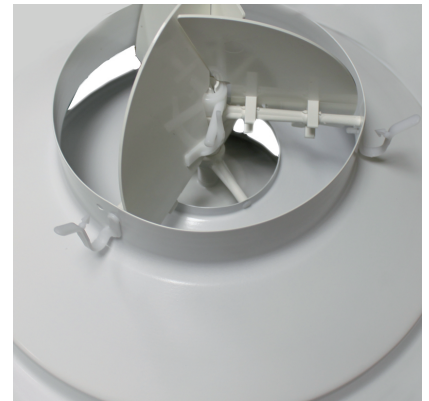
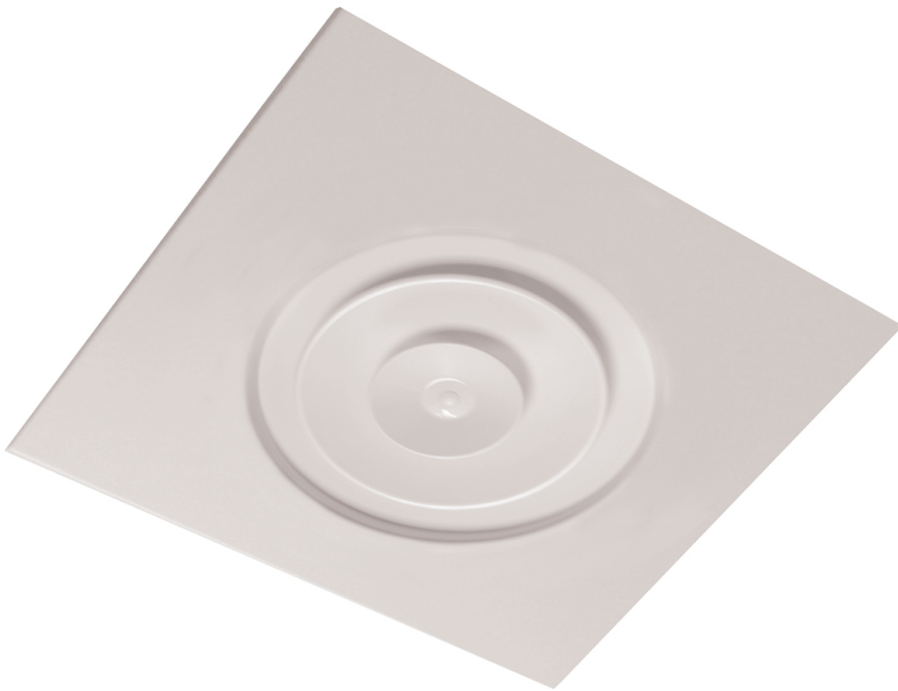


**PS/SRR-D
(RAL9016)**

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



Round ceiling diffusers type PS/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

Colour

- White, RAL 9016

Composition

- Adjustable rings
- Adjustable damper in plastic

Mounting

- Direct mounting by the collar in the duct

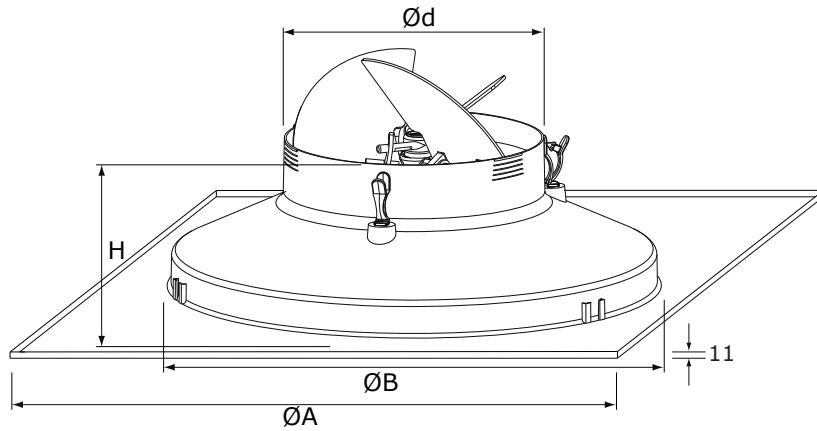
Order example

- SRR-D, 200

Explanation

SRR-D = Diffuser

200 = Size connection



PS/SRR-D	Dimensions			
	Ød [mm]	A [mm]	ØB [mm]	H [mm]
160	158	595x595	310	105
200	198	595x595	395	118
250	248	595x595	490	135
315	313	595x595	615	145

