

BT-3 EEC



CENTRIFUGAL FAN IN STEEL CASING WITH ELECTRIC MOTOR EEC

MANUFACTURING FEATURES

- Casing made of polymer coated steel, totally air tightness for outdoor installation.
- EC motors enable integration of several fans into a unified networks and their centralized control.
- Backward impeller with high efficient electronically commutated (EC) direct current motor with external rotor. Turbine is dynamically balanced while assembly.
- Motors are equipped with ball bearings for longer service life of the fan (40.000 hours). IP 44 motor protection index.

APPLICATIONS

- Designed for supply and exhaust ventilation and air conditioning systems for various premises requiring cost-effective solution and controllable ventilation.
- Inside or outside duct installation.
- EC motors reduce energy demand by about 35% and ensure high aerodynamic performance and low noise level. Specially designed for ventilation of public premises such as:
banks
supermarkets
restaurants
hotels

·Its use is also contemplated in installations close to residential buildings and for domestic applications, such as the ventilation of private swimming pools.

Accessories



INT



JE 45



PSD2



REGC



**SIL-C
MINI**

Technical data

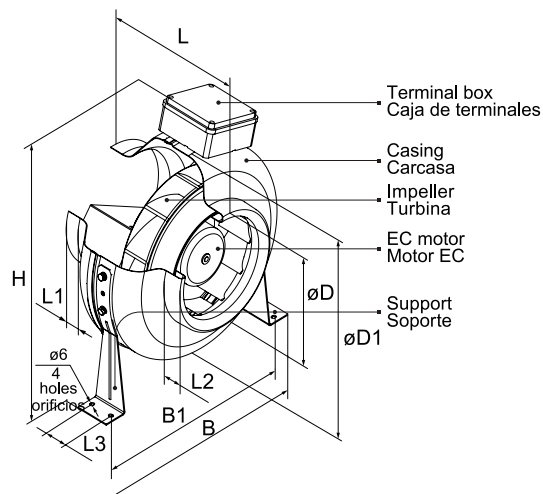
Single-phase motor

Code	Model	R.P.M.	Rated I. A 230V	Rated power kW	Max. Airflow m ³ /h	Sound db (A)**	Weight kg	Connect. diagram
510310000	BT-3 100 EEC	3600	0,7	0,09	345	64	3,20	1
510312500	BT-3 125 EEC	3400	0,58	0,08	480	65	3,20	1
510315000	BT-3 150 EEC	3060	0,89	0,11	700	63	4,90	1
510316000	BT-3 160 EEC	3030	0,90	0,11	785	63	4,90	2
510320000	BT-3 200 EEC	2500	0,63	0,08	845	62	5,10	1
510325000	BT-3 250 EEC	2900	1,15	0,16	1.230	64	5,80	2
510331500	BT-3 315 EEC	2900	1,15	0,16	1.370	60	7,30	3

Notes:

** Total sound pressure level at the point of maximum flow measured in dB(A) in the suction measured in free field at a distance of 6m from the source

