

230V
SINGLE-PHASE

CJBDT



CBDT



CJBDT / CBDT

SMOKE EXTRACTION DOUBLE INLET FANS

400°C/2h - 300°C/1h



EN-12101-3-2002
Powered smoke and
heat exhaust ventilators
for use in Construction Works





OUR COMMITMENT TO THE ENVIRONMENT

Sodeca has begun a new stage of study and design of new trends in ventilation which will help to preserve the environment and to make the energy saving which so much concerns today's society.



To obtain an **improvement in energy efficiency** of fans and of ventilation facilities, the engineering department of Sodeca has **balanced the energy consumption of the fans** with their maximum performance, in the habitual areas of work. This has required a restructuring of the curves and their presentation in this and future Sodeca catalogues.

SODECA has concentrated its activity on the production of industrial fans, ventilation systems and extractors for the removal of smoke in case of fire since 1983, when it was founded.

SODECA's fans and extractors are present in all European countries and in many parts of the world, thanks to the quality of the product and the methods of research and development used.

Our quality procedures used and certified by BUREAU VERITAS, in accordance with ISO 9001:2008, are another of the reasons which make **SODECA** one of the best and most renowned fan manufacturers in Europe.

Without a doubt, the most important factor to achieve our objectives is the human factor, the great professionals who work at your service, offering not only ventilation equipment but also solutions to any ventilation requirement.

We sincerely offer you the possibility of visiting our facilities in Sant Quirze de Besora, with over 16,000 square metres of built area, where you will be able to see our manufacture with perfect clarity and with the highest standards of quality, complying with the ISO and AMCA standards.

This catalogue is only a small part of our possibilities. Do not hesitate to contact us. We will put all our experience and our human resources at your disposal.



Headquarters of SODECA s.a., at Sant Quirze de Besora and manufacturing plant in Santiago de Chile.

CJBDT/CBDT



The ventilation casings as always, now with direct-drive 400°C/2h and 300°C/1h motors.

The CJBDT and CBDT series keep the well-known advantages of the traditional ventilation casings (low sound level, limited size, low speed) but they are equipped with **three-phase and single-phase direct-drive motors approved for 400°C/2h and 300°C/1h inside.**



Approval according to EU regulations.



All the exhaust fans are supplied marked with the EU emblem, according to standard EN-12101-3-2002.

Certification is issued by an accredited laboratory, which guarantees fire resistance of the fan's, after having passed highly rigorous tests.



Because noise is important and it is necessary to save on installation costs.

The new series of exhaust fans inside are especially designed for **installations where it is very important to ensure a low sound level**, with an exhaust fan of small dimensions.

In addition, for assembly, the exhaust fans include **base stands** and **outside connections box**. This makes it possible to simplify the installation to a great degree and reduce the assembly costs.

EXAMPLES OF USE

Car Parks

Exhaust fans suitable for application inside fire danger zone.

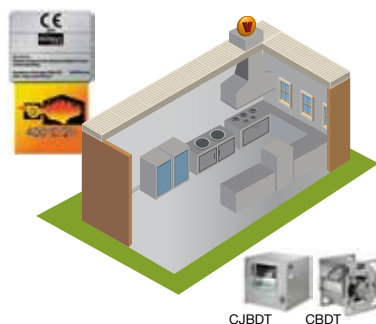


Industrial Kitchens

Exhaust fans suitable for use in industrial kitchens.

For the correct application of the standard:

- C.T.E. Technical Building Code. Basic SI Document for fire safety. Basic HS Document for health and safety.



Industrial Buildings

Fans suitable for use in industrial buildings.

For the correct application of the standard:

- Regulation for Fire Safety in Industrial Buildings, Royal Decree 2267/2004, EN-23585:2004 Fire Safety.



CJBDT/CBDT

Double inlet and direct motor extraction units and centrifugal fans for working inside fire danger zones 400°C/2h and 300°C/1h, with possibility of single-phase motor



Double inlet and direct motor extraction units and centrifugal fans for working inside fire danger zones, with possibility of single-phase motor

Fan:

- Galvanized sheet steel casing
- Impeller with forward-facing blades made from galvanised sheet steel
- Outside connecting box.
- Anti-vibration dampers (CJBDT)
- Approval according to Standard EN12101-3:2002, certificate no.: 370-CPD-0580



Motor:

- Class H motors, ongoing use S1 and emergency use S2, with ball bearings, IP55 protection, and one- or two- speed depending on the model.
- Single-phase 230V 50 Hz. and Three-phase 230/400V.50Hz. (up to 4CV.) and 400/690V.-50Hz. (power over 4CV.)
- Max. temperature of air for transport: S1 Service -20°C + 60°C for ongoing use, S2 Service 300°C/2h, 400°C/2h

Finish:

- Anticorrosive galvanized sheet steel.

