DFR-B – whirling anemostat

Type	Ø D [mm]	D [mm]	DFR-B SR	DFR-B RR	DFR-B SS
DFR-B 310	308	305×305	•	•	•
DFR-B 400	398	395×395	•	•	•
DFR-B 500	498	495×495	•	•	•
DFR-B 600	598	595×595	•	•	•
DFR-B 625	623	620×620	•	•	•
DFR-B 800	798	795×795	•	•	•

Technical parameters

Version
Swirling anemostats with adjustable slats.

Construction
Anemostats are made of galvanized sheet with white firing paint (RAL 9016). The slats are made made of plastic and are painted black (RAL 9005).

Installation
Anemostats are intended for installation in the ceiling for air supply and exhaust (without slats). Installation height 2.5–4.1 m.

Mounting
using a central screw or side screws (on request).

Accessories
Galvanized steel plenum boxes, standard or insulated. Feed boxes are standard with a regulation flap, perforated sheet metal and a bracket for fixing the plate anemostat. Drainage boxes are standard only with a bracket for mounting the anemostat plate (control flap on request).

PQZ-EKO / PQZI-EKO plenum boxes for DFR-B SS, DFR-B SR

throat	inlet				outlet			
A×A [mm]	Ø [mm]	PQZ-V EKO RE-S	PQZI-V EKO RE-S	PQZ-H EKO RE-S	PQZI-H EKO RE-S	PQZ-V EKO	PQZI-V EKO	PQZ-H EKO	PQZI-H EKO
310	123	•	•	•	•	•	•	•	•
400	148	•	•	•	•	•	•	•	•
500	198	•	•	•	•	•	•	•	•
600	248	•	•	•	•	•	•	•	•
625	298	•	•	•	•	•	•	•	•
800	348	•	•	•	•	•	•	•	•

PQZ / PQZI plenum boxes for DFR-B SS, DFR-B SR

throat	inlet				outlet			
A×B [mm]	Ø [mm]	PQZ-V RE-S	PQZI-V RE-S	PQZ-H RE-S	PQZI-H RE-S	PQZ-V	PQZI-V	PQZ-H	PQZI-H
310	123	•	•	•	•	•	•	•	•
400	148	•	•	•	•	•	•	•	•
500	198	•	•	•	•	•	•	•	•
600	248	•	•	•	•	•	•	•	•
625	298	•	•	•	•	•	•	•	•
800	348	•	•	•	•	•	•	•	•

PDC / PDCI plenum boxes for DFR-B RR

A×A [mm]	Ø D [mm]	Ø E [mm]	inlet		outlet	
			PDC RE-S	PDCI RE-S	PDC	PDCI
308	400	123	300	•	•	•	•
398	500	148	390	•	•	•	•
498	600	198	490	•	•	•	•
598	700	248	590	•	•	•	•
623	700	298	615	•	•	•	•
798	900	348	790	•	•	•	•

Type key for ordering

whirling anemostat

DFR-B 400 RR
1 2

1 – nemostat size
2 – execution
RR – circular panel
SR, **SS** – square panel
details (see slot geometry)

plenum boxes for DFR-B RR

PDC 398 RE-S
1 2 3 4

1 – execution
PDC – standard
PDCI – with 6 mm outer insulation
2 – dimensional series of the box
3 – **RE** – control damper (supply/exhaust)
4 – **S** – perforated plate (supply)

plenum boxes for DFR-B SS, SR

PQZ-V 600 RE-S
1 2 3 4 5

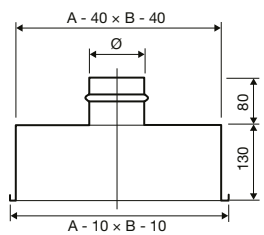
1 – implementation
PQZ – standard
PQZI – with 6 mm outer insulation
2 – connection
V – vertical
H – horizontal
3 – dimensional series of boxes
4 – **RE** – control damper (supply/exhaust)
5 – **S** – perforated plate (supply)

PQZ-V-EKO 600 RE-S
1 2 3 4 5

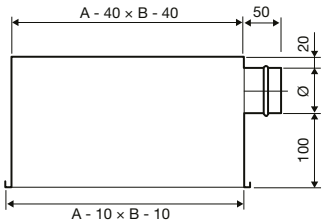
1 – type
PQZ – standard
PQZI – with Mirelon outer insulation
PQZX – with Armaflex outer insulation
2 – connection
V – vertical
H – horizontal
3 – dimensional series of boxes
4 – **RE** – control damper (supply/exhaust)
5 – **S** – perforated plate (supply)