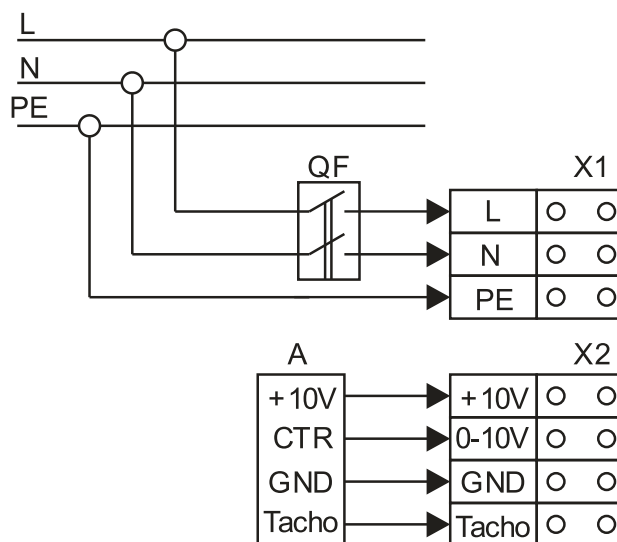
Dimensions



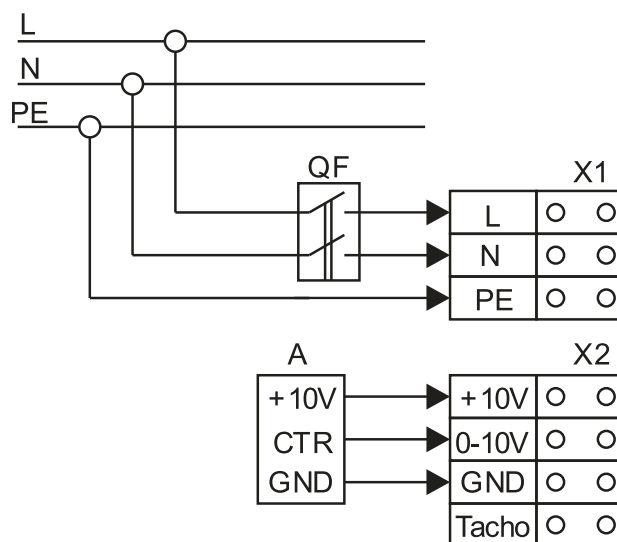
Model	B	B1	H	L	L1	L2	L3	ØD	ØD1
BT-3 100 EEC	310	270	340	203	20	25	30	98	255
BT-3 125 EEC	310	270	340	203	20	25	30	123	255
BT-3 150 EEC	360	320	365	220	25	25	30	149	305
BT-3 160 EEC	360	320	365	220	25	25	30	159	305
BT-3 200 EEC	395	355	435	245	25	30	40	198	345
BT-3 250 EEC	395	355	435	250	25	30	40	248	345
BT-3 315 EEC	455	415	465	260	30	30	40	315	405

