

- Cairox
- Circular diffuser
- Steel
- White, RAL 9016
- Volume Control Damper



Circular ceiling diffuser type PRC+RC

Circular ceiling diffuser with fixed diffusion rings

Application

- For air supply in ventilation and air conditioning systems.

Material

- Aluminium

Colour

- White, RAL 9016

Composition

- Fixed diffusion rings

Mounting

- Fixing directly on the collar
- Fixing with central screw

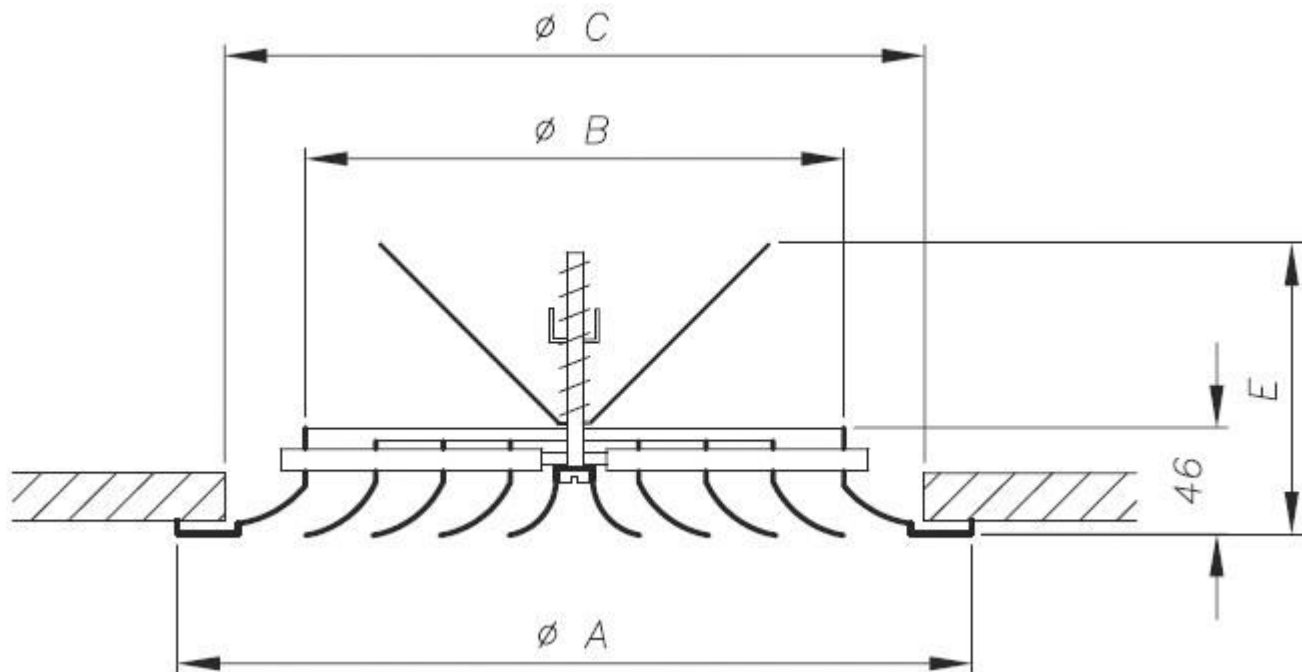
Order Example

- PRC+RC 200

Explanation

PRC+RC = Diffuser type

200 = Diffuser size (Ø diffuser neck connection)

Ceiling Diffusers
& Grilles

Dimensions			
PRC+RC	ØA [mm]	ØB [mm]	ØC [mm]
150	250	159	210
200	300	199	260
250	342	249	300
315	398	314	350

Quick selection					
Q	PRC+RC	150	200	250	315
	Ak	0.009	0.014	0.02	0.028
100	Vk	3.2			
	X0,25	0.7			
	Ps	4			
	Lw(A)	<20			
150	Vk	4.8	3		
	X0,25	1.1	0.9		
	Ps	9	4		
	Lw(A)	<20	<20		
200	Vk	6.4	4	2.8	
	X0,25	1.5	1.2	1	
	Ps	16	6	3	
	Lw(A)	29	<20	<20	
300	Vk	9.6	6	4.1	3
	X0,25	2.2	1.8	1.5	1.3
	Ps	37	15	7	4
	Lw(A)	43	29	<20	<20
400	Vk	12.8	8	5.5	4
	X0,25	3	2.4	2	1.7
	Ps	65	26	12	6
	Lw(A)	53	39	27	
500	Vk		10	6.9	5
	X0,25		3	2.4	2.1
	Ps		40	19	10
	Lw(A)		47	35	25
600	Vk			8.3	6
	X0,25			2.9	2.5
	Ps			27	14
	Lw(A)			41	32
700	Vk			9.6	7
	X0,25			3.4	2.9
	Ps			37	20
	Lw(A)			47	37
800	Vk				8
	X0,25				3.3
	Ps				26
	Lw(A)				42
900	Vk				9
	X0,25				3.8
	Ps				33
	Lw(A)				46
1000	Vk				
	X0,25				
	Ps				
	Lw(A)				

Symbols and specifications

- Q = Air Volume in m^3/h
- A_k = Effective surface (free area) in m^2
- V_k = Average effective velocity through the grill in m/s
- $X_{0.25}$ = Throw length in m at an endvelocity V_t of 0.25m/s
- P_s = Static pressure loss given in Pa
- $L_w(A)$ = Acoustic power in $\text{dB}(A)$
- The throw $X_{0.25}$ is given at an end velocity of 0.25m/s for a smooth ceiling without any obstacles.
- The values are given for isothermal supply air. Throw distances for cooling conditions at -11K can be calculated by deviding the $X_{0.25}$ values with factor 1.1. For heating purposes at Δt of $+11\text{K}$ a multiplier of 1.1 should be applied to the given $X_{0.25}$ value.
- 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 $20\text{dB}(A)$ are mentioned as " <20 " in the tables.
- For all special requirements, please contact our engineering office.

Placement instruction