On request:

- Fans with circular inlet
- Fans with vertical outlet



Outside connecting box and base stands



Single-phase motors, 400°C/2h

Order code

CJBDT — 12/12 — 6M — 1 — F-400

CJBDT: Double inlet and direct motor extraction units for working inside fire danger zones 400°C/2h and 300°C/1h, with possibility of single-phase motor

CBDT: Centrifugal double inlet and direct motor fans for working inside fire danger zones 400°C/2h and 300°C/1h, with possibility of single-phase motor

Turbine size

Number of motor poles
2=2900 r/min. 50 Hz
4=1400 r/min. 50 Hz
6=900 r/min. 50 Hz
8=750 r/min. 50 Hz
12=500 r/min. 50 Hz

M= Single-phase
T=Three-phase

Power motor (c.v.)

F-300 Officially approved 300°C/1h
F-400 Officially approved 400°C/2h

Technical characteristics

Model		Speed (r/min)	Maximum admissible current (A)			Power installed (kW)	Airflow maximum (m³/h)	Sound pressure level dB(A)		Approx. weight (Kg)	
			230V	400V	690V			CJBDT	CBDT	CJBDT	CBDT
CJBDT-9/9-4T	CBDT-9/9-4T	1420	2.90	1.70		0.55	3000	64	66	44	24
CJBDT-9/9-4/8T	CBDT-9/9-4/8T	1440 / 710		1.76 / 0.76		0.55 / 0.15	3000 / 1750	64 / 51	66 / 53	45	25
CJBDT-9/9-4M	CBDT-9/9-4M	1410	4.10			0.55	3000	64	66	44	23
CJBDT-9/9-6T	CBDT-9/9-6T	920	1.50	0.90		0.25	2100	60	61	42	22
CJBDT-9/9-6M	CBDT-9/9-6M	900	2.20			0.25	2100	60	61	42	21
CJBDT-10/10-4T	CBDT-10/10-4T	1420	2.90	1.70		0.55	3450	67	68	49	26
CJBDT-10/10-4/8T	CBDT-10/10-4/8T	1440 / 710		1.76 / 0.76		0.55 / 0.15	3450 / 1750	67 / 54	68 / 55	50	27
CJBDT-10/10-4M	CBDT-10/10-4M	1410	4.10			0.55	3450	67	68	49	25
CJBDT-10/10-6T	CBDT-10/10-6T	920	1.50	0.90		0.25	2250	63	64	47	24
CJBDT-10/10-6M	CBDT-10/10-6M	900	2.20			0.25	2250	63	64	47	23
CJBDT-12/12-6T-1	CBDT-12/12-6T-1	940	4.40	2.60		0.75	4800	64	65	69	37
CJBDT-12/12-6/12T-1	CBDT-12/12-6/12T-1	935 / 430		2.50 / 1.03		0.75 / 0.15	4800 / 2600	64 / 52	65 / 53	72	41
CJBDT-12/12-6M-1	CBDT-12/12-6M-1	920	5.80			0.75	4800	64	65	69	37
CJBDT-12/12-6T-1.5	CBDT-12/12-6T-1.5	945	6.40	3.70		1.10	6200	65	67	71	39
CJBDT-12/12-6/12T-1,5	CBDT-12/12-6/12T-1,5	940 / 450		3.30 / 1.20		1.10 / 0.18	6200 / 3250	65 / 53	67 / 55	75	44
CJBDT-12/12-6M-1,5	CBDT-12/12-6M-1,5	920	8.40			1.10	6200	65	67	71	39
CJBDT-15/15-6T	CBDT-15/15-6T	950	10.30	5.90		2.20	8250	67	68	110	68
CJBDT-15/15-6/12T	CBDT-15/15-6/12T	940 / 470		5.60 / 2.20		2.20 / 0.37	8250 / 4600	67 / 54	68 / 55	116	74
CJBDT-18/18-6T	CBDT-18/18-6T	970		11.00	6.35	4.00	11800	67	69	175	109
CJBDT-18/18-6/12T	CBDT-18/18-6/12T	970 / 480		11.30 / 4.20		4.00 / 0.65	11800 / 6600	67 / 54	69 / 56	183	117
CJBDT-20/20-6T	CBDT-20/20-6T	970		14.00		5.50	14300	68	70	247	151
CJBDT-20/20-6/12T	CBDT-20/20-6/12T	970 / 480		13.70 / 5.60		5.50 / 1.00	14300 / 9700	68 / 55	70 / 57	255	159
CJBDT-22/22-6T	CBDT-22/22-6T	960		18.40	10.60	7.50	18050	69	71	309	190
CJBDT-22/22-6/12T	CBDT-22/22-6/12T	970 / 480		19.00 / 8.00		7.50 / 1.40	18050 / 11800	69 / 56	71 / 58	319	200

