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:
- Galvanized steel sheet casing.
- Forward curved impeller in galvanized 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 -20 ºC +60 ºC, S2 operation 300 ºC/2h, 400 ºC/2h.

Finish:
- Anti-corrosive in galvanized 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]	Approx. weight
	(r/min)	230V	400V	690V	(kW)	(m^3/h)	dB (A)	(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 Irradiated sound pressure level in dB(A) at a distance of 3 m.

Erp. (Energy Related Products)

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

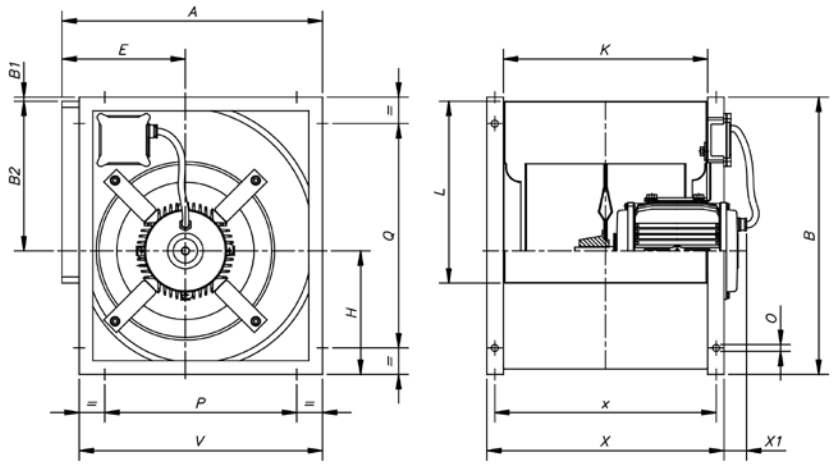
Acoustic characteristics

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

	63	125	250	500	1000	2000	4000	8000
CBDT-9/9-4-0.75	46	56	64	68	73	72	69	61
CBDT-10/10-4-0.75	48	58	66	70	75	74	71	63
CBDT-12/12-6-1	47	58	63	70	71	71	66	60

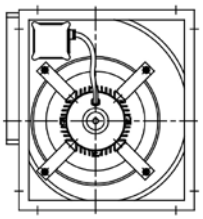
	63	125	250	500	1000	2000	4000	8000
CBDT-12/12-6-1.5	49	60	65	72	73	73	68	62
CBDT-15/15-6-3	63	72	74	76	71	70	64	55
CBDT-18/18-6-5.5	64	74	76	78	73	72	66	57

Dimensions mm

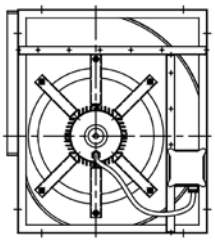


	A	B	B1	B2	E	H	K	L	P	Q	V	X	X1	x	O
CBDT-9/9	390	402	1.5	218	183	181	300	263	280	280	358	360	49	332	9x17
CBDT-10/10	430	448	2	246	202	204	326	292	326	326	398	388	33	360	9x17
CBDT-12/12	501	534	4	290	230	239.5	387	342	384	384	470	448	57	420	9x17
CBDT-15/15	584	630	-	348	265	280	473	405	460	460	550	535	58	507	9x17
CBDT-18/18	694	756	4	415	323	336	540	482	553	608	665	600	85	570	9x17

Terminal box situation



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

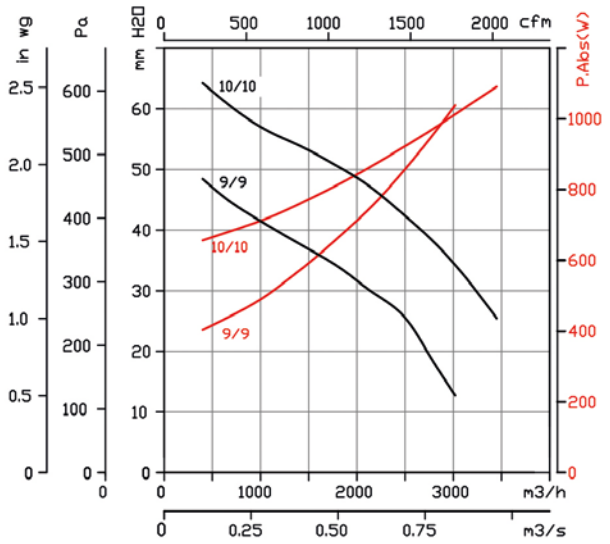


CBDT-18/18

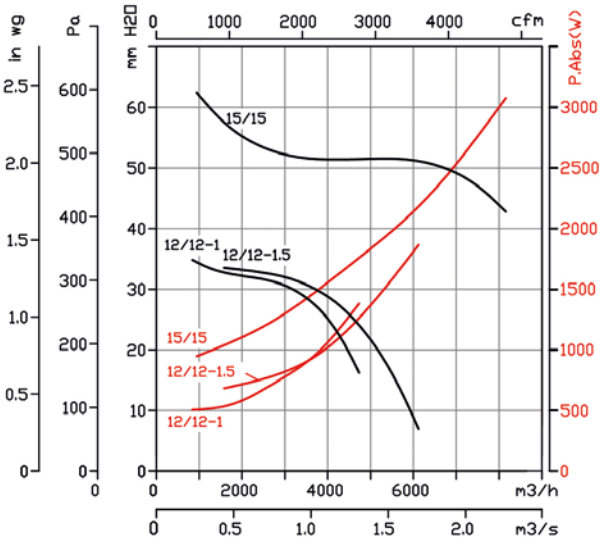
Characteristic curves

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

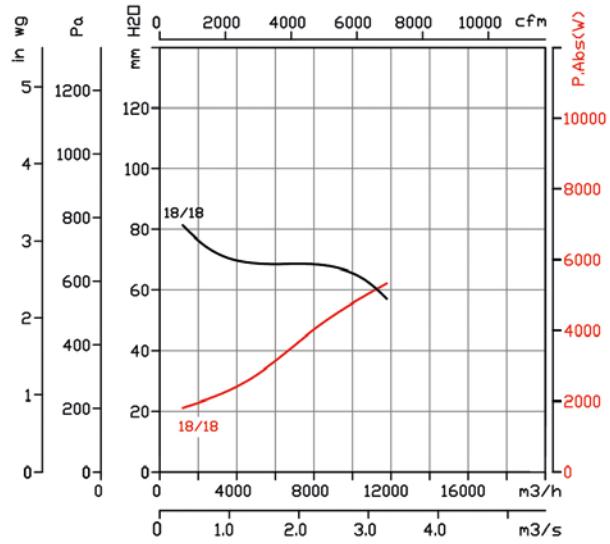
4M/4T=1500 r/min



6M/6T=1000 r/min



6T=1000 r/min



Accessories


INT


IAT


CABLE BOX


C2V


VSD3/A-RFT - VSD1/A-RFM


CENTRAL CO


AET


P-400


VIS