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CIRCULAR DIFFUSER  
Model AGI-RD



#### APPLICATIONS

A stylish adjustable supply air pattern diffuser suitable for heating and cooling systems in both commercial and domestic applications.

For heating applications, a vertical air distribution is achieved by adjusting the centre cone to the up position.

By adjusting the centre cone to the down position, a horizontal air distribution is achieved to suit cooling applications.

Popular in standard ceilings and exposed duct applications.

#### FEATURES

Manufactured from spun aluminium material making them lightweight and resistant to rust and corrosion.

Removable core via position centre screw.

Adjustment of centre cone allows varying throw patterns.

Spigot size on boxes to be 5m > than neck sizes.

Standard finish powder coat satin white.

#### STOCK SIZES (mm)

Neck	Face	Cut Out Size
150	310	260
200	378	318
250	477	417
300	591	531
400	703	643

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150/310mm Aluminium Circular Diffuser											
L/s	Pa	Throw (m) to terminal vel. 0.5m/s 0.25m/s		SOUND POWER LEVEL, dB re 1pW						NR	dB(A)
				Octave Band Centre Frequency, Hz							
				125	250	500	1000	2000	4000		
100	12	0.9	1.3	46	39	35	33	29	26	23	29
130	20	1.2	1.6	51	44	41	40	36	31	30	35
170	34	1.5	2.1	57	51	49	49	46	42	39	43
200	47	1.7	2.4	64	58	56	56	53	49	46	50
250	74	2.1	2.9	75	70	68	67	65	62	57	62

200/378mm Aluminium Circular Diffuser											
L/s	Pa	Throw (m) to terminal vel. 0.5m/s 0.25m/s		SOUND POWER LEVEL, dB re 1pW						NR	dB(A)
				Octave Band Centre Frequency, Hz							
				125	250	500	1000	2000	4000		
127	14	0.7	1.0	46	39	35	33	29	26	23	29
177	22	0.9	1.3	51	44	41	40	36	31	30	35
212	32	1.1	1.5	54	48	46	46	43	39	36	40
247	39	1.3	1.8	57	51	49	49	46	42	39	43
276	48	1.4	2.0	59	54	52	51	49	46	42	46

250/477mm Aluminium Circular Diffuser											
L/s	Pa	Throw (m) to terminal vel. 0.5m/s 0.25m/s		SOUND POWER LEVEL, dB re 1pW						NR	dB(A)
				Octave Band Centre Frequency, Hz							
				125	250	500	1000	2000	4000		
170	10	1.1	1.5	48	38	33	32	28	26	22	28
191	13	1.2	1.7	51	41	37	36	32	27	26	31
254	23	1.7	2.3	57	46	43	44	41	33	34	38
283	28	1.8	2.5	59	48	46	46	44	37	37	41
339	40	2.2	3.1	63	52	50	50	48	42	41	45

300/591mm Aluminium Circular Diffuser											
L/s	Pa	Throw (m) to terminal vel. 0.5m/s 0.25m/s		SOUND POWER LEVEL, dB re 1pW						NR	dB(A)
				Octave Band Centre Frequency, Hz							
				125	250	500	1000	2000	4000		
177	7	1.1	1.5	53	39	32	29	26	26	24	29
205	12	1.3	1.8	56	42	35	33	31	28	27	32
262	17	1.6	2.2	60	46	41	39	34	28	32	37
346	27	2.1	2.9	64	51	47	45	40	33	37	42
396	38	2.4	3.4	66	55	51	50	45	38	40	45

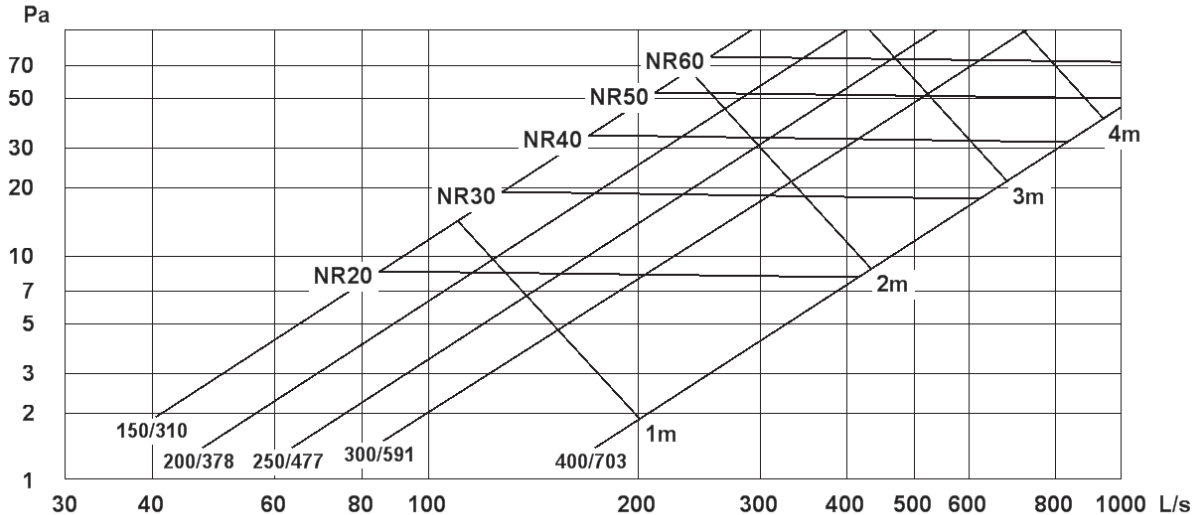
400/703mm Aluminium Circular Diffuser											
L/s	Pa	Throw (m) to terminal vel. 0.5m/s 0.25m/s		SOUND POWER LEVEL, dB re 1pW						NR	dB(A)
				Octave Band Centre Frequency, Hz							
				125	250	500	1000	2000	4000		
470	14	2.0	2.8	53	45	41	39	35	32	29	35
655	22	2.8	3.9	57	50	48	46	42	37	36	41
784	32	3.4	4.7	61	54	52	52	49	44	42	46
914	39	4.0	5.6	63	57	55	55	52	48	45	49
1021	48	4.4	6.2	65	60	58	57	55	52	48	52

1. "Pa" is the in-duct static pressure one diameter upstream of diffuser spigot.

2. NR and dB(A) calculated with assumed 10dB deducts for room effect. (Where the room is very large, applicable deducts may be more.)

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Circular Supply Register



Throw (m) is to a terminal velocity of 0.5m/s.  
Throw to a terminal velocity of 0.25m/s is approximately 40% of the above.

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