LOW PRESSURE FANS WITH EC TECHNOLOGY MOTOR AND BUILT-IN ELECTRONICS

- ENERGY SAVINGS
- BUILT-IN ELECTRONICS
- LOW NOISE LEVEL
- EASY INSTALLATION AND MAINTENANCE

CBD/EC

CJBD/EC/AL

CJBD/EC

CJBD/EC/CPC

EFFICIENT SOLUTIONS

The centrifugal fans CBD/EC and the ventilation units CJBD/EC and CJBD/EC/AL are solutions specially designed to obtain high energy efficiency with IE4 EC TECHNOLOGY motors and built-in electronics.

CBD/EC

CJBD/EC/AL

CJBD/EC

CJBD/EC/CPC

These new products exceed the requirements of the ErP 2009/125/EC Ecodesign Directive and its regulating provisions (EU) 327/2011 for fans, and 1253/2014 for ventilation units, collaborating with the KYOTO Protocol objective of reducing carbon emissions.

LOW ENERGY

BENEFITS

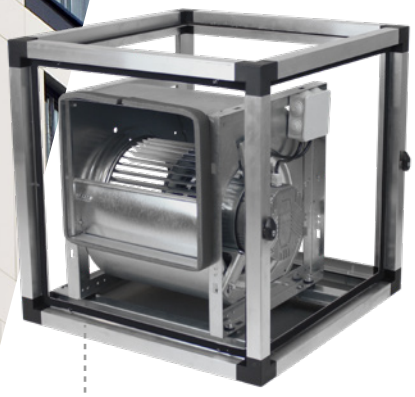
- Energy savings of 70%, thanks to their EC TECHNOLOGY and speed control
- Reduction in energy costs
- Reduction in environmental impact
- Low noise level
- Balanced ventilation at all times
- Centralised installation that is easy to maintain

Industrial EC TECHNOLOGY motors, with technology developed by SODECA, are designed to meet IE4 and IE5 efficiency standards. These units provide great energy savings and are equipped with the electronic systems required for operation as well as a variable speed drive (VSD).

CBD/EC

The CBD/EC equipment consists of double-inlet centrifugal fans integrated in series such as **CJBD/EC, CJBD/EC/AL and CJBD/EC/CPC.**

The **CBD/EC**, **CJBD/EC**, **CJBD/EC/AL** and **CJBD/EC/CPC** fan series have been designed to capture and extract air, with the possibility of being used in ducts **in both residential and commercial areas as well as in areas with high demands in terms of soundproofing and versatility.**

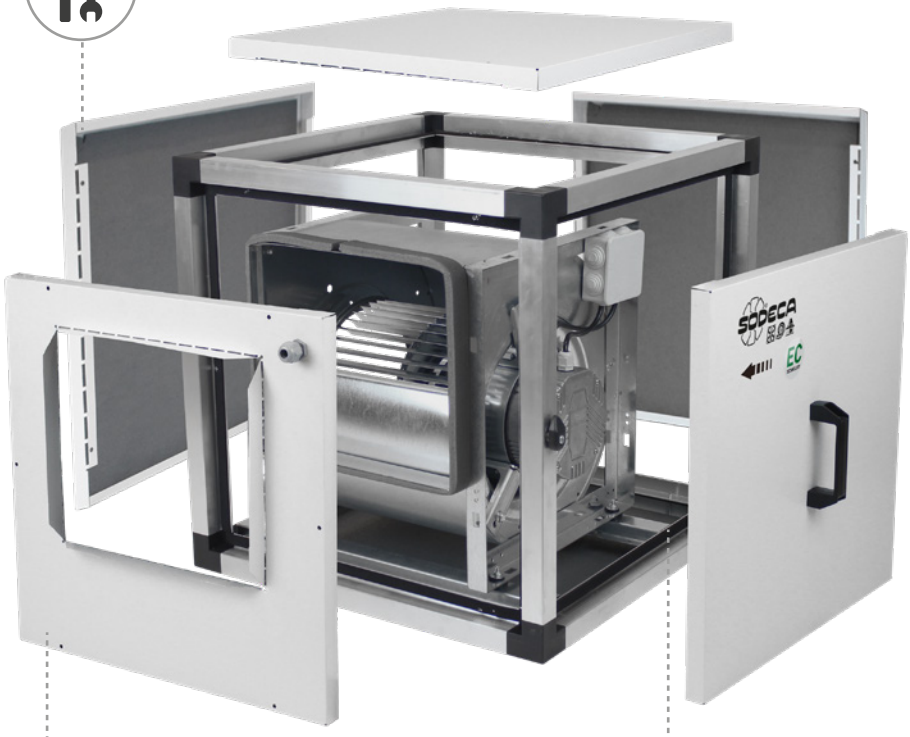


LOW NOISE LEVEL

The 25 mm-thick acoustic casing (depending on the model), which reduces noise through the use of high-quality insulation materials designed for these applications, makes it the perfect fan for installation in applications that require low noise levels.

EASY INSTALLATION AND MAINTENANCE

All the covers are interchangeable, which provides this unit with exceptional versatility, making it possible to extract air in any direction. Also, the covers can be easily removed to access the inside for cleaning the impeller and for ease of maintenance.



DURABILITY

The covers of this unit are made of prefinished sheet and the structural profiles are made of aluminium, which increases the service life of the fans and allows them to be installed outdoors in high corrosion areas. We recommend installing the unit under a canopy roof to prevent water from entering the unit.

ENERGY SAVINGS

The high performance EC Technology electric motor is a key element in reducing electricity consumption, in addition to being easy to regulate with any 0-10 V sensor.

CONTROL PANEL AND AUTOMATIC REGULATION

Thanks to the incorporation of **EC CONTROL** in the **CJBD/EC/CPC** equipment, constant pressure control (CPC) is possible, permitting controlled, regular air extraction, regardless of load loss or changes in pressure that may occur due to opening doors. This ensures the quality of the internal air, controlling air renewal and hence CO_2 levels, or extracting excess humidity as well as other volatile components and particles.

In controlled mechanical ventilation (CMV) and tertiary sector ventilation, it is important to guarantee a constant flow in the air supply. As the filter becomes dirty, the load loss increases. The **CJBD/EC/CPC** makes it possible to guarantee the necessary flow.

RECOMMENDED FOR:

Damp areas of community installations or places where different air extraction or clean air supply points are required. Usually, to control air extraction in toilets and kitchens in buildings.

EC CONTROL SYSTEM

The **EC CONTROL** system incorporates all the functions required for automatic regulation of the CMV system, adjusting the rotational speed parameters of the fan based on the desired air renewal and quality parameters.

EC CONTROL permits different control modes:

- CPC: Constant pressure control.
- CFC: Constant flow control.
- DAY/NIGHT: Dual setpoint pressure adjustment depending on the time of day.
- External sensor: Compatible with temperature, humidity, air quality or CO_2 sensor.

CBD/EC

Double inlet centrifugal fans, direct motor EC Technology IE4 with integrated electronics and forward curved impeller

EC TECHNOLOGY MOTOR with integrated electronics

EC CONTROL
Supplied as an optional accessory

Double inlet centrifugal fans, direct motor EC Technology IE4 with integrated electronics and forward curved impeller, specially designed for high energy efficiency.

Fan:
- Galvanized steel sheet casing.
- Forward curved impeller in galvanized sheet steel.

Motor:
- High efficiency EC Technology motors with integrated electronics, regulated by 0-10 V.
- IE4 efficiency motors, class F and IP54 protection.
- Single-phase 190-250 V 50/60 Hz.
- Working temperature: -25 ºC +60 ºC.

EC CONTROL:Supplied as an optional accessory. Control panel for ventilation systems with EC Technology motors with the electronics integrated in the motor itself. With the following characteristics:

- CPC: Constant pressure control.
- CFC: Constant flow control.
- DAY / NIGHT: Double pressure setpoint adjustment according to time of day.
- External sensor: compatible with temperature, humidity, air quality or CO sensor.
- Equipment preconfigured in constant pressure mode with 100 Pa set point.

Finish:
- Anti-corrosive in galvanized steel sheet.

High quality, extremely robust impeller, dynamically balanced in accordance with ISO 21940-11

Order code

CBD/EC	–	2525	–	4M	–	3/4	–	IE4

CBD/EC: Double inlet centrifugal fans, direct motor EC Technology IE4 with integrated electronics and forward curved impeller

Impeller size mm

mm	inch
1919	7/7
2525	9/9
2828	10/10
3333	12/12

Number of motor poles
4=1400 r/min 50 Hz
6=900 r/min 50 Hz

M = Single-phase

Motor power (HP)

IE4 motor

Technical characteristics

Model	Equivalence inches	Max. speed (r/min)	Maximum admissible current (A) 230V	Max. electric power (kW)	Maximum flow rate (m³/h)	Sound pressure level dB (A)	Approx. weight (Kg)	According ErP *
CBD/EC-1919-4M-1/5 IE4	7/7	1400	1.65	0.18	1520	59	9	Excluded
CBD/EC-1919-6M-1/10 IE4	7/7	900	0.98	0.09	1374	53	9	Excluded
CBD/EC-2525-4M-1/2 IE4	9/9	1400	1.64	0.37	2400	66	10	2020
CBD/EC-2525-4M-3/4 IE4	9/9	1400	2.37	0.55	3200	70	11	2020
CBD/EC-2525-4M-1 IE4	9/9	1400	3.12	0.75	4200	71	12	2020
CBD/EC-2525-6M-1/3 IE4	9/9	900	1.07	0.25	2785	62	11	2020
CBD/EC-2828-4M-1 IE4	10/10	1400	4.12	0.75	3827	72	13	2020
CBD/EC-2828-4M-2 IE4	10/10	1410	11.04	1.50	5915	74	15	2020
CBD/EC-2828-6M-1/3 IE4	10/10	900	1.10	0.25	3046	62	13	2020
CBD/EC-3333-6M-1 IE4	12/12	900	7.83	1.10	5200	71	21	2020

* In accordance with the ErP 2020 draft

Erp. (Energy Related Products)

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

Acoustic characteristics

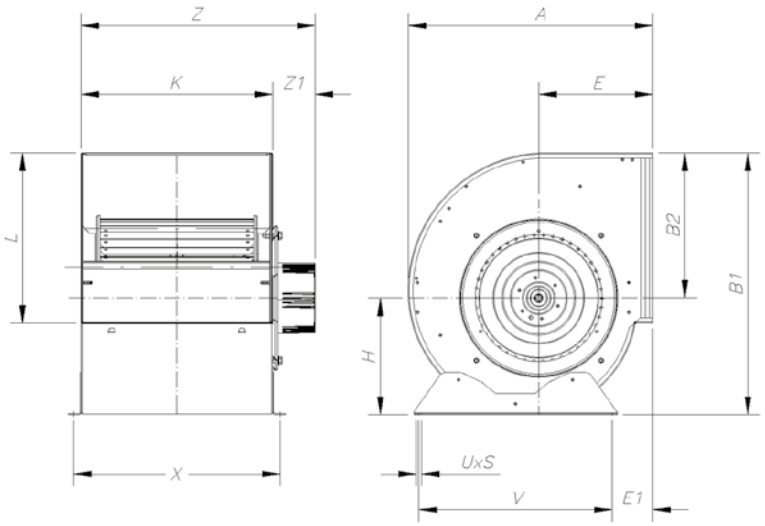
The indicated values are determined by measuring the sound pressure level and sound power in dB(A) obtained in a free field at a distance equivalent to twice the size of the fan plus the impeller diameter, with a minimum of 1.5 m.

