

CBPN

Medium pressure single inlet centrifugal fans, equipped with backward curved impeller, designed for spray booths



Fan:

- Sheet steel casing.
- Backward curved impeller in extremely robust sheet steel, specially designed for clean or dusty air.
- Fitted with inspection hatch.
- Maximum temperature of air to be carried: -25 °C +120 °C.

Motor:

- Motors with IE3 efficiency for powers equal to or greater than 0.75 kW, except single-phase, 2-speed and 8-pole.
- Class F motors with ball bearings and IP55 protection.
- Three-phase 230/400 V 50 Hz (up to 4 kW).

Finish:

- Anti-corrosive finish in polyester resin, polymerised at 190 °C, after degreasing with phosphate-free nanotechnology treatment.

On request:

- Special windings for different voltages.
- Category 2 ATEX certification (see CBPN/ATEX series).

Order code



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Impeller size

Number of motor poles
4=1400 r/min 50 Hz

T = Three-phase

Motor power (HP)

Technical characteristics

Model	Speed (r/min)	Maximum admissible current (A)			Installed power (kW)	Maximum flow rate (m³/h)	Sound pressure level¹ dB (A) Irradiated	Approx. weight (Kg)
		230V	400V	690V				
CBPN-1445-4T IE3	1455	4.07	2.34		1.10	8240	64	75
CBPN-1650-4T-2 IE3	1440	5.41	3.11		1.50	11140	74	88
CBPN-1650-4T-3 IE3	1435	7.93	4.56		2.20	12800	68	90
CBPN-1856-4T-4 IE3	1440	10.70	6.15		3.00	14690	77	108
CBPN-1856-4T-5.5 IE3	1450	13.90	8.00		4.00	17200	71	112
CBPN-2063-4T-7.5 IE3	1465		10.30	5.97	5.50	24400	74	170

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.

