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

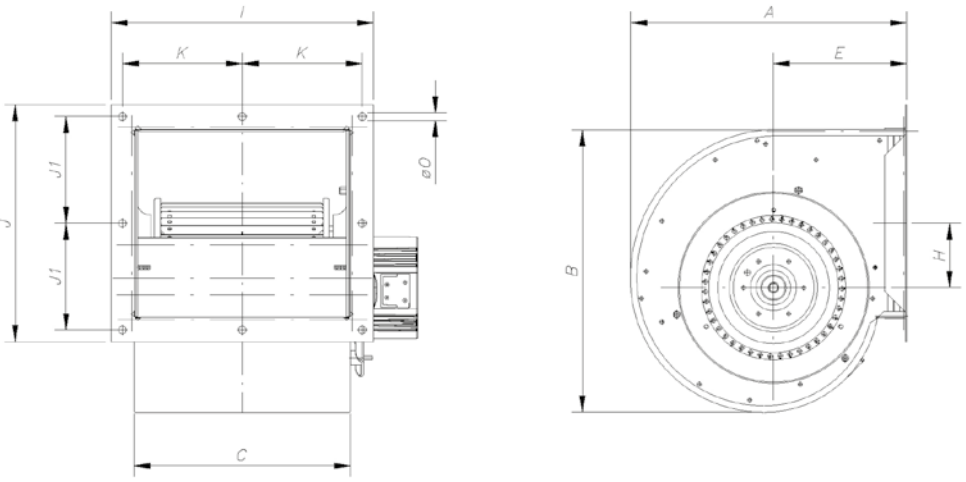
The indicated values are determined by measuring the sound pressure level and sound power in dB(A) obtained in a free field at a distance equivalent to twice the size of the fan plus the impeller diameter, with a minimum of 1.5 m.

