CBDT

Double inlet centrifugal fans, direct drive, to work inside the fire zone 400 ºC/2h and 300 ºC/2h

400 ºC/2h double inlet centrifugal extractor fans with direct drive motors for immersed operation in fire risk zones, with the option of a single-phase motor.

Fan:
- Galvanised steel sheet casing.
- Forward curved impeller in galvanised sheet steel.
- External terminal box.
- Approved in accordance with standard EN 12101-3, with certificate no.: 0370-CPR-0580.

Motor:
- Class H motors for S1 continuous operation and S2 emergency use. With ball bearings, IP55 protection and 1 or 2 speeds, depending on model.
- Single-phase 230 V 50 Hz and three-phase 230/400 V 50 Hz (up to 3 kW) and 400/690 V 50 Hz (powers greater than 3 kW).
- Maximum temperature of air to be carried: S1 continuous operation -25 ºC +60 ºC, S2 operation 300 ºC/2h, 400 ºC/2h.

Finish:
- Galvanised steel sheet.

On request:
- Fans with circular outlet.
- Fans with vertical outlet.

Order code

CBDT	—	12/12	—	6T	—	1	—	F400
CBDT: Double inlet centrifugal fans, direct drive, to work inside the fire zone 400 ºC/2h and 300 ºC/2h		Impeller size		Number of motor poles 4=1400 r/min 50 Hz 6=900 r/min 50 Hz M = Single-phase T = Three-phase		Motor power (HP)		F300: 300 ºC/2h approved F400: 400 ºC/2h approved

Technical characteristics

Model	Speed	Maximum admissible current (A)			Installed power	Maximum flow rate	Sound pressure level[1] dB(A)	Approx. weight
	(r/min)	230V	400V	690V	(kW)	(m³/h)	Inlet	(Kg)
CBDT-9/9-4T	1420	2,90	1,70		0,55	3000	59	24
CBDT-9/9-4M	1410	4,10			0,55	3000	59	23
CBDT-10/10-4T	1420	2,90	1,70		0,55	3450	61	26
CBDT-10/10-4M	1410	4,10			0,55	3450	61	25
CBDT-12/12-6T-1	940	4,40	2,60		0,75	4800	58	37
CBDT-12/12-6M-1	920	5,80			0,75	4800	58	37
CBDT-12/12-6T-1.5	945	6,40	3,70		1,10	6200	60	39
CBDT-12/12-6M-1.5	920	8,40			1,10	6200	60	39
CBDT-15/15-6T	950	10,30	5,90		2,20	8250	62	68
CBDT-18/18-6T	970		11,00	6,35	4,00	11800	64	109

1. The noise level values are pressures in dB(A) measured at a distance of 3 metres in a free field.

Erp. (Energy Related Products)

Information on Directive 2009/125/EC can be downloaded from the SODECA website or the QuickFan selector programme.

Acoustic characteristics

The values given are obtained under laboratory conditions according to ISO 3744..

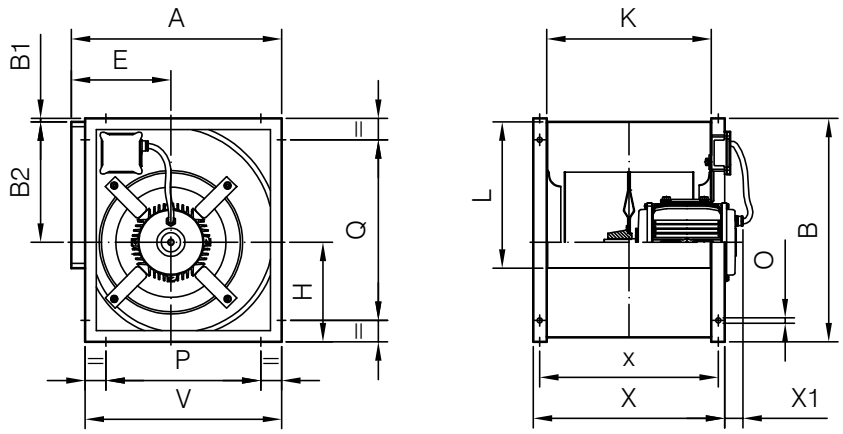
Sound power spectrum Lw(A) in dB(A) per Hz frequency band

Values measured at inlet with maximum flow rate

	63	125	250	500	1000	2000	4000	8000
CBDT-9/9-4	49	59	67	71	76	75	72	64
CBDT-10/10-4	51	61	69	73	78	77	74	66
CBDT-12/12-6-1	50	61	66	73	74	74	69	63

