HT/EC

Axial rooftop fans with flat base, with EC Technology IE5 motor

HT/EC-45...63

HT/EC-71...100

EC TECHNOLOGY MOTOR with integrated electronics

EC CONTROL Supplied as an optional accessory

Axial roof fans, with fiberglass reinforced plastic impeller, with flat base, equipped with EC Technology IE5 motor with integrated electronics, specially designed to obtain high energy efficiency.

Fan:
- Support base in painted galvanized steel sheet.
- Fibreglass reinforced polyamide-6 impeller.
- Bird protection grid.
- Anti-rain deflector cap in painted galvanized sheet steel, with anti-corrosion protection.
- Airflow direction from motor to impeller.

Motor:
- High efficiency EC Technology motors with integrated electronics, regulated by 0-10 V or 4-20 mA.
- IE5 efficiency motors, class F and IP55 protection.
- Single-phase 230 V 50/60 Hz and three-phase 400 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 finish in polyester resin, polymerised at 190 ºC, after degreasing with phosphate-free nanotechnology treatment.

Order code

HT/EC — 50 — 4M — 0.75 — IE5

- **HT/EC**: HT/EC: Axial rooftop fans with flat base, with EC Technology IE5 motor
- **50**: Impeller diameter in cm
- **4M**: Number of motor poles 4=1400 r/min 50 Hz 6=900 r/min 50 Hz; T = Three-phase M = Single-phase
- **0.75**: Motor power (HP)
- **IE5**: IE5 motor

Technical characteristics

Model	Speed	Maximum admissible current (A)		Max. electric power	Maximum flow rate	Sound pressure level dB (A)		Approx. weight	According ErP
	(r/min)	230V	400V	(kW)	(m^3/h)	Inlet	Exhaust	(Kg)	
HT/EC-45-4M-0.5 IE5	1400	3.4		0.37	6500	55	54	50	2018
HT/EC-50-4M-0.75 IE5	1350	4.8		0.55	8500	59	57	62	2018
HT/EC-56-4M-1 IE5	1420	5.8		0.75	9800	61	57	63	2018
HT/EC-63-4M-1.5 IE5	1455	8.9		1.10	14000	63	59	94	2018
HT/EC-71-4M-1.5 IE5	1440	8.9		1.10	18000	69	67	109	2018
HT/EC-80-4T-3 IE5	1435		5.9	2.20	26200	73	70	163	2018
HT/EC-90-4T-5.5 IE5	1450		10.6	4.00	31500	78	75	210	2018
HT/EC-100-6T-2 IE5	950		2.9	1.50	25000	71	68	220	2018
HT/EC-100-6T-3 IE5	950		7.5	2.20	28200	75	72	231	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 pressure and sound power levels 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

Values measured at inlet with maximum flow rate (Qmax)

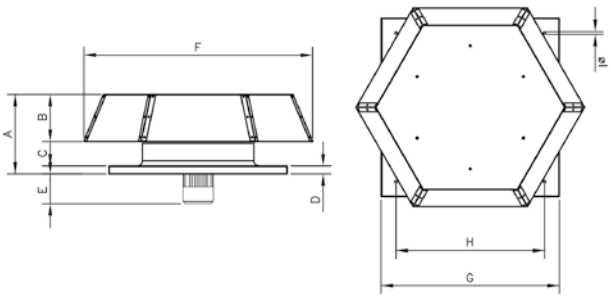
HT/EC-45-4M	32	49	61	69	74	74	70	63
HT/EC-50-4M	36	53	65	73	78	78	74	67
HT/EC-56-4M	38	55	67	75	80	80	76	69
HT/EC-63-4M	40	57	69	77	82	82	78	71
HT/EC-71-4M	46	63	75	83	88	88	84	77
HT/EC-80-4T	57	78	85	90	93	89	82	71
HT/EC-90-4T	61	82	89	94	97	93	86	75
HT/EC-100-6T-2	55	76	83	88	91	87	80	69
HT/EC-100-6T-3	59	80	87	92	95	91	84	73

