

**SRR-D
(RAL9010)**

- Ceiling diffusers
- Circular
- Aluminium + ABS
- White, RAL 9010



Round ceiling diffusers type SRR-D (RAL9010)

Round ceiling diffusers with adjustable cones

Application

- For supply and exhaust air in ventilation and air conditioning systems.

Material

- Aluminium + ABS

Colour

- White, RAL 9010

Composition

- Adjustable rings
- Adjustable damper in plastic

Mounting

- Direct mounting by the collar in the duct

Accessories

- Clips mounting system **SRR-DMC** for plasterboard ceiling

Text for tender

- The circular ceiling diffusers shall have adjustable diffusion rings. External cone shall be made of aluminium with white powder coated finish RAL 9016, central cone, screw and volume control damper made of ABS
- **Cairox** type **SRR-D**

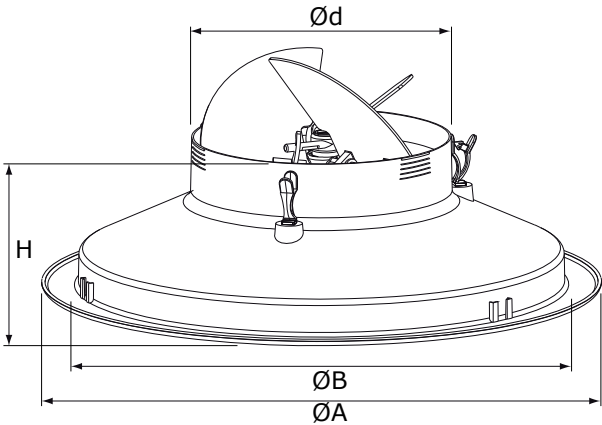
Order example

■ SRR-D, 200

Explanation

SRR-D = Type diffuser

200 = Size diffuser (Ø diffuser neck connection)



SRR-D	Ød [mm]	Dimensions			H [mm]
		ØA [mm]	ØB [mm]		
160	158	335	310		105
200	198	423	395		118
250	248	517	490		135
315	313	640	615		145