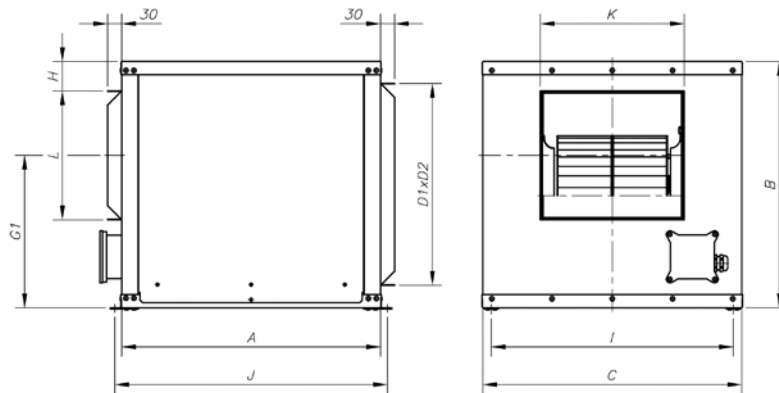
Acoustic features

The specified values are determined according to free field measurements of pressure and sound levels in dB(A) at an equivalent distance of twice the fan's span plus the impeller's diameter, with a minimum of 1.5 m.

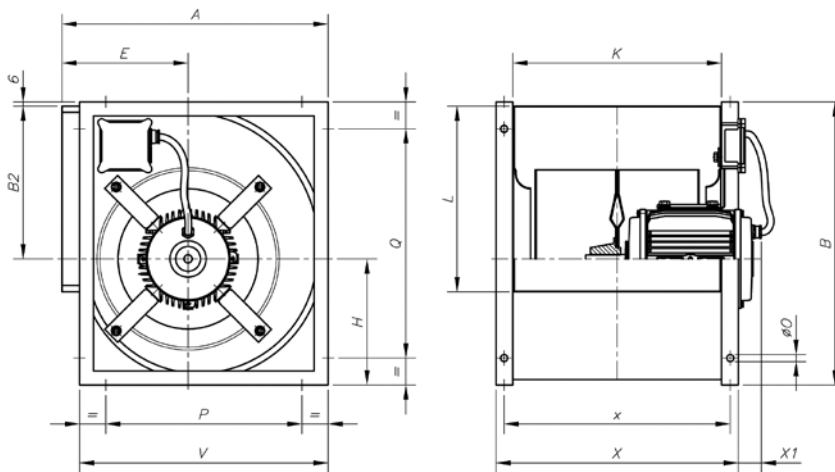
Sound power Lw(A) spectrum in dB(A) via frequency band in Hz.

