

**RWR-2
(RAL9016)**

- Swirl diffusers
- Circular
- Steel
- White, RAL 9016



Circular swirl diffusers with fixed blades type RWR-2 (RAL9016)

Circular swirl ceiling diffusers with flat frame and fixed blades

Brand

- Cairox

Application

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

Material

- Steel

Colour

- Standard colour white, RAL 9016
- Other colours available upon request

Composition

- Fixed blades

Mounting

- Fixing directly on the collar
- Fixing with central screw
- For the mounting of **RER-LB** and **RER-LB ISO**, the airtight connection between the diffuser and the plenum box is made halfway the upright collar of the diffuser. This is why the plenum box has to be installed at the right height before mounting the finishing grille.

Accessories

- Plenum box, type **RER-LB**
- Insulated plenum box, type **RER-LB ISO**
- Regulating valve for plenum box, type **CRC**
- Mounting crossbar for direct duct mounting, type **FGN**
- Mounting crossbar for direct ceiling mounting, type **FHN**

Text for tender

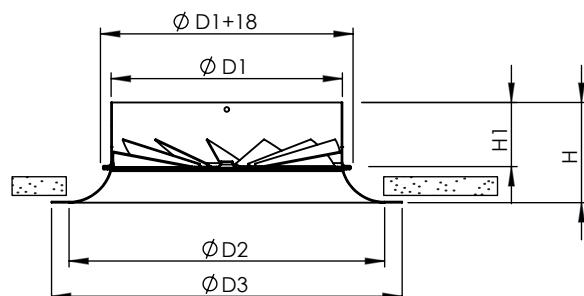
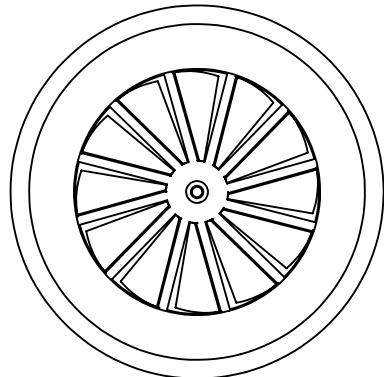
- The air supply diffusers are of the swirl type with a flat frame. They are made of steel with white powder coating RAL 9016 and supplied with a plenum box.
- **Cairox** type **RWR-2+RER-L**

