



EFFICIENT WORK



CJBD/EW

CJBD/EW/AL



INDUSTRIAL
BRUSHLESS
MOTOR E.C.



CJBD/EW



CJBD/EW/AL



VARIABLE SPEED DRIVE
VSD: Variable Speed Drive.
- VSD1/B
- VSD3/B

Supply included with fan

CONTROL
Supply optional accessory

SUPPLY
VSD1/B:
220-240 V 50/60 Hz
VSD3/B:
380-415 V 50/60 Hz

CJBD/EW: Soundproofed ventilation units fitted

with CBD/EW fans with industrial BRUSHLESS motor E.C.

CJBD/EW/AL: Soundproofed ventilation units with aluminium profiles and pre-lacquered sheet with CBD/EW fans with industrial BRUSHLESS motor E.C.

Fan:

- Galvanized sheet steel casing.
- Impeller with forward-facing blades made from galvanised sheet steel
- They are supplied with PSB base stands.
- Electronic variable speed (VSD), three-phase or single-phase, is supplied with fan.

Motor and electronic variable speed:

- High-efficiency Industrial Brushless Motors E.C., fitted with electronic variable speed (VSD), adjustable via external control input 0-10V.
- It is advisable to install an electronic variable speed drive (VSD) outside the working area.
- The external signal can be supplied through a manual or automatic control with 0-10 V output.
- Electronic variable speed drive (VSD), available with single-phase 220-240 V 50/60 Hz input (VSD1/B type) or three-phase 380-415 V 50/60 Hz (VSD3/B type).
- By default, the electronic variable speed drive

(VSD) is delivered programmed for constant speed.

- Working fan temperature:
-25 °C +60 °C.
- Working temperature (VSD):
-25 °C +50 °C.

Finish:

- Anticorrosive galvanized sheet steel

Order code with variable speed drive (VSD) included

CJBD/EW — 2525 — 4 1/2 — B — T — D

CJBD/EW: Soundproofed high-efficiency filtration units, "Efficient work"

CJBD/EW/AL: Soundproofed high-efficiency filtration units, "Efficient work", with aluminium profiles and pre-lacquered sheet

CJBD/EW/C: Soundproofed high-efficiency filtration units, "Efficient work", with circular inlet/outlet

CJBD/EW/F: Soundproofed high-efficiency filtration units, "Efficient work", with built-in filters

CJBD/EW/ALS: Soundproofed high-efficiency filtration units, "Efficient work", with double wall of insulation and pre-lacquered sheet

CJBD/EW/ALF: Soundproofed high-efficiency filtration units, "Efficient work", with pre-lacquered sheet and built-in filters

Impeller size

mm.	inches
1919	7/7
2525	9/9
2828	10/10
3333	12/12

Number of

poles:	r/min
4=1410	
6=960	

Motor power (C.V.)

Industrial Brushless Motors E.C.

M: Fitted with VSD1/B, electronic variable speed, single phase power supply 220-240 V 50/60 Hz.

T: Fitted with VSD3/B, electronic variable speed, three-phase power supply 380-415 V 50/60 Hz.

D: Standard version, VSD supplied programmed for constant speed.
P: Supplied with VSD programmed for pressure control and Si-Presión pressure transmitter
K: Supplied with VSD programmed for pressure control and built into a BOXPRES KIT/B box.

