

DFR-E – vortex anemostat with fixed blades



Technical parameters

Version

Swirling anemostats with fixed blades.

Construction

Anemostats are made of steel sheet with white firing paint (RAL 9016).

Installation

The diffusers are designed for ceiling mounting for both supply and exhaust air. Installation height 2.6 – 4.0 m.

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

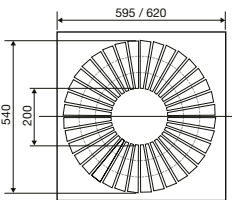
AxA [mm]	Ø [mm]	inlet				outlet			
		PQZ-V EKO RE-S	PQZI-V EKO RE-S	PQZ-H EKO RE-S	PQZI-H EKO RE-S	PQZ-V EKO	PQZI-V EKO	PQZ-H EKO	PQZI-H EKO
600	248	•	•	•	•	•	•	•	•
625	298	•	•	•	•	•	•	•	•

PQZ / PQZI plenum boxes

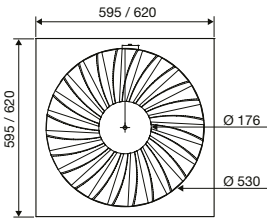
AxB [mm]	Ø [mm]	inlet				outlet			
		PQZ-V RE-S	PQZI-V RE-S	PQZ-H RE-S	PQZI-H RE-S	PQZ-V	PQZI-V	PQZ-H	PQZI-H
600	248	•	•	•	•	•	•	•	•
625	298	•	•	•	•	•	•	•	•

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

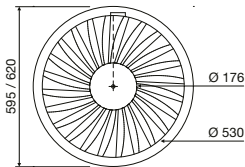
	AxA [mm]	Ø D [mm]	Ø E [mm]	inlet		outlet	
				PDC RE-S	PDCI RE-S	PDC	PDCI
598	700	248	590	•	•	•	•
623	700	298	615	•	•	•	•



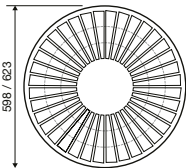
DFR-E-S



DFR-E-SS



DFR-E-RR



DFR-E-R

Type	A _k [m²]	Q [m³/h]		L _{wa} [dB(A)]		X _{10,20} [m]		Δp _i [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

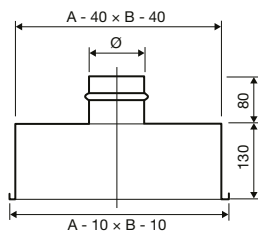
V – vertical

H – horizontal

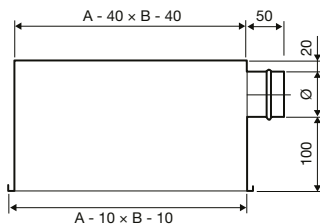
3 – dimensional series of boxes

4 – RE – control damper (supply/exhaust)

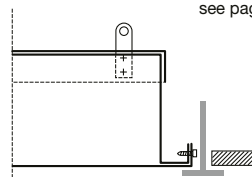
5 – S – perforated plate (supply)



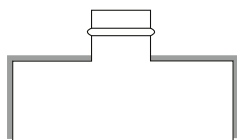
PQZ-V



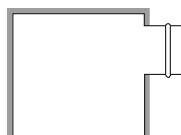
PQZ-H

dimensions PQZ EKO / PQZI EKO
see page 43

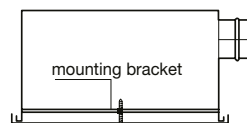
assembly detail

with external insulation
(thickness 6 mm)

PQZI-V



PQZI-H



assembly detail

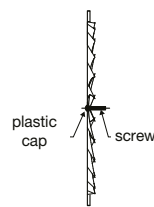
Additional illustration



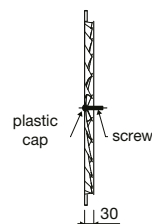
DFR-E-SS



DFR-E-S

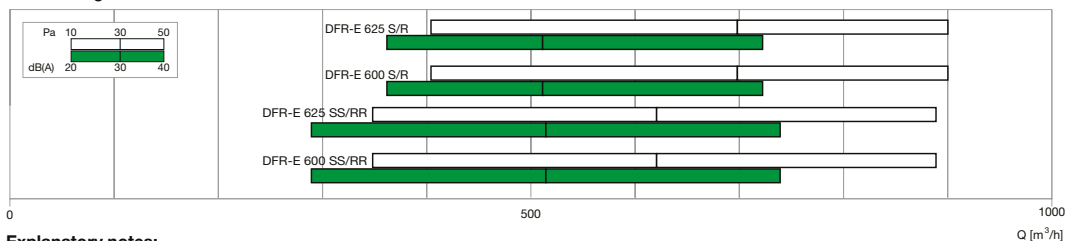


DFR-E-RR



DFR-E-SS

Quick Design Table



Explanatory notes:

Q [m³/h] – air flow; A_f [m²] – free discharge area; Δp, [Pa] – total pressure drop; L_w [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