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

	63	125	250	500	1000	2000	4000	8000
1919-4M-1/5 IE4	29	44	55	63	65	64	63	55
1919-6M-1/10 IE4	23	38	49	57	59	58	57	49
2525-4M-1/2 IE4	36	51	62	70	72	71	70	62
2525-4M-3/4 IE4	40	55	66	74	76	75	74	66
2525-4M-1 IE4	41	56	67	75	77	76	75	67

	63	125	250	500	1000	2000	4000	8000
2525-6M-1/3 IE4	32	47	58	66	68	67	66	58
2828-4M-1 IE4	42	57	68	76	78	77	76	68
2828-4M-2 IE4	44	59	70	78	80	79	78	70
2828-6M-1/3 IE4	32	47	58	66	68	67	66	58
3333-6M-1 IE4	41	56	67	75	77	76	75	67

Dimensions mm



	Equivalence inches	A	B1	B2	E	E1	H	K	L	UxS	V	X	Z1	Z
CBD/EC-1919	7/7	315	333	189	152	64	144	230	208	9x16	225	258	35	265
CBD/EC-2525	9/9	380	400	218	183	78	182	300	263	9x16	275	328	85	385
CBD/EC-2828	10/10	422	450	246	202	73	204	326	292	9x16	315	352	55	381
CBD/EC-3333	12/12	493	526	290	230	82	236	387	345	9x16	390	415	85	472