Quick selection														
PS/SRR-D			160			200			250			315		
	Q	Ak summer	0.031			0.046			0.069			0.106		
		Ak winter	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			1.2						
	Vk winter	2.9			2			1.4						
	X0,25	3.9			3			2.2						
	Y0,25 @Dt +10K	3.2			2.8			2						
	Ps summer	12			5			2						
	Ps winter	36			16			8						
	Lw(A) summer	27			<20			<20						
Lw(A) winter	44			33			21							
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			1.6			1			
	Vk winter	3.8			2.6			1.9			1.3			
	X0,25	5.2			3.9			3			2			
	Y0,25 @Dt +10K	4.2			3.4			3.2			2.6			
	Ps summer	21			8			3			1			
	Ps winter	62			27			14			6			
	Lw(A) summer	37			26			<20			<20			
Lw(A) winter	54			43			31			<20				
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			2.4			1.6			
	Vk winter	5.7			4			2.8			1.9			
	X0,25	7.7			5.9			4.4			3.2			
	Y0,25 @Dt +10K	6			4.7			4.1			3.8			
	Ps summer	47			18			7			3			
	Ps winter	137			63			29			13			
	Lw(A) summer	52			40			27			<20			
Lw(A) winter	68			57			45			32				
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			3.2			2.1			
	Vk winter				5.3			3.7			2.5			
	X0,25				7.9			5.9			4.2			
	Y0,25 @Dt +10K				6.1			5			4.5			
	Ps summer				32			12			5			
	Ps winter				110			51			22			
	Lw(A) summer				50			37			23			
Lw(A) winter				67			55			42				

