DRE-G – whirling anemostat

Technical parameters

Version
Swirling anemostats with adjustable slats.

Construction
Anemostats are made of aluminum, lamellas of sheet steel. The anemostat is equipped with white firing paint (RAL 9010).

Installation
Anemostats are intended for installation in the ceiling for air supply and exhaust. Installation height 2.5–20 m.

Mounting
using the screws located on the neck of the anemostat.

Accessories
Perforated sheet for anemostat. Galvanized steel plenum boxes, standard or insulated. Supply boxes are standard with regulating valve, perforated plate and bracket for fixing the anemostat plate. Drainage boxes are standard only with a bracket for mounting the anemostat plate (regulating flap on request).

Type key for ordering

whirling anemostat

DRE-G-E-M-200 LM24A

1 2 3 4

1 – implementation
without marking – standard
E – perforated sheet metal
2 – implementation
M – motorised adjustment of blades
S – square panel 595 × 595 mm
3 – anemostat size
4 – on request with pre-installed recommended actuator (only for M version)

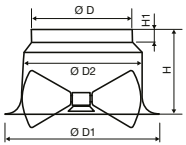
plenum box

PDC 200 G RE-S

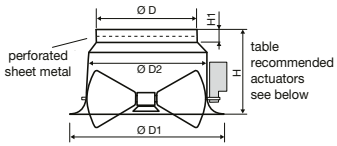
1 2 3 4

1 – implementation
PDC – standardní pro anemostat DRE-G
PDCI – with external insulation of 6 mm
2 – box size range
3 – **RE** – control damper (inlet/outlet)
4 – **S** – perforated plate (supply)

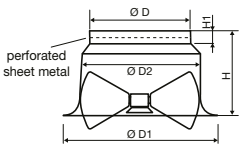
					inlet plenum box		outlet plenum box	
Type	DRE-G	DRE-G-E	DRE-G-E-M	DRE-G-E-S	PDC-G RE-S	PDCI-G RE-S	PDC -G	PDCI -G
DRE-G 200	•	•	•	•	•	•	•	•
DRE-G 250	•	•	•	•	•	•	•	•
DRE-G 315	•	•	•	•	•	•	•	•
DRE-G 400	•	•	•	–	•	•	•	•
DRE-G 500	•	•	•	–	•	•	•	•
DRE-G 630	•	•	•	–	•	•	•	•



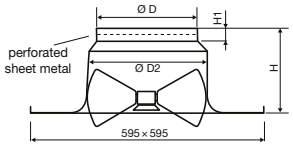
DRE-G



DRE-G-E-M



DRE-G-E



DRE-G-E-S

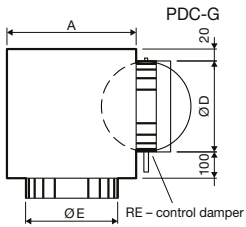
Type	Ø D [mm]	Ø D1 [mm]	Ø D2 [mm]	H [mm]	H1 [mm]
DRE-G 200	198	310	242	174	40
DRE-G 250	248	400	315	200	40
DRE-G 315	313	475	375	235	40
DRE-G 400	398	600	460	260	50
DRE-G 500	498	785	570	315	60
DRE-G 630	628	920	700	320	65

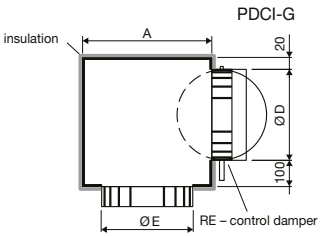
Table of recommended actuators for anemostat type DRE-G-E-M

Type	LM 24 A	LM 24 A-SR	NM 24 A	NM 24 A-SR	SM 24 A	SM 24 A-SR
DRE-G 200	•	•				
DRE-G 250	•	•				
DRE-G 315	•	•				
DRE-G 400			•	•		
DRE-G 500			•	•		
DRE-G 630					•	•

elektrodesign@elektrodesign.cz

Plenum boxes PDC-G / PDCI-G





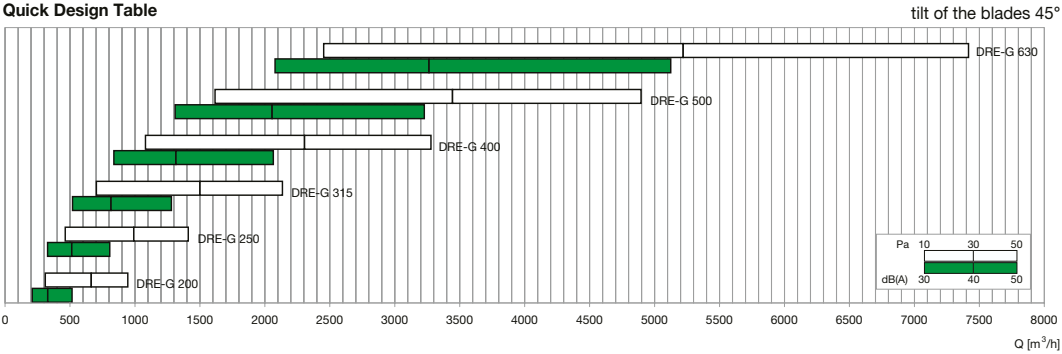
with external insulation (thickness 6 mm)

Type	A × A [mm]	Ø D [mm]	Ø E [mm]
PDC(I) 200 G	300×300	196	202
PDC(I) 250 G	350×350	246	252
PDC(I) 315 G	400×400	311	317
PDC(I) 400 G	500×500	351	403
PDC(I) 500 G	600×600	446	503
PDC(I) 630 G	700×700	496	633

Additional illustration

Quick Design Table

tilt of the blades 45°



Type	A_k [m²]	Q [m³/h]		L_{WA} [dB(A)]		$Y_{(0,25)}$ [m]		Δp_t [Pa]	
		min	max	min	max	min	max	min	max
DRE-G 200	0,0314	310	950	39	64	2,1	6,7	10	50
DRE-G 250	0,0491	460	1410	38	62	2,4	7,7	10	50
DRE-G 315	0,0779	700	2140	37	61	2,9	9,1	10	50
DRE-G 400	0,1257	1080	3280	36	60	3,6	11,2	10	50
DRE-G 500	0,1963	1620	4900	35	59	4,5	14,5	10	50
DRE-G 630	0,3117	2450	7420	34	58	6,1	20,9	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
$Y_{(0,25)}$ [m] air flow range to obtain a comfortable air speed in the living area under isothermal conditions of 0.25 m/s