Accessories

INT

EC CONTROL

MTP

SI-PRESIÓN

SI-TEMP IND

SI-MF

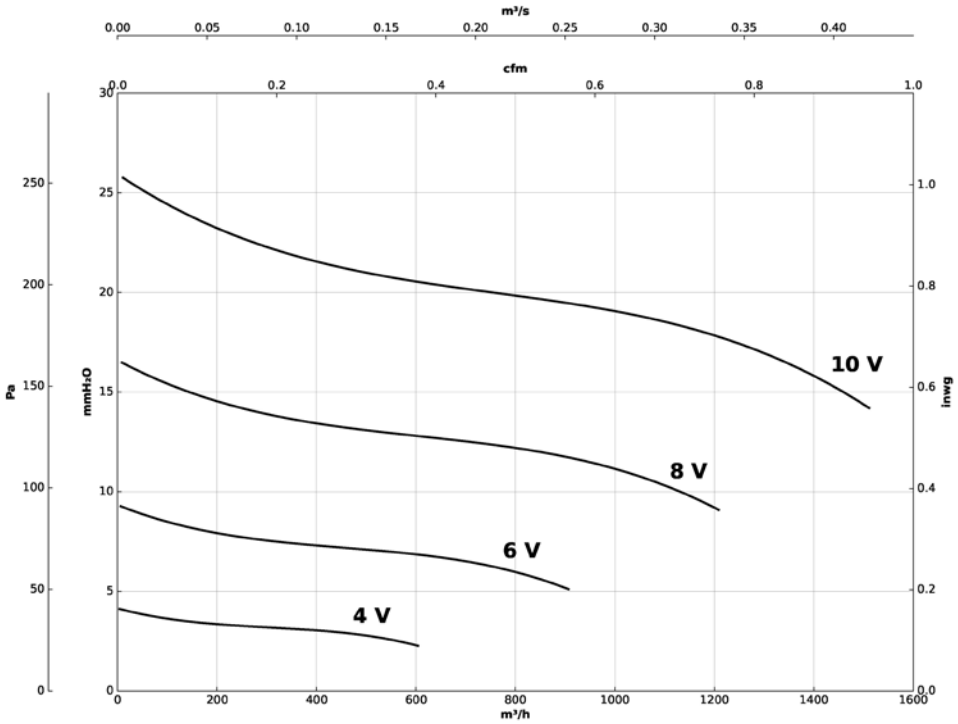
SI-CO2 IND

SI-HUMEDAD

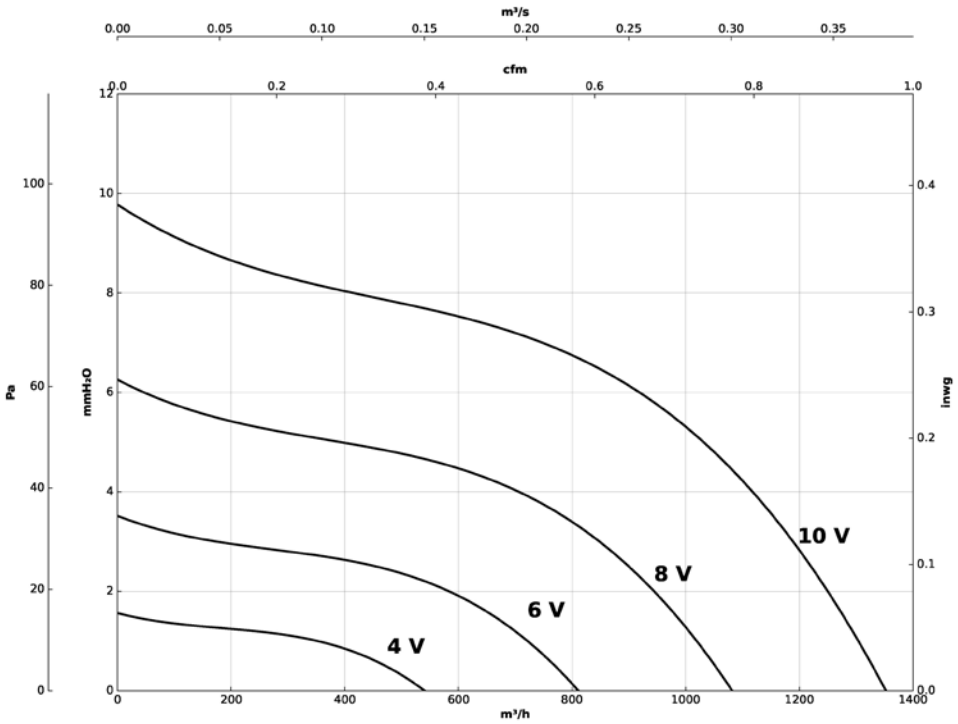
Characteristic curves

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

1919-4M-1/5 IE4



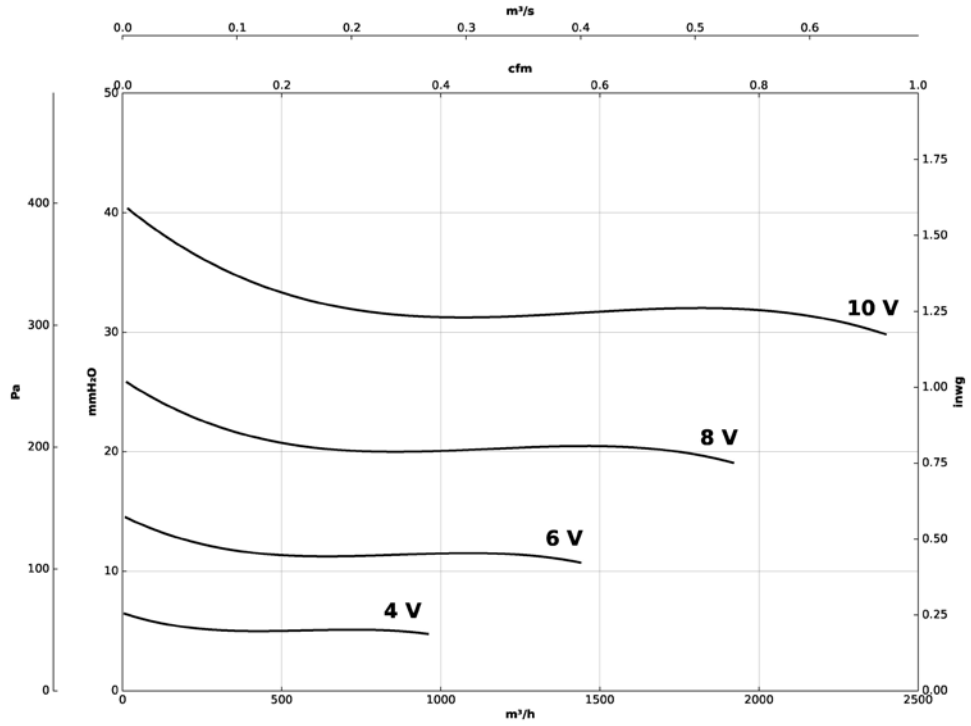
1919-6M-1/10 IE4



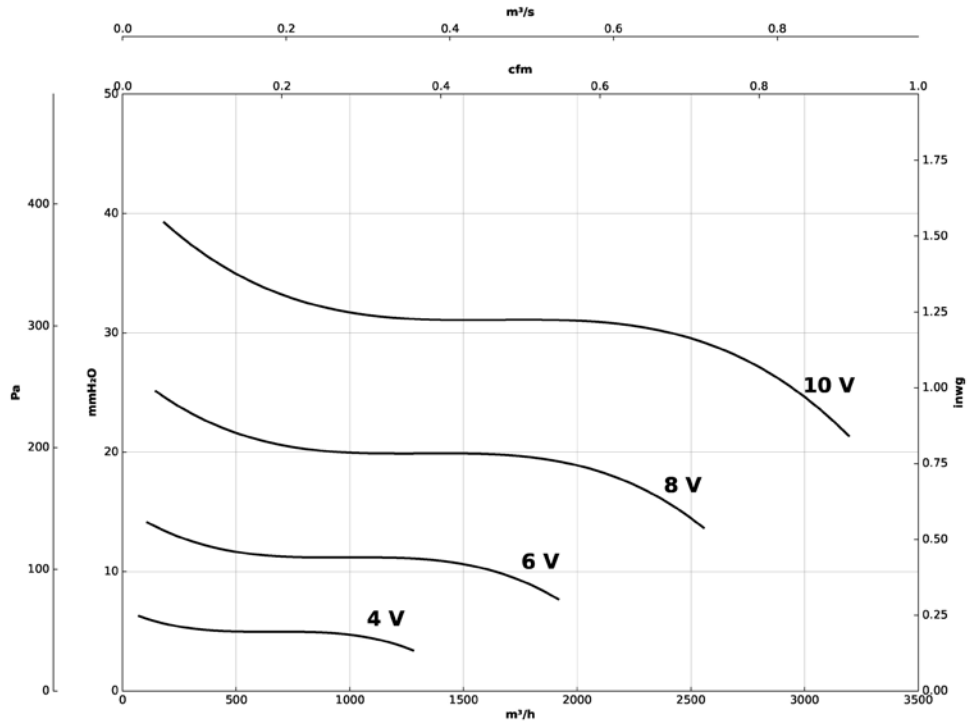
Characteristic curves

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

2525-4M-1/2 IE4



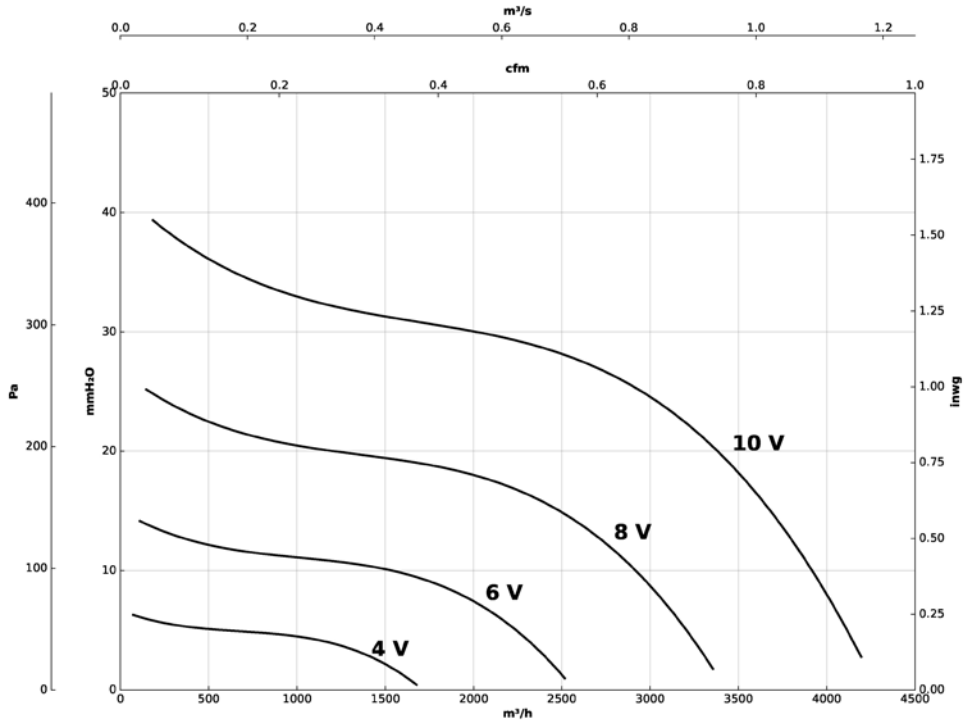
2525-4M-3/4 IE4



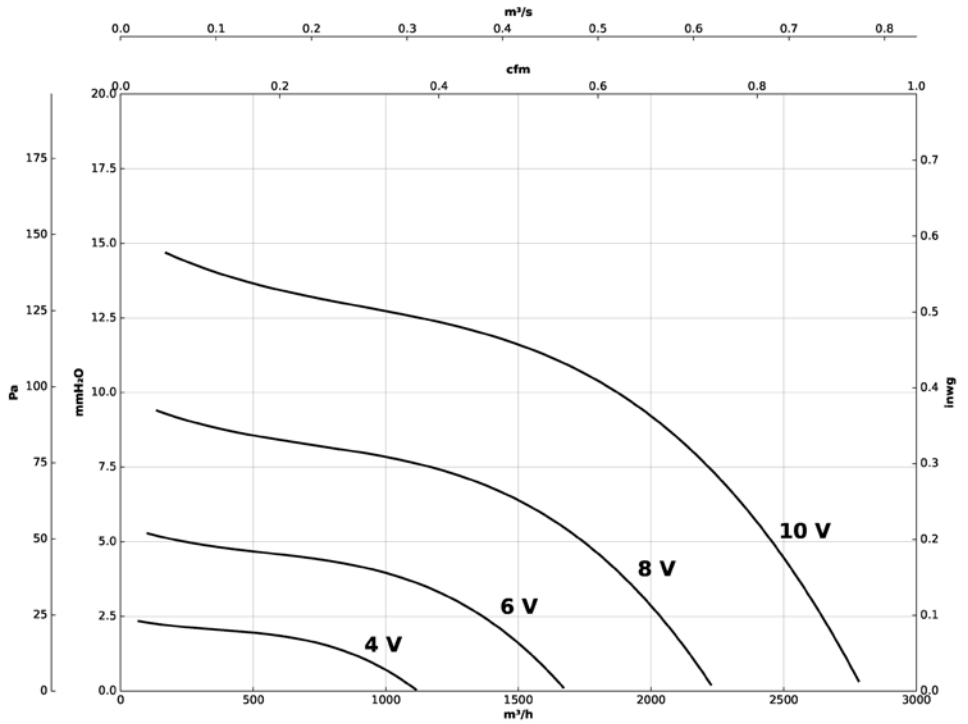
Characteristic curves

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

2525-4M-1 IE4



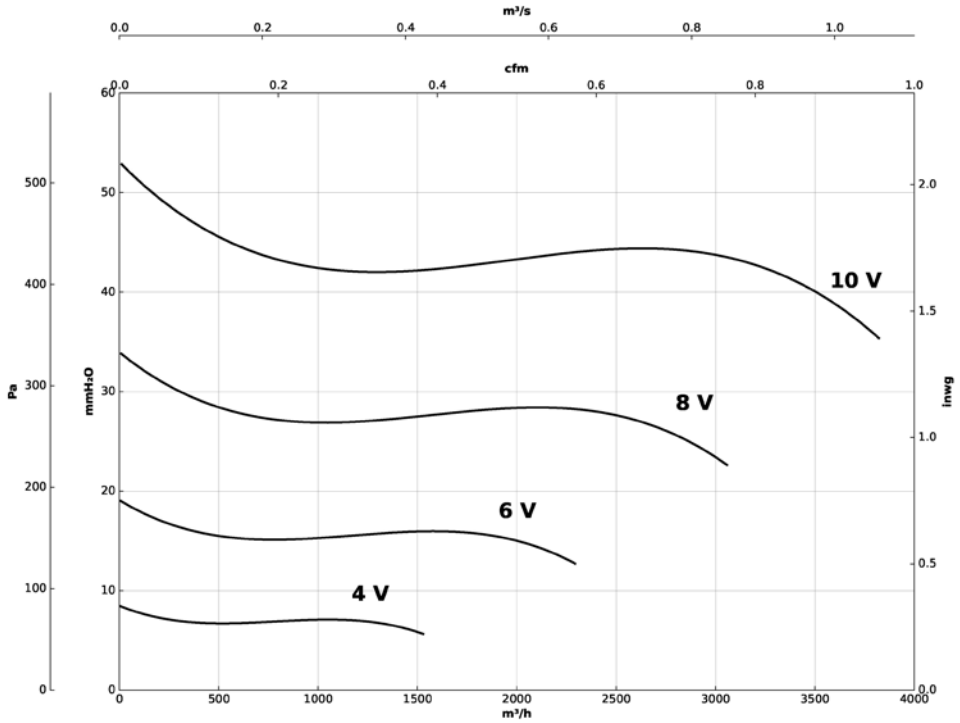
2525-6M-1/3 IE4



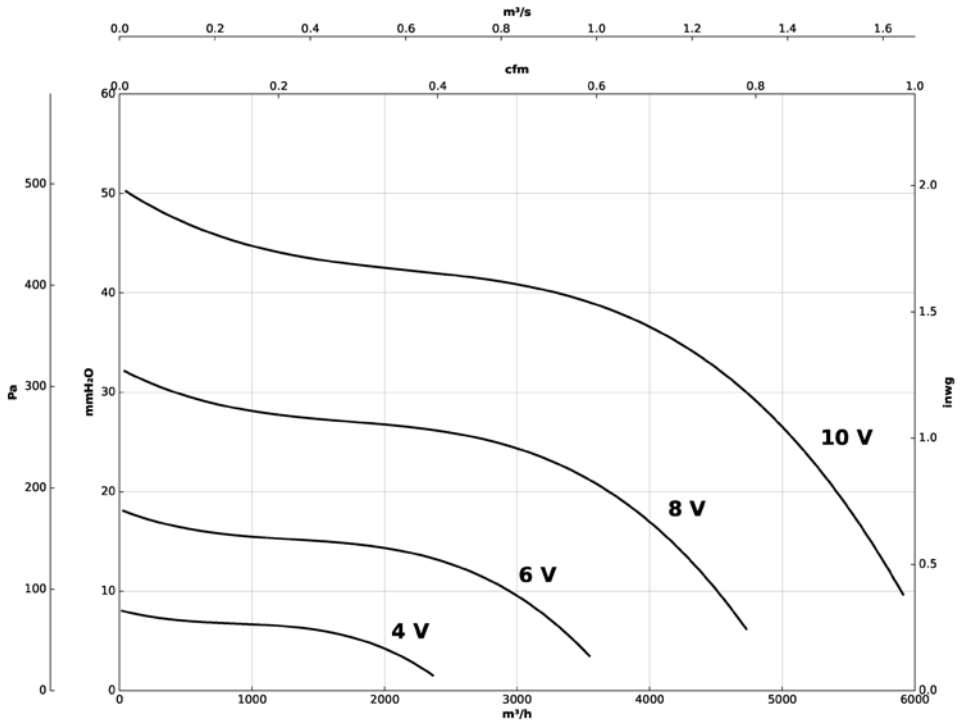
Characteristic curves

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

2828-4M-1 IE4



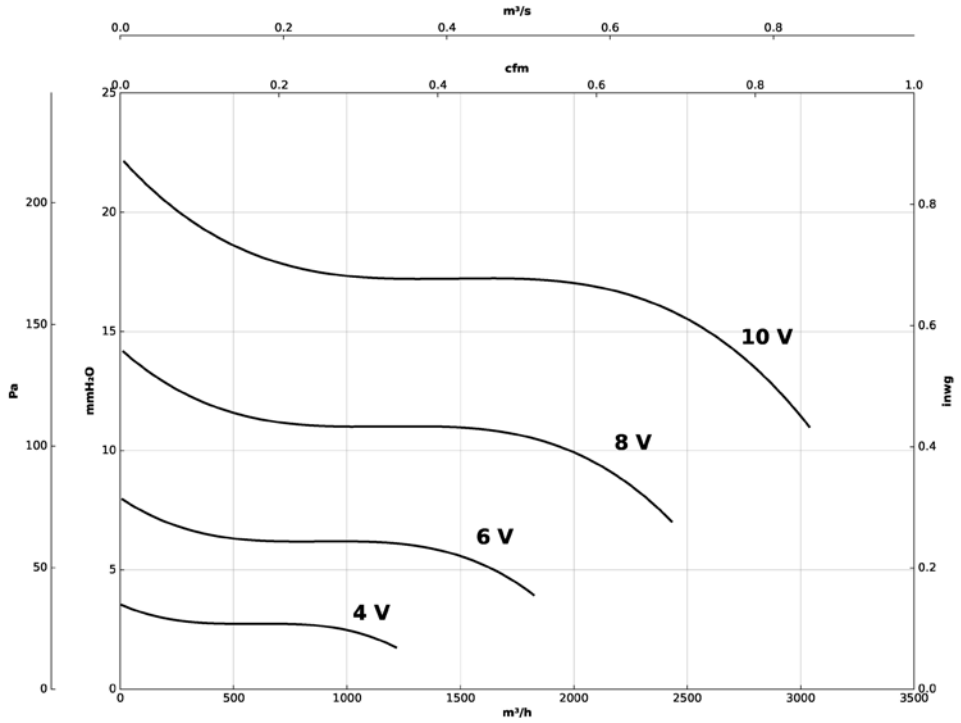
2828-4M-2 IE4



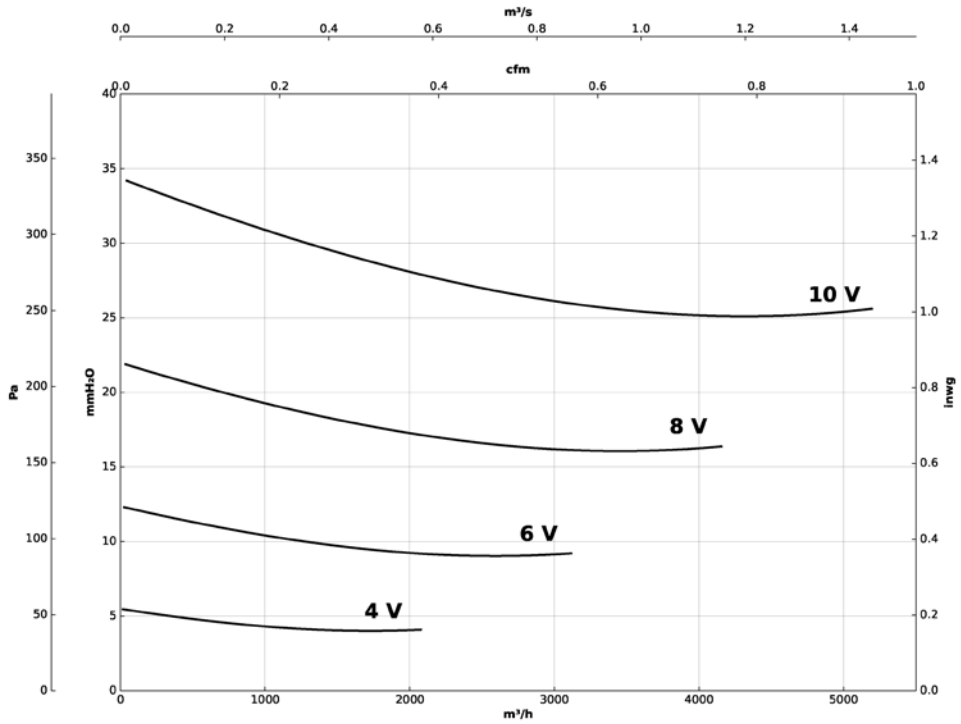
Characteristic curves

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

2828-6M-1/3 IE4



3333-6M-1 IE4



CBD/B/EC

Double inlet centrifugal fans, direct motor EC Technology IE4 with integrated electronics and without support feet

EC TECHNOLOGY MOTOR with integrated electronics

EC CONTROL
Supplied as an optional accessory

Double inlet centrifugal fans, direct motor EC Technology IE4 with integrated electronics and forward curved impeller, specially designed for high energy efficiency.

Fan:
- Galvanized steel sheet casing.
- Forward curved impeller in galvanized sheet steel.
- Supplied with inlet flange and without support feet.

Motor:
- High efficiency EC Technology motors with integrated electronics, regulated by 0-10 V.
- IE4 efficiency motors, class F and IP54 protection.
- Single-phase 190-250 V 50/60 Hz.
- Working temperature: -25 ºC +60 ºC.

EC CONTROL:Supplied as an optional accessory. Control panel for ventilation systems with EC Technology motors with the electronics integrated in the motor itself. With the following characteristics:
- CPC: Constant pressure control.
- CFC: Constant flow control.
- DAY / NIGHT: Double pressure setpoint adjustment according to time of day.
- External sensor: compatible with temperature, humidity, air quality or CO sensor.
- Equipment preconfigured in constant pressure mode with 100 Pa set point.

Finish:
- Anti-corrosive in galvanized steel sheet.

High quality, extremely robust impeller, dynamically balanced in accordance with ISO 21940-11

Order code

CBD/B/EC — 2525 — 4M — 3/4 — IE4

CBD/B/EC: Double inlet centrifugal fans, direct motor EC Technology IE4 with integrated electronics and without support feet

Impeller size mm

mm	inch
1919	7/7
2525	9/9
2828	10/10
3333	12/12

Number of motor poles
4=1400 r/min 50 Hz
6=900 r/min 50 Hz

M = Single-phase

Motor power (HP)

IE4 motor

Technical characteristics

