DRE-C – circular anemostat with adjustable cone

Soler&Palau Ventilation Group

Technical parameters

Version
Circular anemostat with adjustable center cone. The anemostat can also be supplied in a version with a square plate intended for coffered ceilings (type S).

Construction
The anemostat is made of aluminum, the central cone is made of steel. The anemostat is equipped with a white firing color (RAL 9016), other RAL colors on request. The TR variant is with thermal regulation, where the geometry of the cones changes thanks to the thermocouple. At supply air temperature above 30°C directs the air stream vertically to the floor. When cold air is supplied with a difference of 16 °C, the air flow becomes horizontal.

Installation
Anemostats are intended for installation in the ceiling for air supply and exhaust. Installation height 2.7– 3.5 m.

Mounting
using hidden screws on the neck of the anemostat or using a plate in the cassette ceiling (type S).

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 key for ordering

circular anemostat with adjustable center cone

DRE-C-S-TR 200 SF
1 2 3 4

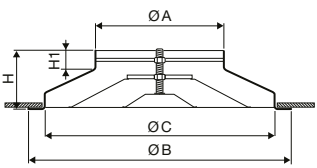
1 – without marking – standard design
S – square panel 595 × 595 mm
2 – **TR** – thermal regulation
3 – the size of the anemostat
4 – **SF** – check valve

plenum box

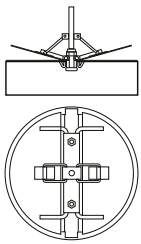
PDC 200 RE S
1 2 3 4

1 – **PDC** design – standard
PDCI – with 6 mm outer insulation
2 – dimensional series of the box
3 – **RE** – control damper (supply/exhaust)
4 – **S** – perforated plate (supply)

						inlet plenum box		outlet plenum box	
Type	**DRE-C**	**DRE-C-S**	**SF**	**DRE-C--TR**	**DRE-C -TR-S**	**PDC RE-S**	**PDCI RE-S**	**PDC**	**PDCI**
DRE-C 100	•	•	•	–	–	•	•	•	•
DRE-C 150	•	•	•	–	–	•	•	•	•
DRE-C 160	•	•	•	•	•	•	•	•	•
DRE-C 200	•	•	•	•	•	•	•	•	•
DRE-C 250	•	•	•	•	•	•	•	•	•
DRE-C 300	•	•	•	–	–	•	•	•	•
DRE-C 315	•	•	•	•	•	•	•	•	•
DRE-C 350	•	–	•	•	–	•	•	•	•
DRE-C 400	•	–	•	–	–	•	•	•	•
DRE-C 450	•	–	•	–	–	•	•	•	•
DRE-C 500	•	–	•	–	–	•	•	•	•
DRE-C 630	•	–	•	–	–	•	•	•	•

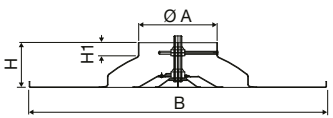


DRE-C



reverse flap SF

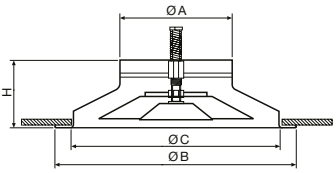
Type	**Ø A** [mm]	**Ø B** [mm]	**Ø C** [mm]	**H** [mm]	**H1** [mm]	**number of slats**
DRE-C 100	98	235	195	85	30	2
DRE-C 150	148	320	280	90	45	3
DRE-C 160	158	320	280	90	45	3
DRE-C 200	198	426	370	115	45	3
DRE-C 250	248	530	460	135	48	3
DRE-C 300	298	644	560	170	45	3
DRE-C 315	313	644	560	170	48	3
DRE-C 350	348	744	650	195	65	3
DRE-C 400	398	776	684	195	65	4
DRE-C 450	448	825	730	195	65	4
DRE-C 500	498	876	780	195	65	4
DRE-C 630	628	1045	943	185	65	5



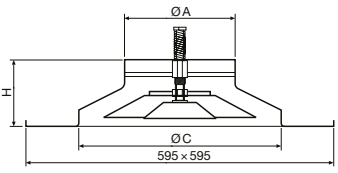
DRE-C-S

Type	**Ø A** [mm]	**B** [mm]	**H** [mm]	**H1** [mm]
DRE-C-S 100	96	596×596	85	33
DRE-C-S 150	146	596×596	90	23
DRE-C-S 160	156	596×596	90	28
DRE-C-S 200	196	596×596	115	37
DRE-C-S 250	246	596×596	135	37
DRE-C-S 300	296	596×596	115	45
DRE-C-S 315	311	596×596	115	44

DRE-C – circular anemostat with adjustable cone

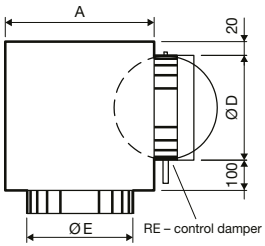


DRE-C-TR

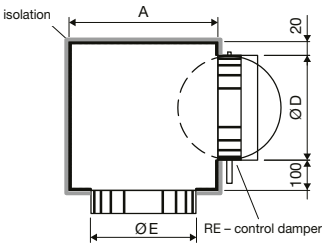


DRE-C-TR-S

Type	Ø A [mm]	Ø B [mm]	Ø C [mm]	H [mm]
DRE-C-TR 160	160	335	288	105
DRE-C-TR 200	200	423	370	118
DRE-C-TR 250	250	517	461	130
DRE-C-TR 315	315	640	576	146
DRE-C-TR 355	355	730	656	185