CBDT Model	63	125	250	500	1000	2000	4000	8000	CJBDT Model	63	125	250	500	1000	2000	4000	8000
9/9-4	46	56	64	68	73	72	69	61	9/9-4	51	66	70	69	68	65	65	55
9/9-6	43	54	59	66	67	67	62	56	9/9-6	47	62	66	65	64	61	61	51
9/9-8	34	45	51	57	60	59	55	48	9/9-8	44	51	57	57	54	50	53	48
10/10-4	48	58	66	70	75	74	71	63	10/10-4	54	69	73	72	71	68	68	58
10/10-6	46	57	62	69	70	70	65	59	10/10-6	50	65	69	68	67	64	64	54
10/10-8	36	47	53	59	62	61	57	50	10/10-8	47	54	60	60	57	53	56	51
12/12-6-1	47	58	63	70	71	71	66	60	12/12-6-1	51	66	70	69	68	65	65	55
12/12-6-1,5	49	60	65	72	73	73	68	62	12/12-6-1,5	52	67	71	70	69	66	66	56
12/12-12-1	34	45	51	57	60	59	55	48	12/12-12-1	45	52	58	58	55	51	54	49
12/12-12-1,5	46	53	59	59	56	52	55	50	12/12-12-1,5	46	53	59	59	56	52	55	50
15/15-6	63	72	74	76	71	70	64	55	15/15-6	63	72	74	76	71	70	64	55
15/15-12	51	54	63	60	58	60	60	48	15/15-12	51	54	63	60	58	60	60	48
18/18-6	64	74	76	78	73	72	66	57	18/18-6	64	74	76	78	73	72	66	57
18/18-12	53	56	65	62	60	62	62	50	18/18-12	53	56	65	62	60	62	62	50
20/20-6	67	77	79	80	76	74	69	60	20/20-6	67	77	79	80	76	74	69	60
20/20-12	55	59	68	65	63	65	64	53	20/20-12	55	59	68	65	63	65	64	53
22/22-6	69	79	81	83	78	77	71	62	22/22-6	69	79	81	83	78	77	71	62
22/22-12	58	61	70	67	65	67	67	55	22/22-12	58	61	70	67	65	67	67	55

Dimensions in mm

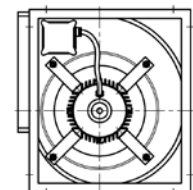


Model	A	B	C	D1xD2	G1	H	I	J	K	L
CJBDT-9/9	500	522	550	428x456	323	62.5	514	573	306	273
CJBDT-10/10	600	575	600	480x505	358.5	67.5	564	623	334	298
CJBDT-12/12	650	650	700	555x605	414.5	60.5	664	673	394	350
CJBDT-15/15	755	755	800	660x705	471.5	77.5	764	780	480	412
CJBDT-18/18	1000	875	1000	804x904	582	73.5	940	1047	565	489
CJBDT-20/20	1200	1175	1100	1070x1000	701	167.5	1040	1247	610	613
CJBDT-22/22	1280	1250	1250	1154x1154	739.5	158.5	1190	1327	664	704

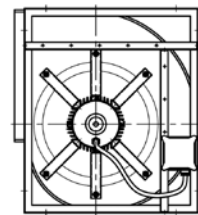


Location of terminal board:

