PFA/EC

High-efficiency centrifugal fans, Plug Fan type, equipped with IE5 EC Technology motor, compact size and high performance

High-efficiency centrifugal fans, Plug Fan type, equipped with IE5 external rotor EC Technology motor, compact size and high performance, specially designed for air treatment applications.

Fan:
- Galvanised sheet steel structure.
- High performance aluminum alloy backward curved impeller.
- Equipped with pressure tapping point for automatic flow control.

Motor:
- High efficiency external rotor EC Technology motors, adjustable via 0-10 V, 4-20 mA and PWM signals.
- IE5 efficiency motors, class F and IP55 protection.
- Three-phase 380-480 V 50/60 Hz.
- Maintenance-free ball bearings.
- Working temperature: -25 ºC +40 ºC.
- Modbus RTU and built-in alarm relay.

Order code

PFA/EC	–	450	–	M	–	IE5
PFA/EC: High-efficiency centrifugal fans, Plug Fan type, equipped with IE5 EC Technology motor, compact size and high performance		Size		M: Medium pressure H: High pressure		IE5 motor

Technical characteristics

Model	Speed	Max. admissible current	Max. electric power	Maximum flow rate	Sound pressure level[1] dB(A)		Approx. weight
	(r/min)	(A)	(kW)	(m^3/h)	Inlet	Exhaust	(Kg)
PFA/EC-315-H IE5	4000	5.90	3.70	6790	66	77	23
PFA/EC-400-H IE5	2750	5.80	3.70	11325	75	86	34
PFA/EC-450-M IE5	1800	3.50	2.10	10635	70	79	33
PFA/EC-500-H IE5	2000	6.30	4.00	16305	74	86	46
PFA/EC-560-M IE5	1400	4.30	2.73	16815	73	78	55
PFA/EC-560-H IE5	1760	8.60	5.60	20675	76	84	70
PFA/EC-630-M IE5	1275	5.60	3.60	20095	72	80	60

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.

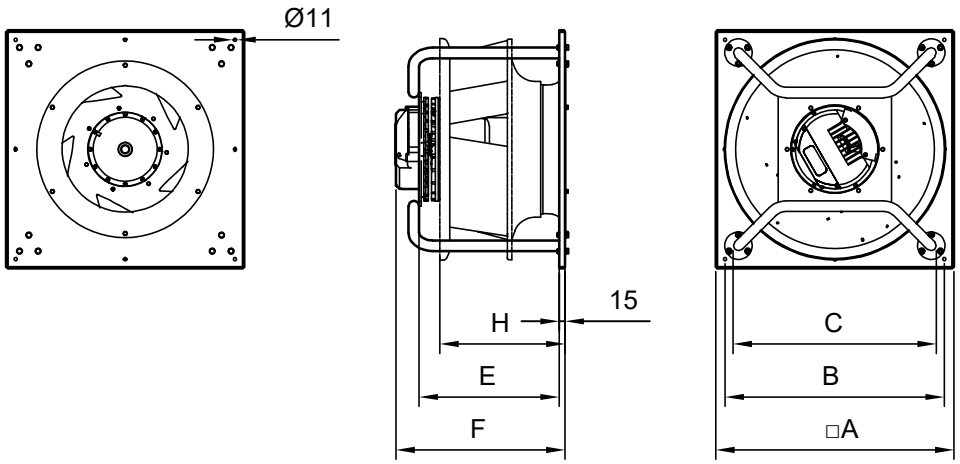
Acoustic characteristics

The values given are obtained under laboratory conditions according to ISO 3744.
Sound power spectrum Lw(A) in dB(A) per Hz frequency band
Irradiated values with maximum velocity and flow rate

	63	125	250	500	1000	2000	4000	8000
PFA/EC-315-H IE5	67	69	78	84	89	96	87	85
PFA/EC-400-H IE5	105	98	95	93	92	90	87	85
PFA/EC-450-M IE5	97	91	89	89	87	83	82	76
PFA/EC-500-H IE5	103	98	95	97	94	90	87	86

	63	125	250	500	1000	2000	4000	8000
PFA/EC-560-M IE5	95	93	90	88	85	83	82	78
PFA/EC-560-H IE5	102	97	95	94	91	88	86	84
PFA/EC-630-M IE5	98	94	91	90	86	83	83	75