Order example**■ RWR-2, 200 + RER-LB + CRC 250**

Explanation

RWR-2 = Diffuser type**200** = Neck size of diffuser

Accessories

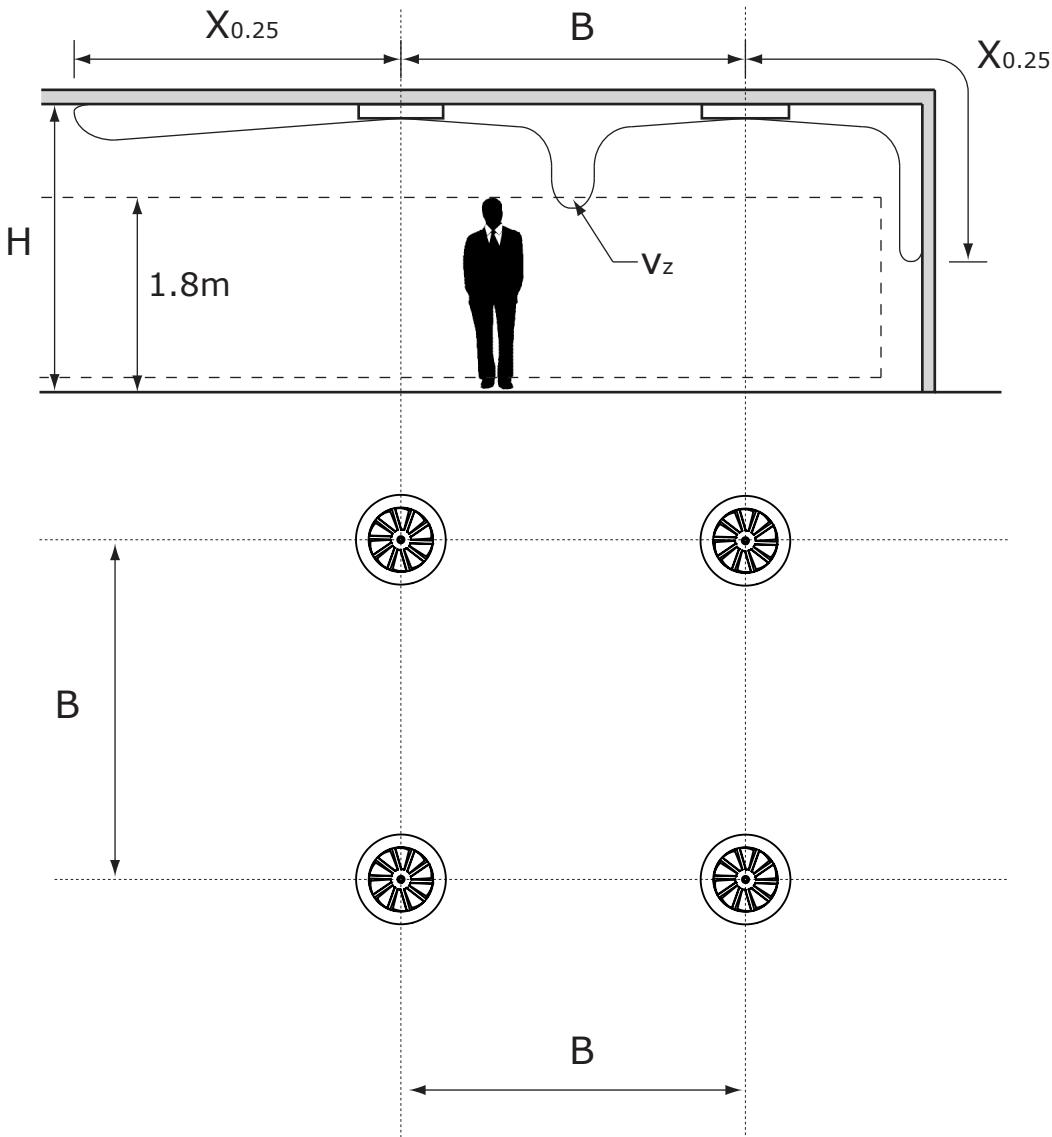
RER-LB = Plenum box**CRC** = Regulating valve for plenum box**250** = Plenum box connection diameter 250

Dimensions						
RWR-2	ØD1 [mm]	ØD2 [mm]	ØD3 [mm]	H [mm]	H1 [mm]	#Blades
100	98	134	150	74	45	10
125	123	170	190	86	55	10
160	158	220	250	86	55	10
200	198	270	300	86	55	10
250	248	320	350	86	55	10
315	313	385	415	86	55	10
355	353	425	455	100	65	10