Model	Equivalence inches	Max. speed (r/min)	Maximum admissible current (A) 230V	Max. electric power (kW)	Maximum flow rate (m^3/h)	Sound pressure level dB (A)	Approx. weight (Kg)	According ErP *
CBD/B/EC-1919-4M-1/5 IE4	7/7	1400	1.65	0.18	1520	59	9	Excluded
CBD/B/EC-1919-6M-1/10 IE4	7/7	900	0.98	0.09	1374	53	9	Excluded
CBD/B/EC-2525-4M-1/2 IE4	9/9	1400	1.64	0.37	2400	66	10	2020
CBD/B/EC-2525-4M-3/4 IE4	9/9	1400	2.37	0.55	3200	70	11	2020
CBD/B/EC-2525-4M-1 IE4	9/9	1400	3.12	0.75	4200	71	12	2020
CBD/B/EC-2525-6M-1/3 IE4	9/9	900	1.07	0.25	2785	62	11	2020
CBD/B/EC-2828-4M-1 IE4	10/10	1400	4.12	0.75	3827	72	13	2020
CBD/B/EC-2828-4M-2 IE4	10/10	1410	11.04	1.50	5915	74	15	2020
CBD/B/EC-2828-6M-1/3 IE4	10/10	900	1.10	0.25	3046	62	13	2020
CBD/B/EC-3333-6M-1 IE4	12/12	900	7.83	1.10	5200	71	21	2020

* In accordance with the ErP 2020 draft

Erp. (Energy Related Products)

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

Acoustic characteristics

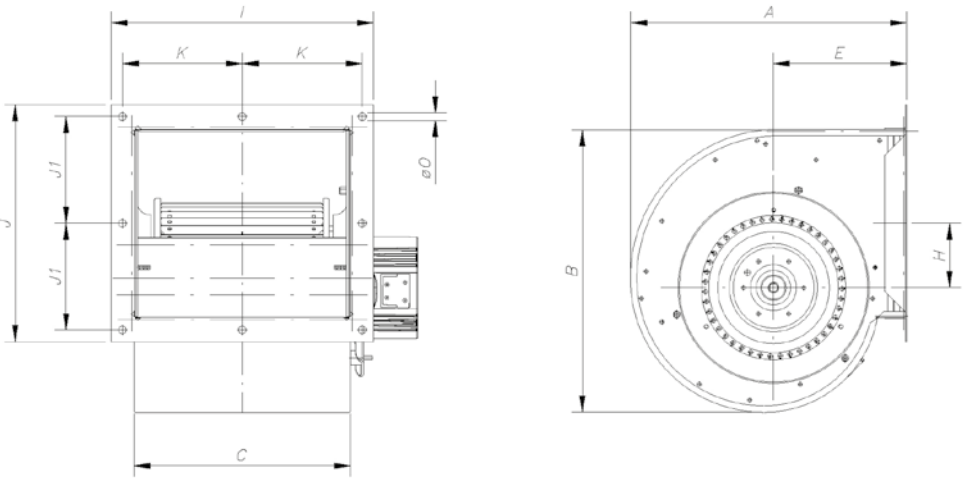
The indicated values are determined by measuring the sound pressure level and sound power in dB(A) obtained in a free field at a distance equivalent to twice the size of the fan plus the impeller diameter, with a minimum of 1.5 m.

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

	63	125	250	500	1000	2000	4000	8000
1919-4M-1/5 IE4	29	44	55	63	65	64	63	55
1919-6M-1/10 IE4	23	38	49	57	59	58	57	49
2525-4M-1/2 IE4	36	51	62	70	72	71	70	62
2525-4M-3/4 IE4	40	55	66	74	76	75	74	66
2525-4M-1 IE4	41	56	67	75	77	76	75	67

	63	125	250	500	1000	2000	4000	8000
2525-6M-1/3 IE4	32	47	58	66	68	67	66	58
2828-4M-1 IE4	42	57	68	76	78	77	76	68
2828-4M-2 IE4	44	59	70	78	80	79	78	70
2828-6M-1/3 IE4	32	47	58	66	68	67	66	58
3333-6M-1 IE4	41	56	67	75	77	76	75	67

Dimensions mm



	Equivalence inches	A	B	C	E	H	I	J	J1	K	øO
CBD/B/EC-1919	7/7	315	322	230	152	86.5	295	273	120.5	131.5	10
CBD/B/EC-2525	9/9	385	393	300	183	89	365	328	148	166.5	10
CBD/B/EC-2828	10/10	426	442	326	202	102	391	357	162.5	179.5	10
CBD/B/EC-3333	12/12	497	527	387	230	121	452	410	189	210	10

Characteristic curves

See series characteristic curves: CBD/EC

Accessories

INT | EC CONTROL | MTP | SI-PRESIÓN | SI-TEMP IND | SI-MF | SI-CO2 IND | SI-HUMEDAD | PSB

CJBD/EC

Acoustically insulated ventilation units and EC Technology IE4 motor with integrated electronics

EC TECHNOLOGY MOTOR with integrated electronics

Ventilation units with forward curved impeller and EC Technology IE4 motor with integrated electronics, specially designed to obtain high energy efficiency.

Fan:
- Galvanized steel sheet casing.
- Forward curved impeller in galvanized sheet steel.

Motor:
- High efficiency EC Technology motors with integrated electronics, regulated by 0-10 V.
- IE4 efficiency motors, class F and IP54 protection.

- Single-phase 190-250 V 50/60 Hz.
- Working temperature: -25 °C +60 °C.

Finish:
- Anti-corrosive in galvanized steel sheet.

With support foot to facilitate mounting.