Wiring diagram

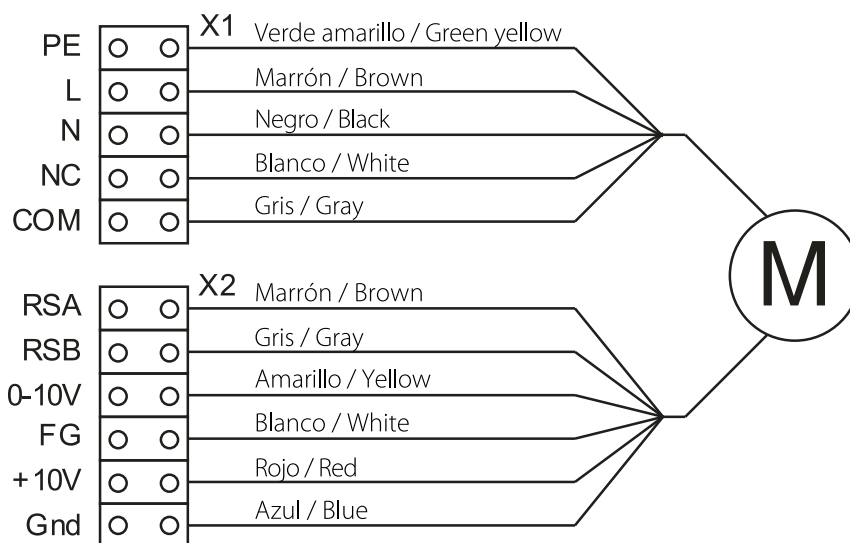
Wiring diagram Nº 1



Wiring diagram Nº 2



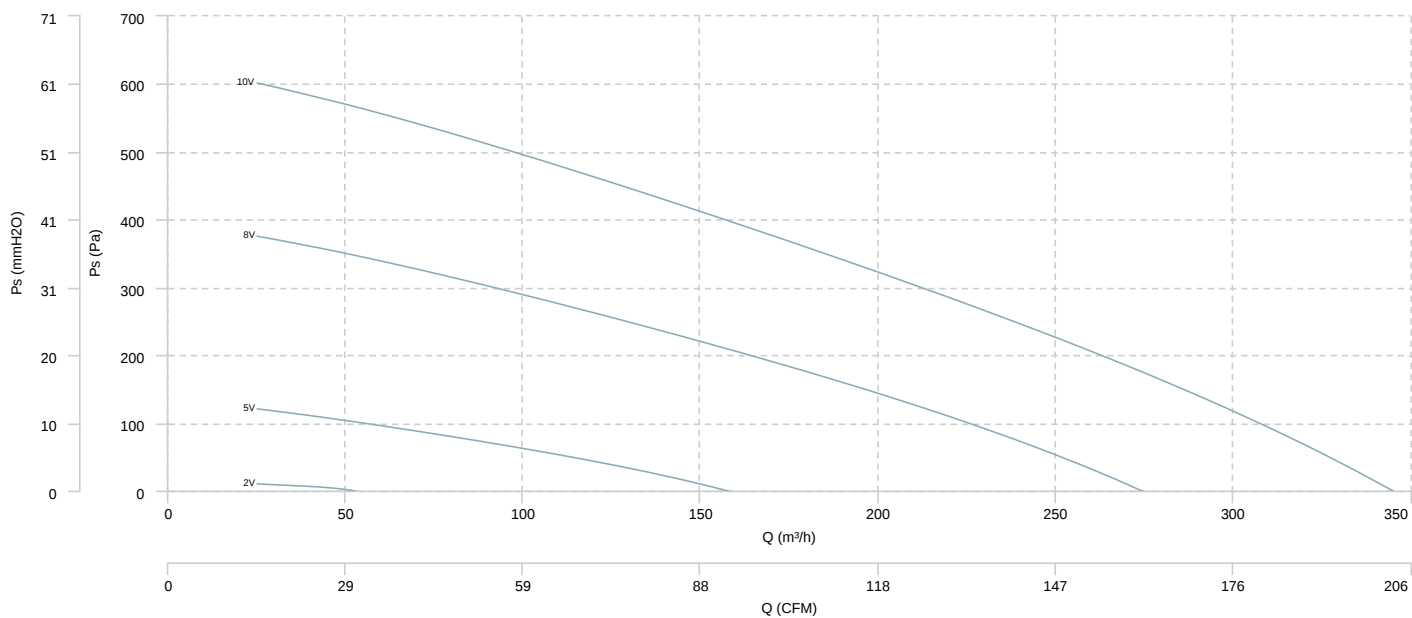
