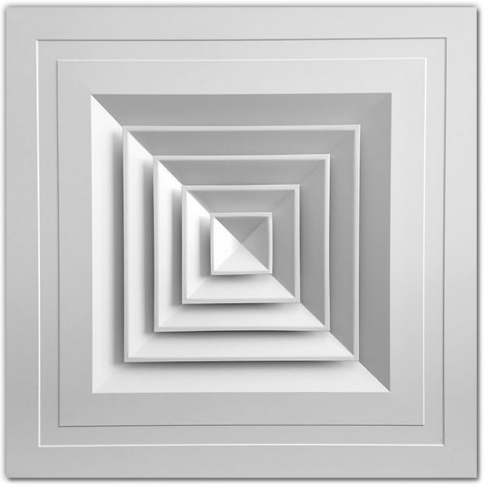
CEILING DIFFUSER CDR-LT



Description

- 4 directions aluminium ceiling diffuser, for paneled ceiling mounting.

Application

- Supply and exhaust of air flow.

Characteristics

- The air diffuser is designed for installation in ceiling 600×600 mm.
- Removable central cone for easy installation and cleaning.
- The air flow can be adjusted by mounting an air control damper OBD on the diffuser inlet.

Accessories

- Air control damper with opposable blades OBD.
- Insulated/Non-insulated adaptor ADP IZ/N.

Materials and finishing

- Extruded aluminum material, electrostatic field painted white RAL 9016.
- Other RAL colors available on request.

Mounting

- Paneled ceiling mounting 600 x 600 mm (standard).
- Possibility of installation/ mounted by fitting the diffuser.

Order code

Type	+	OBD	+	ADP IZ/N	/	Dimensions	/	0
CDR-LT		Air control damper		Insulated/ Non-insulated adaptor		neck / external size 150 / 595 225 / 595 300 / 595 375 / 595		0 Painted white RAL 9016 R Other RAL paints

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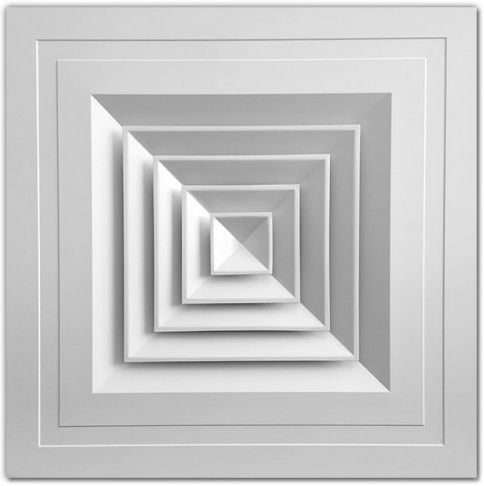

Technical Specifications

Air flow (m^3 / h)	LXH Ak [m^2]	150x150 0.0109	225x225 0.0244	300x300 0.0435	375x375 0.0679
160	Veff [m/s]	4.1	1.8		
	X (m)	1,0	0,7		
	NR [dB(A)]	29.0	13.0		
	ΔPt [pa]	12.0	2.0		
200	Veff [m/s]	5.1	2.3		
	X (m)	1,2	0,8		
	NR [dB(A)]	35.0	18.0		
	ΔPt [pa]	18.0	4.0		
300	Veff [m/s]	7.7	3.4	1.9	
	X (m)	1,9	1,3	0,9	
	NR [dB(A)]	45.0	28.0	16.0	
	ΔPt [pa]	41.0	8.0	3.0	
400	Veff [m/s]		4.6	2.6	1.6
	X (m)		1,7	1,3	1,0
	NR [dB(A)]		35.0	24.0	15.0
	ΔPt [pa]		15.0	5.0	2.0
500	Veff [m/s]		5.7	3.2	2.1
	X (m)		2,1	1,6	1,3
	NR [dB(A)]		41.0	29.0	20.0
	ΔPt [pa]		23.0	7.0	3.0
600	Veff [m/s]		6.8	3.8	2.5
	X (m)		2,5	1,9	1,5
	NR [dB(A)]		45.0	34.0	25.0
	ΔPt [pa]		33.0	10.0	4.0
700	Veff [m/s]		8.0	4.5	2.9
	X (m)		2,9	2,2	1,8
	NR [dB(A)]		49.0	37.0	28.0
	ΔPt [pa]		44.0	14.0	6.0
800	Veff [m/s]		9.1	5.1	3.3
	X (m)		3,3	2,5	2,0
	NR [dB(A)]		53.0	41.0	32.0
	ΔPt [pa]		58.0	18.0	7.0
900	Veff [m/s]			5.8	3.7
	X (m)			2,8	2,3
	NR [dB(A)]			44.0	35.0
	ΔPt [pa]			23.0	9.0
1000	Veff [m/s]			6.4	4.1
	X (m)			3,1	2,5
	NR [dB(A)]			46.0	37.0
	ΔPt [pa]			29.0	12.0
1200	Veff [m/s]			7.7	4.9
	X (m)			3,8	3,0
	NR [dB(A)]			51.0	42.0
	ΔPt [pa]			41.0	17.0
1600	Veff [m/s]				6.6
	X (m)				4,0
	NR [dB(A)]				49.0
	ΔPt [pa]				30.0
2000	Veff [m/s]				8.2
	X (m)				5,0
	NR [dB(A)]				54.0
	ΔPt [pa]				47.0

" n " - NR < 35

" n " - 35≤NR≤45

" n " - NR > 45

Annotation

*Ak [m^2] - Free surface of the diffuser
*Veff[m/s] - Air velocity in diffuser
*X [m] - Air jet length
*NR [dB(A)] - Noise level without the room attenuation
*ΔPt [pa] - Pressure loss inside diffuser
*Vk = 0.2 [m/s] - Speed at which airflow length was calculated "x" [m]

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