

# ROUND CEILING DIFFUSERS

**BALAJI AIRVENT**  
P R O D U C T S

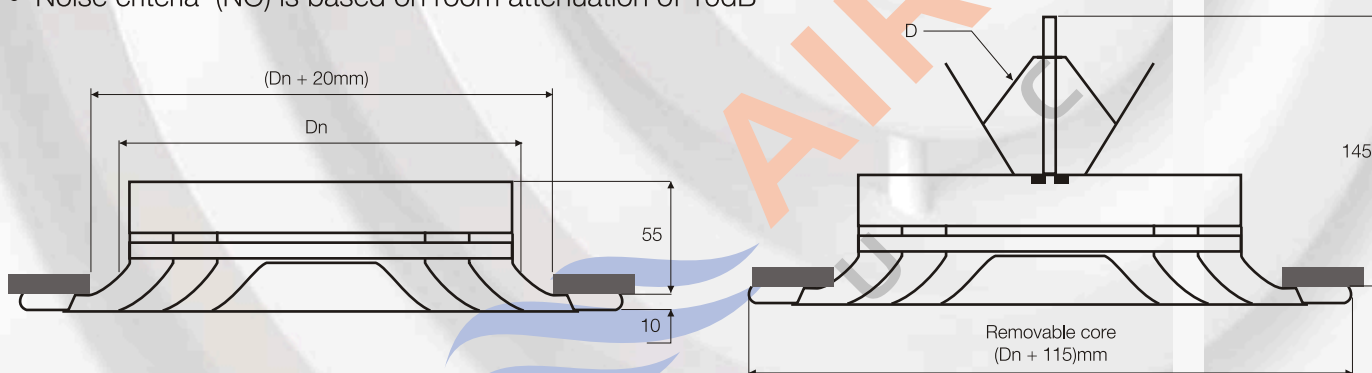
Model No. AVRCD



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- Air diffuser height : between 2.50 and 3.50m.  
If higher, the horizontal throw decreases according to height increase (approximately 5% every 0.3m up 25% maximum).
- Air diffuser installed at ceiling level with entirely open damper. If air diffusers are installed on exposed ducts the horizontal throw decreases according to the ceiling (10% every 0.6m, up to 30% maximum reduction).
- When two ceiling diffusers are to diffuse air towards each other, let the minimum horizontal throw be lower or equal to half the distance between them.
- Neck size measured in mm dia.
- Static pressure loss across the diffuser in mm of H<sub>2</sub>O.
- Throw(meters) is measured for terminal velocities of 0.5 and 0.25 m/sec.
- Noise criteria (NC) is based on room attenuation of 10dB



Air Flow	Nominal dim.	Horizontal Throw		Pressure Drop	Effective Velocity	Sound Level
m <sup>3</sup> /h	Dn (mm)	min	max	(pa)	Vk (m/s)	(NC)db
100	100	0.9	1.8	35	6.5	35-40
200	150	0.6	1.2	25	6	30-35
	200	0.5	1.1	4.5	2.7	15-20
250	150	0.8	1.6	40	7.5	35-40
	200	0.5	1.2	6.5	3.3	15-20
	250	0.5	1.0	2.5	2	10-15
300	200	0.7	1.5	11	4	20-25
	250	0.5	1.0	3.5	2.5	10-15
	300	0.5	1.0	2	1.8	10-15
400	200	0.9	1.8	20	5.5	30-35
	250	0.5	1.0	7	3.3	20-25
	300	0.8	1.5	3.5	2.5	15-20
500	250	0.7	1.4	11	4	25-30
	300	0.5	1	6	3	20-25
600	250	0.8	1.6	15	4.8	30-35
	300	0.6	1.2	9	3.5	25-30
	350	0.5	1.0	5.5	3	20-25
800	300	0.8	1.6	16	4.5	30-35
	350	0.7	1.4	11	3.8	30-35
1000	300	1.4	3	27	6	40-45
	350	0.9	1.8	17	5	35-40
	400	0.8	1.5	13	4.2	30-35
1200	350	1.4	3	26	6	40-45
	400	1	2	20	5	35-40
1500	400	1.5	3	35	6.5	45-50