Order code

CJBD/EC — 2525 — 4M — 3/4 — IE4

CJBD/EC: Acoustically insulated ventilation units and EC Technology IE4 motor with integrated electronics

Impeller size mm

mm	inch
1919	7/7
2525	9/9
2828	10/10
3333	12/12

Number of motor poles
4=1400 r/min 50 Hz
6=900 r/min 50 Hz

M = Single-phase

Motor power (HP)

IE4 motor

Technical characteristics

Model	Equivalence inches	Max. speed (r/min)	Maximum admissible current (A) 230V	Max. electric power (kW)	Maximum flow rate (m³/h)	Sound pressure level dB (A)	Approx. weight (Kg)	According ErP
CJBD/EC-1919-4M-1/5 IE4	7/7	1400	1.65	0.18	1520	60	21	2018
CJBD/EC-1919-6M-1/10 IE4	7/7	900	0.98	0.09	1374	55	21	2018
CJBD/EC-2525-4M-1/2 IE4	9/9	1400	1.64	0.37	2400	68	24	2018
CJBD/EC-2525-4M-3/4 IE4	9/9	1400	2.37	0.55	3200	72	25	2018
CJBD/EC-2525-4M-1 IE4	9/9	1400	3.12	0.75	4200	73	26	2018
CJBD/EC-2525-6M-1/3 IE4	9/9	900	1.07	0.25	2785	63	25	2018
CJBD/EC-2828-4M-1 IE4	10/10	1400	4.12	0.75	3827	74	30	2018
CJBD/EC-2828-4M-2 IE4	10/10	1400	11.04	1.50	5915	76	32	2018
CJBD/EC-2828-6M-1/3 IE4	10/10	900	1.10	0.25	3046	63	31	2018
CJBD/EC-3333-6M-1 IE4	12/12	900	7.83	1.10	5200	72	45	2018

Erp. (Energy Related Products)

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

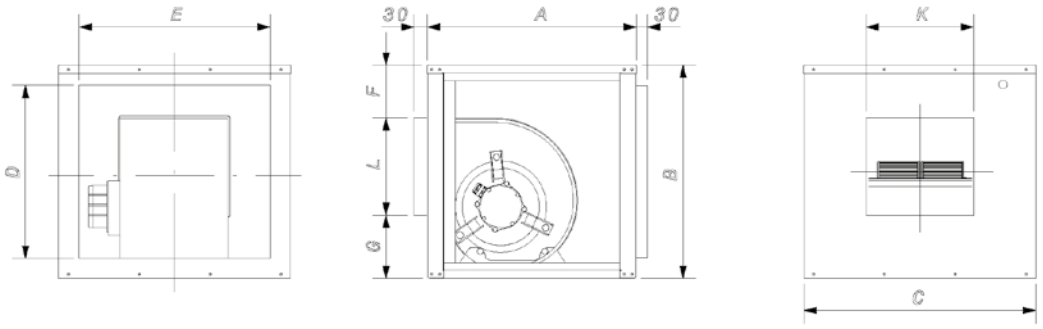
Acoustic characteristics

The indicated values are determined by measuring the sound pressure level and sound power in dB(A) obtained in a free field at a distance equivalent to twice the size of the fan plus the impeller diameter, with a minimum of 1.5 m.

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

	63	125	250	500	1000	2000	4000	8000
1919-4M-1/5 IE4	45	56	60	64	66	65	64	55
1919-6M-1/10 IE4	40	51	55	59	61	60	59	50
2525-4M-1/2 IE4	53	64	68	72	74	73	72	63
2525-4M-3/4 IE4	57	68	72	76	78	77	76	67
2525-4M-1 IE4	58	69	73	77	79	78	77	68
2525-6M-1/3 IE4	48	59	63	67	69	68	67	58
2828-4M-1 IE4	59	70	74	78	80	79	78	69
2828-4M-2 IE4	61	72	76	80	82	81	80	71
2828-6M-1/3 IE4	48	59	63	67	69	68	67	58
3333-6M-1 IE4	57	68	72	76	78	77	76	67

Dimensions mm

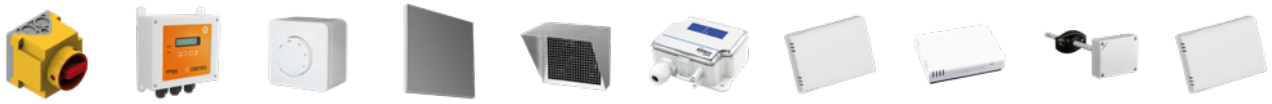


	Equivalence inches	A	B	C	D	E	F	G	K	L
CJBD/EC-1919	7/7	450	460	500	370	410	115	135	232	210
CJBD/EC-2525	9/9	500	522	550	426	454	107	147	303	268
CJBD/EC-2828	10/10	550	575	600	479	504	104	177	330	294
CJBD/EC-3333	12/12	650	650	700	554	604	105	198	392	347

Characteristic curves

See series characteristic curves: CBD/EC

Accessories



INT | EC CONTROL | MTP | TEJ | VIS | SI-PRESIÓN | SI-TEMP IND | SI-MF | SI-CO2 IND | SI-HUMEDAD

CJBD/EC/AL

Ventilation units with aluminum profiles and EC Technology IE4 motor with integrated electronics

EC TECHNOLOGY MOTOR with integrated electronics

Ventilation units with forward curved impeller and EC Technology IE4 motor with integrated electronics, specially designed to obtain high energy efficiency.

Fan:
- Galvanized steel sheet casing.
- Forward curved impeller in galvanized sheet steel.

Motor:
- High efficiency EC Technology motors with integrated electronics, regulated by 0-10 V.
- IE4 efficiency motors, class F and IP54 protection.
- Single-phase 190-250 V 50/60 Hz.
- Working temperature: -25 °C +60 °C.

Finish:
- Anti-corrosive in pre-lacquered steel sheet and aluminum.

Order code

CJBD/EC/AL — 2525 — 4M — 3/4 — IE4

- **CJBD/EC/AL**: CJBD/EC/AL: Ventilation units with aluminum profiles and EC Technology IE4 motor with integrated electronics
- **2525**: Impeller size mm

mm	inch
1919	7/7
2525	9/9
2828	10/10
3333	12/12

- **4M**: Number of motor poles
  4=1400 r/min 50 Hz
  6=900 r/min 50 Hz
- **M**: M = Single-phase
- **3/4**: Motor power (HP)
- **IE4**: IE4 motor

Technical characteristics

Model	Equivalence inches	Max. speed (r/min)	Maximum admissible current (A) 230V	Max. electric power (kW)	Maximum flow rate (m³/h)	Sound pressure level dB (A)	Approx. weight (Kg)	According ErP
CJBD/EC/AL-1919-4M-1/5 IE4	7/7	1400	1.65	0.18	1520	60	26	2018
CJBD/EC/AL-1919-6M-1/10 IE4	7/7	900	0.98	0.09	1374	55	26	2018
CJBD/EC/AL-2525-4M-1/2 IE4	9/9	1400	1.64	0.37	2400	68	29	2018
CJBD/EC/AL-2525-4M-3/4 IE4	9/9	1400	2.37	0.55	3200	72	30	2018
CJBD/EC/AL-2525-4M-1 IE4	9/9	1400	3.12	0.75	4200	73	31	2018
CJBD/EC/AL-2525-6M-1/3 IE4	9/9	900	1.07	0.25	2785	63	30	2018
CJBD/EC/AL-2828-4M-1 IE4	10/10	1400	4.12	0.75	3827	74	35	2018
CJBD/EC/AL-2828-4M-2 IE4	10/10	1400	11.04	1.50	5915	76	37	2018
CJBD/EC/AL-2828-6M-1/3 IE4	10/10	900	1.10	0.25	3046	63	36	2018
CJBD/EC/AL-3333-6M-1 IE4	12/12	900	7.83	1.10	5200	72	50	2018

Erp. (Energy Related Products)

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

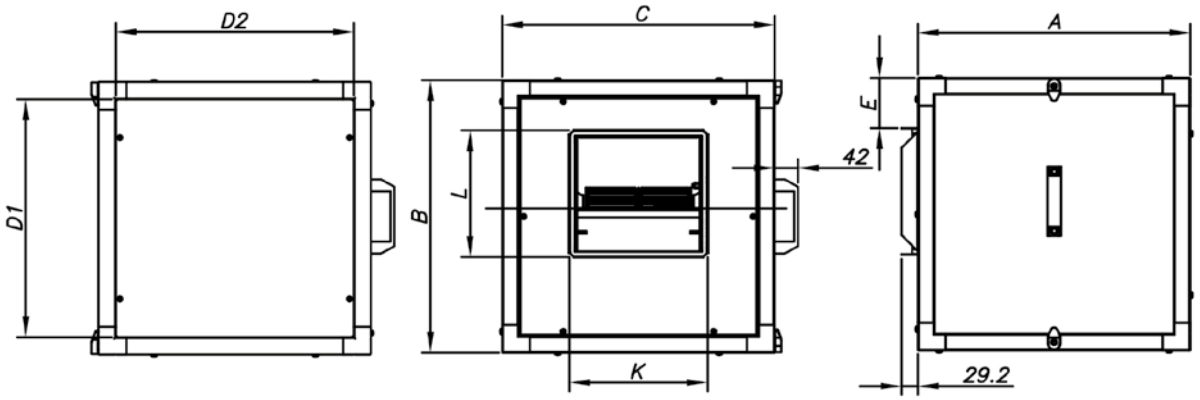
Acoustic characteristics

The indicated values are determined by measuring the sound pressure level and sound power in dB(A) obtained in a free field at a distance equivalent to twice the size of the fan plus the impeller diameter, with a minimum of 1.5 m.

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

	63	125	250	500	1000	2000	4000	8000
1919-4M-1/5 IE4	45	56	60	64	66	65	64	55
1919-6M-1/10 IE4	40	51	55	59	61	60	59	50
2525-4M-1/2 IE4	53	64	68	72	74	73	72	63
2525-4M-3/4 IE4	57	68	72	76	78	77	76	67
2525-4M-1 IE4	58	69	73	77	79	78	77	68
2525-6M-1/3 IE4	48	59	63	67	69	68	67	58
2828-4M-1 IE4	59	70	74	78	80	79	78	69
2828-4M-2 IE4	61	72	76	80	82	81	80	71
2828-6M-1/3 IE4	48	59	63	67	69	68	67	58
3333-6M-1 IE4	57	68	72	76	78	77	76	67

Dimensions mm

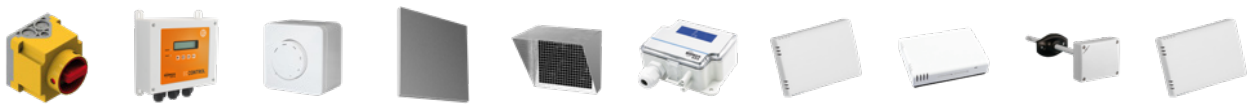


	Equivalence inches	A	B	C	D1	D2	E	L	K
CJBD/EC/AL-1919	7/7	490	490	490	428	428	91	226	247
CJBD/EC/AL-2525	9/9	550	550	550	488	488	86	279	317
CJBD/EC/AL-2828	10/10	605	605	605	543	543	88	306	343
CJBD/EC/AL-3333	12/12	680	680	680	618	618	84	360	404

Characteristic curves

See series characteristic curves: CBD/EC

Accessories



INT | EC CONTROL | MTP | TEJ | VIS | SI-PRESIÓN | SI-TEMP IND | SI-MF | SI-CO2 IND | SI-HUMEDAD

CJBD/EC/ALS

Ventilation units with aluminum profile, double insulating wall and EC Technology IE4 motor with integrated electronics

EC TECHNOLOGY MOTOR with integrated electronics

Ventilation units with forward curved impeller and EC Technology IE4 motor with integrated electronics, specially designed to obtain high energy efficiency.

