

DRE-E – vortex anemostat with fixed blades



				inlet plenum box		outlet plenum box	
Type	DRE-E-R	DRE-E-S		PDC RE-S	PDCI RE-S	PDC	PDCI
DRE-E 100	•	–	•	•	•	•	•
DRE-E 125	•	•	•	•	•	•	•
DRE-E 160	•	•	•	•	•	•	•
DRE-E 200	•	•	•	•	•	•	•
DRE-E 250	•	•	•	•	•	•	•
DRE-E 315	•	•	•	•	•	•	•

Technical parameters

Version

Swirling anemostats with fixed blades.

Construction

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

Installation

Anemostats are intended for installation in the ceiling for air supply and exhaust. Installation height 2.8–4.6 m.

Mounting

using the screws located on the neck of the anemostat.

Accessories

Plenum boxes made of galvanized steel, standard or insulated, optionally with regulating flap or perforated sheet.

Type key for ordering

whirling anemostat

DRE - E 125 R

1 2

1 – anemostat size

2 – implementation

R – circular panel

S – square panel 595x595 mm

plenum box

PDC 200 RE S

1 2 3 4

1 – implementation

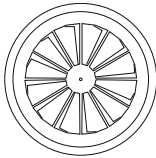
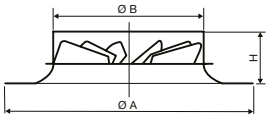
PDC – standard

PDCI – with external insulation of 6 mm

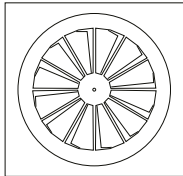
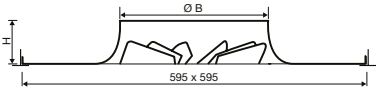
2 – box size range

3 – RE – control damper (inlet/outlet)

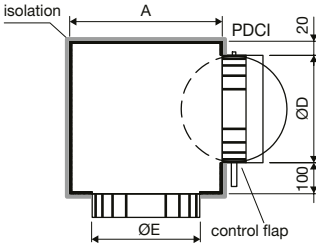
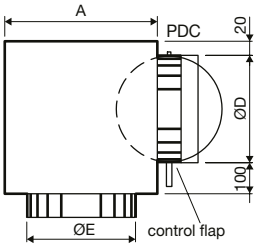
4 – S – perforated plate (supply)



DRE-E-R



DRE-E-S

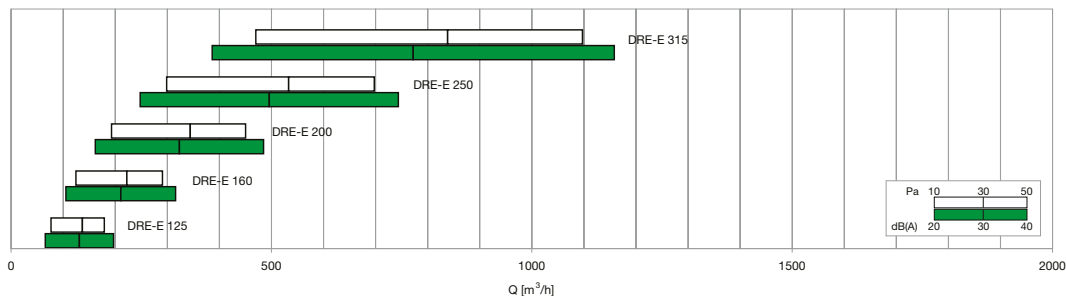


Plenum box PDC / PDCI

Type	DRE-E			PDC/PDCI		
	Ø A	Ø B	H	AxA	Ø D	Ø E
DRE-E 100	152	98	66	200×200	96	102
DRE-E 125	201	123	66	200×200	96	127
DRE-E 160	252	158	66	250×250	156	162
DRE-E 200	302	198	66	300×300	196	202
DRE-E 250	352	248	66	350×350	196	252
DRE-E 315	452	313	90	400×400	246	317

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Quick Design Table



Type	A_k [m²]	Q [m³/h]		L_{WA} [dB(A)]		$X_{(0,25)}$ [m]		Δp_t [Pa]	
		min	max	min	max	min	max	min	max
DRE-E 125	0,00912	80	180	22	37	0,36	0,81	10	50
DRE-E 160	0,01464	120	290	21	38	0,46	1,13	10	50
DRE-E 200	0,02245	190	450	22	38	0,63	1,50	10	50
DRE-E 250	0,03444	300	700	22	38	0,85	1,98	10	50
DRE-E 315	0,05364	470	1100	22	38	1,11	2,60	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
$X_{(0,25)}$ [m]	air flow range to obtain a comfortable air speed in the living area under isothermal conditions of 0.25 m/s