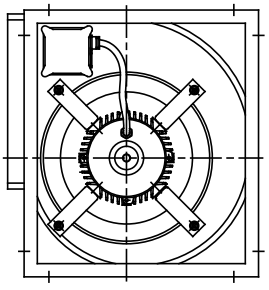
	63	125	250	500	1000	2000	4000	8000
CBDT-12/12-6-1.5	52	63	68	75	76	76	71	65
CBDT-15/15-6	66	75	77	79	74	73	67	58
CBDT-18/18-6	67	77	79	81	76	75	69	60

Dimensions mm

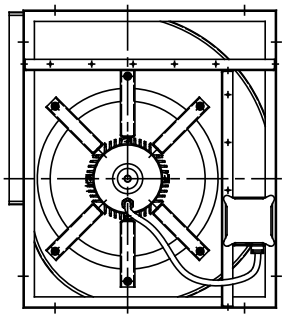


	A	B	B1	B2	E	H	K	L	P	Q	V	X	X1	x	O
CBDT-9/9	385	396	2	220	183	174	300	262	280	214	358	360	50	332	9x17
CBDT-10/10	426	444	2	248	202	196	326	290	318	255	397	388	50	357	9x17
CBDT-12/12	497	531	4	292	230	235	387	343	373	326	471	449	55	420	9x17
CBDT-15/15	584	630	3	350	265	277	473	406	460	406	553	533	60	404	9x17
CBDT-18/18	694	756	1	417	353	334	540	484	520	608	664	602	85	570	9x17