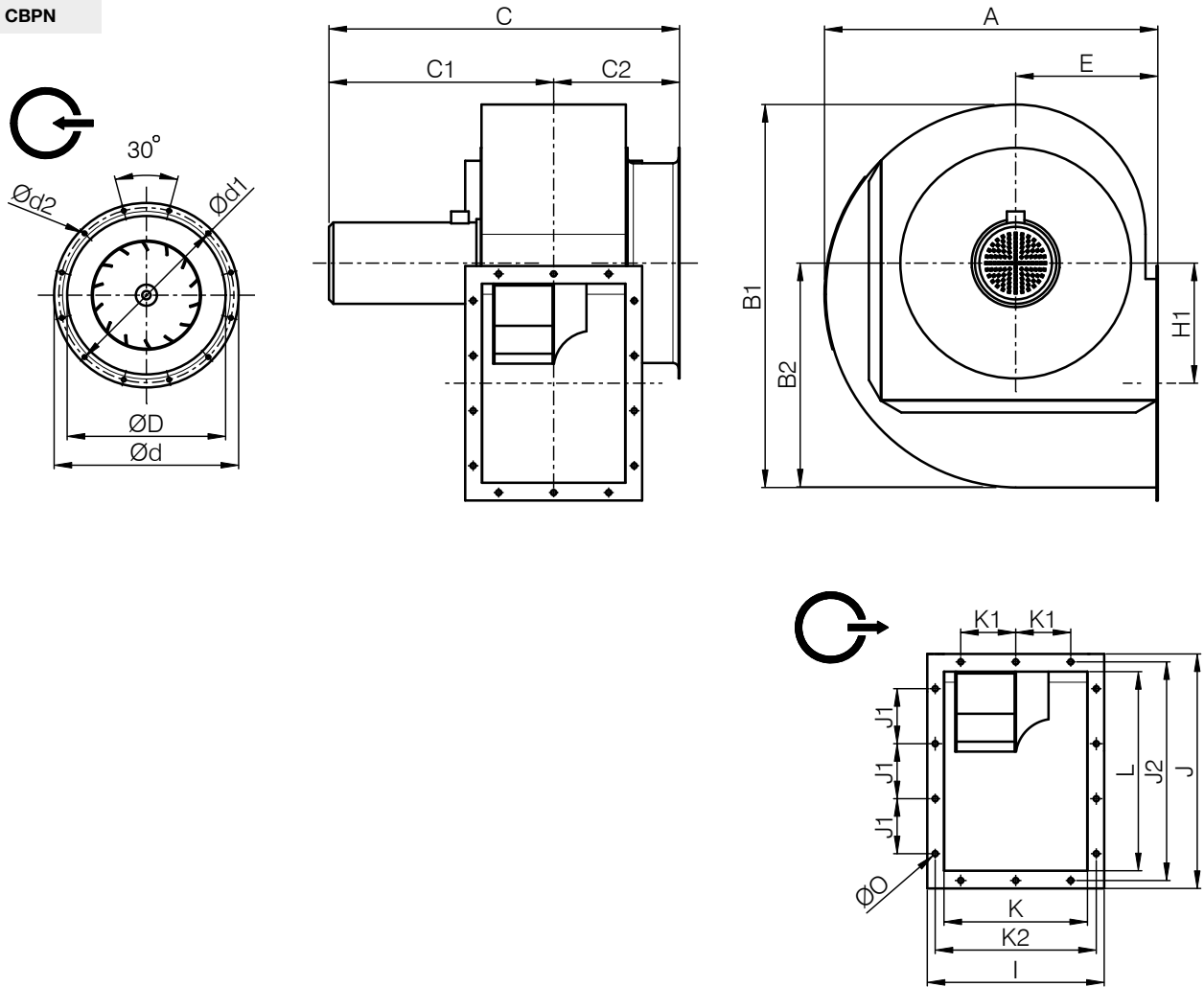
Acoustic characteristics

The values given are obtained under laboratory conditions according to ISO 3744.
Irradiated sound power spectrum Lw(A) in dB(A) per Hz frequency band

	63	125	250	500	1000	2000	4000	8000		63	125	250	500	1000	2000	4000	8000
CBPN-1445-4T	62	73	78	78	80	76	70	60	CBPN-1856-4T-4	69	80	85	86	87	84	77	67
CBPN-1650-4T-2	66	77	82	82	84	81	74	64	CBPN-1856-4T-5.5	69	80	85	86	87	84	77	67
CBPN-1650-4T-3	66	76	82	82	84	80	73	64	CBPN-2063-4T-7.5	72	83	88	89	90	87	80	70