Wiring diagram Nº 3



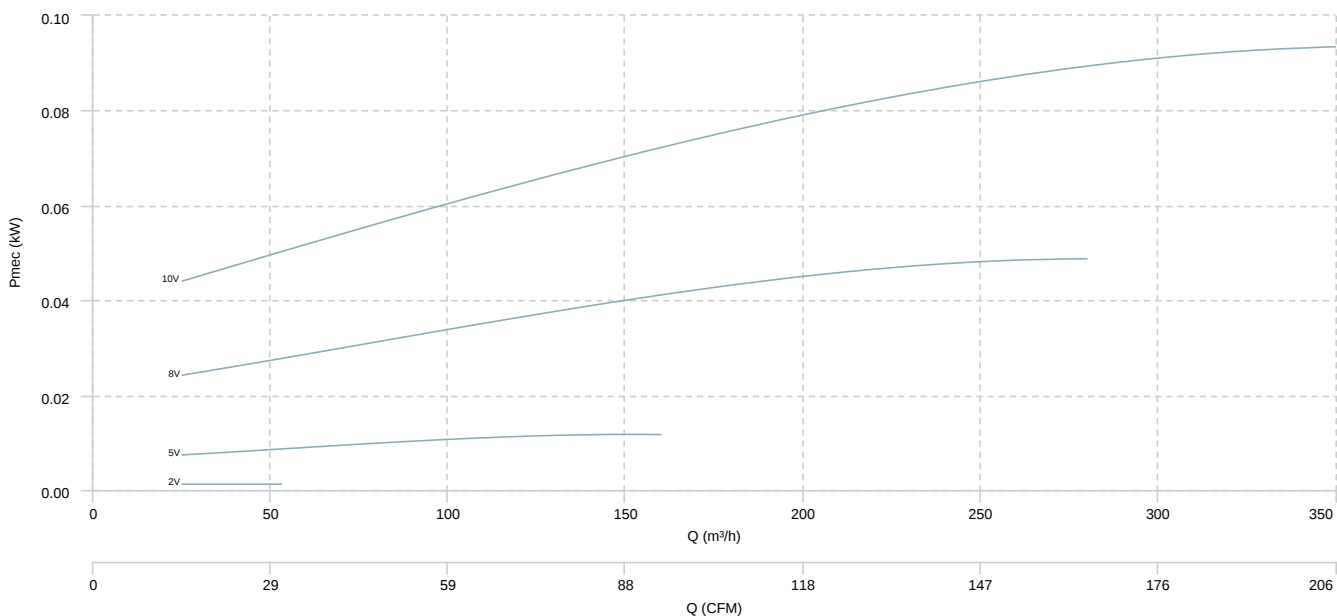
CHARACTERISCTIC CURVE

BT-3 100 EEC

AIR FLOW - PRESSURE