Fan:
- Galvanized steel sheet casing.
- Forward curved impeller in galvanized sheet steel.

Motor:
- High efficiency EC Technology motors with integrated electronics, regulated by 0-10 V.
- IE4 efficiency motors, class F and IP54 protection.
- Single-phase 190-250 V 50/60 Hz.
- Working temperature: -25 °C +60 °C.

Finish:
- Anti-corrosive in pre-lacquered steel sheet and aluminum.

Order code

CJBD/EC/ALS — 2525 — 4M — 3/4 — IE4

CJBD/EC/ALS: Ventilation units with aluminum profile, double insulating wall and EC Technology IE4 motor with integrated electronics

Impeller size mm

mm	inch
1919	7/7
2525	9/9
2828	10/10
3333	12/12

Number of motor poles
4=1400 r/min 50 Hz
6=900 r/min 50 Hz

M = Single-phase

Motor power (HP)

IE4 motor

Technical characteristics

Model	Equivalence inches	Max. speed (r/min)	Maximum admissible current (A) 230V	Max. electric power (kW)	Maximum flow rate (m^3/h)	Sound pressure level dB (A)	Approx. weight (Kg)	According ErP
CJBD/EC/ALS-1919-4M-1/5 IE4	7/7	1400	1.65	0.18	1520	57	26	2018
CJBD/EC/ALS-1919-6M-1/10 IE4	7/7	900	0.98	0.09	1374	52	26	2018
CJBD/EC/ALS-2525-4M-1/2 IE4	9/9	1400	1.64	0.37	2400	65	29	2018
CJBD/EC/ALS-2525-4M-3/4 IE4	9/9	1400	2.37	0.55	3200	69	30	2018
CJBD/EC/ALS-2525-4M-1 IE4	9/9	1400	3.12	0.75	4200	70	31	2018
CJBD/EC/ALS-2525-6M-1/3 IE4	9/9	900	1.07	0.25	2785	60	30	2018
CJBD/EC/ALS-2828-4M-1 IE4	10/10	1400	4.12	0.75	3827	71	35	2018
CJBD/EC/ALS-2828-4M-2 IE4	10/10	1400	11.04	1.50	5915	73	37	2018
CJBD/EC/ALS-2828-6M-1/3 IE4	10/10	900	1.10	0.25	3046	60	36	2018
CJBD/EC/ALS-3333-6M-1 IE4	12/12	900	7.83	1.10	5200	69	50	2018

Erp. (Energy Related Products)

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

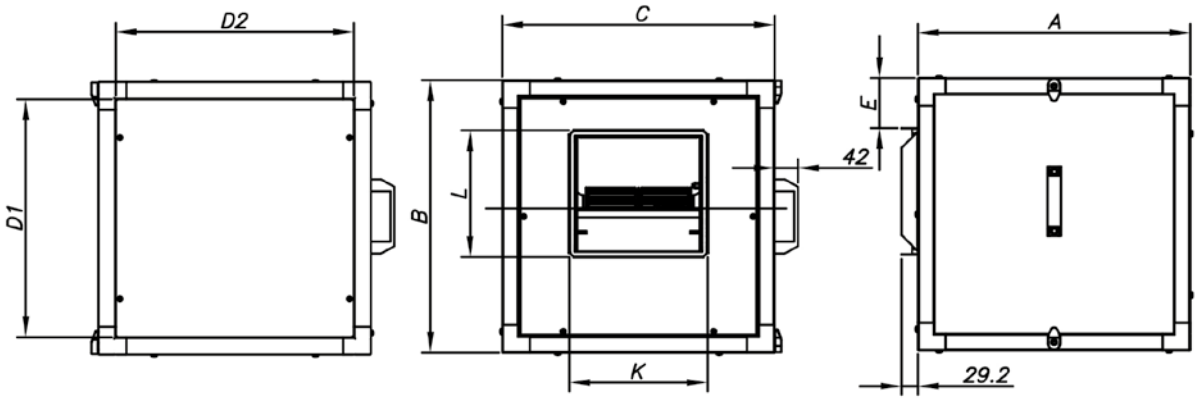
Acoustic characteristics

The indicated values are determined by measuring the sound pressure level and sound power in dB(A) obtained in a free field at a distance equivalent to twice the size of the fan plus the impeller diameter, with a minimum of 1.5 m.

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

	63	125	250	500	1000	2000	4000	8000
1919-4M-1/5 IE4	42	53	57	61	63	62	61	52
1919-6M-1/10 IE4	37	48	52	56	58	57	56	47
2525-4M-1/2 IE4	50	61	65	69	71	70	69	60
2525-4M-3/4 IE4	54	65	69	73	75	74	73	64
2525-4M-1 IE4	55	66	70	74	76	75	74	65
2525-6M-1/3 IE4	45	56	60	64	66	65	64	55
2828-4M-1 IE4	56	67	71	75	77	76	75	66
2828-4M-2 IE4	58	69	73	77	79	78	77	68
2828-6M-1/3 IE4	45	56	60	64	66	65	64	55
3333-6M-1 IE4	54	65	69	73	75	74	73	64

Dimensions mm

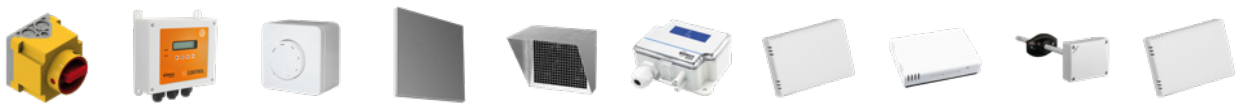


	Equivalence inches	A	B	C	D1	D2	E	L	K
CJBD/EC/ALS-1919	7/7	490	490	490	428	428	91	226	247
CJBD/EC/ALS-2525	9/9	550	550	550	488	488	86	279	317
CJBD/EC/ALS-2828	10/10	605	605	605	543	543	88	306	343
CJBD/EC/ALS-3333	12/12	680	680	680	618	618	84	360	404

Characteristic curves

See series characteristic curves: CBD/EC

Accessories



INT | EC CONTROL | MTP | TEJ | VIS | SI-PRESIÓN | SI-TEMP IND | SI-MF | SI-CO2 IND | SI-HUMEDAD

CJBD/EC/C

Ventilation units with circular inlet and outlet and EC Technology IE4 motor with integrated electronics

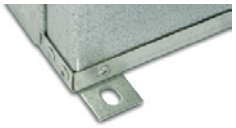
EC TECHNOLOGY MOTOR with integrated electronics

Ventilation units with forward curved impeller and EC Technology IE4 motor with integrated electronics, specially designed to obtain high energy efficiency.

Fan:
- Galvanized steel sheet casing.
- Forward curved impeller in galvanized sheet steel.

Motor:
- High efficiency EC Technology motors with integrated electronics, regulated by 0-10 V.
- IE4 efficiency motors, class F and IP54 protection.
- Single-phase 190-250 V 50/60 Hz.
- Working temperature: -25 °C +60 °C.

Finish:
- Anti-corrosive in galvanized steel sheet.



With support foot to facilitate mounting.

Order code

CJBD/EC/C — 2525 — 4M — 3/4 — IE4

CJBD/EC/C: Ventilation units with circular inlet and outlet and EC Technology IE4 motor with integrated electronics

Impeller size mm

mm	inch
1919	7/7
2525	9/9
2828	10/10
3333	12/12

Number of motor poles
4=1400 r/min 50 Hz
6=900 r/min 50 Hz

M = Single-phase

Motor power (HP)

IE4 motor

Technical characteristics

Model	Equivalence inches	Max. speed (r/min)	Maximum admissible current (A) 230V	Max. electric power (kW)	Maximum flow rate (m³/h)	Sound pressure level dB (A)	Approx. weight (Kg)	According ErP
CJBD/EC/C-1919-4M-1/5 IE4	7/7	1400	1.65	0.18	1520	60	21	2018
CJBD/EC/C-1919-6M-1/10 IE4	7/7	900	0.98	0.09	1374	55	21	2018
CJBD/EC/C-2525-4M-1/2 IE4	9/9	1400	1.64	0.37	2400	68	24	2018
CJBD/EC/C-2525-4M-3/4 IE4	9/9	1400	2.37	0.55	3200	72	25	2018
CJBD/EC/C-2525-4M-1 IE4	9/9	1400	3.12	0.75	4200	73	26	2018
CJBD/EC/C-2525-6M-1/3 IE4	9/9	900	1.07	0.25	2785	63	25	2018
CJBD/EC/C-2828-4M-1 IE4	10/10	1400	4.12	0.75	3827	74	30	2018
CJBD/EC/C-2828-4M-2 IE4	10/10	1400	11.04	1.50	5915	76	32	2018
CJBD/EC/C-2828-6M-1/3 IE4	10/10	900	1.10	0.25	3046	63	31	2018
CJBD/EC/C-3333-6M-1 IE4	12/12	900	7.83	1.10	5200	72	45	2018

Erp. (Energy Related Products)

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

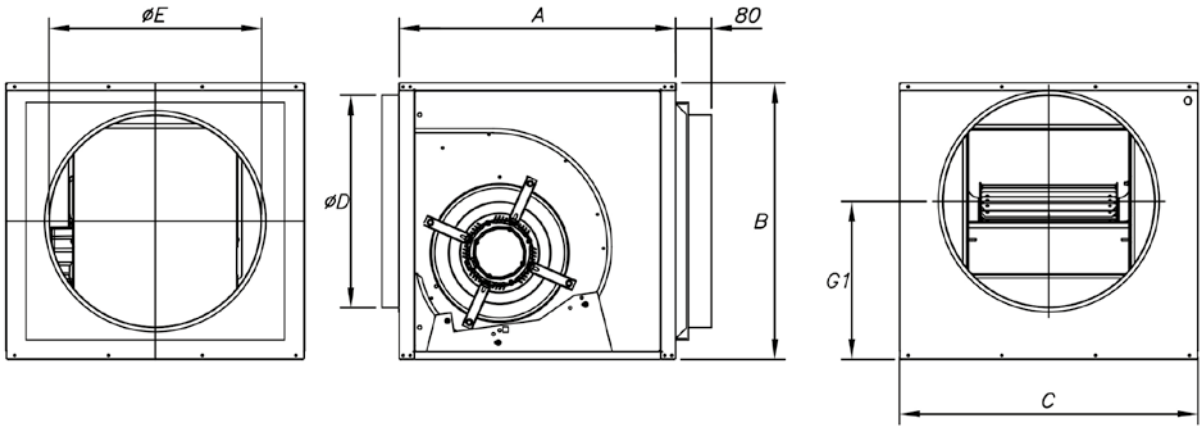
Acoustic characteristics

The indicated values are determined by measuring the sound pressure level and sound power in dB(A) obtained in a free field at a distance equivalent to twice the size of the fan plus the impeller diameter, with a minimum of 1.5 m.