Options



CJBD/C/EW



CJBD/F/EW



CJBD/ALS/EW



CJBD/ALF/EW



Technical characteristics

Model			Speed min/max (r/min)	Equivalent in inches	Single-phase VSD 230 V 50/60 Hz		Three-phase VSD 400 V 50/60 Hz		Maximum electrical power (W)	Maximum airflow min/max (m³/h)	Sound pressure level min/max dB(A)	Weight approx. (Kg)
					Maximum current input (A)	Model VSD	Maximum current input (A)	Model VSD				
CJBD/EW	CJBD/EW/AL	1919-4 1/5	300 / 1410	7/7	2.13	VSD1/B-0.37	0.62	VSD3/B-0.75	260	325 / 1520	25 / 59	7.0
CJBD/EW	CJBD/EW/AL	1919-6 1/10	300 / 960	7/7	1.17	VSD1/B-0.37	0.34	VSD3/B-0.75	140	385 / 1230	28 / 53	7.0
CJBD/EW	CJBD/EW/AL	2525-4 1/2	300 / 1410	9/9	3.96	VSD1/B-0.37	0.93	VSD3/B-0.75	450	595 / 2800	32 / 66	13.2
CJBD/EW	CJBD/EW/AL	2525-4 1	300 / 1410	9/9	7.94	VSD1/B-0.75	1.87	VSD3/B-1.5	905	765 / 3600	36 / 70	14.0
CJBD/EW	CJBD/EW/AL	2525-6 1/3	300 / 960	9/9	2.93	VSD1/B-0.37	0.68	VSD3/B-0.75	330	845 / 2700	37 / 62	12.7
CJBD/EW	CJBD/EW/AL	2828-4 1/2	300 / 1410	10/10	3.96	VSD1/B-0.37	0.93	VSD3/B-0.75	450	595 / 2800	31 / 65	15.7
CJBD/EW	CJBD/EW/AL	2828-4 1	300 / 1410	10/10	7.94	VSD1/B-0.75	1.87	VSD3/B-1.5	905	840 / 3950	36 / 70	16.5
CJBD/EW	CJBD/EW/AL	2828-6 1/3	300 / 960	10/10	2.93	VSD1/B-0.37	0.68	VSD3/B-0.75	330	1000 / 3200	37 / 62	15.2
CJBD/EW	CJBD/EW/AL	3333-6 1	300 / 960	12/12	8.32	VSD1/B-1.5	1.96	VSD3/B-1.5	955	1875 / 6000	46 / 71	24.0
CJBD/EW	CJBD/EW/AL	3333-6 1 1/2	300 / 960	12/12	11.51	VSD1/B-1.5	2.71	VSD3/B-1.5	1325	2440 / 7800	50 / 75	24.5

Acoustic features at maximum speed

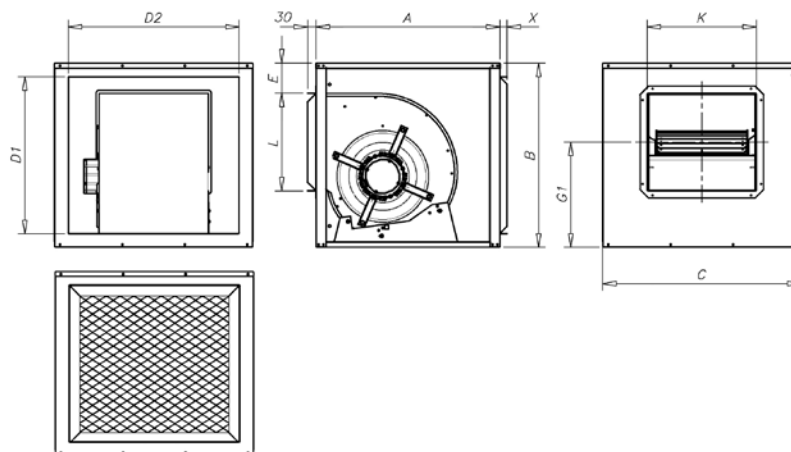
The specified values are determined according to free field measurements of sound levels in dB(A) at an equivalent distance of twice the fan's span plus the impeller's diameter, with a minimum of 1.5 m.

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

Model	63	125	250	500	1000	2000	4000	8000	Model	63	125	250	500	1000	2000	4000	8000
1919-4 1/5	43	54	58	62	64	63	62	53	2828-4 1/2	50	61	65	69	71	70	69	60
1919-6 1/10	38	49	53	57	59	58	57	48	2828-4 1	55	66	70	74	76	75	74	65
2525-4 1/2	51	62	66	70	72	71	70	61	2828-6 1/3	46	57	61	65	67	66	65	56
2525-4 1	55	66	70	74	76	75	74	65	3333-6 1	55	66	70	74	76	75	74	65
2525-6 1/3	46	57	61	65	67	66	65	56	3333-6 1 1/2	59	70	74	78	80	79	78	69

Dimensions in mm

CJBD/EW
CJBD/EW/F



											(without filter)	(with filter)
	Size	A	B	C	E	D1	D2	G1	L	K	X	X
CJBD/EW-1919	7/7	450	460	500	110	370	410	245	210	232	25	30
CJBD/EW-2525	9/9	500	522	550	107	426	454	283.5	263	300	25	30
CJBD/EW-2828	10/10	550	575	600	105.5	479	504	324.5	292	326	25	30
CJBD/EW-3333	12/12	650	650	700	106	554	604	372.5	345	387	25	30

Accessories

See accessories section.