Dimensions mm



	A	B	C	F	E	H
PFA/EC-315-H	500	450	427	354	265	320
PFA/EC-400-H	500	450	427	441	361	298
PFA/EC-450-M	600	550	478	482	387	311
PFA/EC-500-H	631	581	538	471	376	329
PFA/EC-560-M	800	750	579	636	493	376
PFA/EC-560-H	800	750	579	520	425	376
PFA/EC-630-M	800	750	626	549	459	410

Accessories


EC CONTROL


MTP


SI-TEMP+HUMEDAD


SI-PRESIÓN


SI-HUMEDAD


SI-CO2 IND

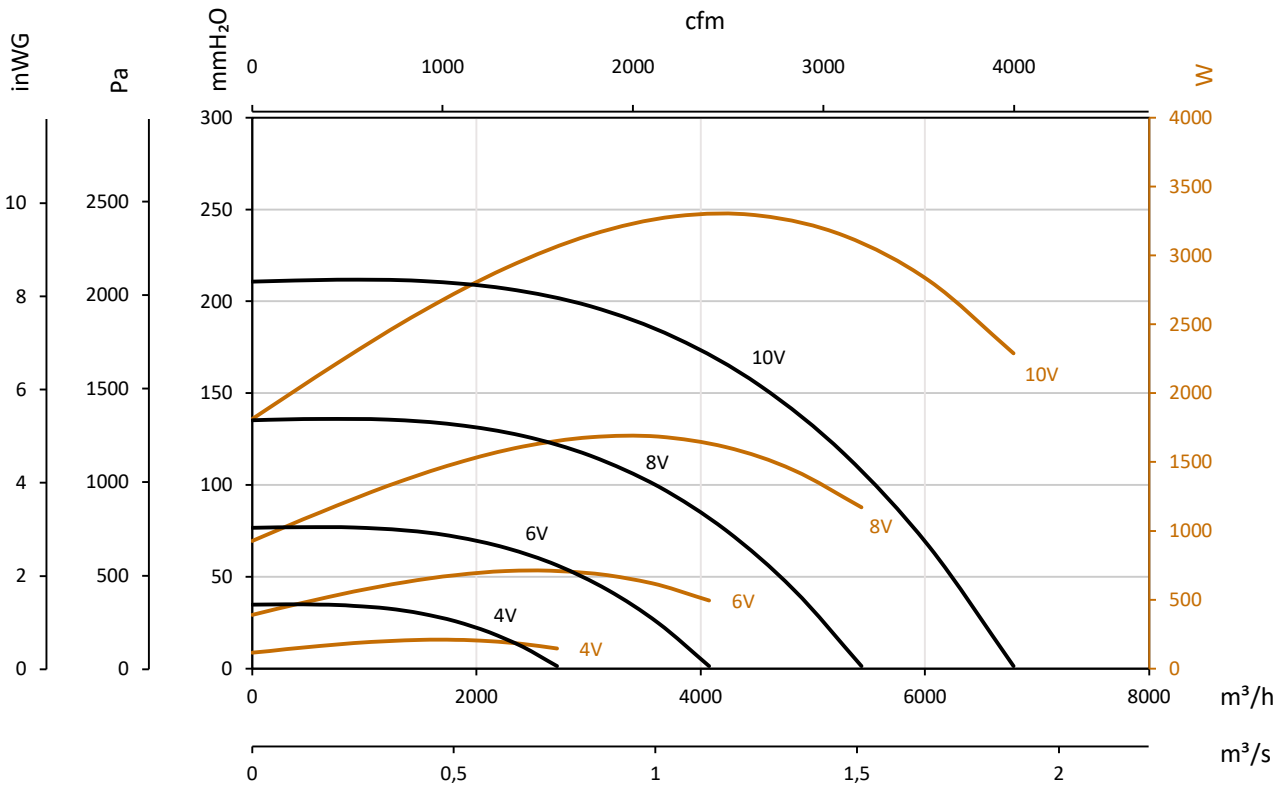