CBBDT-9/9
10/10
12/12
15/15

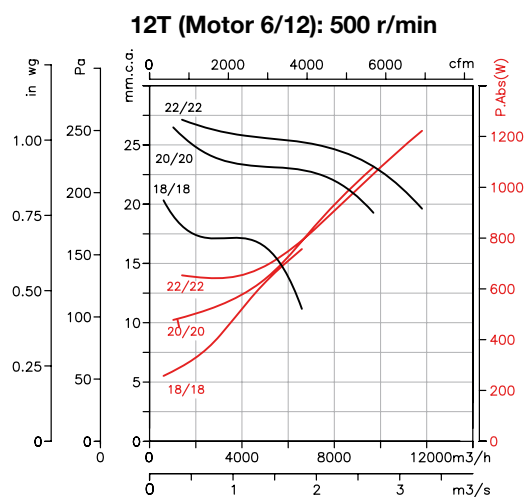
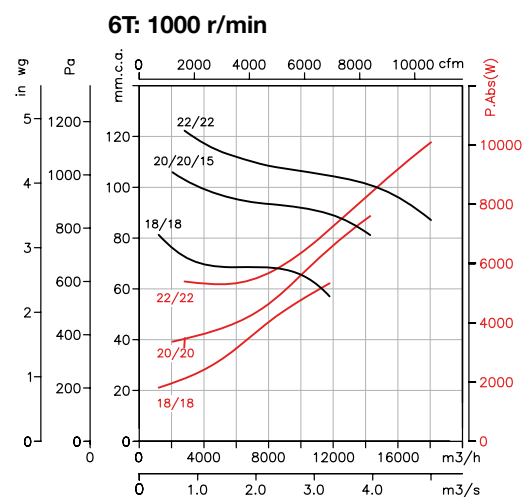
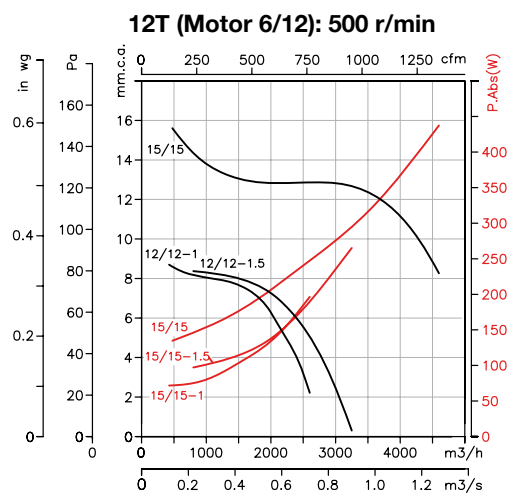
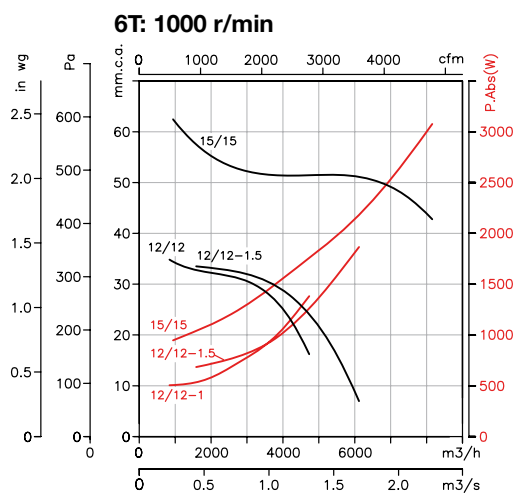
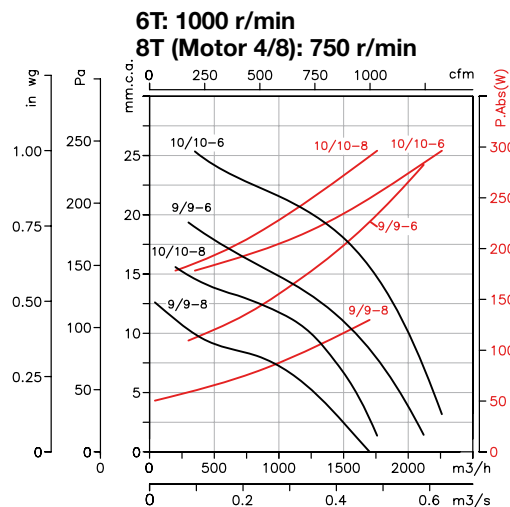
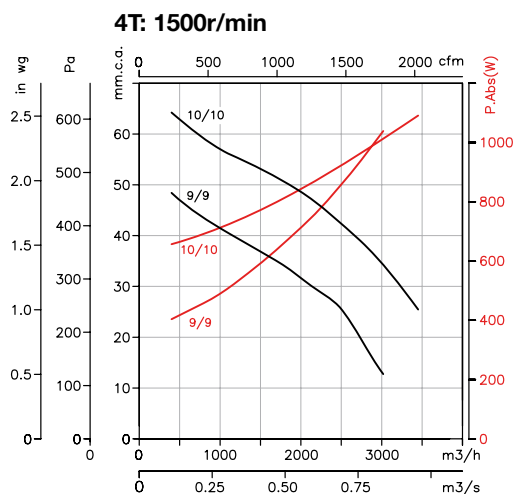


CBBDT-18/18
20/20
22/22



Model	A	B	B2	E	H	K	L	P	Q	V	X	X1	x	ØO
CBBDT-9/9	380	404	218	180	180	298	265	280	327	355	346	49	323	10
CBBDT-10/10	432	452	245	207	201	326	290	326	377	402	374	33	350	10
CBBDT-12/12	508	534	292	236	236	386	342	384	443	475	444	57	416	10
CBBDT-15/15	586	622	343	268	273	473	404	460	531	553	532	58	504	10
CBBDT-18/18	701	754	414	320	334	556	480	553	641	666	26	85	592	10
CBBDT-20/20	839	935	523	372	406	602	604	595	735	795	682	58	642	12
CBBDT-22/22	907	1019	571	399	442	655	695	663	819	863	735	105	695	12

Characteristic curves



Accessories



NEW SERIES. NEW PRODUCTS.
NEW CATALOGUES.
 NEW BUSINESS OPPORTUNITIES.



**AXIAL FANS
AND ROOF FANS**



**CENTRIFUGAL FANS AND
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**FANS FOR THE SMOKE
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AIR CURTAINS



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**Ask us for
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