Values measured at exhaust with maximum flow rate (Qmax)

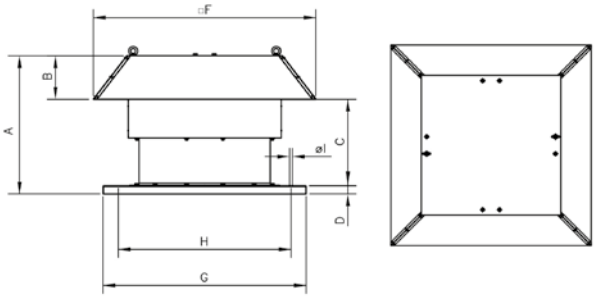
HT/EC-45-4M	30	47	59	67	72	72	68	61
HT/EC-50-4M	34	51	63	71	76	76	72	65
HT/EC-56-4M	34	51	63	71	76	76	72	65
HT/EC-63-4M	36	53	65	73	78	78	74	67
HT/EC-71-4M	44	61	73	81	86	86	82	75
HT/EC-80-4T	54	75	82	87	90	86	79	68
HT/EC-90-4T	58	79	86	91	94	90	83	72
HT/EC-100-6T-2	52	73	80	85	88	84	77	66
HT/EC-100-6T-3	56	77	84	89	92	88	81	70

Dimensions mm

HT/EC-45 ... 63



HT/EC-71 ... 100



	A	B	C	D	E	F	G	H	ØI
HT/EC-45	342	202	90	50	171	923	710	590	12
HT/EC-50	373	238	85	50	193	1154	800	680	12
HT/EC-56	402	238	124	40	225	1154	800	750	14
HT/EC-63	457	277	141	40	171	1384	1000	850	14
HT/EC-71	760	195	525	40	-	1120	1000	850	14
HT/EC-80	790	215	525	50	-	1252	1150	1000	14
HT/EC-90	910	232	638	40	-	1380	1150	1000	14
HT/EC-100	1055	252	753	50	-	1527	1250	1100	14