Quick selection																											
RWR-2		100			125			160			200			250			315										
Q	Ak	0.0056			0.0086			0.0141			0.0224			0.0345			0.0537										
	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	3.6	1.2	2.4	3.6								
40	Vz	H= 2.7 H= 3.2 H= 3.8	0.51 0.28 0.16	0.25 0.16 0.1	0.15 0.1 0.07	0.28 0.14 0.08	0.13 0.08 0.05																				
	Vk		2				1.3																				
	X0,25		2.1				1.6																				
	Ps		24				10																				
60	Lw(A)		25				<20																				
	Vz	H= 2.7 H= 3.2 H= 3.8	0.77 0.42 0.24	0.38 0.24 0.16	0.22 0.16 0.11	0.4 0.21 0.11	0.18 0.07 0.05	0.31 0.16 0.09	0.14 0.09 0.05	0.08 0.05 0.04																	
	Vk		3				1.9																				
	X0,25		2.6				1.8																				
100	Ps		54				21																				
	Lw(A)		38				22																				
	Vz	H= 2.7 H= 3.2 H= 3.8	0.68 0.35 0.19	0.31 0.19 0.12	0.17 0.12 0.08	0.52 0.26 0.14	0.24 0.14 0.09	0.13 0.09 0.06	0.39 0.19 0.1	0.17 0.1 0.06	0.09 0.05 0.04																
	Vk		3.2				2																				
150	X0,25		2.3				1.8																				
	Ps		59				17																				
	Lw(A)		38				25																				
	Vz	H= 2.7 H= 3.2 H= 3.8	0.78 0.4 0.21	0.35 0.21 0.13	0.2 0.13 0.09	0.61 0.31 0.16	0.24 0.16 0.1	0.15 0.1 0.07	0.55 0.28 0.15	0.25 0.15 0.09	0.14 0.09 0.06																
200	Vk		3				1.9																				
	X0,25		2.4				2.2																				
	Ps		37				13																				
	Lw(A)		43				25																				
250	Vz	H= 2.7 H= 3.2 H= 3.8	0.81 0.4 0.22	0.36 0.22 0.13	0.2 0.13 0.09	0.73 0.37 0.2	0.33 0.12 0.08	0.18 0.12 0.08	0.53 0.26 0.14	0.23 0.14 0.08	0.12 0.08 0.05																
	Vk		1				2																				
	X0,25		2.7				2.6																				
	Ps		35				14																				
300	Lw(A)		40				27																				
	Vz	H= 2.7 H= 3.2 H= 3.8	1.1	0.55 0.3 0.3	0.49 0.18 0.12	0.27 0.22 0.13	0.37 0.22 0.09	0.2 0.13 0.09	0.47 0.21 0.1	0.3 0.18 0.11	0.16 0.11 0.07																
	Vk		2.4				1.6																				
	X0,25		2.8				2.5																				
350	Ps		20				8																				
	Lw(A)		33				5																				
	Vz	H= 2.7 H= 3.2 H= 3.8	1.28 0.65 0.35	0.57 0.35 0.21	0.32 0.21 0.14	0.96 0.47 0.25	0.42 0.25 0.15	0.22 0.15 0.1	0.22 0.15 0.1	0.22 0.13 0.09	0.16 0.11 0.07	0.11 0.12 0.07															
	Vk		2.8				1.8																				
400	X0,25		3				2.6																				
	Ps		27				10																				
	Lw(A)		37				22																				
	Vz	H= 2.7 H= 3.2 H= 3.8	1.47 0.74 0.39	0.66 0.39 0.24	0.36 0.24 0.16	1.11 0.55 0.29	0.49 0.29 0.17	0.26 0.29 0.17	0.26 0.28 0.14	0.26 0.28 0.11	0.12 0.14 0.08	0.12 0.14 0.05															
500	Vk		3.2				2.1																				
	X0,25		3.1				2.8																				
	Ps		35				14																				
	Lw(A)		41				27																				
	Vz	H= 2.7 H= 3.2 H= 3.8	1.38 0.68 0.36	0.6 0.36 0.21	0.32 0.21 0.14	0.83 0.37 0.18	0.32 0.21 0.1	0.16 0.12 0.06	0.16 0.12 0.06	0.16 0.12 0.06	0.16 0.12 0.06	0.16 0.12 0.06															
	Vk		2.6				2.1																				
	X0,25		3				2.3																				
	Ps		21	</td																							

- 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



RER-LB

- Plenum boxes
- Circular
- Steel



Circular plenum boxes type RER-LB

Circular galvanized steel plenum box **RER-LB** with crossbar. To be combined with (PS/)RWR-N, VWR-N, RWR-2 and PRN

Brand

- Cairox

Application

- Connection of circular ductwork and circular diffusers
- Velocity reduction towards diffusers
- Diffuser mounting on plasterboard or false system ceilings

Material

- Galvanized steel

Composition

- Circular plenum box made out of galvanized steel
- Circular side entry spigot
- Mounted crossbar with M6 screw connection in the middle
- Rubber seal between plenum box and diffuser to make an airtight connection

Accessories

- Circular regulating valve, type **CRC**

Order example

- **RER-LB, 200 + CRC 160**

Explanation

RER-LB = Plenum box type

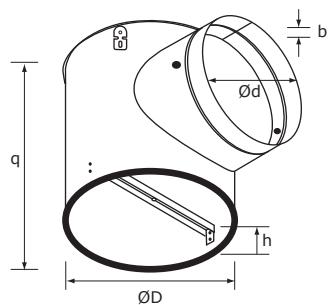
200 = Size according to diffuser (\varnothing diffuser neck connection)

Accessory

CRC 160 = Volume control damper for plenumbox connection $\varnothing 160$

Other available products

- Insulated plenum box type **RER-LB ISO**



Dimensions					
RER-LB	ØD [mm]	q [mm]	Ød [mm]	b [mm]	h [mm]
100	111	148	80	15	65
125	136	168	100	15	65
160	171	193	125	15	65
200	211	228	160	15	65
250	261	268	200	15	65
315	326	318	250	15	65
355	366	318	250	15	65
400	411	383	315	15	65
500	511	383	315	15	65