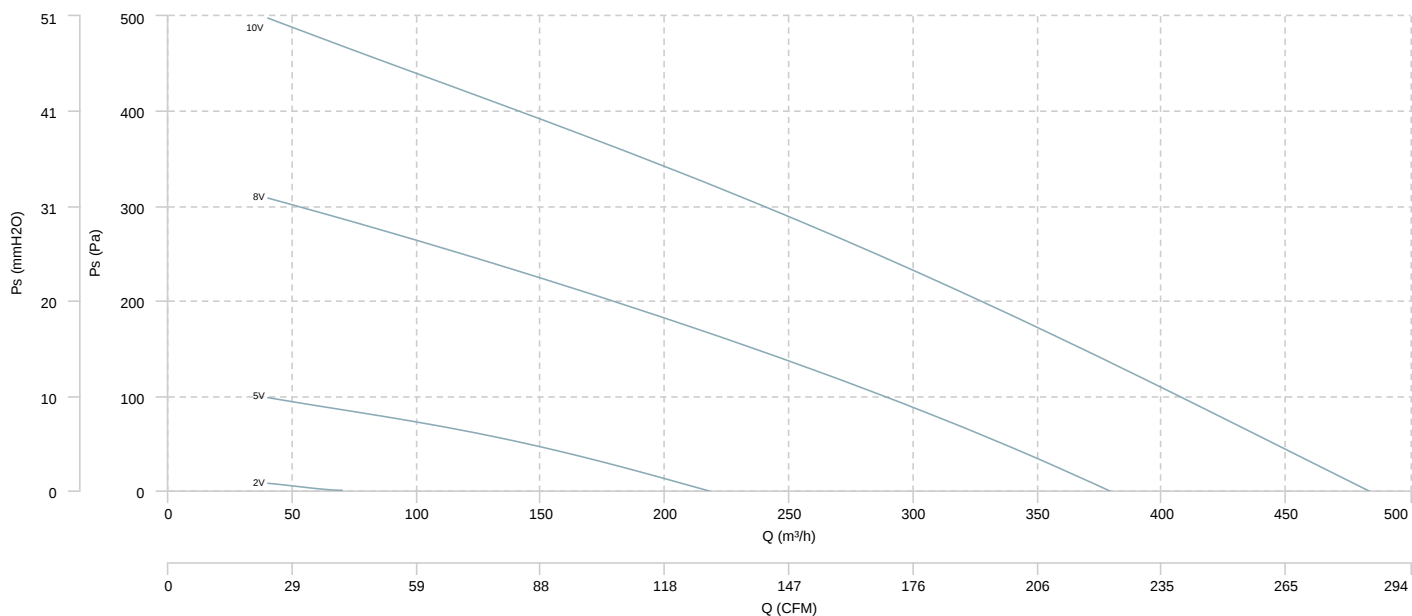


AIR FLOW - MECHANICAL POWER

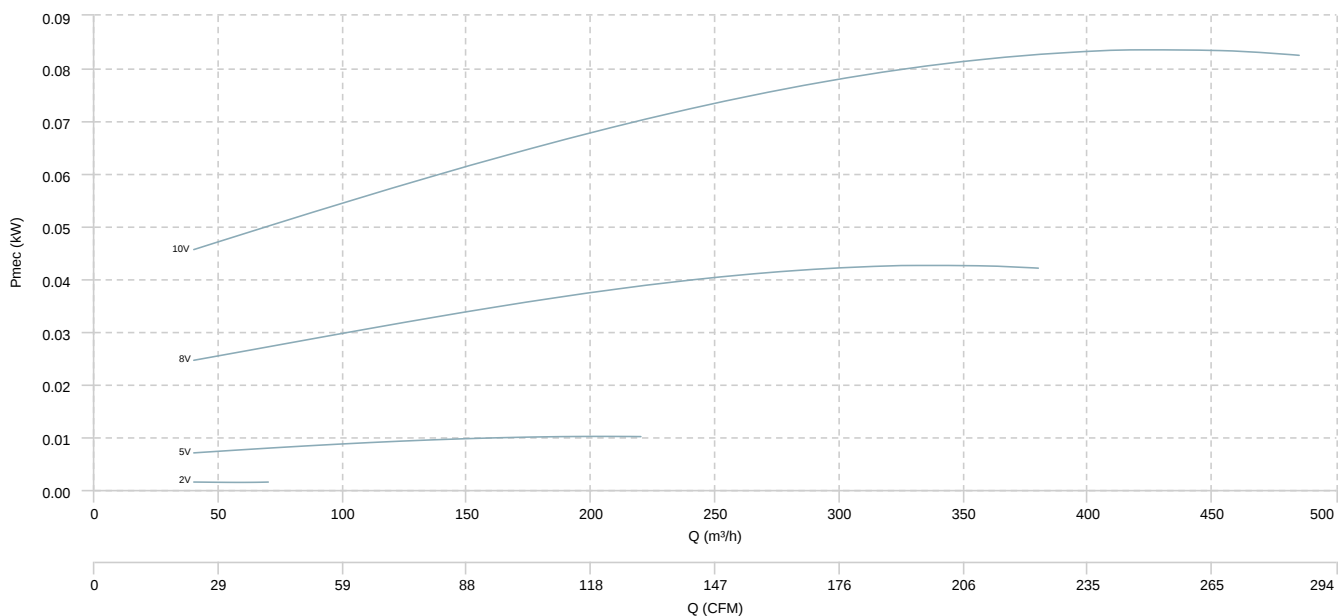


BT-3 125 EEC

AIR FLOW - PRESSURE