Accessories


INT


EC CONTROL


MTP


BTUB


MS


PA


BS


OP


S


SI-CO2 IND


SI-TEMP IND


SI-TEMP+HUMEDAD


SI-HUMEDAD

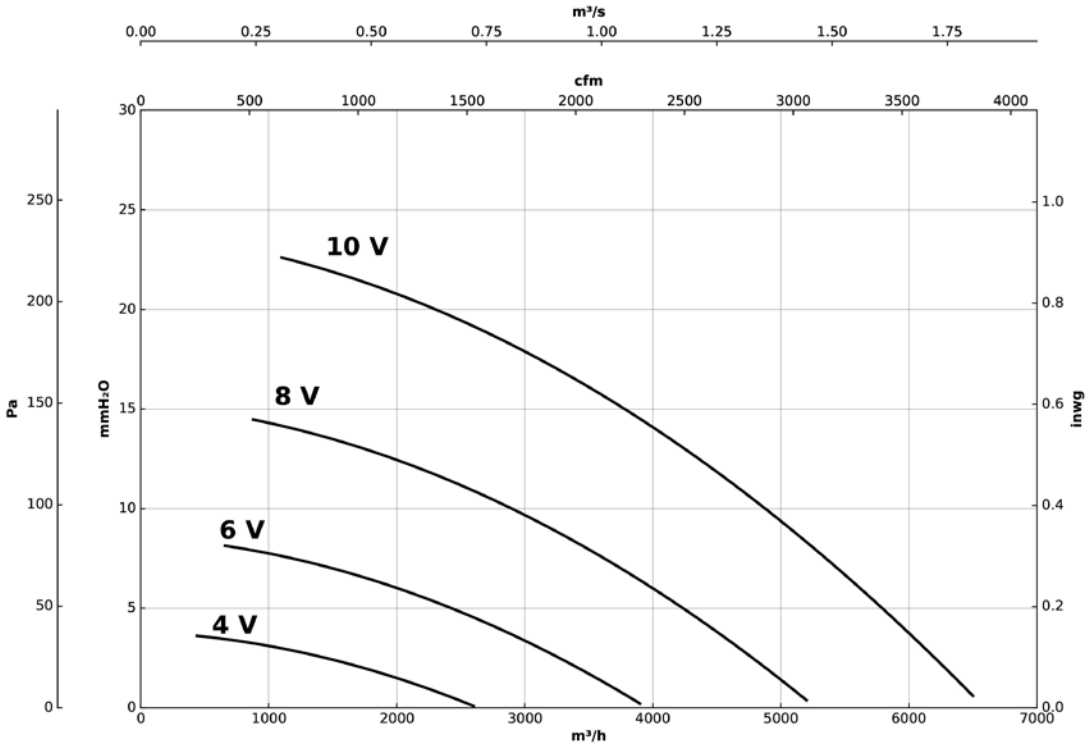

SI-MF


SI-PRESIÓN

