

# DFR-E – vortex anemostat with fixed blades



## Technical parameters

### Version

Swirling anemostats with fixed blades.

### Construction

Anemostaty jsou vyrobeny z ocelového plechu opatřeného bílou vypalovací barvou (RAL 9010).

### Installation

Anemostats are made of steel sheet with white firing paint (RAL 9010).

### Mounting

using a central screw or side screws.

### 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).

Type	DFR-E-S	DFR-E-R	DFR-E-SS	DFR-E-RR
DFR-E 600	•	•	•	•
DFR-E 625	•	•	•	•

### PQZ-EKO / PQZI-EKO plenum boxes

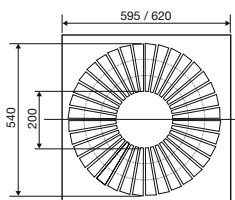
	throat								
AxA [mm]	Ø [mm]	PQZ-V EKO RE-S	PQZI-V EKO RE-S	PQZ-H EKO RE-S	PQZI-H EKO RE-S	PQZ-V EKO	PQZI-V EKO	PQZ-H EKO	PQZI-H EKO
600	248	•	•	•	•	•	•	•	•
625	298	•	•	•	•	•	•	•	•

### PQZ / PQZI plenum boxes

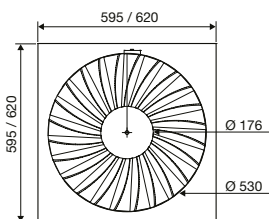
	throat								
AxB [mm]	Ø [mm]	PQZ-V RE-S	PQZI-V RE-S	PQZ-H RE-S	PQZI-H RE-S	PQZ-V	PQZI-V	PQZ-H	PQZI-H
600	248	•	•	•	•	•	•	•	•
625	298	•	•	•	•	•	•	•	•

### PDC / PDCI plenum boxes for DFR-E R, DFR-E RR

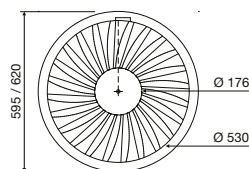
	AxA [mm]	Ø D [mm]	Ø E [mm]	inlet		outlet	
				PDC RE-S	PDCI RE-S	PDC	PDCI
598	700	248	590	•	•	•	•
623	700	298	615	•	•	•	•



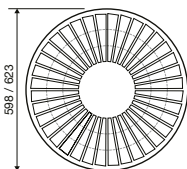
DFR-E-S



DFR-E-SS



DFR-E-RR



DFR-E-R

Type	A <sub>k</sub> [m <sup>2</sup> ]	Q [m <sup>3</sup> /h]		L <sub>wa</sub> [dB(A)]		X <sub>0,20</sub> [m]		Δp, [Pa]	
		min	max	min	max	min	max	min	max
DFR-E 600 S/R	0,0368	400	900	23	46	3,3	7,4	10	50
DFR-E 625 S/R	0,0368	400	900	23	46	3,3	7,4	10	50
DFR-E 625 SS/RR	0,0365	350	810	23	43	3,2	7,3	10	50
DFR-E 600 SS/RR	0,0365	350	810	23	43	3,2	7,3	10	50

# DFR-E – vortex anemostat with fixed blades

**■ Type key for ordering**

whirling anemostat

DFR - E - 600 R

1 2

1 – anemostat size

2 – implementation

S – square panel

R – circular panel

SS – Square panel with a different slot geometry

RR – circular panel with a different slot geometry

plenum boxes PQZ / PQZI

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)

plenum boxes PQZ EKO / PQZI EKO

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

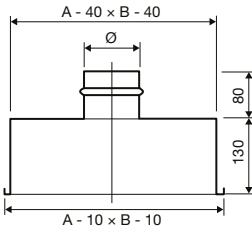
V – vertical

H – horizontal

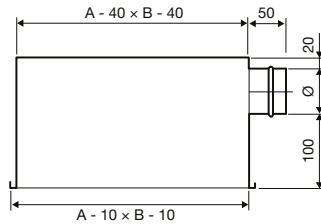
3 – dimensional series of boxes

4 – RE – control damper (supply/exhaust)

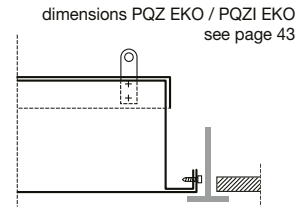
5 – S – perforated plate (supply)



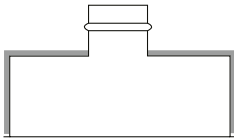
PQZ-V



PQZ-H

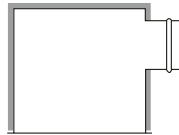


assembly detail

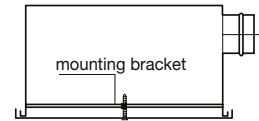


with external insulation  
(thickness 6 mm)

PQZI-V

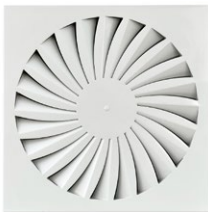


PQZI-H



assembly detail

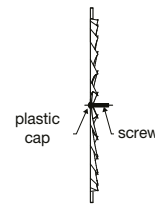
**Additional illustration**



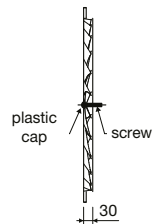
DFR-E-SS



DFR-E-S

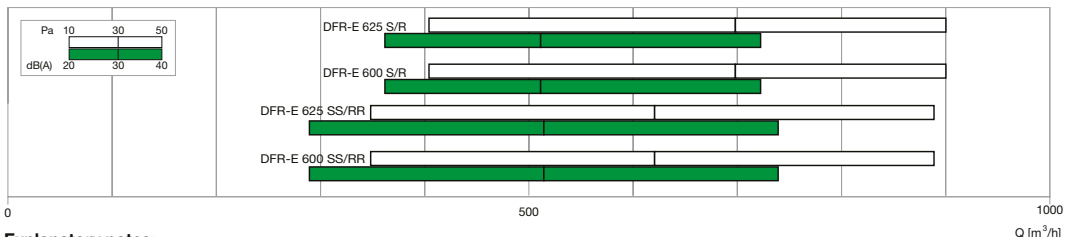


DFR-E-RR



DFR-E-SS

**Quick Design Table**



**Explanatory notes:**

Q [m³/h] – air flow; A<sub>x</sub> [m²] – free discharge area; Δp<sub>t</sub> [Pa] – total pressure drop; L<sub>w</sub> [dB(A)] – acoustic performance; X<sub>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