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

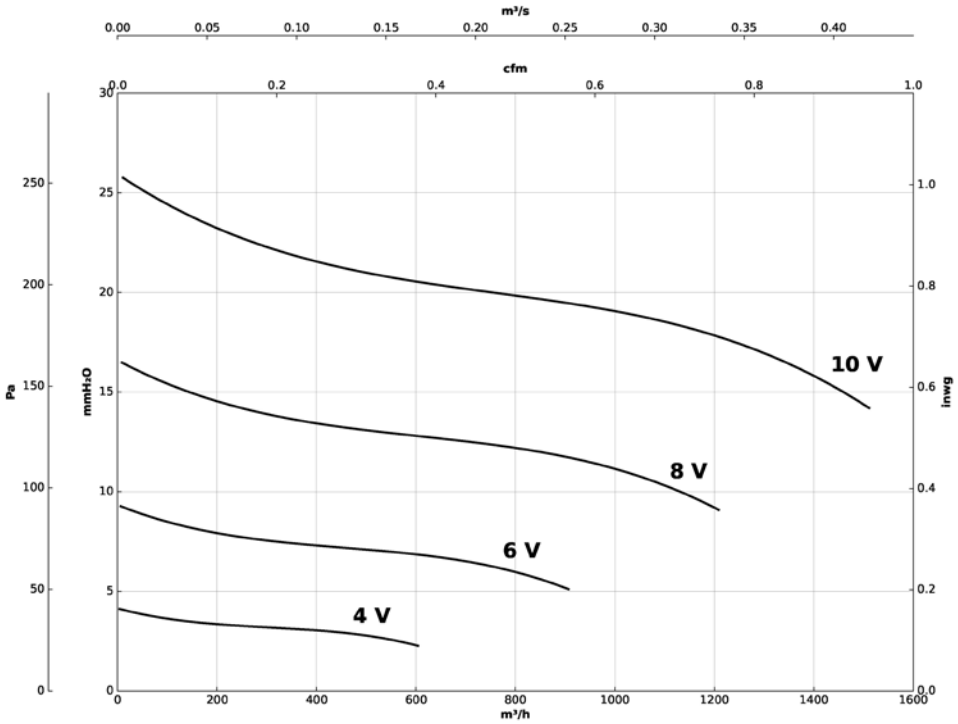
Accessories

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

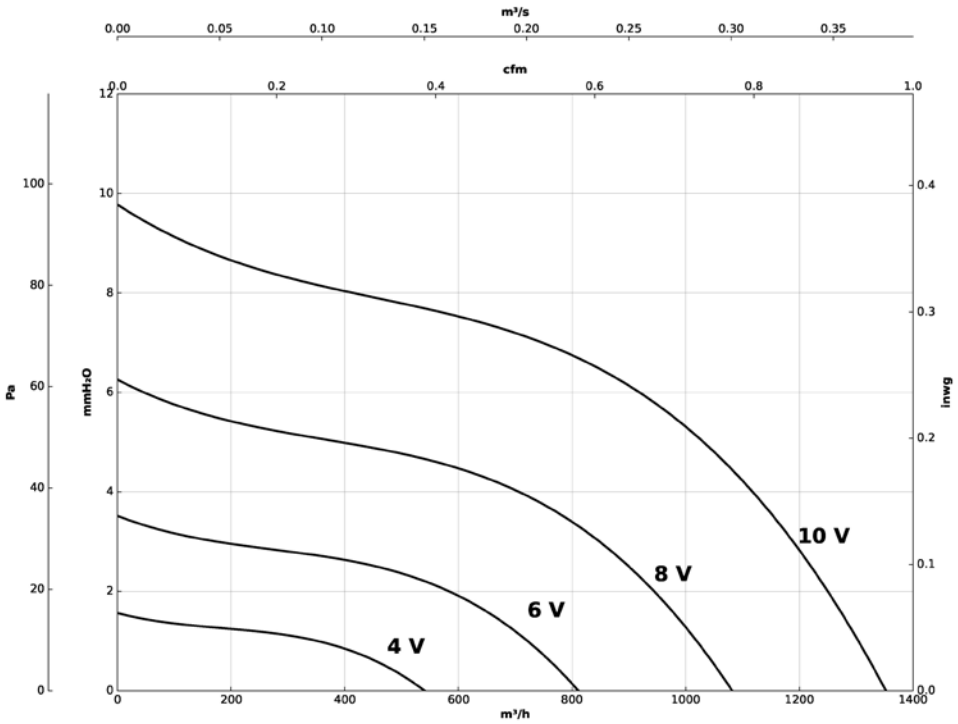
Characteristic curves