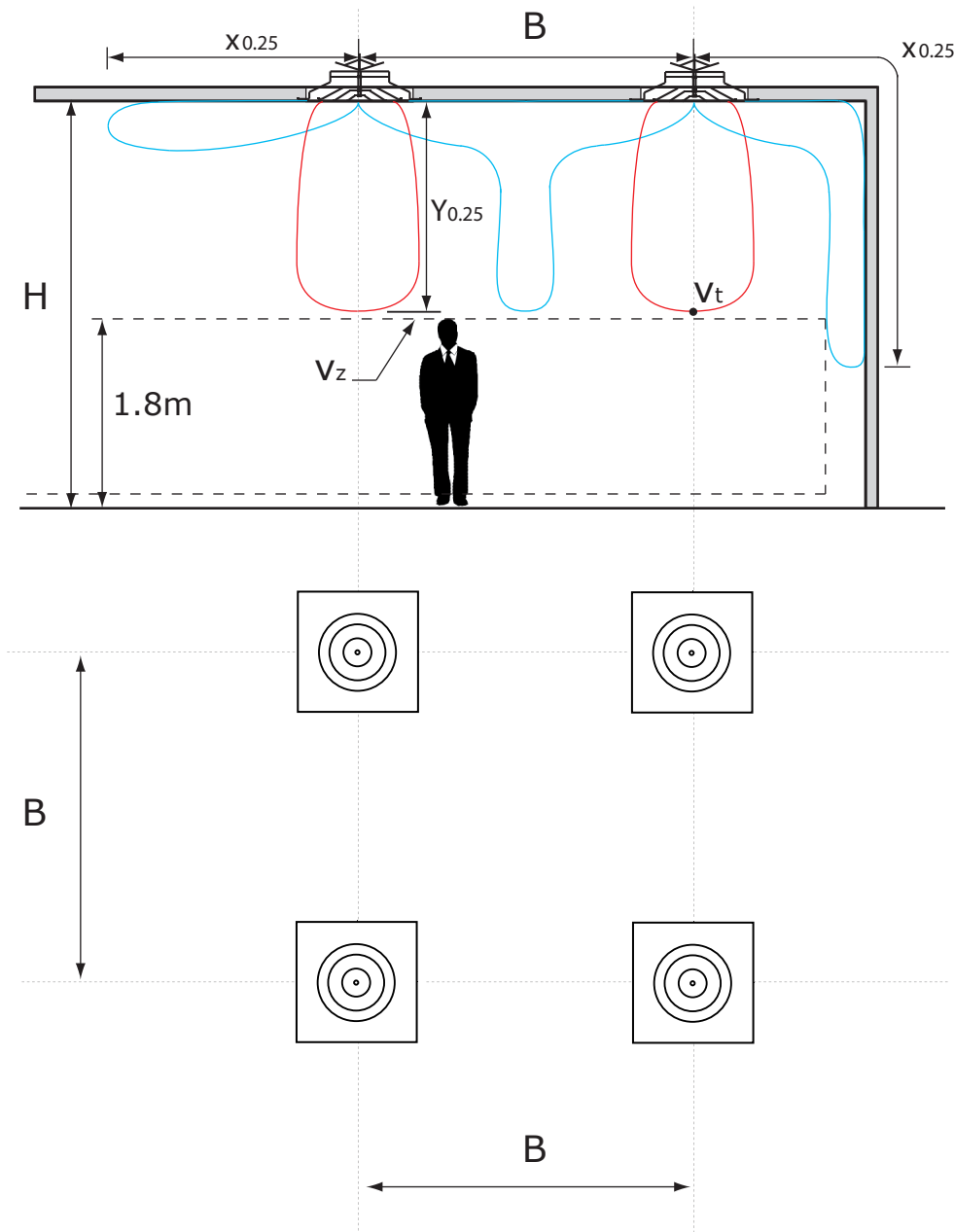
Symbols and specifications

- 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

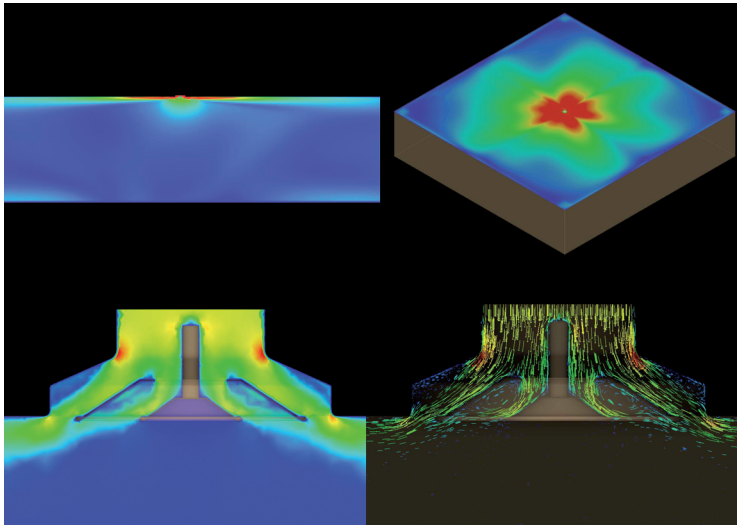
- H = Installation height of the diffusers in m
- V_z = Maximum velocity at the occupied zone, given for cooling at the lower position of the inner adjustable cone, regarding the distance between diffusers and installation height in m/s
- V_k winter = Average effective velocity for A_k winter through the diffuser in m/s
- V_k summer = Average effective velocity for A_k summer through the diffuser in m/s
- X0.25 = Horizontal throw in m at an endvelocity V_t of 0,25m/s isothermal at the lower position of the inner cone
- Y0.25 = Vertical throw in m at an endvelocity V_t of 0,25m/s with a temperature difference of +10K at the upper position of the inner cone
- P_s winter = Static pressure loss for A_k winter given in Pa
- P_s summer = Static pressure loss for A_k summer given in Pa
- $L_w(A)$ winter = Acoustic power for A_k winter in dB(A)
- $L_w(A)$ summer = Acoustic power for A_k 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 V_z . These values are given at distances between diffusers B and installation heights H. Velocities V_z lower than, or equal to 0,25m/s at the occupied zone are advised.
- The pressure losses P_s are given for grilles without damper or with fully opened damper.
- The acoustic power $L_w(A)$ 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