Plenum boxes PQZ / PQZI / PQZ EKO / PQZI EKO pro DFR-B SS, SR

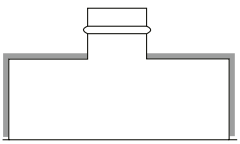
PQZ-V



PQZ-H



PQZI-V



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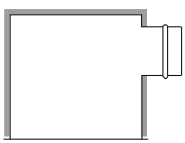
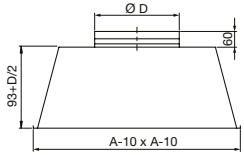
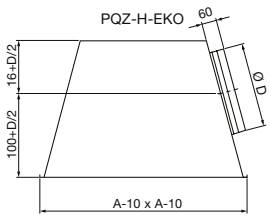


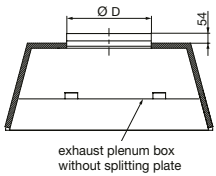
PQZ-V-EKO



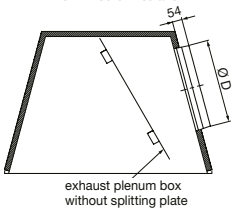
PQZ-H-EKO



PQZI-V-EKO
PQZX-V-EKO
with 6 mm outer insulation

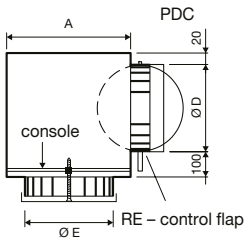


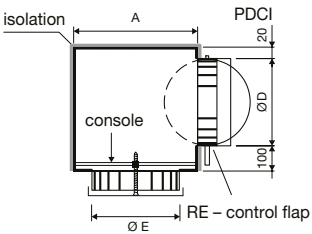
PQZI-H-EKO
PQZX-H-EKO
with 6 mm outer insulation



Plenum boxes PDC / PDCI pro DFR-B RR

PDC



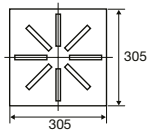
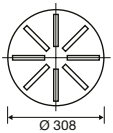
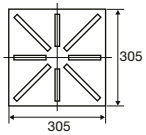
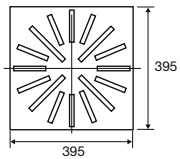
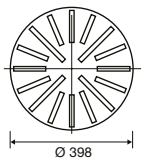
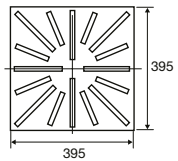
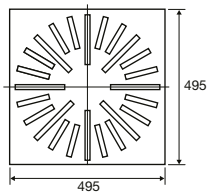
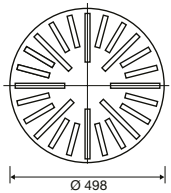
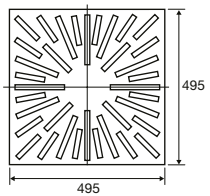
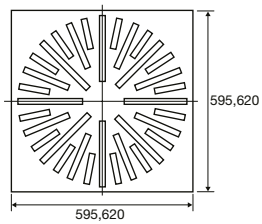
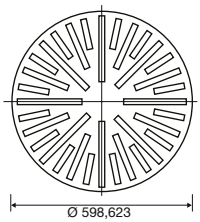
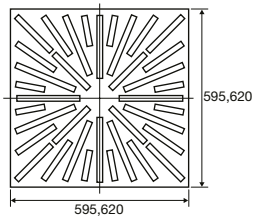
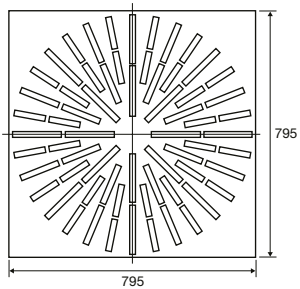
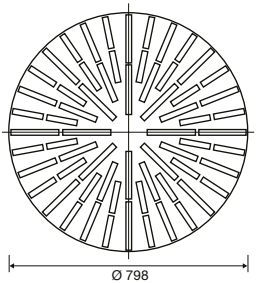
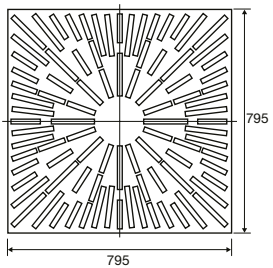