Terminal box situation



CBDT-9/9
CBDT-10/10
CBDT-12/12
CBDT-15/15



CBDT-18/18

Accessories

INT

IAT

CABLE BOX

VSD3/A-RFT
- VSD1/A-RFM

VSD1/M

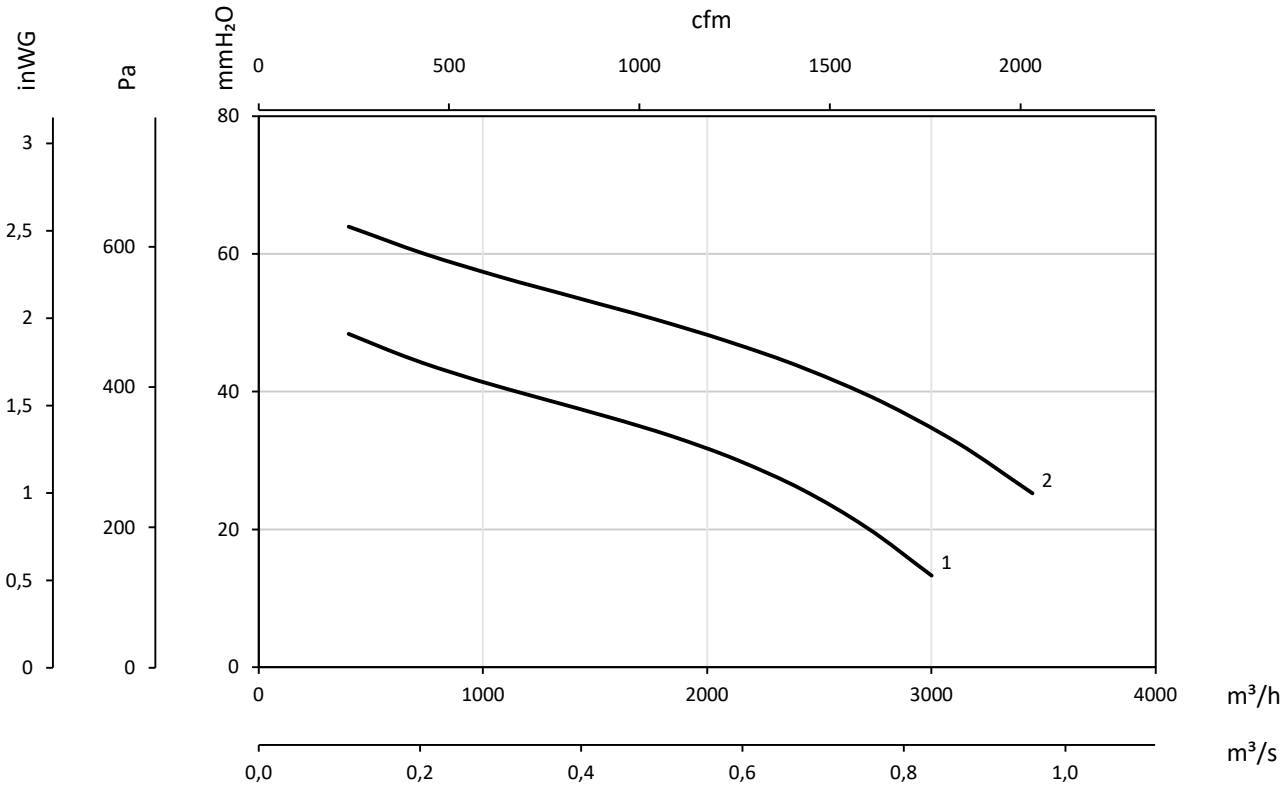
CENTRAL CO

P-400

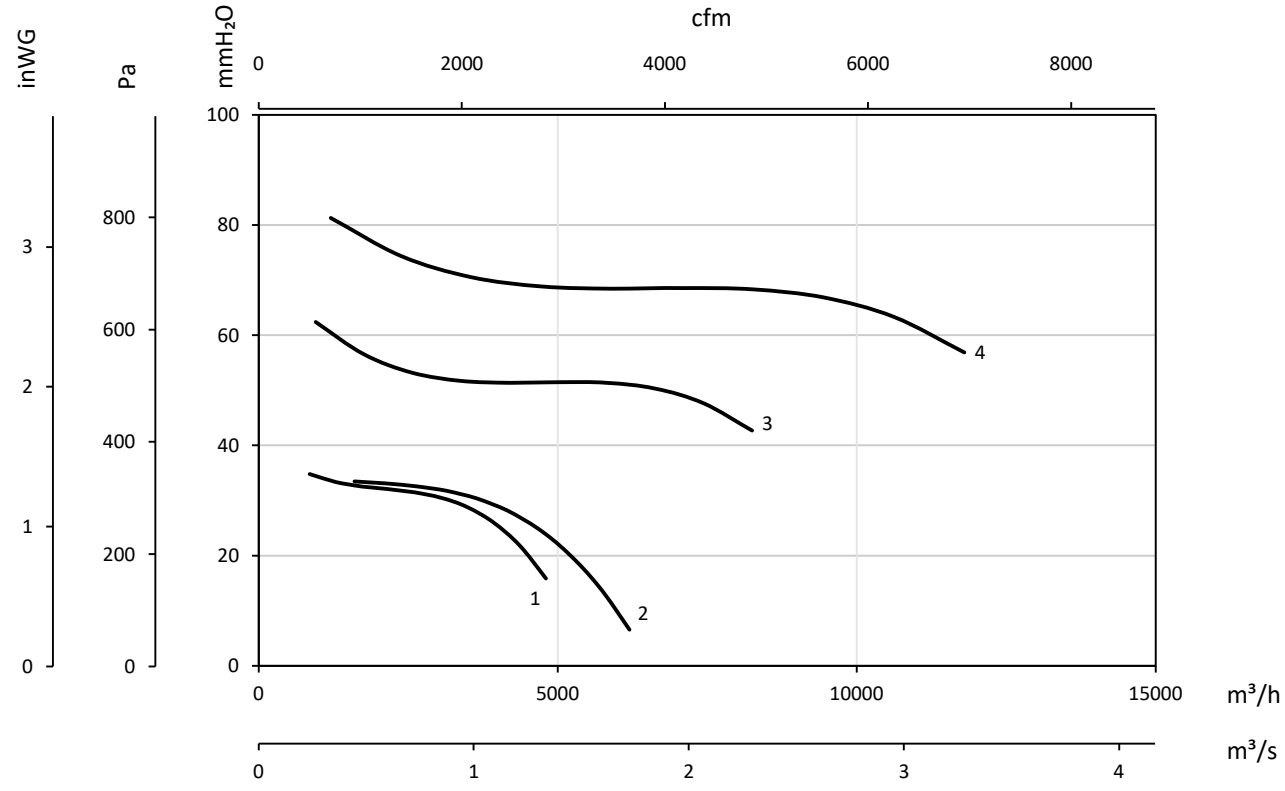
VIS

Characteristic curves

Q= Flow rate in m³/h, m³/s and cfm Pe= Static pressure in mm H_2O, Pa and inwg



1 : CBDT-9/9-4
2 : CBDT-10/10-4



1 : CBDT-12/12-6-1
2 : CBDT-12/12-6-1.5

3 : CBDT-15/15-6
4 : CBDT-18/18-6