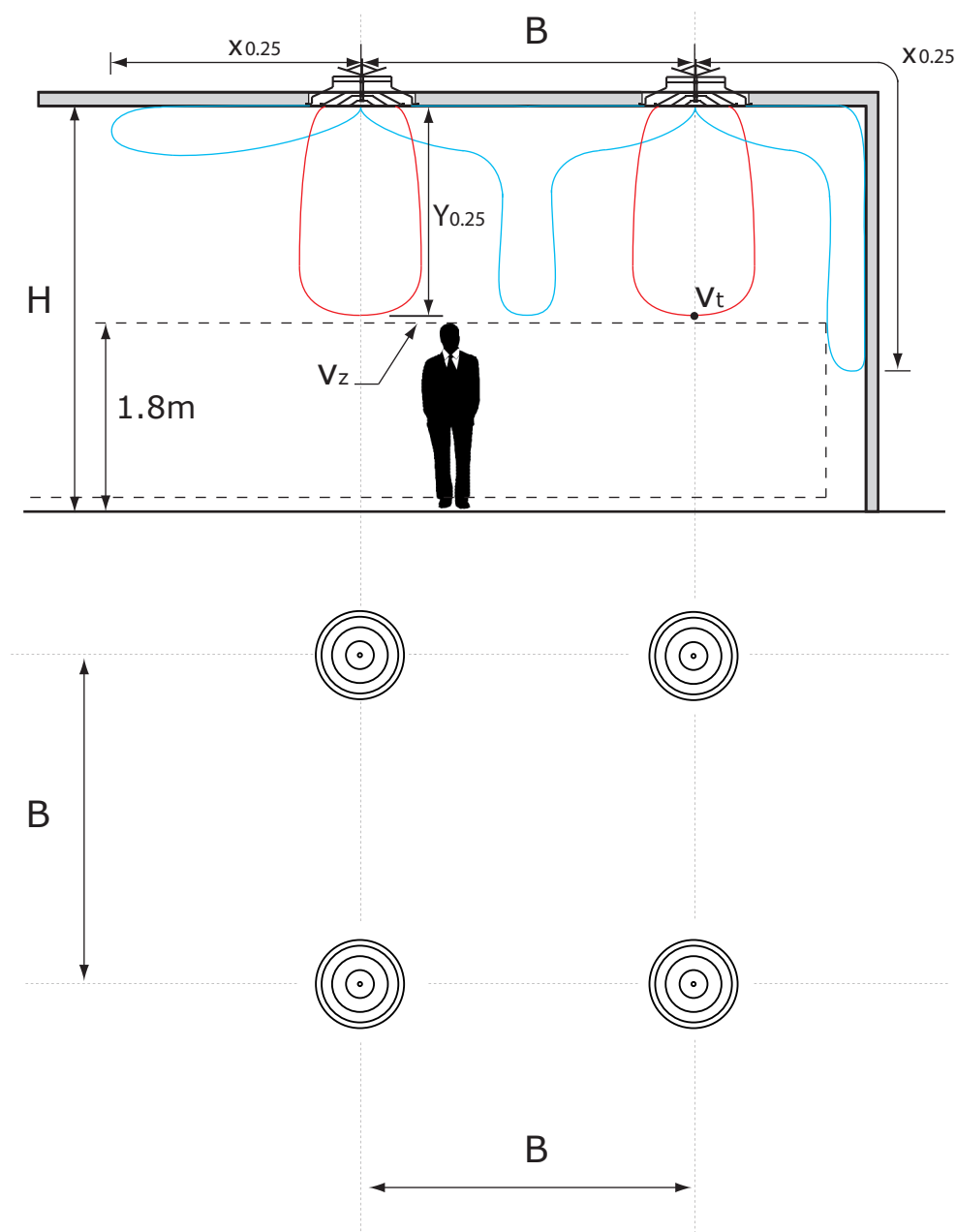
SRR-D				Quick selection											
Q	Ak răcire			160			200			250			315		
	Ak iarna			0.031			0.046			0.069			0.106		
				0.029			0.042			0.06			0.088		
200	Vz	B		1.2	2.4	3.6	1.2	2.4	3.6	2.4	3.6	4.2	3.6	4.2	4.8
		H= 2.7	0.43	0.31	0.24	0.33	0.24	0.18							
		H= 3.2	0.32	0.25	0.2	0.25	0.19	0.15							
	H= 3.8		0.25	0.2	0.17	0.19	0.15	0.13							
	Vk răcire			1.8			1.2								
	Vk iarna			1.9			1.3								
	X0,25			2.6			2								
	Y0,25 @Dt +10K			2.3			1.4								
	Ps răcire			5			2								
	Ps încălzire			16			7								
300	Vz	H= 2.7	0.64	0.46	0.36	0.49	0.35	0.27	0.26	0.2	0.18				
		H= 3.2	0.48	0.37	0.3	0.37	0.28	0.23	0.21	0.17	0.16				
		H= 3.8	0.37	0.3	0.25	0.28	0.23	0.19	0.17	0.15	0.13				
	Vk răcire			2.7			1.8								
	Vk încălzire			2.9			2								
	X0,25			3.9			3								
	Y0,25 @Dt +10K			3.2			2.8								
	Ps răcire			12			5								
	Ps încălzire			36			16								
	Lw(A) răcire			27			<20								
400	Vz	H= 2.7	0.86	0.61	0.48	0.66	0.47	0.37	0.35	0.27	0.25	0.18	0.17	0.15	
		H= 3.2	0.64	0.5	0.4	0.49	0.38	0.31	0.28	0.23	0.21	0.15	0.14	0.13	
		H= 3.8	0.5	0.4	0.34	0.38	0.31	0.26	0.23	0.19	0.18	0.13	0.12	0.11	
	Vk răcire			3.6			2.4								
	Vk încălzire			3.8			2.6								
	X0,25			5.2			3.9								
	Y0,25 @Dt +10K			4.2			3.4								
	Ps răcire			21			8								
	Ps încălzire			62			27								
	Lw(A) răcire			37			26								
600	Vz	H= 2.7	1.29	0.92	0.72	0.99	0.71	0.55	0.53	0.41	0.37	0.29	0.26	0.24	
		H= 3.2	0.97	0.74	0.6	0.74	0.57	0.46	0.43	0.35	0.32	0.25	0.23	0.21	
		H= 3.8	0.74	0.6	0.51	0.57	0.46	0.39	0.35	0.29	0.27	0.21	0.19	0.18	
	Vk răcire			5.4			3.6								
	Vk încălzire			5.7			4								
	X0,25			7.7			5.9								
	Y0,25 @Dt +10K			6			4.7								
	Ps răcire			47			18								
	Ps încălzire			137			63								
	Lw(A) răcire			52			40								
800	Vz	H= 2.7				1.32	0.94	0.73	0.7	0.55	0.49	0.39	0.35	0.32	
		H= 3.2				0.99	0.76	0.62	0.57	0.46	0.42	0.32	0.3	0.27	
		H= 3.8				0.76	0.62	0.52	0.46	0.39	0.36	0.27	0.25	0.24	
	Vk răcire						4.8								
	Vk încălzire						5.3								
	X0,25						7.9								
	Y0,25 @Dt +10K						6.1								
	Ps răcire						32								
	Ps încălzire						110								
	Lw(A) răcire						50								