INT



TEJ



VIS



CONTROL UNITS
AND SENSORS



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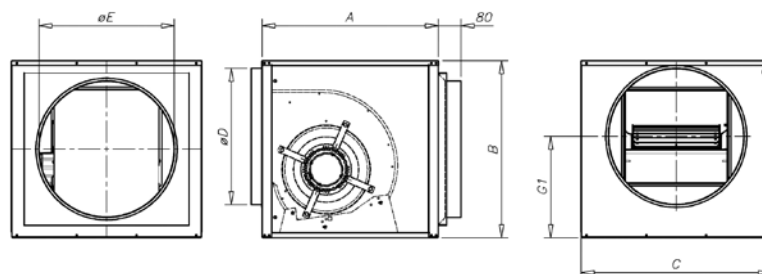
Dimensions in mm

Dimensions in mm

Abmessungen in mm

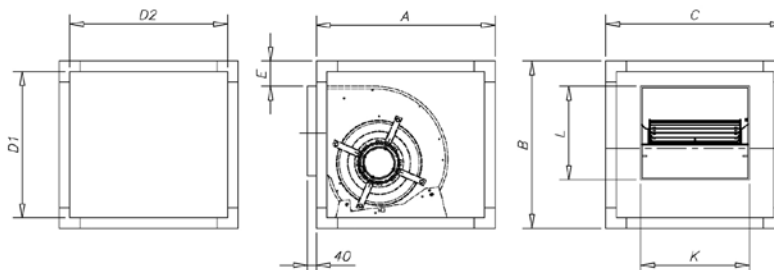
Dimensions mm

CJBD/EW/C



Model	Equiv. in inches	A	B	C	øD	D1	øE	D2	G1
CJBD/EW/C-1919	7/7	450	460	500	250	370	250	410	245
CJBD/EW/C-2525	9/9	500	522	550	355	426	355	454	283.5
CJBD/EW/C-2828	10/10	550	575	600	400	479	400	504	324.5
CJBD/EW/C-3333	12/12	650	650	700	500	554	500	604	372.5

**CJBD/EW/AL
CJBD/EW/ALS
CJBD/EW/ALF**

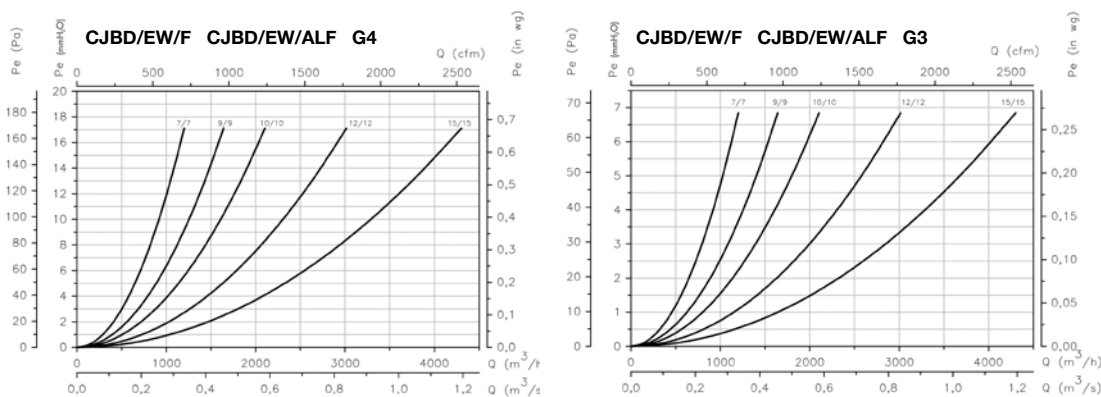


Model	Size	A	B	C	D1	D2	E	L	K
CJBD/EW/AL-1919	7/7	460	460	460	420	420	88	202	225
CJBD/EW/AL-2525	9/9	520	520	520	480	480	110	265	295
CJBD/EW/AL-2828	10/10	575	575	575	535	535	122	286	322
CJBD/EW/AL-3333	12/12	650	650	650	610	610	108	339	384

Characteristic curves

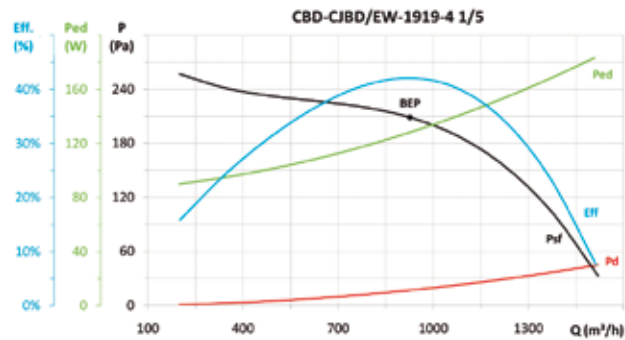
See CBD/EW-CJBD/EW characteristic curves