SI-TEMP IND


SI-MF

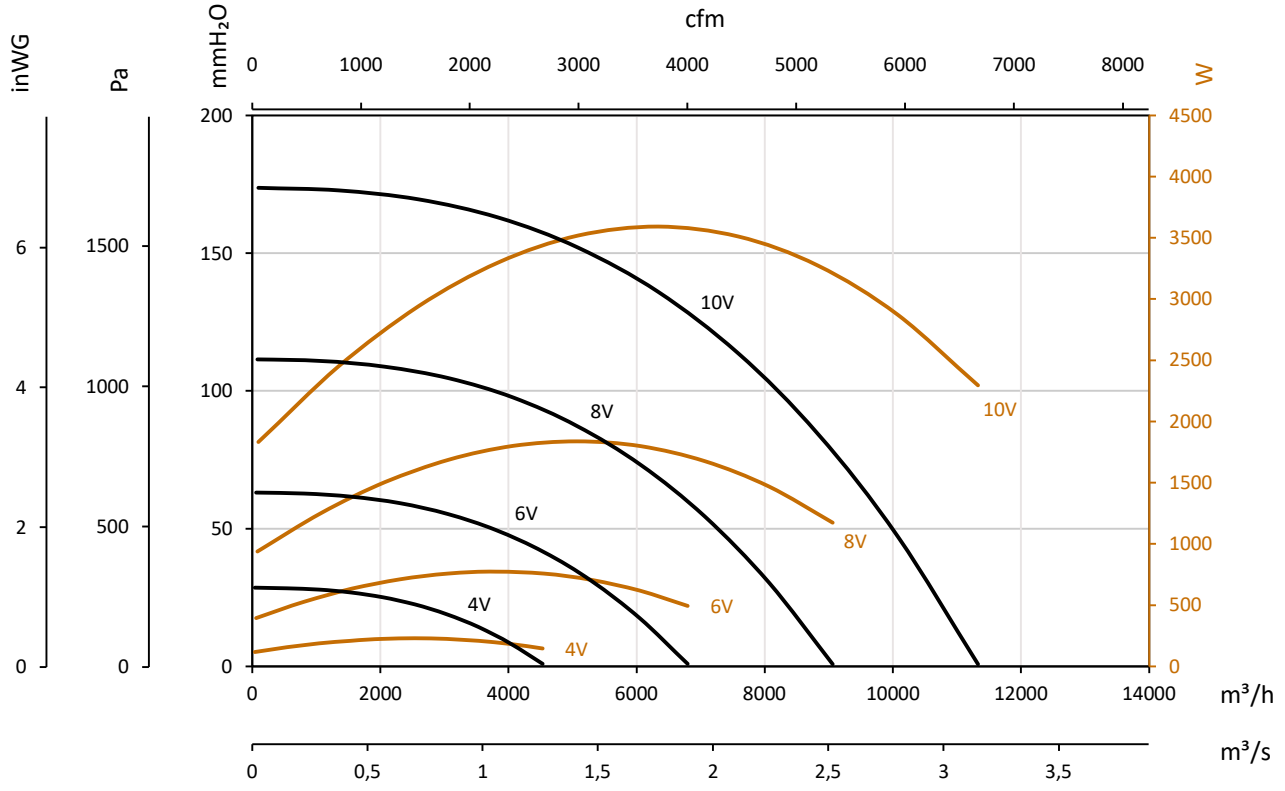
Characteristic curves

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

PFA/EC-315-H



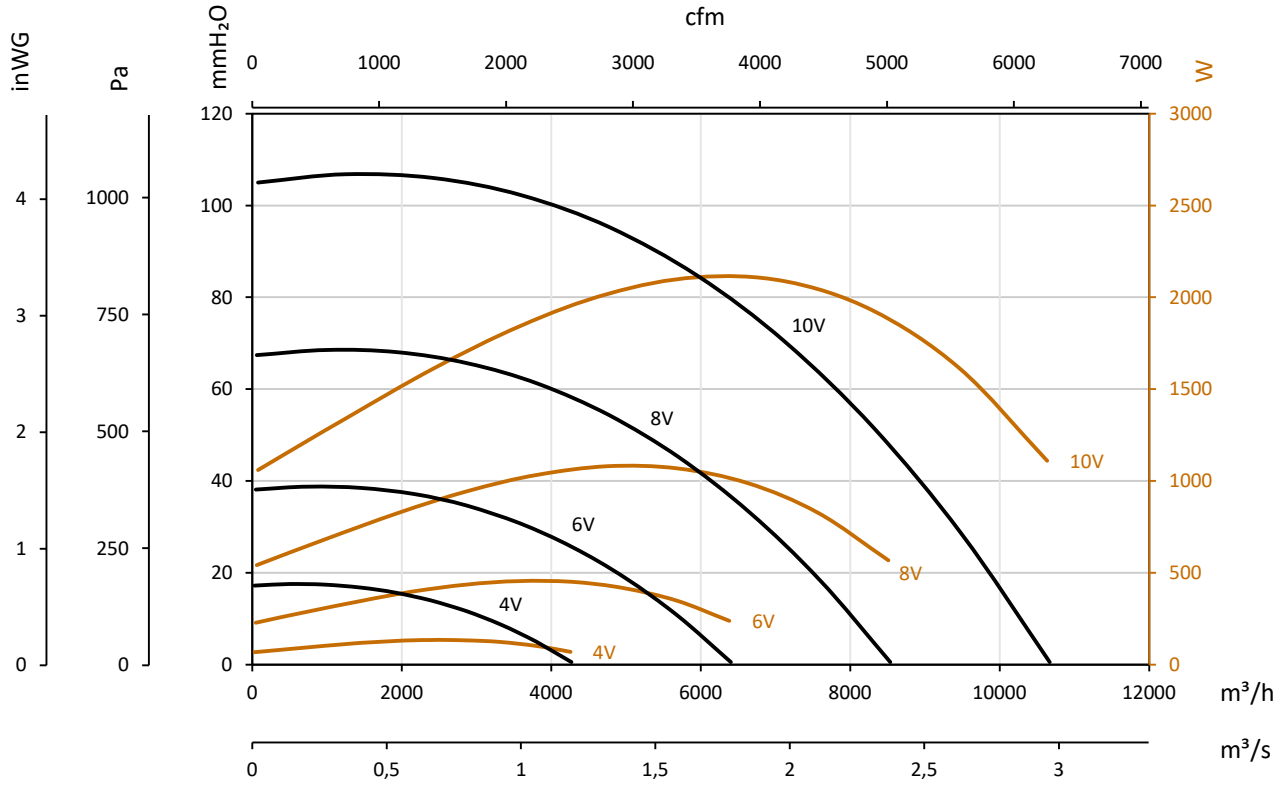
PFA/EC-400-H



