

Round Diffuser



Description

Suitable for supply air applications for cooling, heating and isothermal conditions. Offers a variety of airflow patterns. Suitable for modular ceiling systems.

Construction

From A.B.S polymers providing long term strength and rigidity. The airflow passages are smooth ensuring quiet and efficient airflow. The centre cone can be wound up or down to adjust the airflow and throw pattern.

Note:

- Non-glare mottled white finish
- Grilles are complete with snap down fixing clip and dual spring arrangement

Product Code	Exact Neck (mm)	"Ceiling Opening (mm)	Face Size (mm)	Height (mm)
ARD0150	150 dia	235 dia	255 dia	110
ARD0200	200 dia	285 dia	320 dia	115
ARD0250	250 dia	355 dia	390 dia	120
ARD0300	300 dia	410 dia	435 dia	120

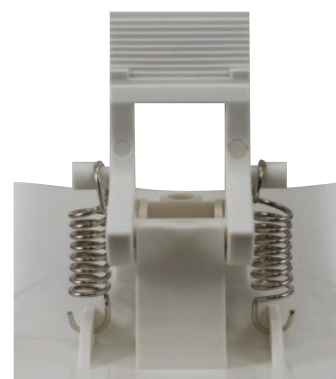
Easy Airflow Adjustment



Fast Installation



The clips automatically snap the diffuser in place the dual springs arrangement provides a secure fit.

