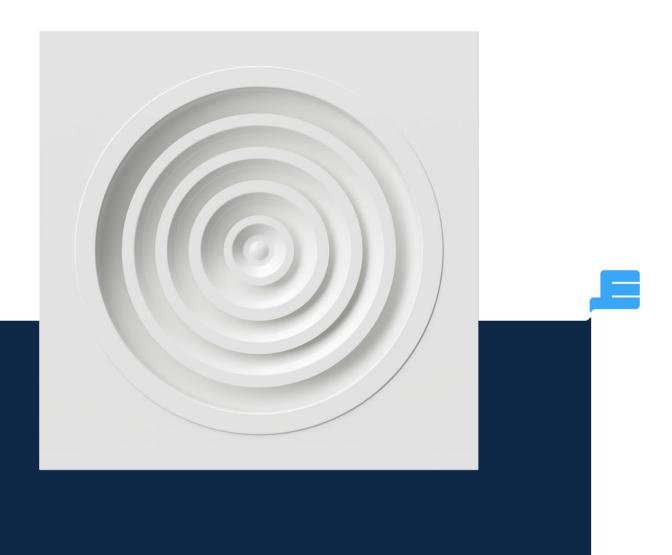
Circular ceiling diffuser





ACPCeiling diffusers



Circular ceiling diffuser RCD-H-R



Description

Diffuser for high ceiling with square front panel and circular connection.

RCD-H-R is recommended for 600x600 mm false suspended ceiling.

The design of the product determines a high level of induction rate.

The ceiling diffuser can be used to introduce or evacuate air.

Installation height 2.7-6 m.

Technical specifications

Characteristics

The diffuser has a 595x595 mm square front plate and a circular connection.

The central cones are adjustable.

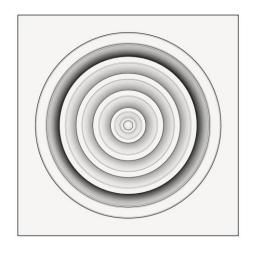
The ceiling diffuser is available with the following connection diameters: 100, 150, 160, 200, 250, 300 and 315 mm.

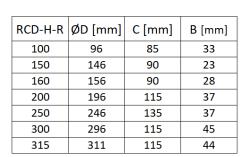


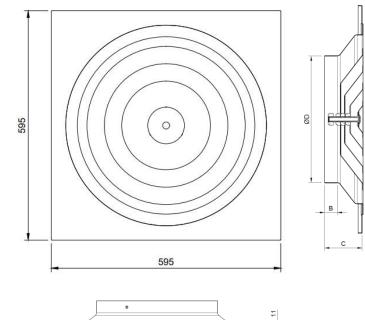
Materials

The ceiling diffuser is made of aluminum and steel, electrostatic field painted in glossy white RAL 9016. Other RAL colours are available on request.

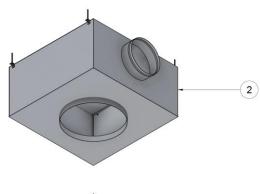
Technical drawing







Product specifications



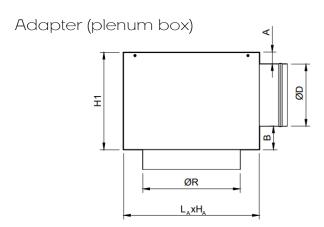
- 1 -RCD-H-R Ceiling diffuser
- 2 Plenum box (optional)



Accessories

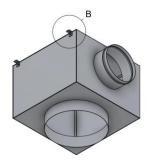
RCD-H-R diffuser can be delivered with a connecting plenum to the circular duct, with a horizontal connection.

The plenum is provided with suspension elements (lugs) and bead roll on the spigot, for easy fixing of the flexible duct. Optionally can be delivered with DAM-RCDH control damper .



 L_A X H_A – depending on \emptyset R A, B, H1 – depending on demand and \emptyset D \emptyset R – connection diameter RCD-H-R + 2 mm

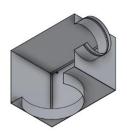
The adapter is made of galvanized steel sheet Z140 and is equipped with 4 lugs for suspension.



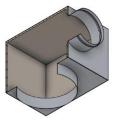


B - Suspension lug

On request, the plenum can be insulated with 6 mm thick elastomeric rubber.



