differential of -10 to 0K degrees between the supply air and room is recommended which together with a low static pressure drop and low noise levels are performance advantages of the diffuser.
- Single countersunk screw hole in centre of panel.

**Construction:**

- Formed on a CNC press machine from sheet steel material.

**Specification:**

- The fixed pattern swirl diffuser may be used for either supply or extract and typical applications include offices, retail premises, hotels and other similar areas.



Circular Swirl (ODS)				
Item #	Face Size	DN	DZ (Neck Size)	ØA1
247525	300	84	254	300
247535	400	92	350	400
247545	500	150	450	500
247554	600	170	540	600

*Please note: Inside dimension of a spigot to go over the neck should be at least 5mm bigger than the neck size quoted above*

## Performance Data

Size		20	25	30	35	40	45	50	55	60
254 Dia	I/s	20	25	30	35	40	45	50	55	60
	Throw m	0.6 - 1.1	0.7-1.4	0.8-1.7	1.0-1.9	1.1-2.2	0.2-2.5	1.4-2.8	1.5-3	1.6-3.3
	Pa	3	5	8	11	14	18	22	26	31
	NC					16	20	23	25	28
	I/s	65	70	75	80					
	Throw m	1.8-3.6	1.9-3.9	2.0-4.1	2.2-4.4					
	Pa	37	43	49	56					
350 Dia	I/s	50	55	60	65	70	80	90	100	110
	Throw m	1.0-2.1	1.2-2.3	1.2-2.5	1.3-2.7	1.4-2.9	1.6-3.3	1.9-3.8	2.0-4.2	2.3-4.6
	Pa	6	7	9	10	12	16	20	25	30
	NC				15	17	21	24	27	30
	I/s	120	130	140	150	160				
	Throw m	2.6-5.0	2.7 - 5.4	2.8 - 5.8	3.2 - 6.3	3.5 - 6.7				
	Pa	35	41	48	55	63				
450 Dia	I/s	75	80	90	100	110	120	130	140	150
	Throw m	1.2-2.5	1.3-2.7	1.6-3.1	1.7-3.4	1.8-3.7	2.0-4.0	2.1-4.4	2.4-4.7	2.5-5
	Pa	9	11	14	17	20	24	28	33	38
	NC	16	18	21	24	27	29	32	34	36
	I/s	160	170	180	190	200				
	Throw m	2.7-5.4	2.9-5.7	3.0-6.1	3.2-6.4	3.3-6.7				
	Pa	43	49	51	61	67				
540 Dia	I/s	100	110	120	130	140	150	160	170	180
	Throw m	1.7-3.4	1.8-3.7	2.0-4.1	2.2-4.4	2.4-4.7	2.6-5.1	2.7-5.4	2.8-5.7	3.2-6.1
	Pa	9	11	13	16	18	21	23	27	30
	NC	16	19	21	24	26	28	29	31	33
	I/s	190	200	210	220	230	240	260		
	Throw m	3.2-6.4	3.5-6.8	3.6-7.1	3.7-7.4	4.0-7.8	4.1-8.1	4.3-8.4		
	Pa	33	37	40	44	49	53	57		
NC	34	36	37	38	40	41	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

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