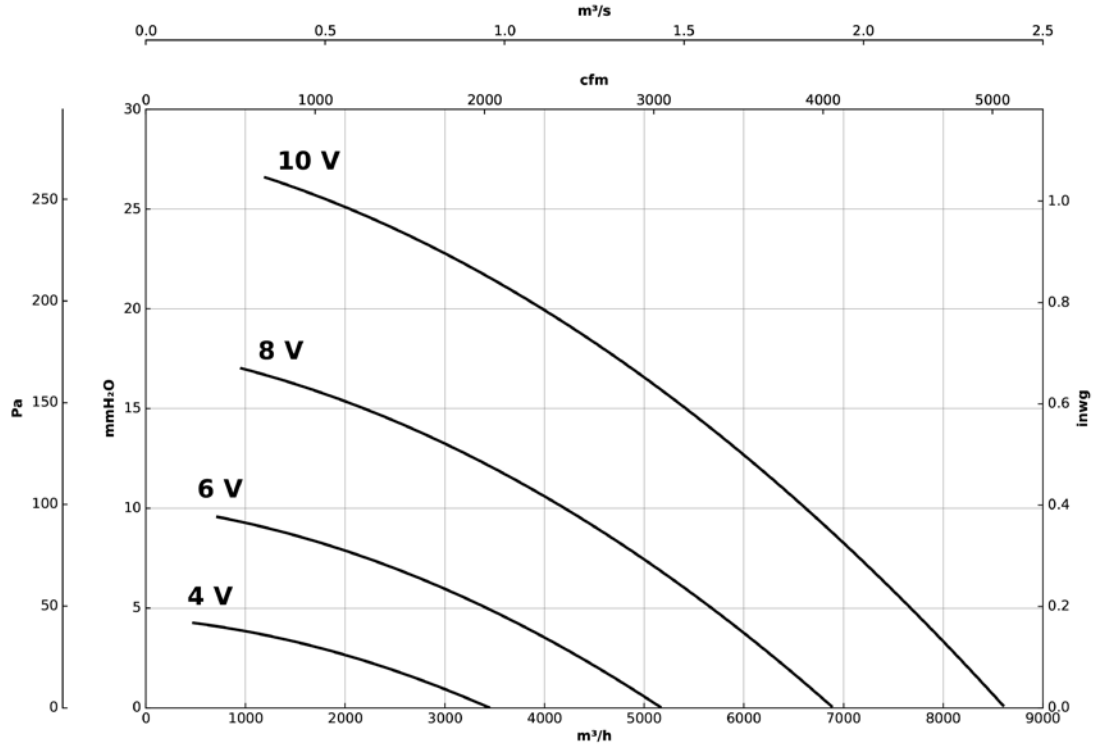
Characteristic curves

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

HT/EC-45-4M



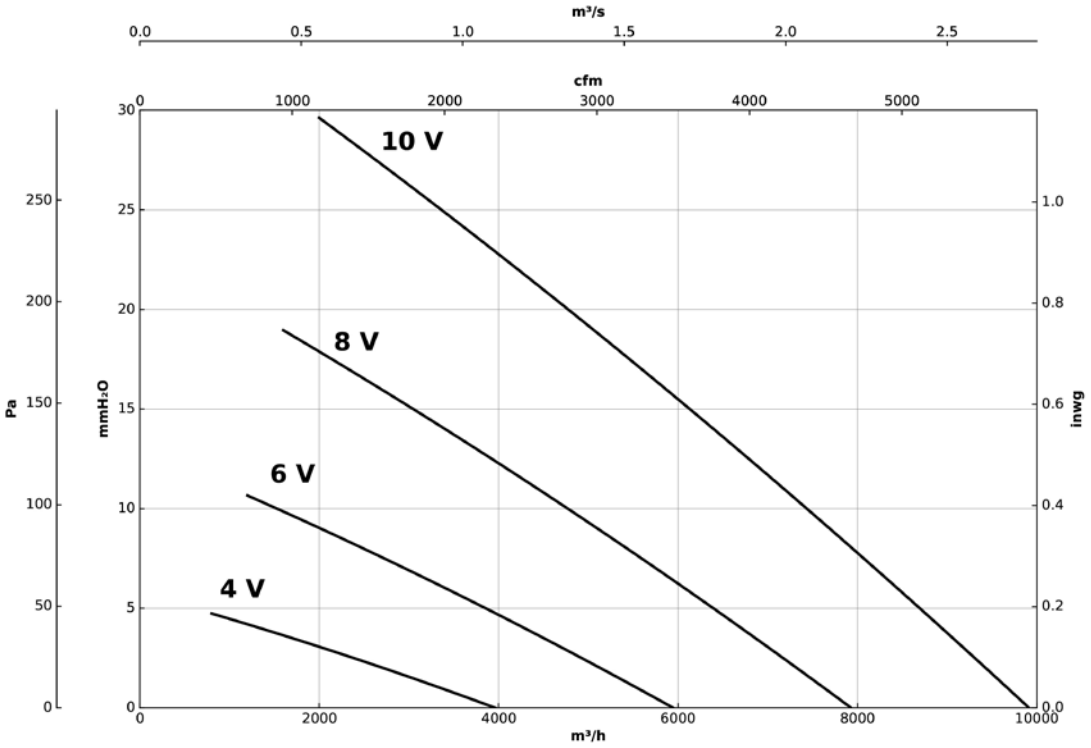
HT/EC-50-4M



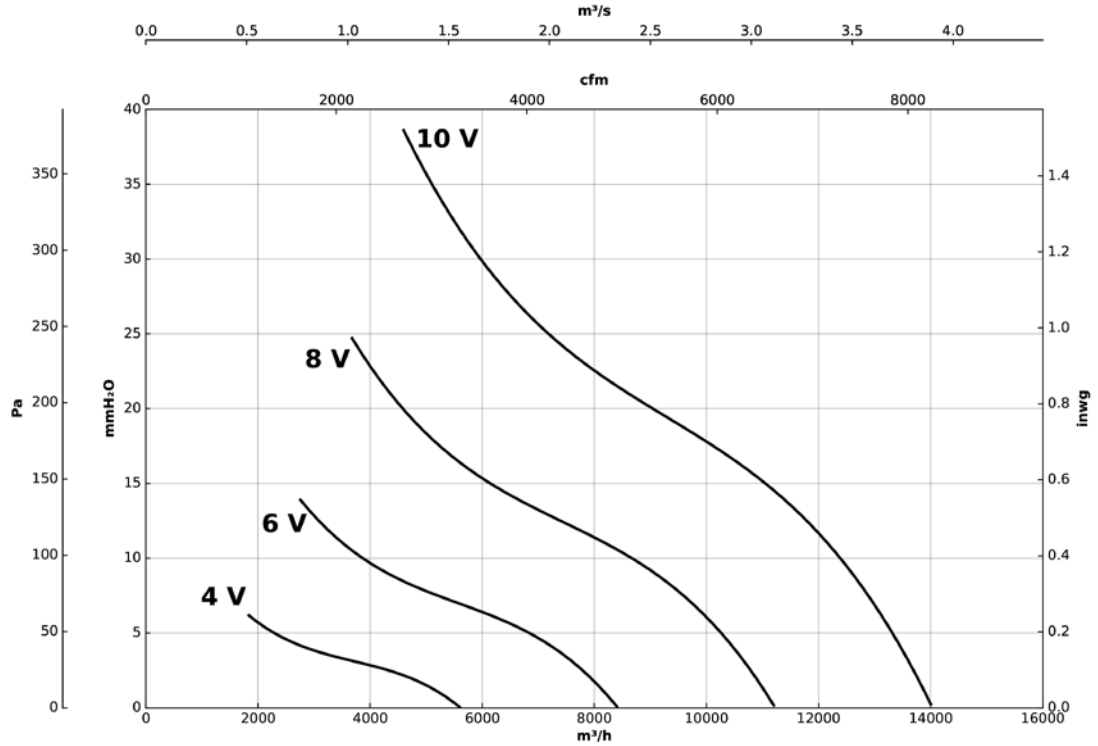