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



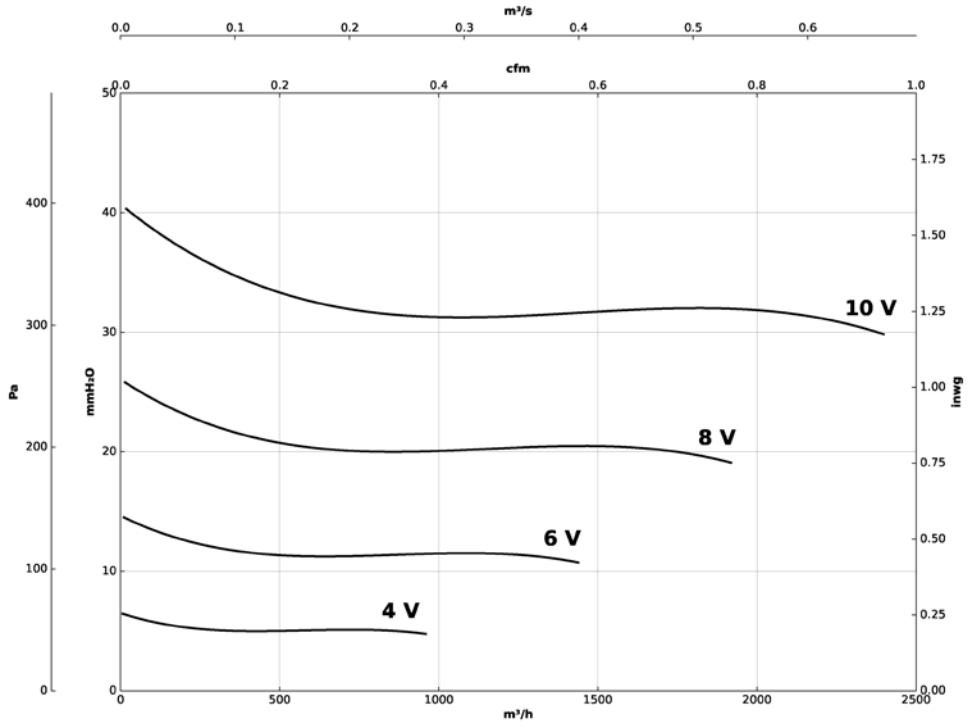
1919-6M-1/10 IE4



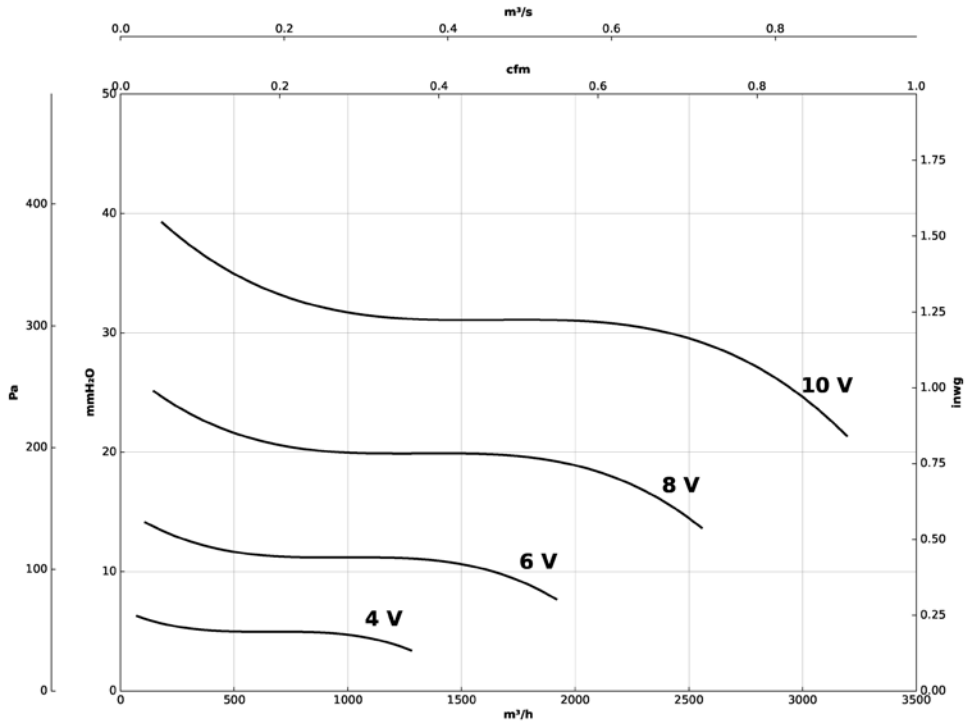
Characteristic curves

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