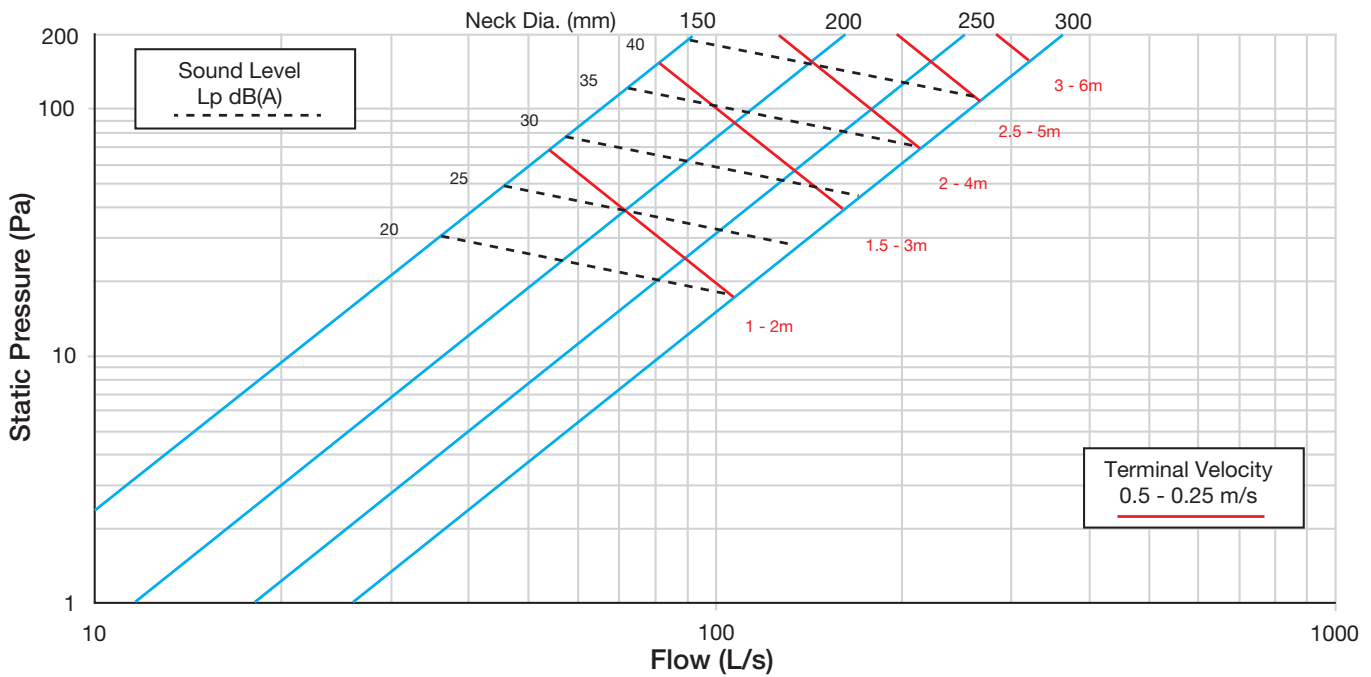


Performance Data

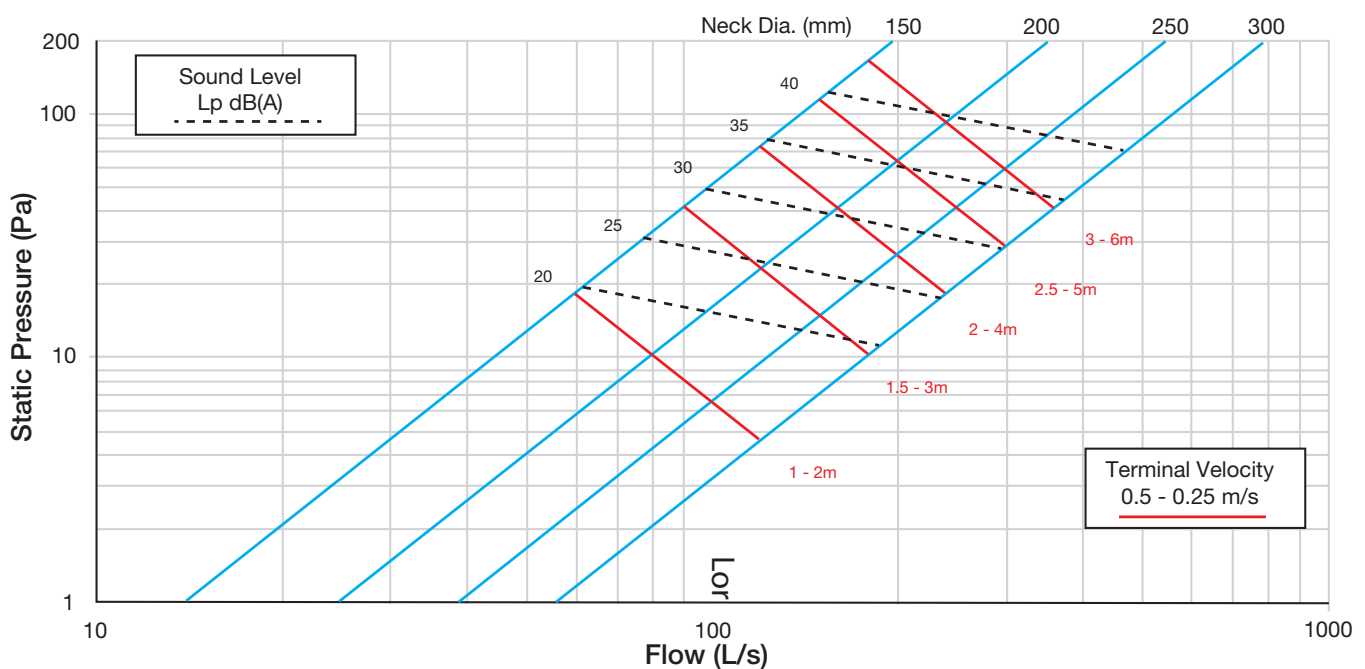
Data is based on isothermal conditions with a ceiling height of 2.7m with the diffuser mounted flush in an unobstructed ceiling.

Throws are given at a terminal velocity of 0.25 m/s. Data is tabulated with the centre cone in two test positions 20% and 100% open respectively. Noise Ratings are based on a room absorption level of 10db.

ARD0150 20% Open	Air flow	l/s	15	30	45	60	75	90
	Sound Level	dB(A)	<20	<20	25	31	36	40
	Pressure Drop	Pa	5	21	48	85	133	192
	Throw-0.25 m/s	m	0.6	1.1	1.7	2.2	2.8	3.3
ARD0150 100% Open	Air flow	l/s	15	30	45	60	75	90
	Sound Level	dB(A)	<20	<20	<20	<20	24	28
	Pressure Drop	Pa	1	5	10	18	29	42
	Throw-0.25 m/s	m	0.5	1	1.5	2	2.5	3
ARD0200 20% Open	Air flow	l/s	25	50	75	100	125	150
	Sound Level	dB(A)	<20	<20	26	32	37	41
	Pressure Drop	Pa	5	19	42	75	117	169
	Throw-0.25 m/s	m	0.7	1.4	2.1	2.8	3.5	4.2
ARD0200 100% Open	Air flow	l/s	25	50	75	100	125	150
	Sound Level	dB(A)	<20	<20	<20	21	25	29
	Pressure Drop	Pa	1	4	9	16	25	37
	Throw-0.25 m/s	m	0.6	1.3	1.9	2.5	3.1	3.8
ARD0250 20% Open	Air flow	l/s	40	80	120	160	200	240
	Sound Level	dB(A)	<20	<20	28	35	40	43
	Pressure Drop	Pa	5	20	44	79	123	177
	Throw-0.25 m/s	m	0.9	1.8	2.7	3.6	4.5	5.4
ARD0250 100% Open	Air flow	l/s	40	80	120	160	200	240
	Sound Level	dB(A)	<20	<20	<20	23	28	32
	Pressure Drop	Pa	1	4	10	17	27	38
	Throw-0.25 m/s	m	0.8	1.6	2.4	3.2	4	4.8
ARD0300 20% Open	Air flow	l/s	60	120	180	240	300	360
	Sound Level	dB(A)	<20	22	31	37	42	46
	Pressure Drop	Pa	5	21	48	85	133	192
	Throw-0.25 m/s	m	1.1	2.2	3.3	4.5	5.6	6.7
ARD0300 100% Open	Air flow	l/s	60	120	180	240	300	360
	Sound Level	dB(A)	<20	<20	<20	25	30	34
	Pressure Drop	Pa	1	5	10	18	29	42
	Throw-0.25 m/s	m	1	2	3	4	5	6

Selection Guide for Round Diffuser - RND (20% open)


*These graphs are for selection only and should not be used for commissioning.

Selection Guide for Round Diffuser - RND (100% open)


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