

# DFR-A – whirling anemostat



## Technical parameters

### Version

Swirling anemostats with adjustable slats.

### Construction

Anemostats are made of galvanized sheet with white firing paint (RAL 9010). The slats are 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. Inlet boxes come standard with a regulating valve, a perforated sheet and a bracket for mounting the anemostat plate. Drainage boxes are standard only with a bracket for mounting the anemostat plate (regulating flap on request).

type	Ø D [mm]	D [mm]	DFR-A S	DFR-A R
DFR-A 300x8	298	295x295	•	•
DFR-A 400x16	398	395x395	•	•
DFR-A 500x16	498	495x495	•	•
DFR-A 600x16	598	595x595	•	•
DFR-A 625x16	623	620x620	•	•
DFR-A 500x24	498	495x495	•	•
DFR-A 600x24	598	595x595	•	•
DFR-A 625x24	623	620x620	•	•
DFR-A 600x48	598	595x595	•	•
DFR-A 625x54	623	620x620	•	•
DFR-A 800x72	798	795x795	•	•
DFR-A 825x72	823	820x820	•	•

### PQZ-EKO / PQZI-EKO plenum boxes for DFR-A S

AxA [mm]	Ø [mm]	inlet				outlet			
		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
300	123	•	•	•	•	•	•	•	•
400	148	•	•	•	•	•	•	•	•
500	198	•	•	•	•	•	•	•	•
600	248	•	•	•	•	•	•	•	•
625	298	•	•	•	•	•	•	•	•
800	348	•	•	•	•	•	•	•	•
825	348	•	•	•	•	•	•	•	•

### PQZ / PQZI plenum boxes for DFR-A S

AxB [mm]	Ø [mm]	inlet				outlet			
		PQZ-V RE-S	PQZI-V RE-S	PQZ-H RE-S	PQZI-H RE-S	PQZ-V	PQZI-V	PQZ-H	PQZI-H
300	123	•	•	•	•	•	•	•	•
400	148	•	•	•	•	•	•	•	•
500	198	•	•	•	•	•	•	•	•
600	248	•	•	•	•	•	•	•	•
625	298	•	•	•	•	•	•	•	•
800	348	•	•	•	•	•	•	•	•
825	348	•	•	•	•	•	•	•	•

### PDC / PDCI plenum boxes for DFR-A R

	AxA [mm]	Ø D [mm]	Ø E [mm]	inlet		outlet	
				PDC RE-S	PDCI RE-S	PDC	PDCI
298	400	123	290	•	•	•	•
398	500	148	390	•	•	•	•
498	600	198	490	•	•	•	•
598	700	248	590	•	•	•	•
623	700	298	615	•	•	•	•
798	900	348	790	•	•	•	•
823	900	348	815	•	•	•	•

# DFR-A – whirling anemostat

**■ Type key for ordering**

whirling anemostat

DFR-A 400 × 16 R  
1 2 3

- 1 – anemostat size
- 2 – number of adjustable blades
- 3 – design
  - R – circular panel
  - S – square panel

plenum boxes for DFR-A R

PDC 398 RE-S  
1 2 3 4

- 1 – design
  - PDC – standard
  - PDCI – with external insulation 6 mm
- 2 – box size range
- 3 – RE – control damper (inlet/outlet)
- 4 – S – perforated sheet (inlet)