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

	63	125	250	500	1000	2000	4000	8000
1919-4M-1/5 IE4	45	56	60	64	66	65	64	55
1919-6M-1/10 IE4	40	51	55	59	61	60	59	50
2525-4M-1/2 IE4	53	64	68	72	74	73	72	63
2525-4M-3/4 IE4	57	68	72	76	78	77	76	67
2525-4M-1 IE4	58	69	73	77	79	78	77	68
2525-6M-1/3 IE4	48	59	63	67	69	68	67	58
2828-4M-1 IE4	59	70	74	78	80	79	78	69
2828-4M-2 IE4	61	72	76	80	82	81	80	71
2828-6M-1/3 IE4	48	59	63	67	69	68	67	58
3333-6M-1 IE4	57	68	72	76	78	77	76	67

Dimensions mm

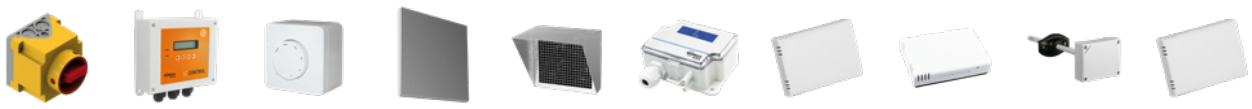


	Equivalence inches	A	B	C	øD	øE	G1
CJBD/EC/C-1919	7/7	450	460	500	250	250	245
CJBD/EC/C-2525	9/9	500	522	550	355	355	283.5
CJBD/EC/C-2828	10/10	550	575	600	400	400	324.5
CJBD/EC/C-3333	12/12	650	650	700	500	500	372.5

Characteristic curves

See series characteristic curves: CBD/EC

Accessories



INT | EC CONTROL | MTP | TEJ | VIS | SI-PRESIÓN | SI-TEMP IND | SI-MF | SI-CO2 IND | SI-HUMEDAD

CJBD/EC/CPC

Acoustically insulated ventilation units, EC Technology IE4 motor with integrated electronics and constant pressure control

EC TECHNOLOGY MOTOR with integrated electronics

Ventilation units with forward curved impeller, EC Technology IE4 motor with integrated electronics and constant pressure control, specially designed to obtain high energy efficiency.

Fan:
- Galvanized steel sheet casing.
- Forward curved impeller in galvanized sheet steel.

Motor:
- High efficiency EC Technology motors with integrated electronics, regulated by 0-10 V.
- IE4 efficiency motors, class F and IP54 protection.
- Single-phase 190-250 V 50/60 Hz.
- Working temperature: -25 ºC +60 ºC.

EC CONTROL:Supplied as an optional accessory. Control panel for ventilation systems with EC Technology motors with the electronics integrated in the motor itself. With the following characteristics:
- CPC: Constant pressure control.
- CFC: Constant flow control.
- DAY/NIGHT: Double pressure setpoint adjustment according to time of day.
- External sensor: compatible with temperature, humidity, air quality or CO sensor.
- Equipment preconfigured in constant pressure mode with 100 Pa set point.

Finish:
- Anti-corrosive in galvanized steel sheet.

Order code

CJBD/EC/CPC — 2525 — 4M — 3/4 — IE4

CJBD/EC/CPC: Acoustically insulated ventilation units, EC Technology IE4 motor with integrated electronics and constant pressure control

Impeller size mm

mm	inch
1919	7/7
2525	9/9
2828	10/10
3333	12/12

Number of motor poles
4=1400 r/min 50 Hz
6=900 r/min 50 Hz

M = Single-phase

Motor power (HP)

IE4 motor

Technical characteristics

Model	Equivalence inches	Max. speed (r/min)	Maximum admissible current (A) 230V	Max. electric power (kW)	Maximum flow rate (m³/h)	Sound pressure level dB (A)	Approx. weight (Kg)	According ErP
CJBD/EC/CPC-1919-4M-1/5 IE4	7/7	1400	1.65	0.18	1520	60	21	2018
CJBD/EC/CPC-1919-6M-1/10 IE4	7/7	900	0.98	0.09	1374	55	21	2018
CJBD/EC/CPC-2525-4M-1/2 IE4	9/9	1400	1.64	0.37	2400	68	24	2018
CJBD/EC/CPC-2525-4M-3/4 IE4	9/9	1400	2.37	0.55	3200	72	25	2018
CJBD/EC/CPC-2525-4M-1 IE4	9/9	1400	3.12	0.75	4200	73	26	2018
CJBD/EC/CPC-2525-6M-1/3 IE4	9/9	900	1.07	0.25	2785	63	25	2018
CJBD/EC/CPC-2828-4M-1 IE4	10/10	1400	4.12	0.75	3827	74	30	2018
CJBD/EC/CPC-2828-4M-2 IE4	10/10	1400	11.04	1.50	5915	76	32	2018
CJBD/EC/CPC-2828-6M-1/3 IE4	10/10	900	1.10	0.25	3046	63	31	2018
CJBD/EC/CPC-3333-6M-1 IE4	12/12	900	7.83	1.10	5200	72	45	2018

Erp. (Energy Related Products)

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

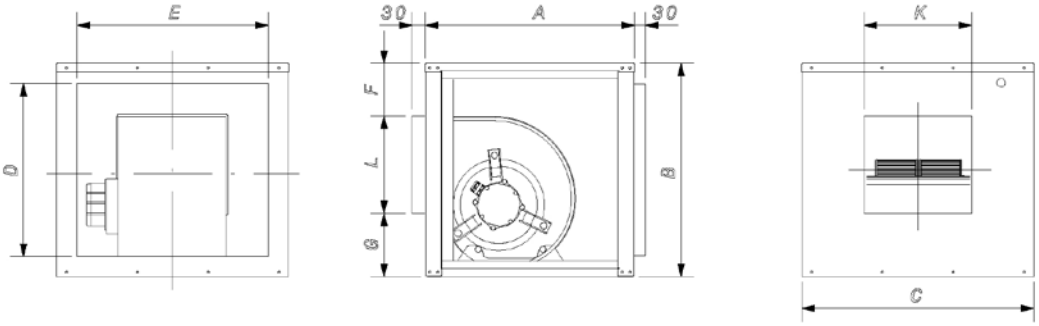
Acoustic characteristics

The indicated values are determined by measuring the sound pressure level and sound power in dB(A) obtained in a free field at a distance equivalent to twice the size of the fan plus the impeller diameter, with a minimum of 1.5 m.

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

	63	125	250	500	1000	2000	4000	8000
1919-4M-1/5 IE4	45	56	60	64	66	65	64	55
1919-6M-1/10 IE4	40	51	55	59	61	60	59	50
2525-4M-1/2 IE4	53	64	68	72	74	73	72	63
2525-4M-3/4 IE4	57	68	72	76	78	77	76	67
2525-4M-1 IE4	58	69	73	77	79	78	77	68
2525-6M-1/3 IE4	48	59	63	67	69	68	67	58
2828-4M-1 IE4	59	70	74	78	80	79	78	69
2828-4M-2 IE4	61	72	76	80	82	81	80	71
2828-6M-1/3 IE4	48	59	63	67	69	68	67	58
3333-6M-1 IE4	57	68	72	76	78	77	76	67

Dimensions mm

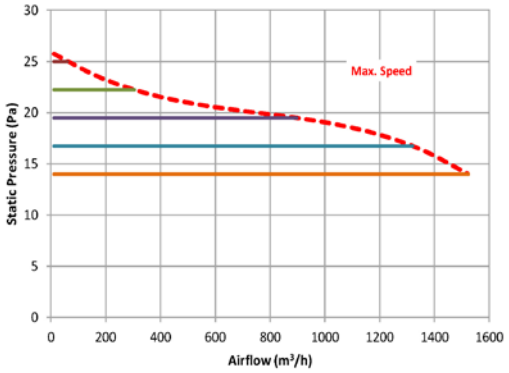


	Equivalence inches	A	B	C	D	E	F	G	K	L
CJBD/EC/CPC-1919	7/7	450	460	500	370	410	115	135	232	210
CJBD/EC/CPC-2525	9/9	500	522	550	426	454	107	147	303	268
CJBD/EC/CPC-2828	10/10	550	575	600	479	504	104	177	330	294
CJBD/EC/CPC-3333	12/12	650	650	700	554	604	105	198	392	347

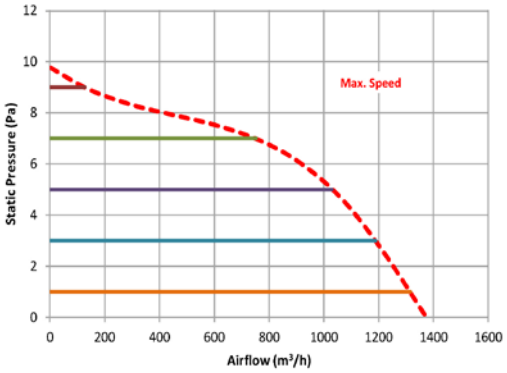
Characteristic curves

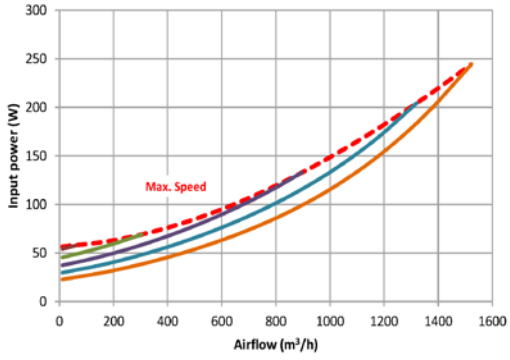
Q= Flow rate in m³/h, m³/s and cfm Pe= Static pressure in mm H_2O, Pa and inwg