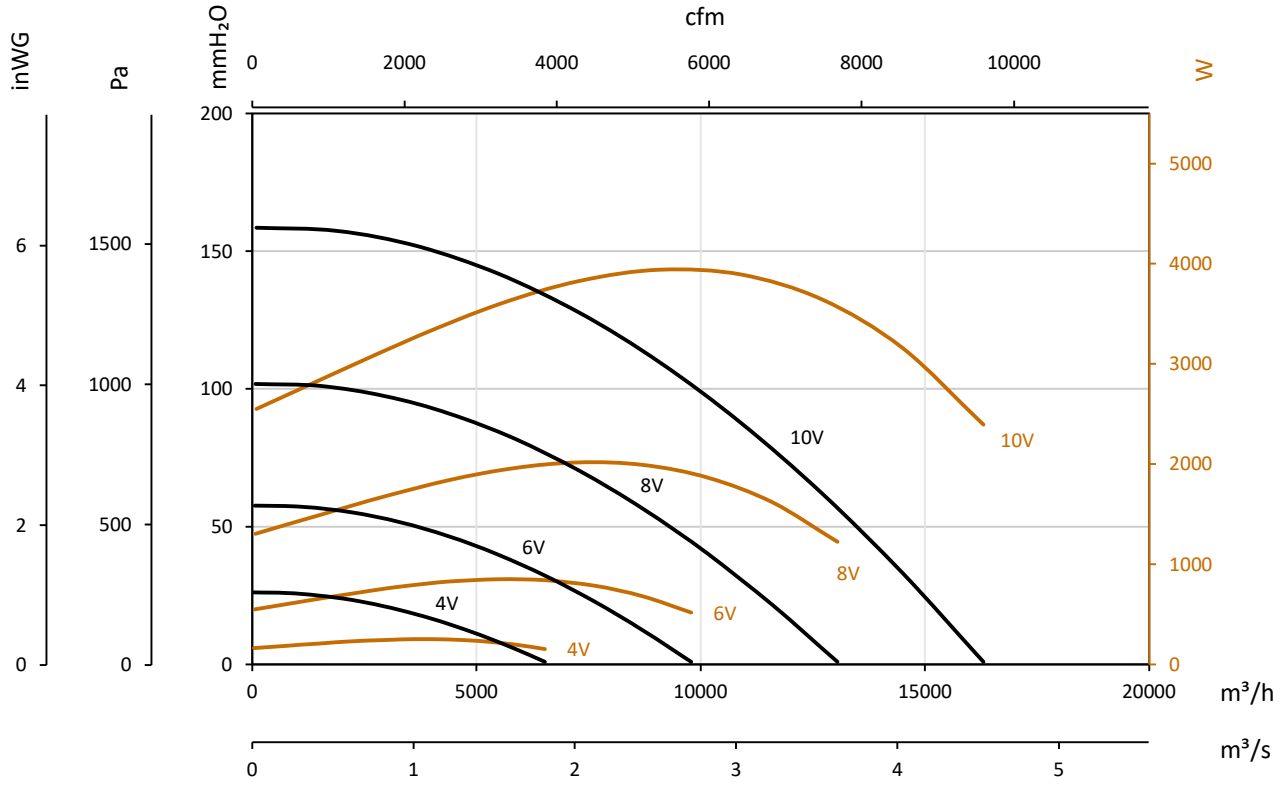
Characteristic curves

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

PFA/EC-450-M



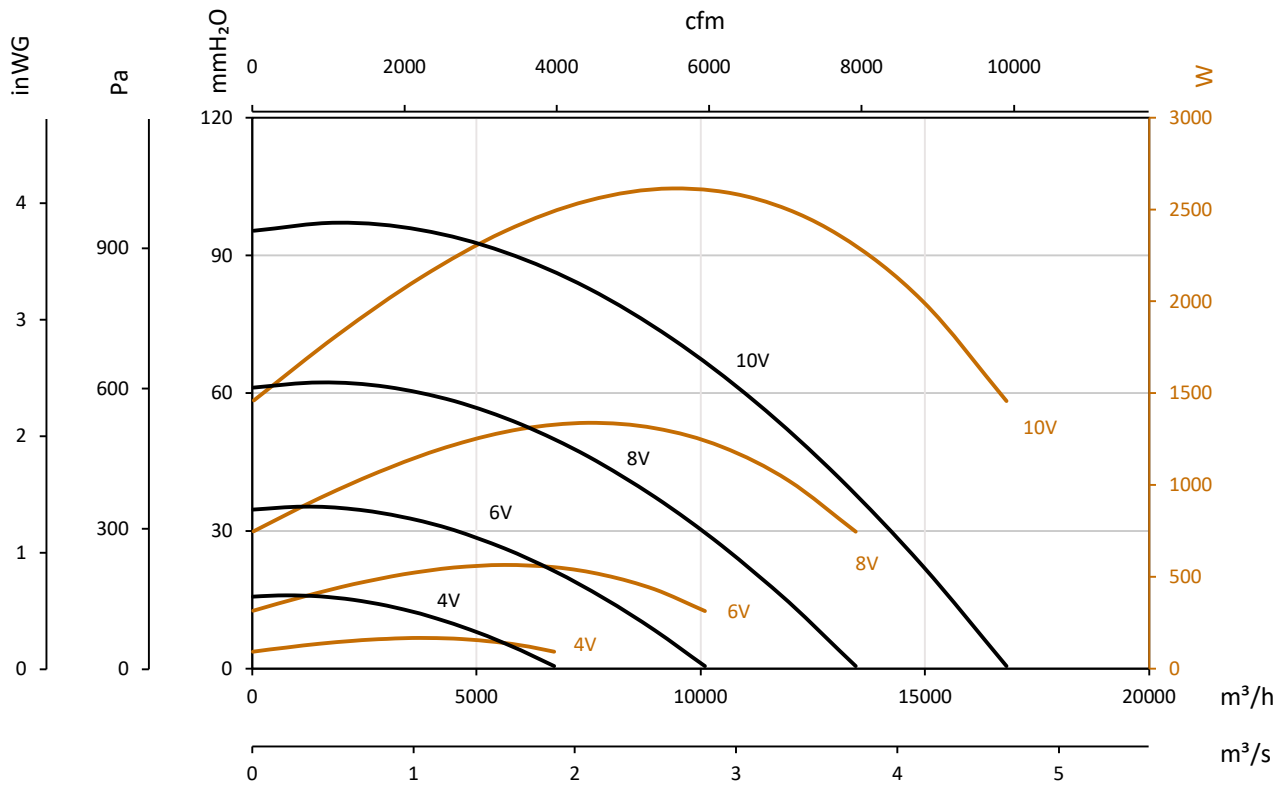
PFA/EC-500-H