Dimensions mm

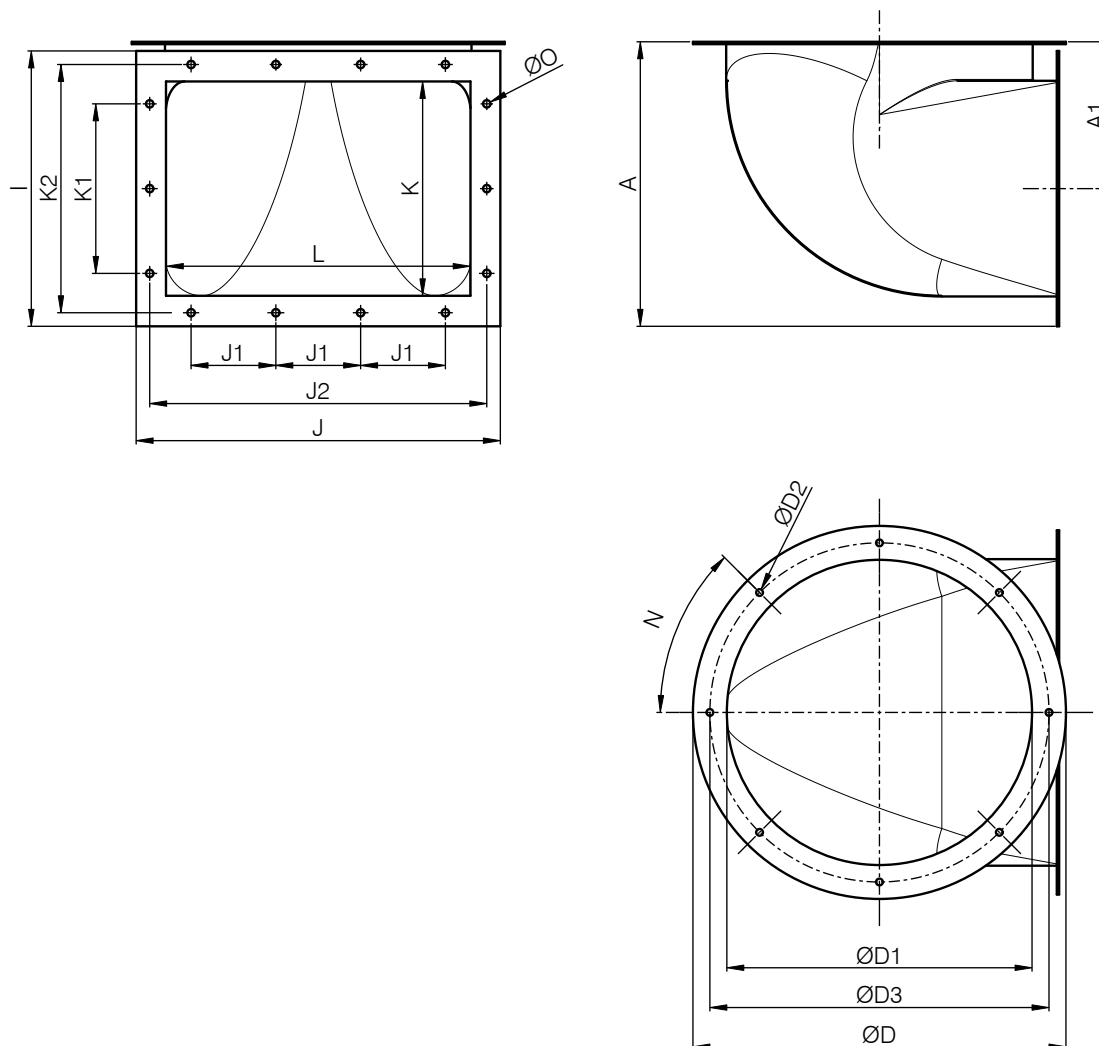
CBPN



	A	B1	B2	C	C1	C2	E	H1	I	J	J1	J2	K	K1	K2	L	$\varnothing d$	$\varnothing D$	$\varnothing d1$	$\varnothing d2$	$\varnothing O$
CBPN-1445-4T	757	871	510	797	511	285	323	273	402	533	125	497	326	125	366	453	524	450	497	11	12
CBPN-1650-4T-2	847	992	567	839	535	304	358	301	441	587	125	551	359	125	405	507	590	505	551	11	12
CBPN-1650-4T-3	847	992	567	899	595	304	358	301	441	587	125	551	359	125	405	507	590	505	551	11	12
CBPN-1856-4T-4	947	1094	626	939	615	324	402	331	504	670	160	630	403	160	464	570	668	560	629	11	12
CBPN-1856-4T-5.5	947	1094	626	929	605	324	402	331	504	670	160	630	403	160	464	570	668	560	629	11	12
CBPN-2063-4T-7.5	1057	1232	705	1066	715	351	450	375	553	738	160	698	458	160	513	645	720	635	698	11	14

Dimensions mm

BIC/90



	A	A1	I	J	J1	J2	K	K1	K2	L	N	ØD	ØD1	ØD2	ØD3	ØO
BIC/90-1445	419.5	216.5	406	537	125	497	316	250	366	449	8x45°	550	450	10	500	11
BIC/90-1650	456	233.5	445	591	125	551	356	250	405	501	12x30°	600	500	10	560	11
BIC/90-1856	535	278	514	670	160	630	415	320	464	570	16x22.5°	680	560	13	629	13
BIC/90-2063	594	307.5	573	748	160	698	454	320	513	648	12x30°	730	640	13	690	11

Accessories



INT



VSD3/A-RFT
- VSD1/A-RFM



RPA



B



BIC



BIC/90



ACE ACE/400

Characteristic curves

Q= Flow rate in m³/h, m³/s and cfm

Pe= Static pressure in mm H₂O, Pa and inwg