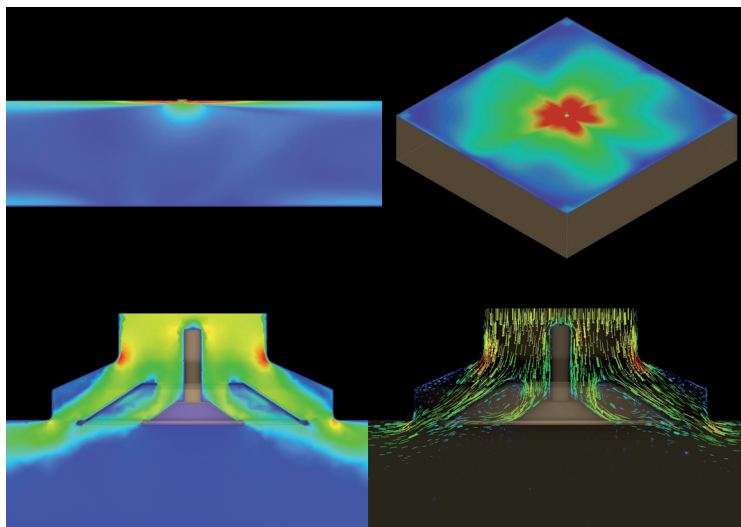
Symbols and specifications

- Q = Air Volume in m³/h
- Ak winter = Effective surface (free area) in m² given at the upper position of the inner adjustable cone
- Ak summer = Effective surface (free area) in m² given at the lower position of the inner adjustable cone
- B = Distance between diffusers in m
- H = Installation height of the diffusers in m
- Vz = Maximum velocity at the occupied zone, given for cooling at the lower position of the inner adjustable cone, regarding the distance between diffusers and installation height in m/s
- Vk winter = Average effective velocity for Ak winter through the diffuser in m/s
- Vk summer = Average effective velocity for Ak summer through the diffuser in m/s
- X0.25 = Horizontal throw in m at an endvelocity Vt of 0,25m/s isothermal at the lower position of the inner cone
- Y0.25 = Vertical throw in m at an endvelocity Vt of 0,25m/s with a temperature difference of +10K at the upper position of the inner cone
- Ps winter = Static pressure loss for Ak winter given in Pa
- Ps summer = Static pressure loss for Ak summer given in Pa
- Lw(A) winter = Acoustic power for Ak winter in dB(A)
- Lw(A) summer = Acoustic power for Ak summer in dB(A)
- The throw X0.25 is given at an end velocity of 0.25m/s for a smooth ceiling without any obstacles.
- In order to achieve a high comfort level, selections can be made according to the maximal velocity at the occupied zone Vz. These values are given at distances between diffusers B and installation heights H. Velocities Vz lower than, or equal to 0,25m/s at the occupied zone are advised.
- The pressure losses Ps are given for grilles without damper or with fully opened damper.
- The acoustic power Lw(A) are given for grilles without damper or with fully opened damper without room attenuation. Acoustic powers below 20dB(A) are mentioned as "<20" in the tables.
- For all special requirements, please contact our engineering office.

Symbols and specifications

- See introduction pages

Placement instruction

CFD simulation Cooling**CFD simulation Heating**