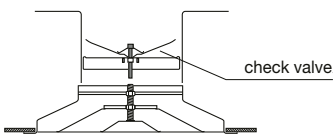
plenum box PDC

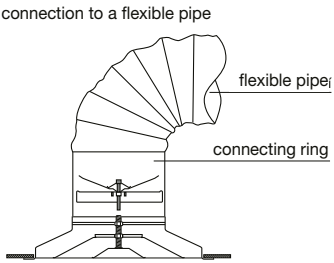


plenum box PDCI

Type	A × B [mm]	Ø D [mm]	Ø E [mm]
PDC(I) 100	200×200	96	102
PDC(I) 150	250×250	146	152
PDC(I) 160	250×250	156	162
PDC(I) 200	300×300	196	202
PDC(I) 250	350×350	196	252
PDC(I) 300	400×400	246	302
PDC(I) 315	400×400	246	317
PDC(I) 350	450×450	311	352
PDC(I) 400	500×500	311	402
PDC(I) 450	550×550	351	453
PDC(I) 500	600×600	396	503
PDC(I) 630	700×700	446	633

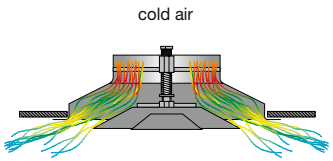
Additional illustration

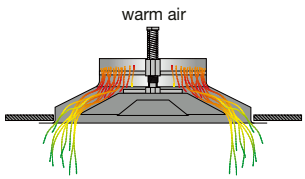




mounting

with mounting plate in grid DRE-C-S





Thermal regulation for DRE-C-TR

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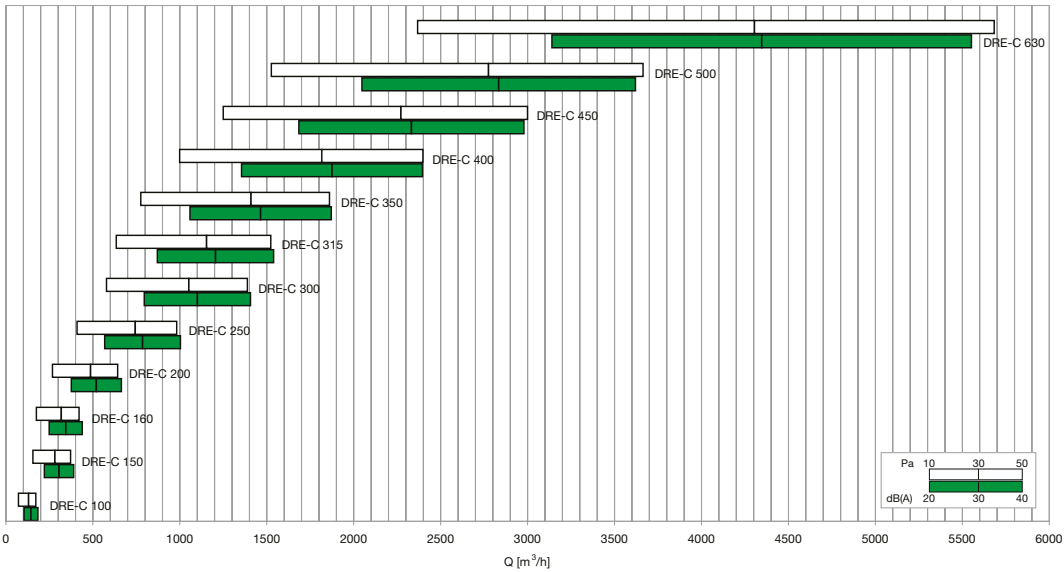
Quick Design Table

centre cone in central position



Type	A_k [m²]	Q [m³/h]		L_{WA} [dB(A)]		$X_{(0,25)} - Y_{(0,25)}$ [m]		Δp_t [Pa]	
		min	max	min	max	min	max	min	max
DRE-C 100	0,0073	70	170	–	36	0,7	1,8	10	50
DRE-C 150	0,0161	160	370	–	38	1,3	3,2	10	50
DRE-C 160	0,0183	180	420	–	38	1,5	3,6	10	50
DRE-C 200	0,0284	270	640	–	38	2,0	4,9	10	50
DRE-C 250	0,0440	410	980	–	39	2,7	6,7	10	50
DRE-C 300	0,0630	580	1390	–	39	3,6	8,7	10	50
DRE-C 315	0,0693	630	1520	–	39	3,8	9,3	10	50
DRE-C 350	0,0852	780	1860	–	40	4,5	10,8	10	50
DRE-C 400	0,1108	1000	2400	–	40	5,4	13,0	10	50
DRE-C 450	0,1397	1250	3000	–	40	6,3	15,3	10	50
DRE-C 500	0,1719	1530	3660	–	40	7,4	17,7	10	50
DRE-C 630	0,2707	2370	5680	–	41	10,2	24,5	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
$X_{(0,25)}$–$Y_{(0,25)}$ [m]	air flow range to obtain a comfortable air speed in the living area under isothermal conditions of 0.25 m/s