Characteristic load loss curves for units with filter



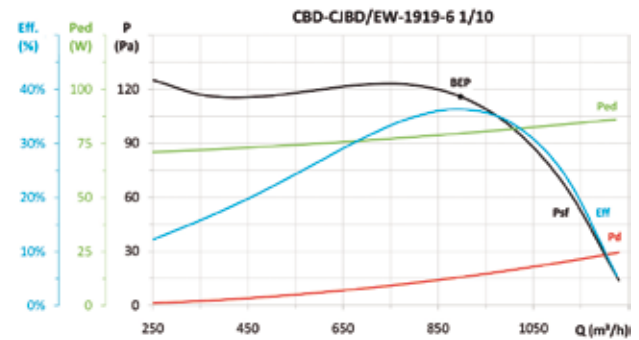


Erp. Characteristic curves and ErP data

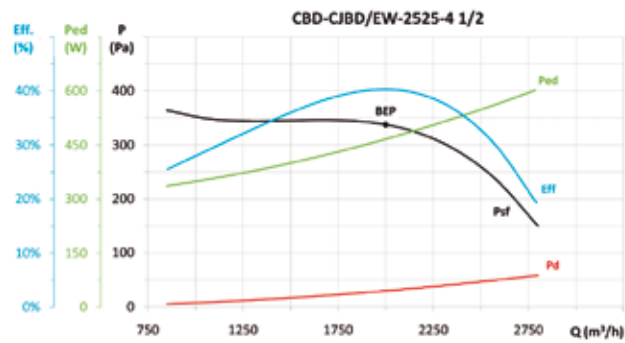


MC	EC	SR	Cc	η_a (%)	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	1,00	1,15	48,4%	60,3	0,128	926	208,7	1410	INCLUDED

* η_e (%) = Eff. (%) x Cc

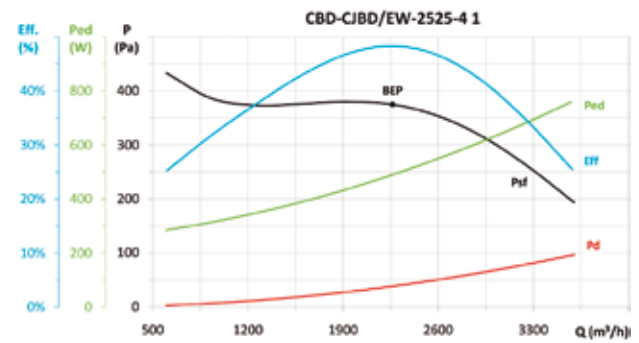


MC	EC	SR	Cc	η_a (%)	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	-	-	-	-	0,080	897	115,9	960	INCLUDED



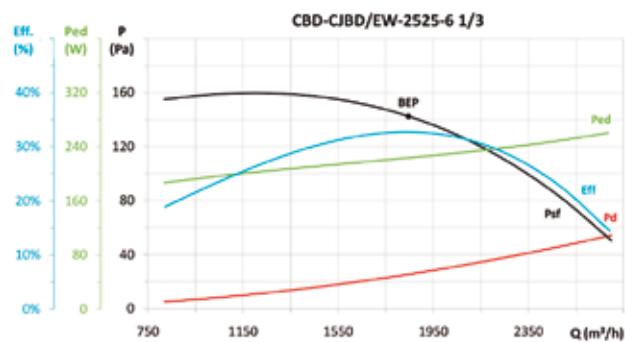
MC	EC	SR	Cc	η_a (%)	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	1,00	1,11	44,8%	53,2	0,465	2000	337,4	1410	INCLUDED

* η_e (%) = Eff. (%) x Cc



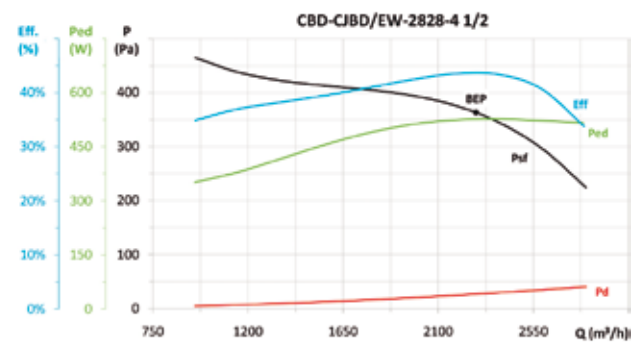
MC	EC	SR	Cc	η_a (%)	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	1,00	1,11	53,6%	61,9	0,488	2265	374,7	1410	INCLUDED