Characteristic curves

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

HT/EC-56-4M



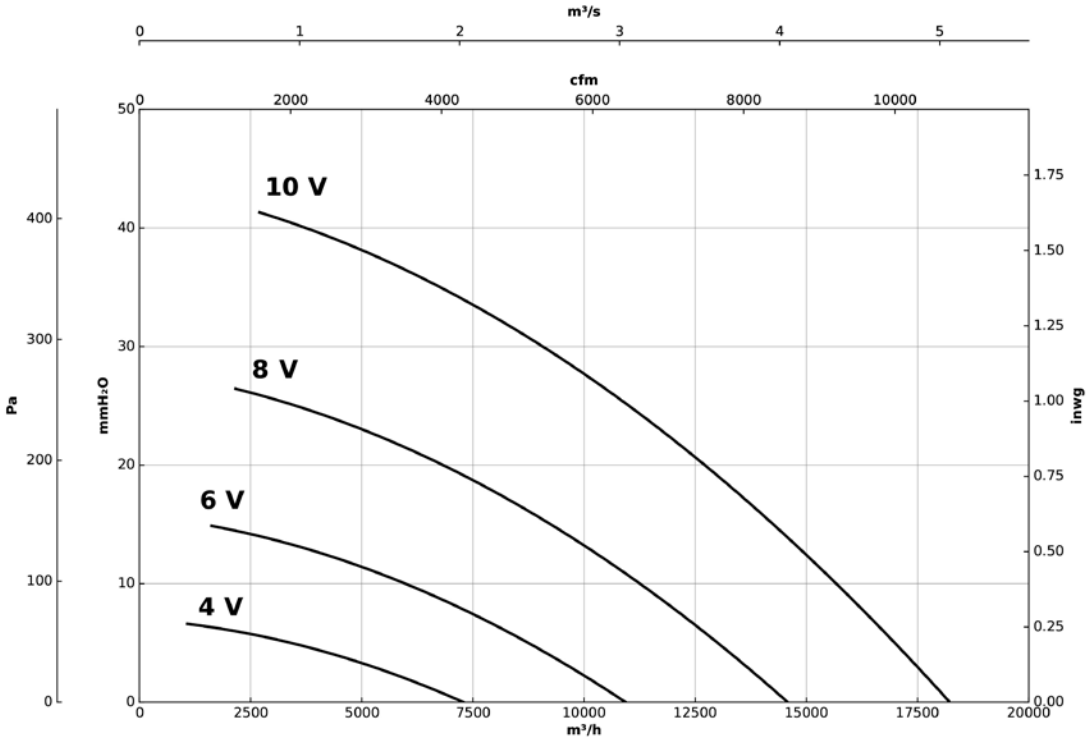
HT/EC-63-4M



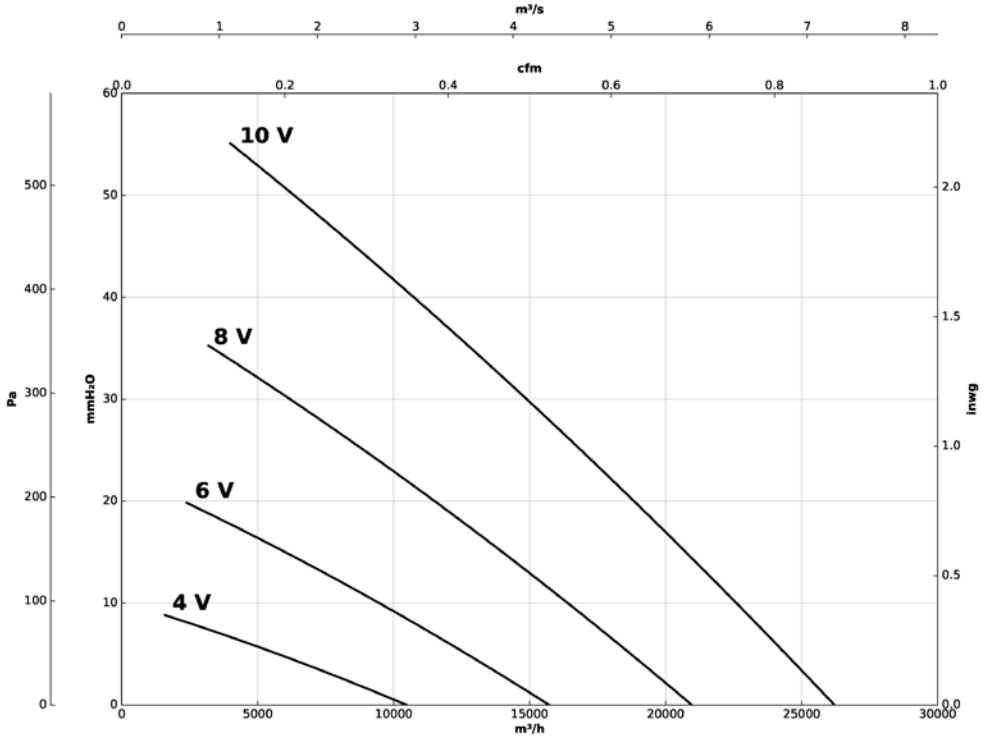