7²

DFR-B – whirling anemostat

Soler&Palau Ventilation Group

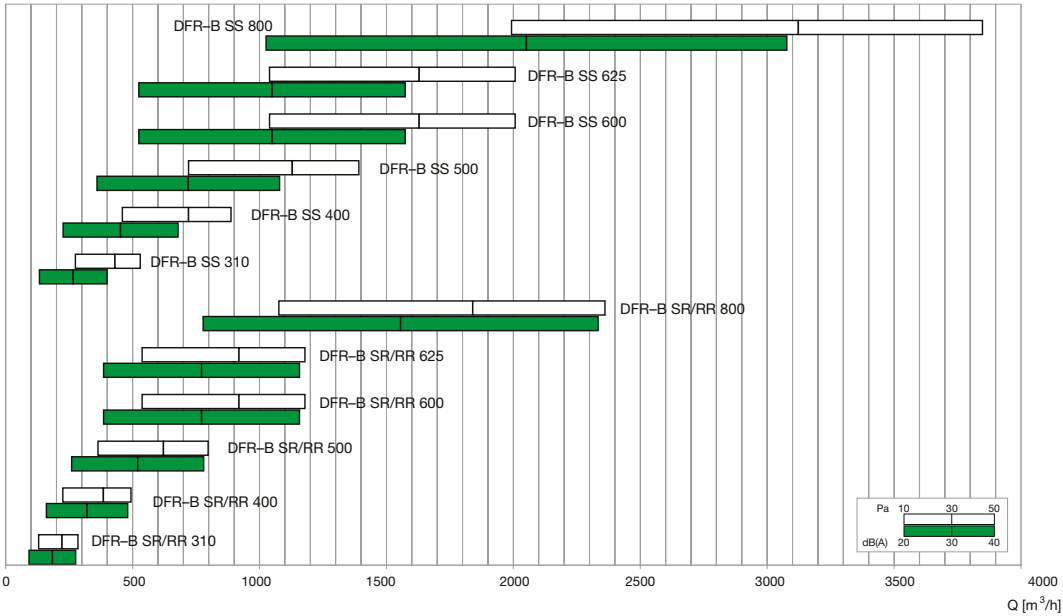
Additional illustration

	DFR-B SR	DFR-B RR	DFR-B SS
DFR-B 310			
DFR-B 400			
DFR-B 500			
DFR-B 600, 625			
DFR-B 800			

slot geometry

DFR-B – whirling anemostat

Quick Design Table



Type	A_k [m²]	Q [m³/h]		L_{WA} [dB(A)]		$X_{(0,20)}$ [m]		Δp_t [Pa]	
		min	max	min	max	min	max	min	max
DFR-B SR/RR 310	0,0128	130	290	24	41	1,3	2,9	10	50
DFR-B SR/RR 400	0,0223	230	490	24	41	1,8	3,8	10	50
DFR-B SR/RR 500	0,0361	360	800	24	41	2,2	4,8	10	50
DFR-B SR/RR 600	0,0536	540	1180	24	41	2,7	5,8	10	50
DFR-B SR/RR 625	0,0536	540	1180	24	41	2,7	5,8	10	50
DFR-B SR/RR 800	0,1081	1080	2360	24	40	3,8	8,2	10	50
DFR-B SS 310	0,0185	270	530	30	50	2,3	4,5	10	50
DFR-B SS 400	0,0315	460	890	30	49	3,0	5,7	10	50
DFR-B SS 500	0,0500	720	1390	30	49	3,7	7,1	10	50
DFR-B SS 600	0,0729	1040	2010	30	48	4,4	8,5	10	50
DFR-B SS 625	0,0729	1040	2010	30	48	4,4	8,5	10	50
DFR-B SS 800	0,1425	1990	3850	29	48	6,0	11,7	10	50

Explanatory notes:

Q [m³/h] air flow
A_k [m²] free discharge area
Δp_t [Pa] total pressure drop
L_{WA} [dB(A)] acoustic performance
$X_{(0,20)}$ [m] air flow range to obtain a comfortable air speed in the living area under isothermal conditions of 0.20 m/s