* η_e (%) = Eff. (%) x Cc



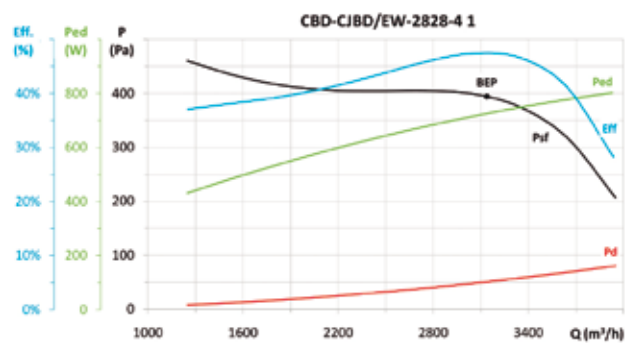
MC	EC	SR	Cc	η_a (%)	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	1,00	1,13	37,1%	47,5	0,223	1846	142,5	960	INCLUDED

* η_e (%) = Eff. (%) x Cc



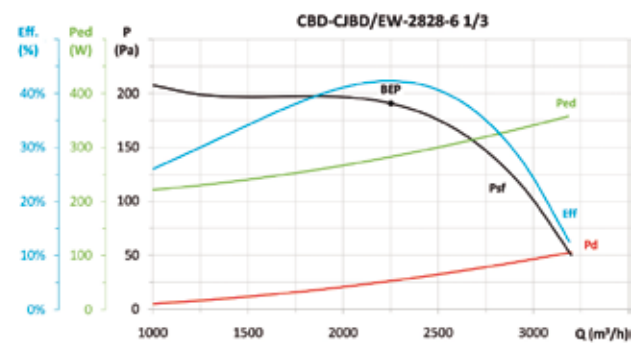
MC	EC	SR	Cc	η_a (%)	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	1,00	1,11	48,3%	56,4	0,527	2279	363,1	1410	INCLUDED

* η_e (%) = Eff. (%) x Cc



MC	EC	SR	Cc	η_a (%)	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	1,00	1,10	52,1%	59,4	0,723	3138	394,1	1410	INCLUDED

* η_e (%) = Eff. (%) x Cc



MC	EC	SR	Cc	η_a (%)	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	1,00	1,13	47,6%	57,4	0,282	2251	190,6	960	INCLUDED

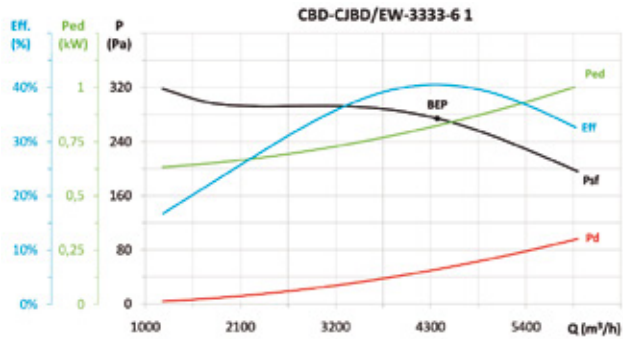
* η_e (%) = Eff. (%) x Cc



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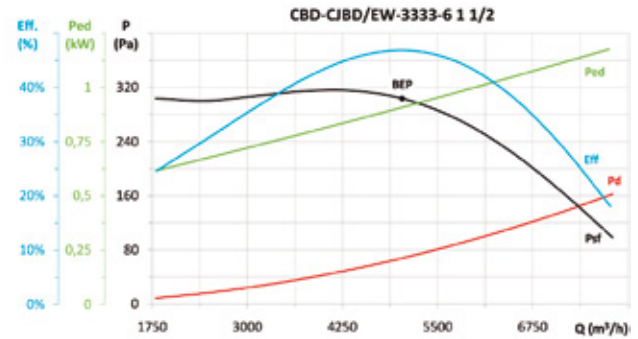


Erp. Characteristic curves and ErP data



MC	EC	SR	Cc	η_a (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	1,00	1,09	44,3%	51,2	0,822	4377	274,1	960	INCLUDED

* η_e (%) = Eff. (%) x Cc



MC	EC	SR	Cc	η_a (%)*	N	[kW]	[m³/h]	[Pa]	[rpm]	VSD
A	S	1,00	1,09	51,1%	57,7	0,906	5035	303,7	960	INCLUDED

* η_e (%) = Eff. (%) x Cc