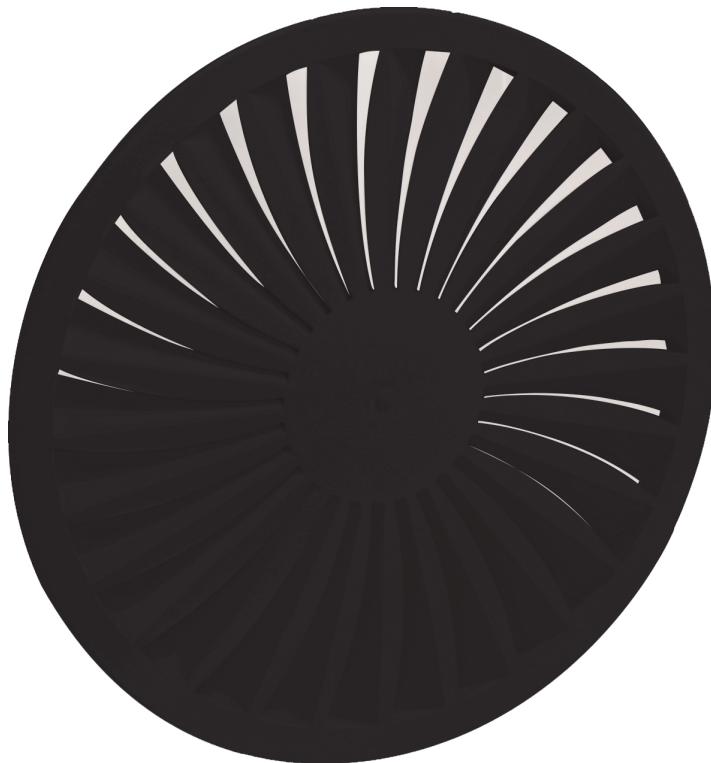


**RWR-FCSA
(RAL9005)**

- Swirl diffusers
- Circular
- Steel
- Black, RAL 9005



Black circular swirl diffusers with fixed curved blades type **RWR-FCSA (RAL9005)**

Swirl ceiling diffusers with high induction rate, consisting of a circular plate with multiple fixed curved blades arranged in a circular pattern, to be equipped with galvanized steel plenum box

Brand

- Cairox

Application

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

Material

- Steel

Colour

- Black, RAL 9005
- Other colours available upon request

Composition

- Front plate made of powder coated steel
- Central screw mounting

Mounting

- Fixing by central screw in the crossbar of the plenum box.

Accessories

- Circular plenum box, type **RER-B**
- Insulated circular plenum box, type **RER-B ISO**
- Regulating valve for plenum box, type **CRC**

Text for tender

- The ceiling swirl diffusers are round with fixed, curved blades with high induction power and horizontal discharge. The front grilles and blades are made of steel. The diffusers are powder-coated black in RAL 9005. They are mounted in an insulated or non-insulated round plenum by means of a central concealed screw

fixing. The galvanized steel plenums are provided with a perforated plate to obtain a homogeneous distribution over the grille and a flow regulator in the side connection.

■ Cairox type **RWR-FCSA (RAL9005) + RER-B(ISO) + CRC**

Order example

■ **RWR-FCSA (RAL9005), 600 + RER-B 600 + CRC 250**

Explanation

RWR-FCSA (RAL9005) = Diffuser type

600 = Diffuser size/swirl size

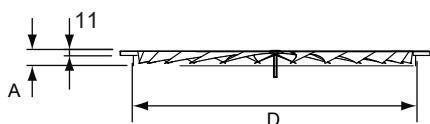
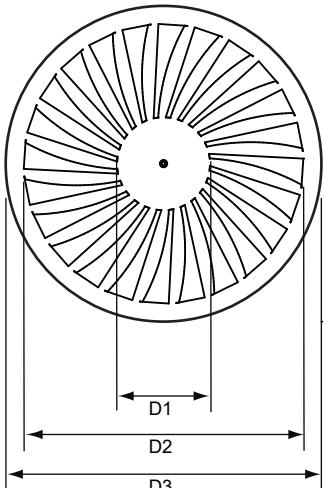
Accessories

RER-B = Type plenum box

600 = Size plenum box

CRC = Regulating valve for plenum box

250 = Plenum box connection diameter 250



	Dimensions					
	D [mm]	D1 [mm]	D2 [mm]	D3 [mm]	A	#Blades
RWR-FCSA 300	238	86	236	296	41	16
RWR-FCSA 400	338	140	336	396	41	22
RWR-FCSA 500	438	170	436	496	41	24
RWR-FCSA 600	538	170	536	596	22	24
RWR-FCSA 625*	538	170	536	621	22	24

* niet meer verkrijgbaar / n'est plus disponible / no longer available

Quick selection																
RWR-FCSA			300			400			500			600			625*	
Q	Ak		0.023			0.03			0.0465			0.07			0.07	
	B		1.2	2.4	3.6	1.2	2.4	3.6	1.2	2.4	3.6	1.2	2.4	3.6	1.2	2.4
100	Vz	H= 2.7	0.17	0.13	0.11											
		H= 3.2	0.14	0.11	0.09											
		H= 3.8	0.11	0.09	0.08											
	Vk			1.2												
150	Vz	X0,25		0.9												
		Ps		7												
		Lw(A)		<20												
	Vk															
200	Vz	X0,25		1.6			1.4									
		Ps		17			5									
		Lw(A)		26			<20									
	Vk															
250	Vz	X0,25		2.2			1.9			1.2						
		Ps		30			8			1.1						
		Lw(A)		34			<20			2						
	Vk															
300	Vz	X0,25		3.6			2.8			1.5						
		Ps		37			3.2			1.5						
		Lw(A)		67			19			3						
	Vk			47			24			<20						
400	Vz	X0,25		3.6			2.8			1.2						
		Ps		3.7			3.2			1.2						
		Lw(A)		47			19			2						
	Vk															
500	Vz	X0,25		4.6			3.7			1.6						
		Ps		4.7			4.7			1.9						
		Lw(A)		33			9			4						
	Vk			39			21			<20						
600	Vz	X0,25		4.6			3			2						
		Ps		6.4			4			2.7						
		Lw(A)		51			14			6						
	Vk			45			28			<20						
800	Vz	X0,25		4.6			3.6			2.4						
		Ps		7.9			5.2			3.6						
		Lw(A)		35			20			9						
	Vk			43			34			23						
1000	Vz	X0,25		4.8			3.2			3.2						
		Ps		7.9			5.6			5.6						
		Lw(A)		35			15			15						
	Vk			43			32			32						

Symbols and specifications

- Q = Air volume in m³/h
- Ak = Effective surface (free area) in m²
- B = Distance between the diffusers in m
- H = Installation height of the diffusers in m
- Vz = Maximum velocity at the occupied zone according to distance between the diffusers and installation height in m/s
- Vk = Average effective velocity through the diffuser in m/s
- X0,25 = Throw length in m at an end velocity Vt of 0,25m/s
- Ps = Static pressure loss given in Pa
- Lw(A) = Acoustic power in dB(A)
- The throw X0,25 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 dividing the X0,25 values with factor 1.1. For heating purposes at Dt of +11K a multiplier of 1.1 should be applied to the given X0,25 value.
- 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 diffusers without damper or with fully opened damper.

- The acoustic power values $Lw(A)$ are given for diffusers 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