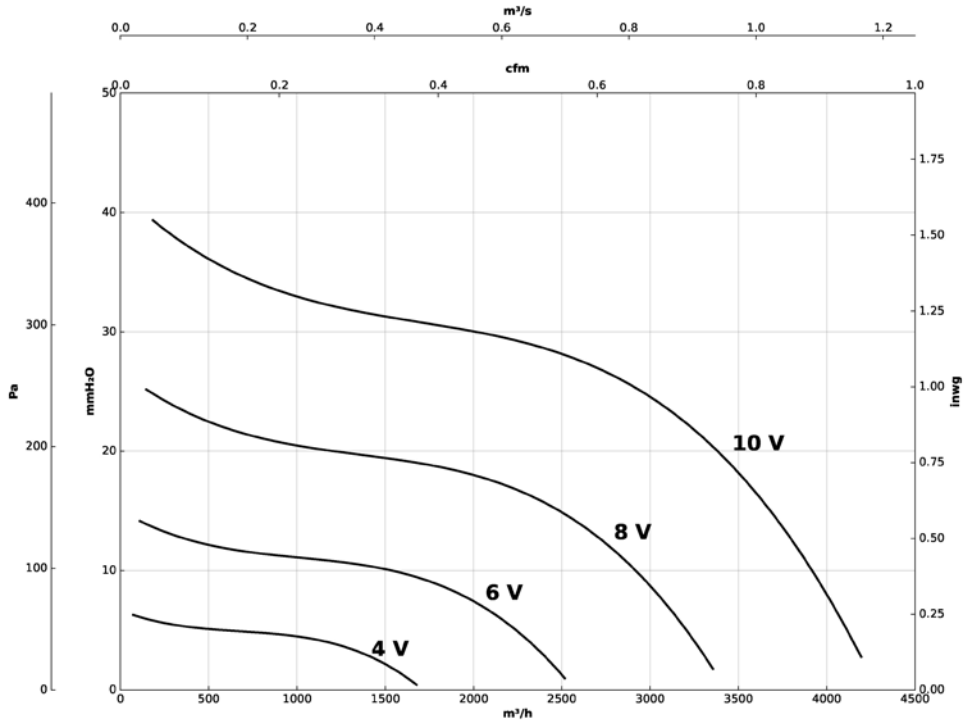
2525-4M-3/4 IE4



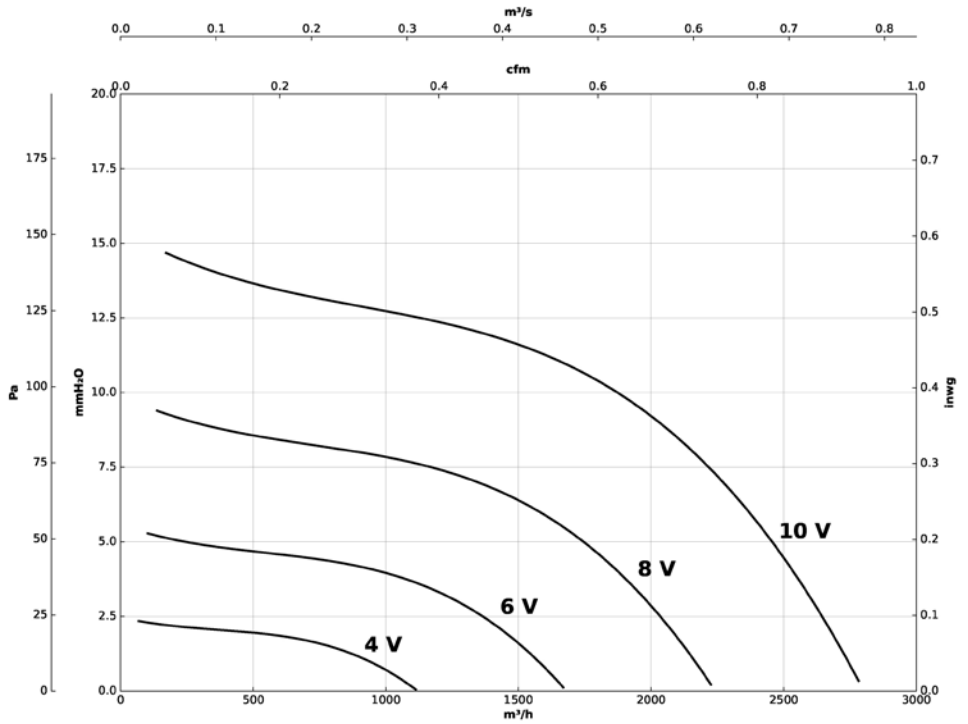
Characteristic curves

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

2525-4M-1 IE4



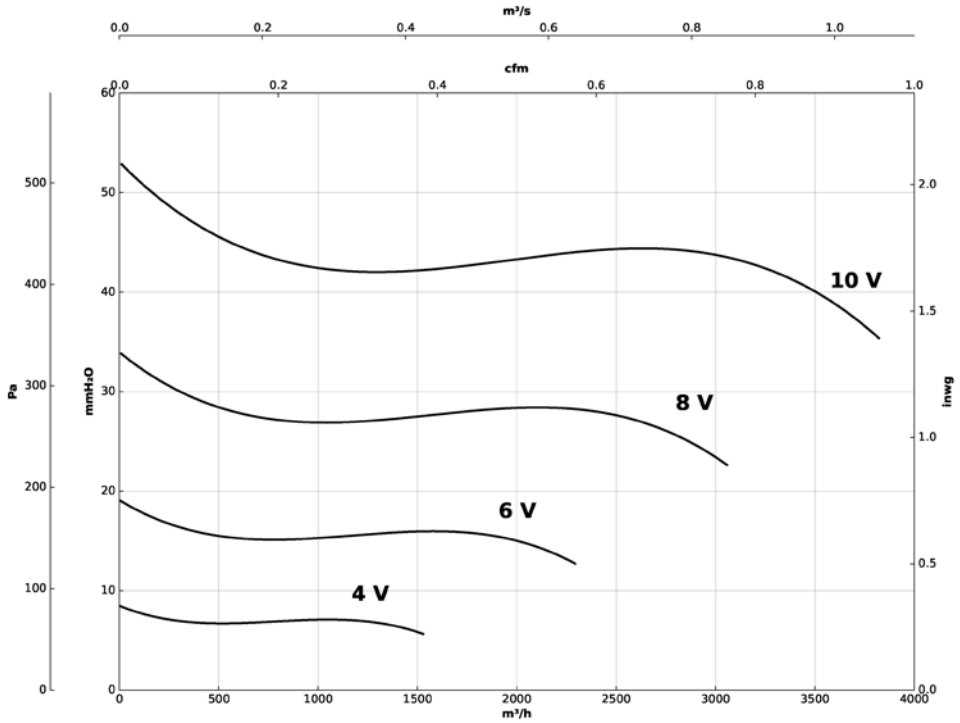
2525-6M-1/3 IE4



