

**SRR-D
(RAL9016)**

- Circular conical diffusers
- Circular
- Aluminium
- White, RAL 9016



Round ceiling diffusers type SRR-D (RAL9016)

Round ceiling diffusers with adjustable cones

Brand

- Cairox

Application

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

Material

- Aluminium
- Inner cone made of ABS

Colour

- White, RAL 9016
- Other colours available upon request

Composition

- Adjustable rings
- Adjustable damper in plastic

Mounting

- Direct mounting by the collar in the duct

Accessories

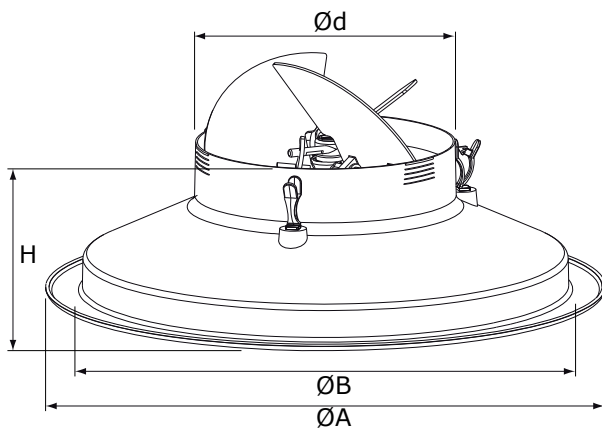
- Clips mounting system **SRR-DMC** for plasterboard ceiling

Text for tender

- The circular ceiling diffusers shall have adjustable diffusion rings. They shall be made of aluminium with white powder coated finish RAL 9016 and supplied with volume control damper
- **Cairox** type **SRR-D**

Order example■ **SRR-D, 200**

Explanation

SRR-D = Type diffuser**200** = Size diffuser (Ø diffuser neck connection)

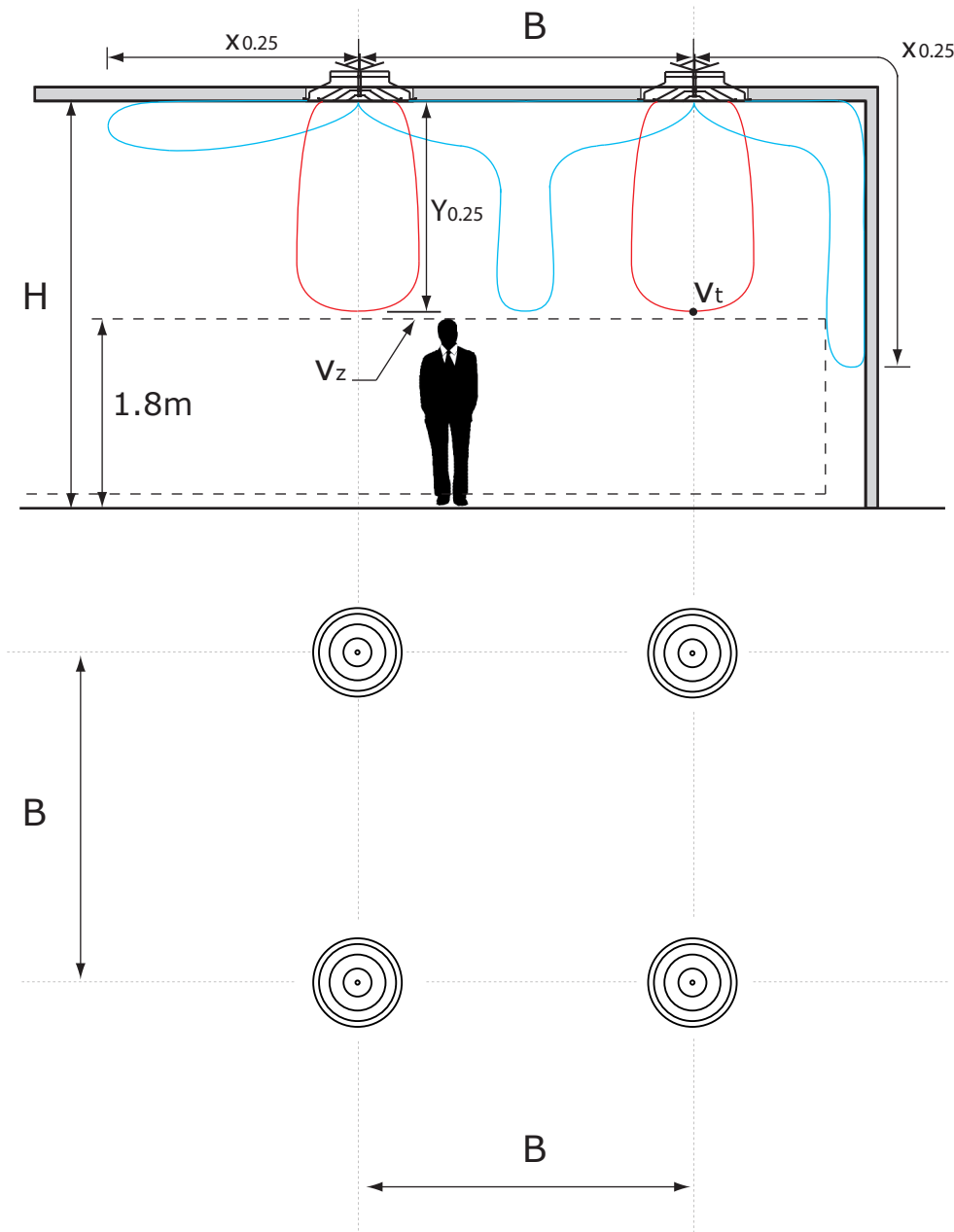
SRR-D	Ød [mm]	Dimensions		
		ØA [mm]	ØB [mm]	H [mm]
160	158	335	310	105
200	198	423	395	118
250	248	517	490	135
315	313	640	615	145