plenum boxes for DFR-A S

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

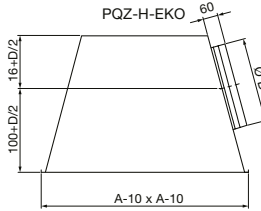
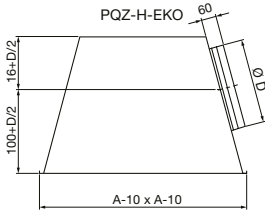
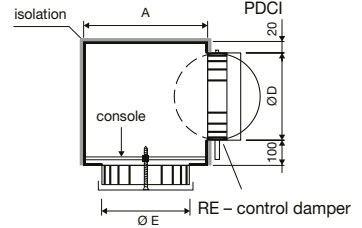
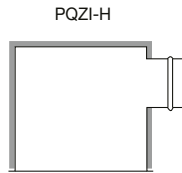
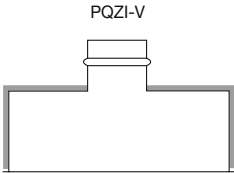
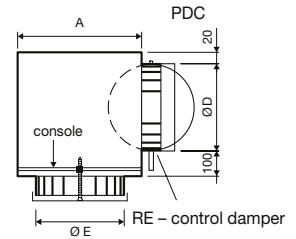
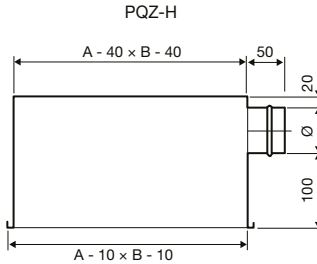
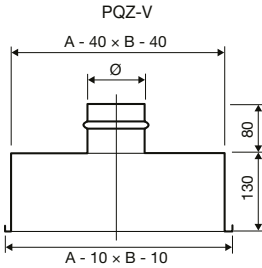
- 1 – design
  - PQZ – standard
  - PQZI – with external insulation 6 mm
- 2 – connection
  - V – vertical
  - H – horizontal
- 3 – dimensional range of boxes
- 4 – RE – control damper (inlet/outlet)
- 5 – S – perforated plate (inlet)

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

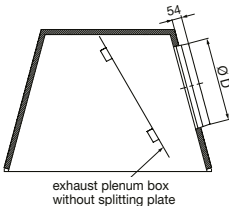
- 1 – type
  - PQZ – standard
  - PQZI – with external Mirelon insulation
  - PQZX – with external Armaflex insulation
- 2 – connection
  - V – vertical
  - H – horizontal
- 3 – dimensional range of boxes
- 4 – RE – control damper (inlet/outlet)
- 5 – S – perforated plate (inlet)

Plenum boxes PQZ / PQZI / PQZ EKO / PQZI EKO pro DFR-A S

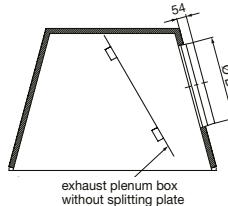
Plenum boxes PDC / PDCI pro DFR-A R



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

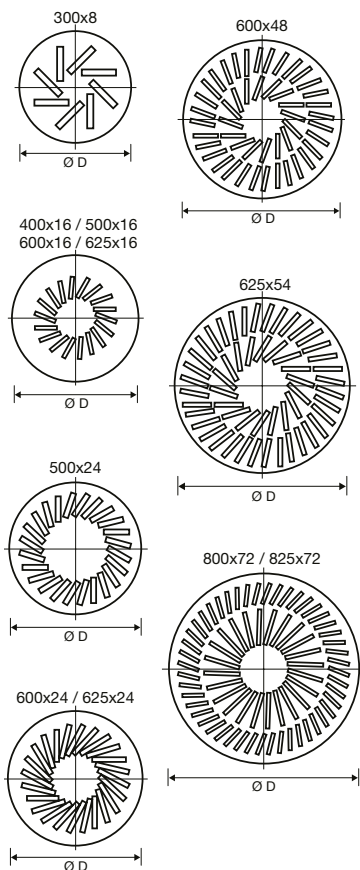
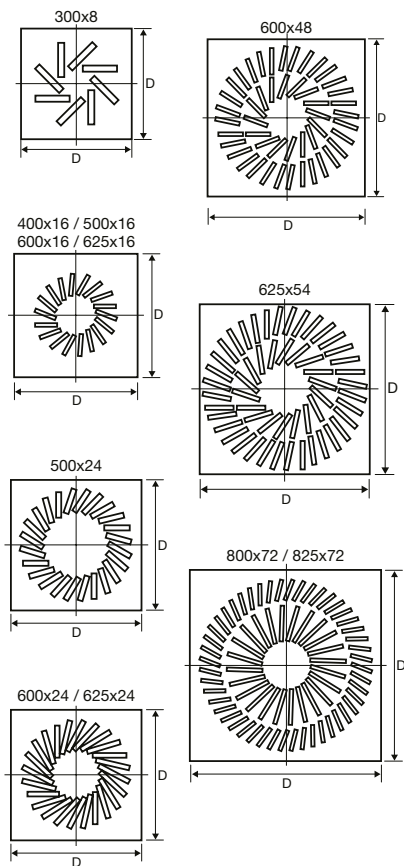