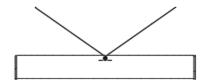
AN - Uninsulated adapter



AIZ - Insulated adapter

Control damper DAM-RCDH

DAM-RCDH can be used to adjust the air flow.





Functional parameters

Air flow	Diameter	100	160	200	250	315
(m³/h)	Ak [m²]	0.0059	0.015	0.027	0.044	0.073
75	X [m]	0.7				
	NR [dB(A)]	27.0				
	Veff[m/s]	3.5				
	∆Pt [pa]	20.0				
100	X [m]	1.0				
	NR [dB(A)]	35.0				
	Veff[m/s]	4.7				
	∆Pt [pa]	47.0				
150	X [m]	1.4	1.0			
	NR [dB(A)]	45.0	21.0			
	Veff[m/s]	7.1	2.8			
	∆Pt [pa]	94.0	9.0			
200	X [m]		1.4			
	NR [dB(A)]		25.0			
	Veff[m/s]		3.7			
	∆Pt [pa]		14.0			
250	X [m]		1.7	1.3		
	NR [dB(A)]		30.0	18.0		
	Veffm/s]		4.6	2.6		
	∆Pt [pa]		20.5	6.8		
300	X [m]		2.1	1.5	1.3	
	NR [dB(A)]		36.0	23.0	15.0	
	Veff[m/s]		5.6	3.1	1.9	
	∆Pt [pa]		33.5	10.5	4.3	
400	X [m]			2.1	1.7	1.6
	NR [dB(A)]			30.0	22.0	3.0
	Veff[m/s]			4.1	2.5	1.5
	∆Pt [pa]			17.5	7.7	4.2
500	X [m]			2.6	2.1	1.9
	NR [dB(A)]			36.0	27.0	20.0
	Veff[m/s]			5.1	3.2	1.9
	∆Pt [pa]			26.5	12.5	6.5
600	X [m]			3.3	2.6	2.3
	NR [dB(A)]			42.0	33.0	25.0
	Veff[m/s]			6.2	3.8	2.3
	∆Pt [pa]			38.0	17.0	10.0
1000	X [m]				3.5	3.5
	NR [dB(A)]				41.0	34.0
	Veff[m/s]				5.1	3.1
	∆Pt [pa]				33.5	17.0
	X [m]				4.5	3.8
	NR [dB(A)]				50.0	40.0
	Veff[m/s]				6.3	3.8
	∆Pt [pa]				52.5	26.5
1250	X [m]					4.6
	NR [dB(A)]					47.0
	Veff[m/s]					4.8
	∆Pt [pa]					40.5

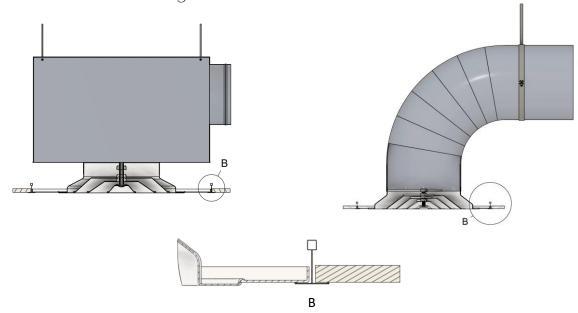
The legend $Ak \ [m^2] \ - The free surface \\ X \ [m] \ - The length of the air jet at a speed of 0.25 m/s \\ Veff \ [m/s] \ - The effective air velocity \\ NR \ [dB \ (A)] \ - Noise level without room attenuation \\ \Delta Pt \ [Pa] \ - Pressure loss$



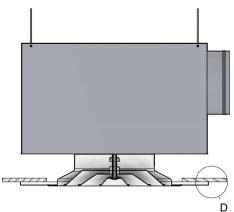
Installation

The diffuser can be mounted in a 600 x 600 mm T-bar ceiling, continuous ceiling or suspended.

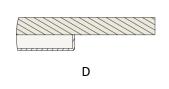
Installation in T-bar ceiling

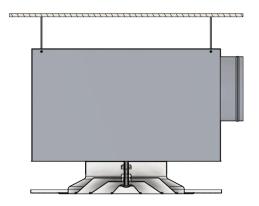


Installation in continuous ceiling











Order code

Example on how to place an order