		Quick selection													
Q	SRR-D		160			200			250			315			
	Ak summer	Ak winter	0.031			0.046			0.069			0.106			
			0.029			0.042			0.06			0.088			
	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	
200	Vz	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 summer	1.8			1.2									
		Vk winter	1.9			1.3									
		X0,25	2.6			2									
		Y0,25 @Dt +10K	2.3			1.4									
		Ps summer	5			2									
		Ps winter	16			7									
		Lw(A) summer	<20			<20									
	Lw(A) winter	30			<20										
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 summer	2.7			1.8									
		Vk winter	2.9			2									
		X0,25	3.9			3									
		Y0,25 @Dt +10K	3.2			2.8									
		Ps summer	12			5									
		Ps winter	36			16									
		Lw(A) summer	27			<20									
	Lw(A) winter	44			33										
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 summer	3.6			2.4									
		Vk winter	3.8			2.6									
		X0,25	5.2			3.9									
		Y0,25 @Dt +10K	4.2			3.4									
		Ps summer	21			8									
		Ps winter	62			27									
		Lw(A) summer	37			26									
	Lw(A) winter	54			43										
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 summer	5.4			3.6									
		Vk winter	5.7			4									
		X0,25	7.7			5.9									
		Y0,25 @Dt +10K	6			4.7									
		Ps summer	47			18									
		Ps winter	137			63									
		Lw(A) summer	52			40									
	Lw(A) winter	68			57										
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 summer				4.8									
		Vk winter				5.3									
		X0,25				7.9									
		Y0,25 @Dt +10K				6.1									
		Ps summer				32									
		Ps winter				110									
		Lw(A) summer				50									
	Lw(A) winter				67										

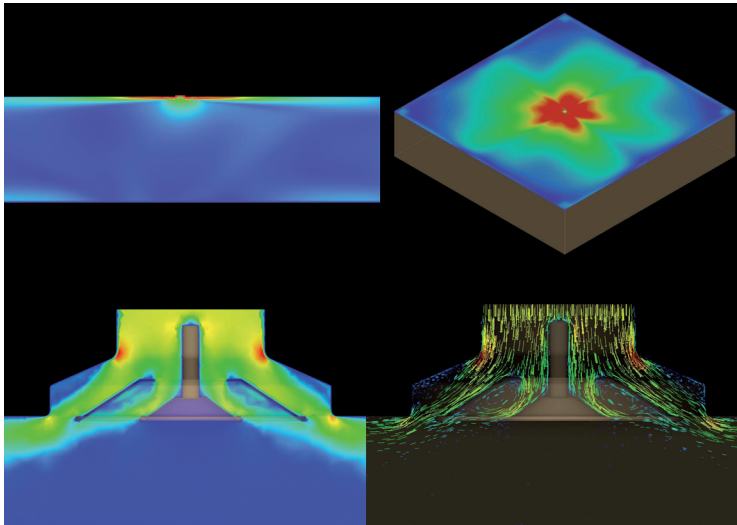
Symbols and specifications

- 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.

Placement instruction



CFD simulation Cooling



CFD simulation Heating