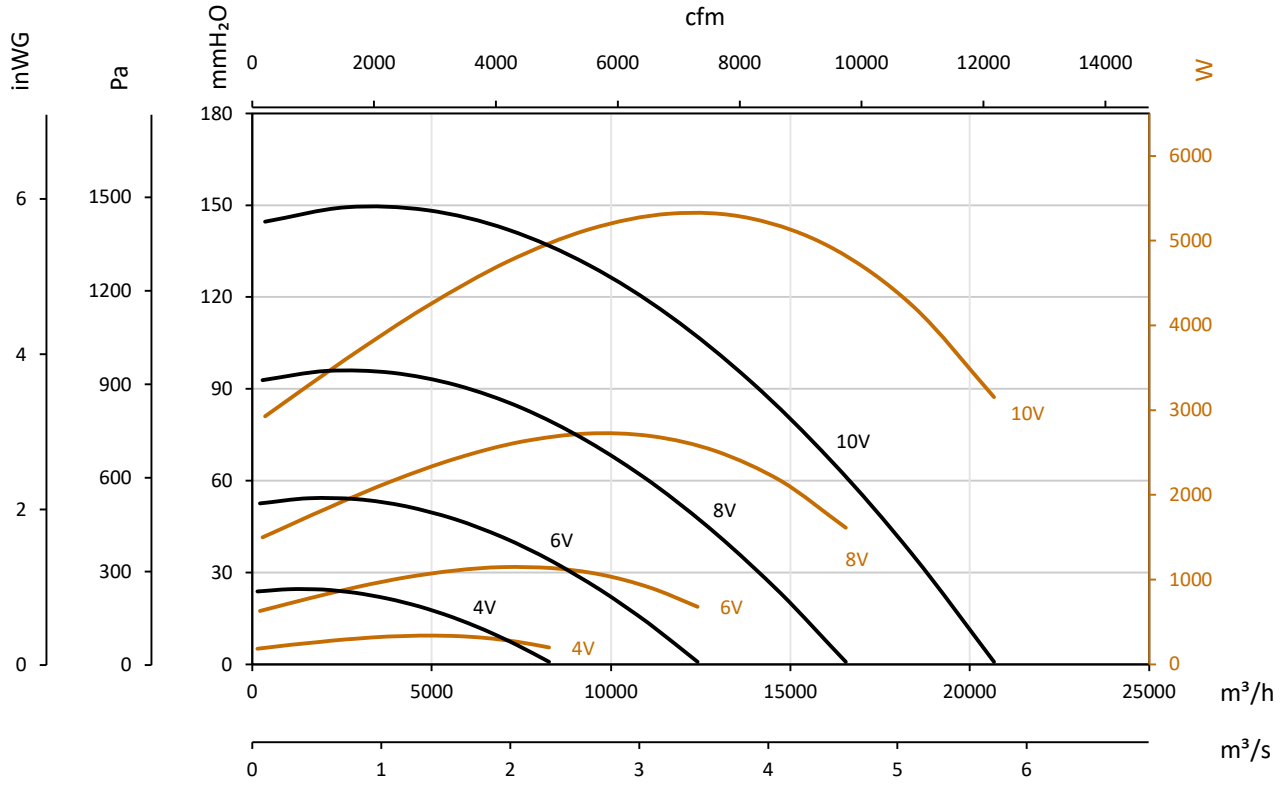
Characteristic curves

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

PFA/EC-560-M



PFA/EC-560-H



Characteristic curves

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