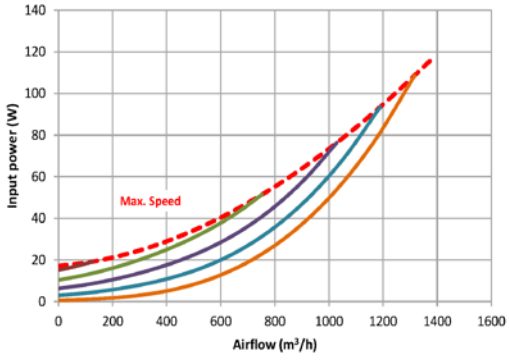
CJBD/EC/CPC-1919-4M-1/5



CJBD/EC/CPC-1919-6M-1/10



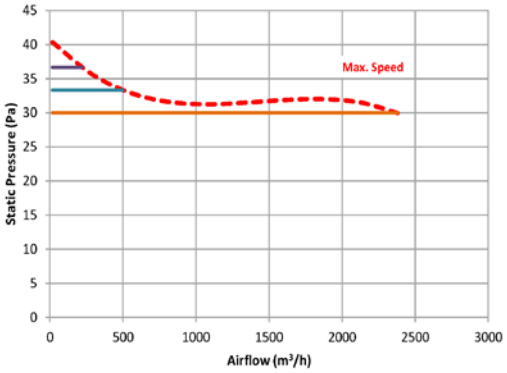


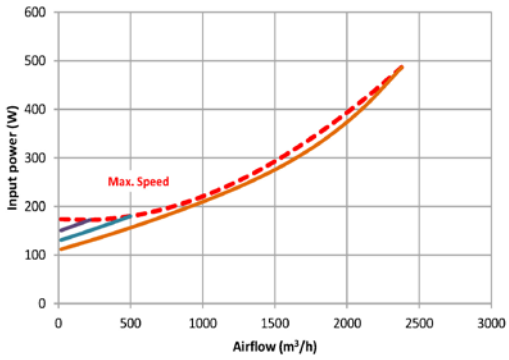


Characteristic curves

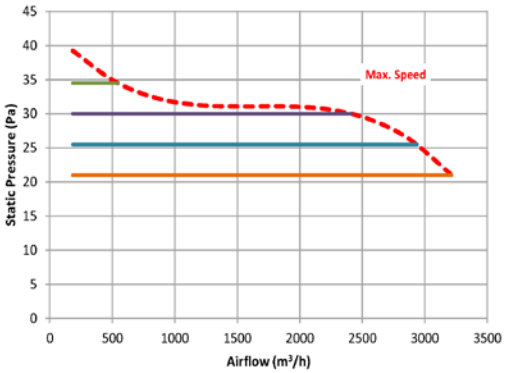
Q= Flow rate in m³/h, m³/s and cfm Pe= Static pressure in mm H_2O, Pa and inwg

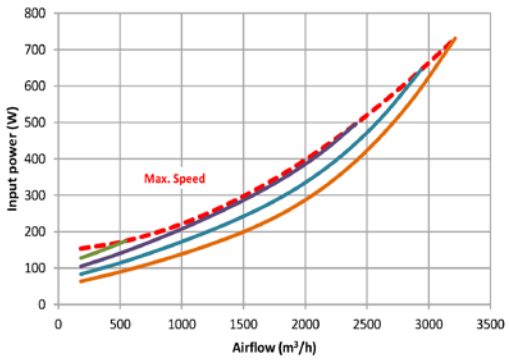
CJBD/EC/CPC-2525-4M-1/2





CJBD/EC/CPC-2525-4M-3/4





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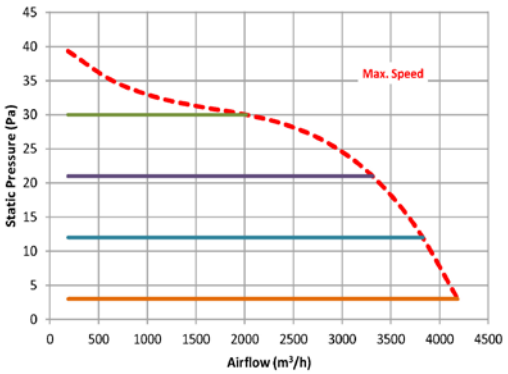
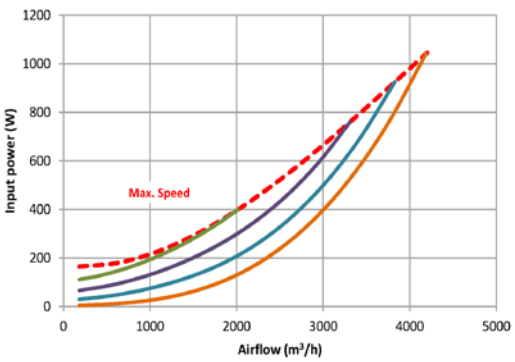
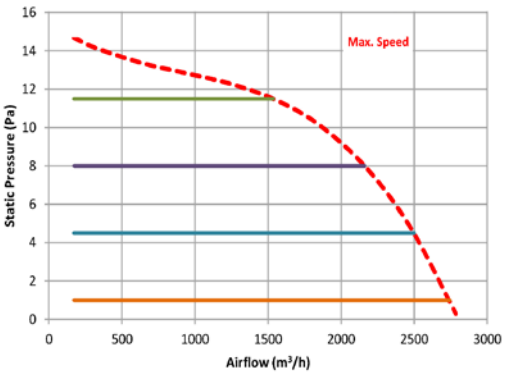
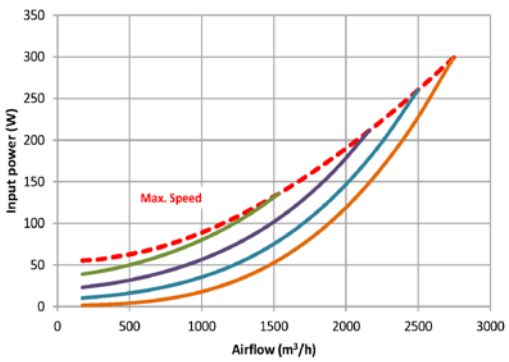




CJBD/EC/CPC-2525-6M-1/3

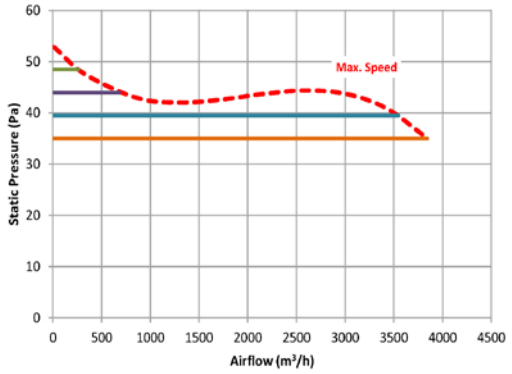




Characteristic curves

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

CJBD/EC/CPC-2828-4M-1



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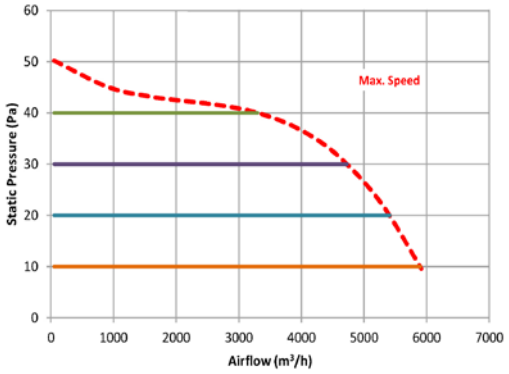
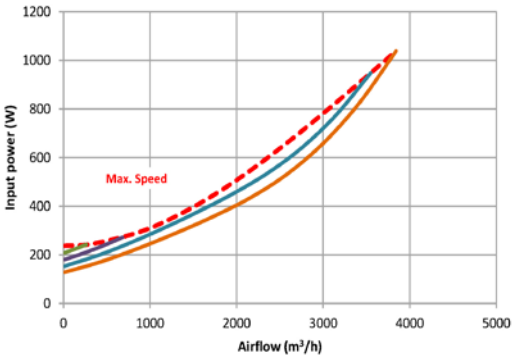
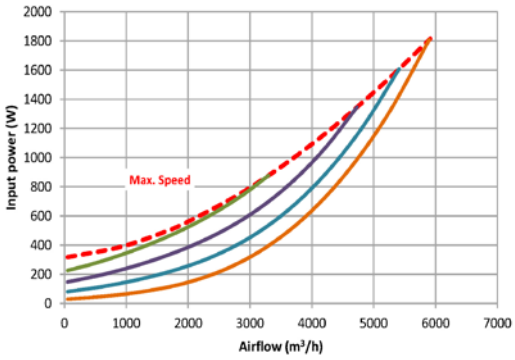
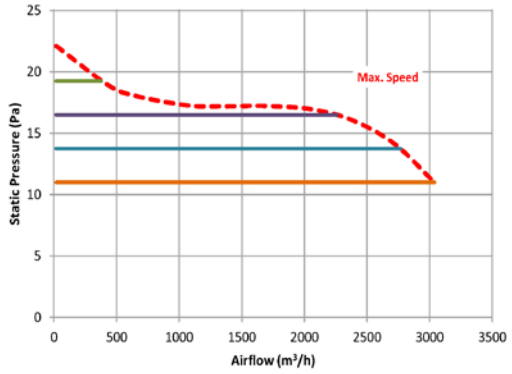






CJBD/EC/CPC-2828-6M-1/3



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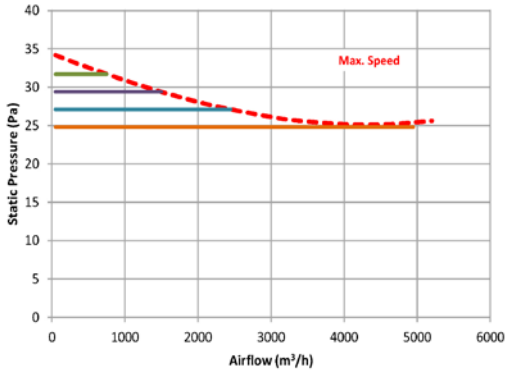

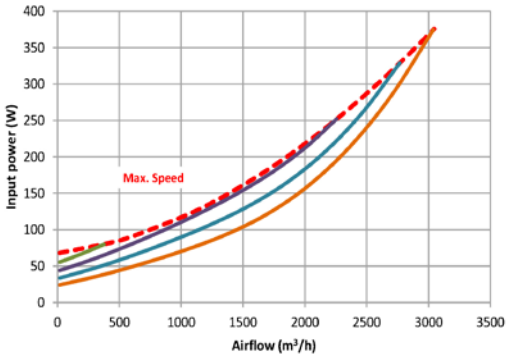

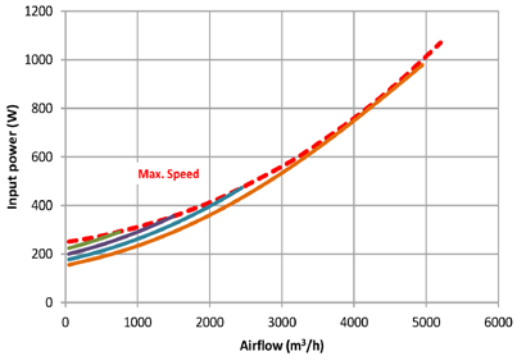

Accessories

INT

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SI-CO2 IND

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