PQZI-H-EKO  
PQZX-H-EKO  
with 6 mm outer insulation

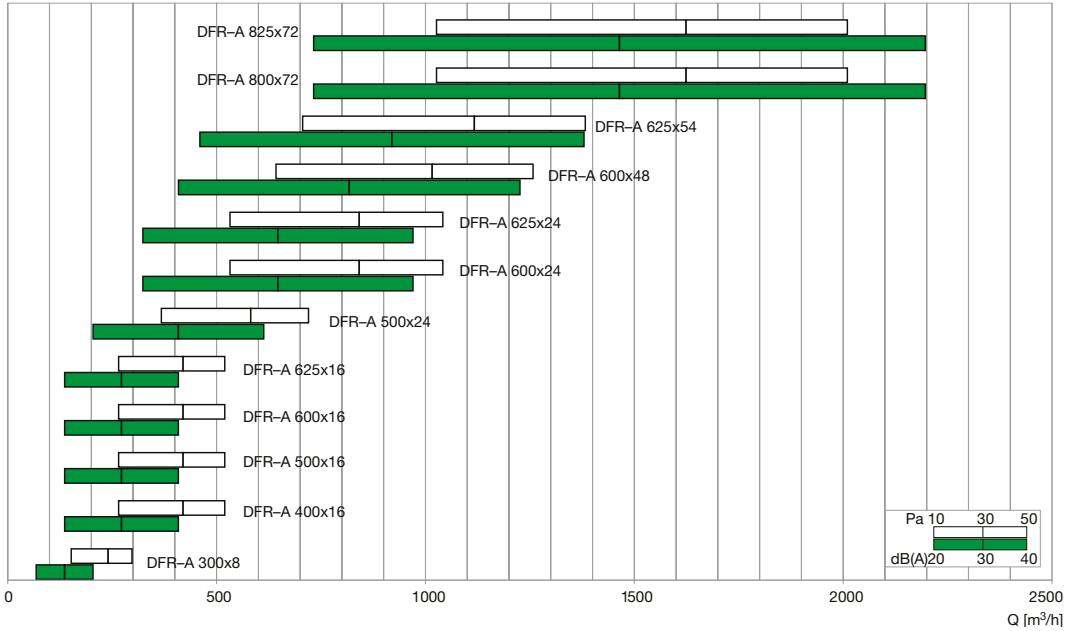


# DFR-A - whirling anemostat

## Additional illustration



# DFR-A – whirling anemostat

**Quick Design Table**


Type	A <sub>f</sub> [m <sup>2</sup> ]	Q [m <sup>3</sup> /h]		L <sub>WA</sub> [dB(A)]		X <sub>q,0.20</sub> [m]		Δp <sub>t</sub> [Pa]	
		min	max	min	max	min	max	min	max
DFR-A 300x8	0.0095	150	300	32	54	1.8	3.5	10	50
DFR-A 400x16	0.0189	270	520	30	48	2.2	4.3	10	50
DFR-A 500x16	0.0189	270	520	30	48	2.2	4.3	10	50
DFR-A 600x16	0.0189	270	520	30	48	2.2	4.3	10	50
DFR-A 625x16	0.0189	270	520	30	48	2.2	4.3	10	50
DFR-A 500x24	0.0284	370	720	28	45	2.5	4.9	10	50
DFR-A 600x24	0.0449	530	1040	26	42	2.9	5.6	10	50
DFR-A 625x25	0.0449	530	1040	26	42	2.9	5.6	10	50
DFR-A 600x48	0.0568	640	1260	26	41	3.1	6.1	10	50
DFR-A 625x54	0.0639	710	1380	25	40	3.2	6.3	10	50
DFR-A 800x72	0.1017	1030	2010	24	37	3.7	7.2	10	50
DFR-A 825x72	0.1017	1030	2010	24	37	3.7	7.2	10	50

**Explanatory notes:**

- Q [m<sup>3</sup>/h] air flow
- A<sub>f</sub> [m<sup>2</sup>] free discharge area
- Δp<sub>t</sub> [Pa] total pressure drop
- L<sub>WA</sub> [dB(A)] acoustic performance
- X<sub>q,0.20</sub> [m] air flow range to obtain a comfortable air speed in the living area under isothermal conditions of 0.20 m/s