Characteristic curves

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

HT/EC-71-4M



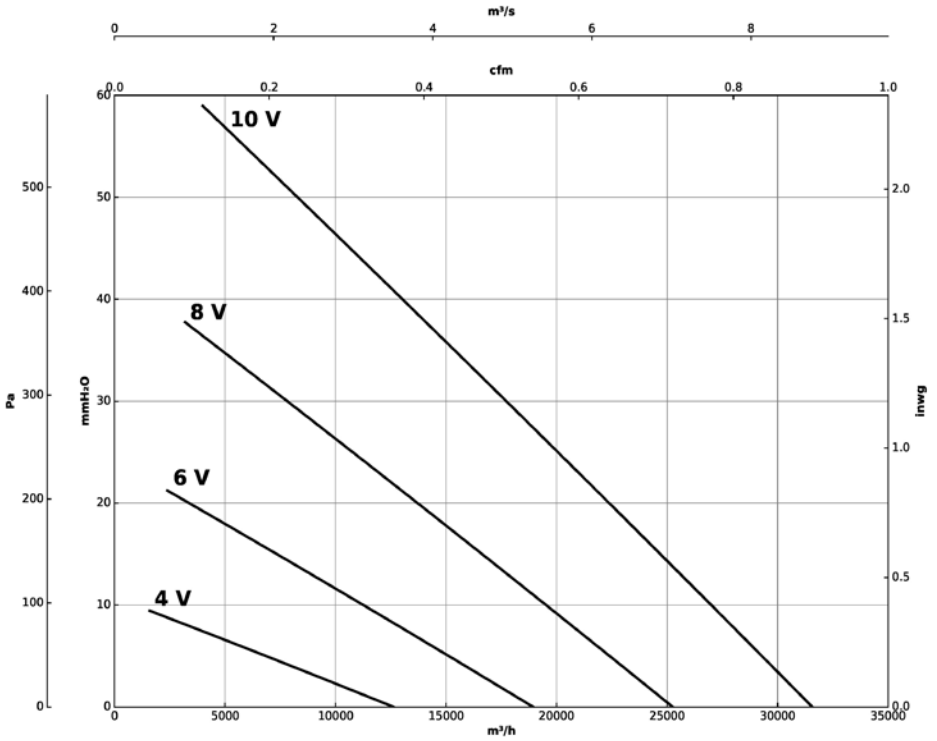
HT/EC-80-4T



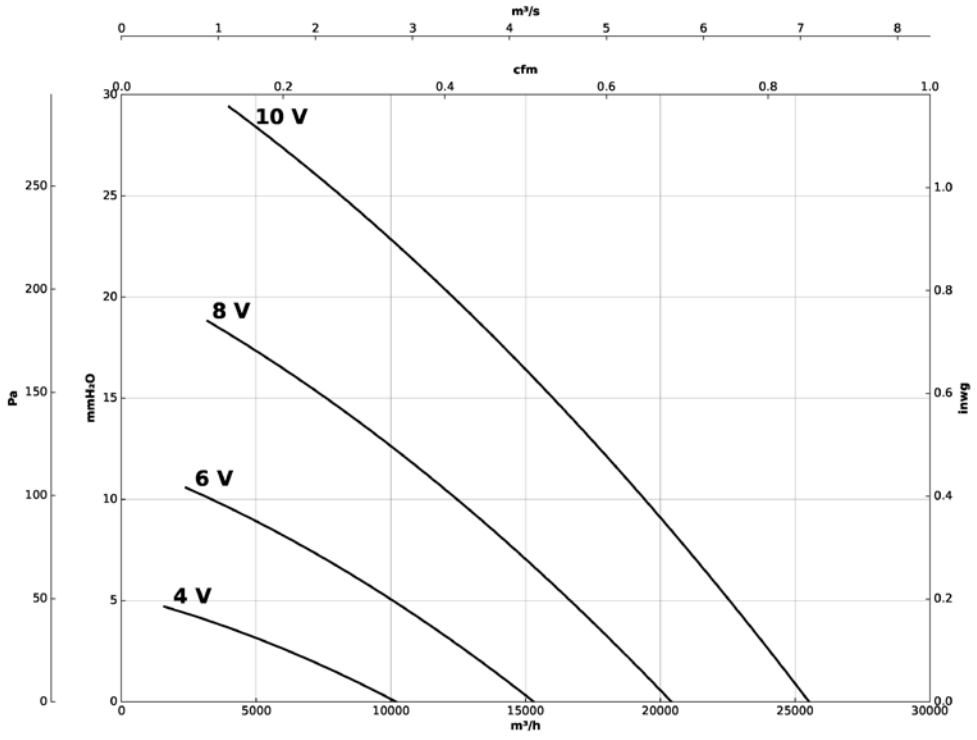
Characteristic curves

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

HT/EC-90-4T



HT/EC-100-6T-2



Characteristic curves

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

HT/EC-100-6T-3