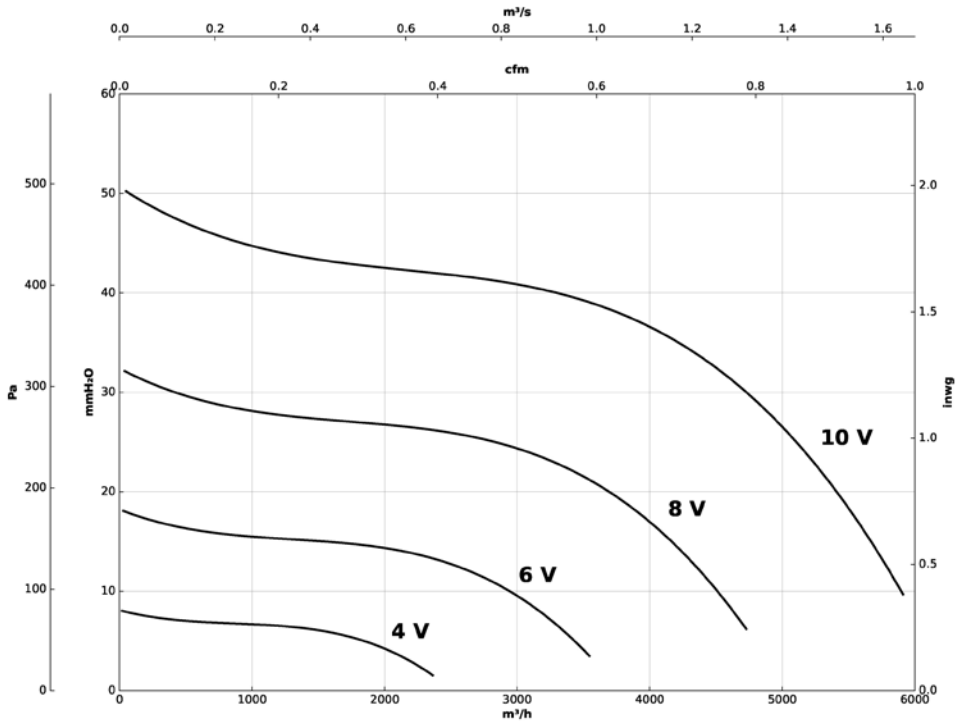
Characteristic curves

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

2828-4M-1 IE4



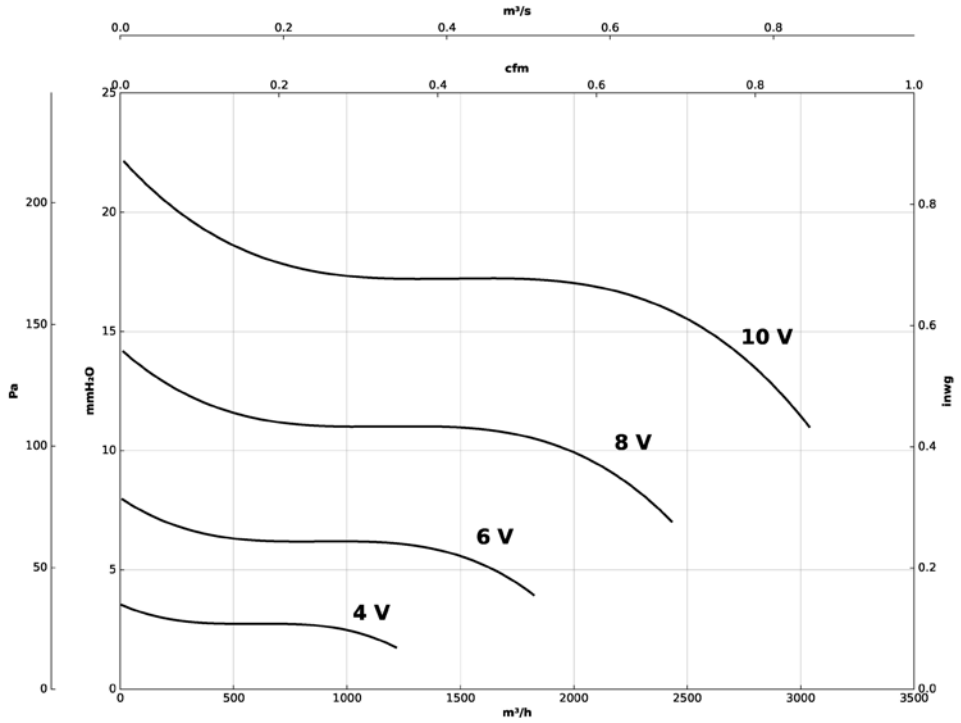
2828-4M-2 IE4



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