

DRE-G-TR – anemostats with thermal regulation



Technical parameters

Version

Circular anemostats with thermal regulation.

Construction

The anemostats are made of aluminium, the slats are made of steel. The anemostat is coated with white firing paint (RAL 9016).

Installation

Anemostats are designed for wall or ceiling mounting, for air supply. Installation height 2,5–20 m.

Mounting

using the screws located on the neck.

Accessories

Plenum boxes made of galvanized steel, standard or insulated. Regulating flap and perforated sheet for plenum boxes.

Type key for ordering

anemostat with thermal control

DRE - G - TR - E - 250

1 2

- 1 – implementation
 without marking – standard design
 E – version with perforated sheet
 S – square plate with diameter
 595×595 mm

2 – anemostat size

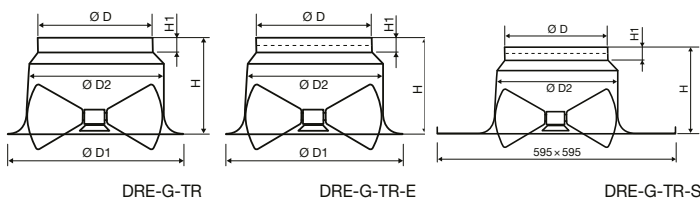
plenum box

PDC 250 G RE - S

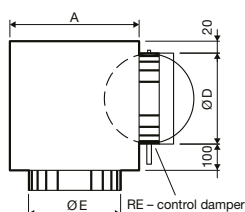
1 2 3 4

- 1 – implementation
 PDC – standard for 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)

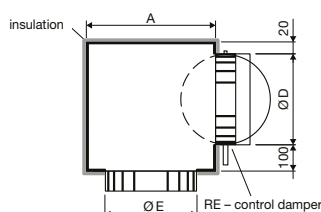
					inlet plenum box		outlet plenum box	
Type	DRE-G-TR	DRE-G-TR-E	DRE-G-TR-S		PDC-G RE-S	PDCI-G RE-S	PDC -G	PDCI -G
DRE-G-TR 200	•	•	•		•	•	•	•
DRE-G-TR 250	•	•	•		•	•	•	•
DRE-G-TR 315	•	•	•		•	•	•	•
DRE-G-TR 400	•	•	–		•	•	•	•
DRE-G-TR 500	•	•	–		•	•	•	•
DRE-G-TR 630	•	•	–		•	•	•	•



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



plenum box PDC-G



plenum box PDCI-G
 with external insulation (thickness 6 mm)

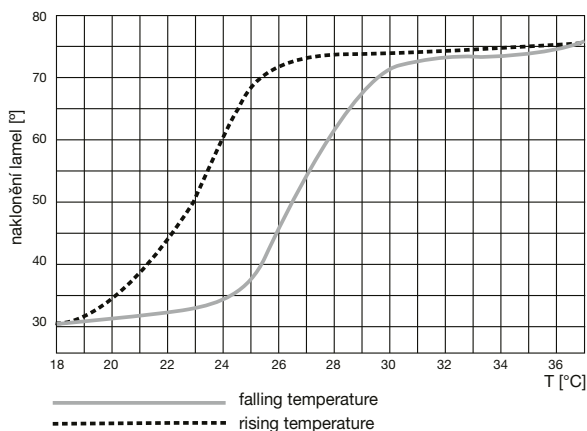
size	A x A [mm]	Ø D [mm]	Ø E [mm]
PDC(I) 200 G	300×300	196	202
PDC(I) 250 G	350×350	246	252
PDC(I) 315 G	400×400	311	317
PDC(I) 400 G	500×500	351	403
PDC(I) 500 G	600×600	446	503
PDC(I) 630 G	700×700	496	633

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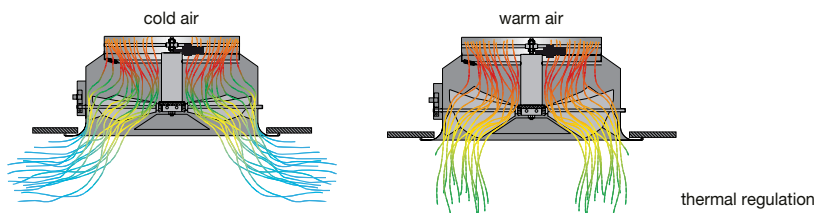
Characteristics

Thermal regulation

The thermostat is equipped with a thermal control that adjusts the inclination of the blades. When warm air is supplied, the blades are adjusted so that the air flow is directed vertically downwards. When cold air is supplied, changing the tilt of the blades changes the airflow to horizontal. This control takes place over a temperature range of 15–30 °C.

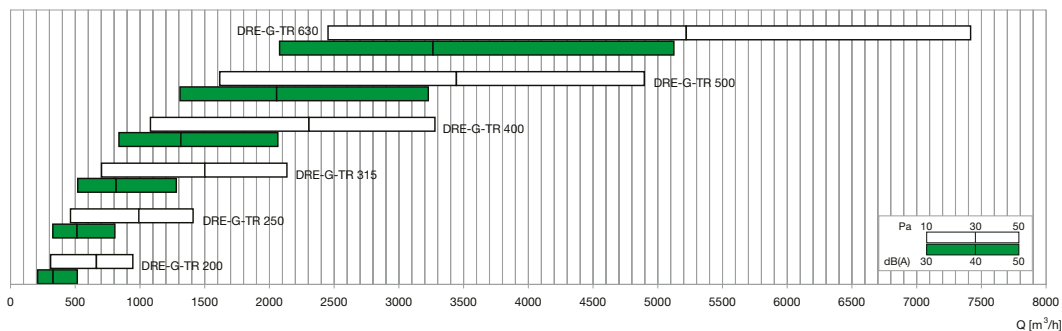


Additional illustration



Quick Design Table

tilt of the blades 45°



Explanatory notes:

Q [m³/h] air flow
 A_k [m²] free discharge area
 Δp [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