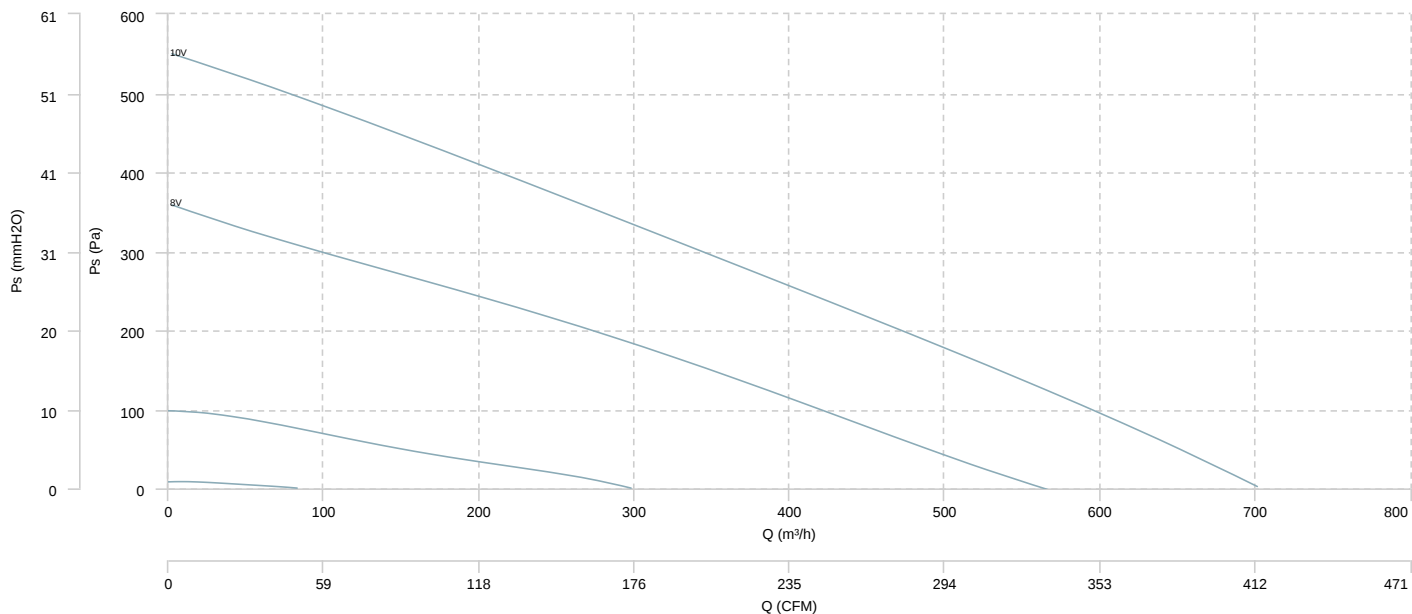


AIR FLOW - MECHANICAL POWER

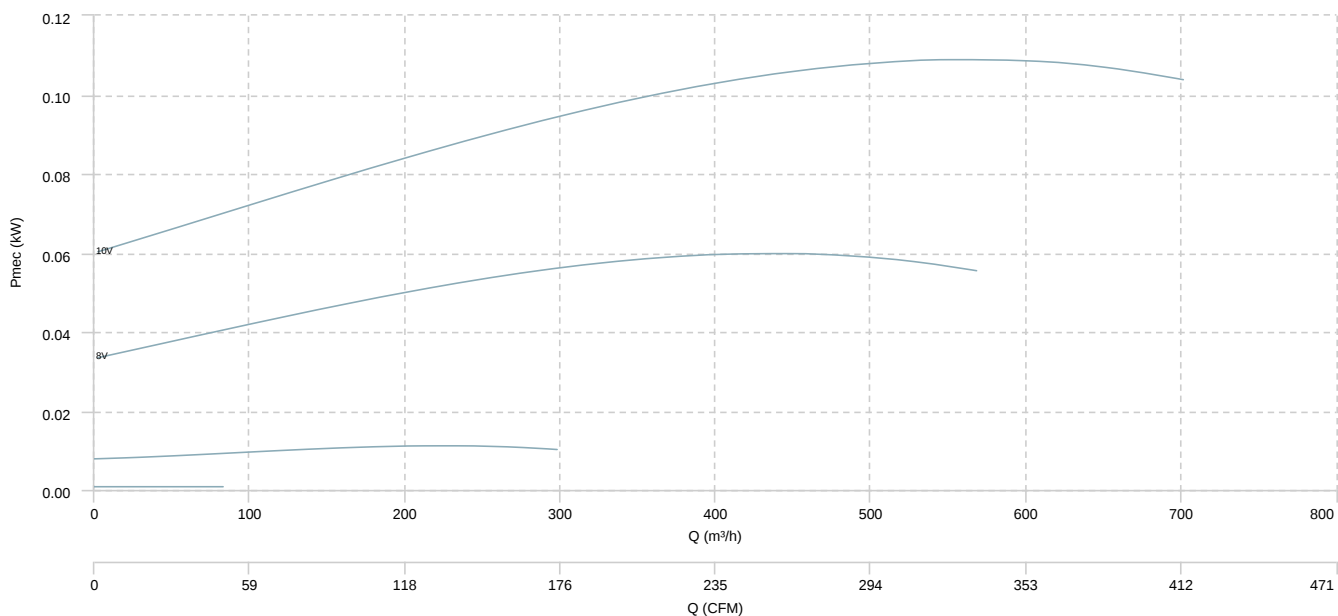


BT-3 150 EEC

AIR FLOW - PRESSURE

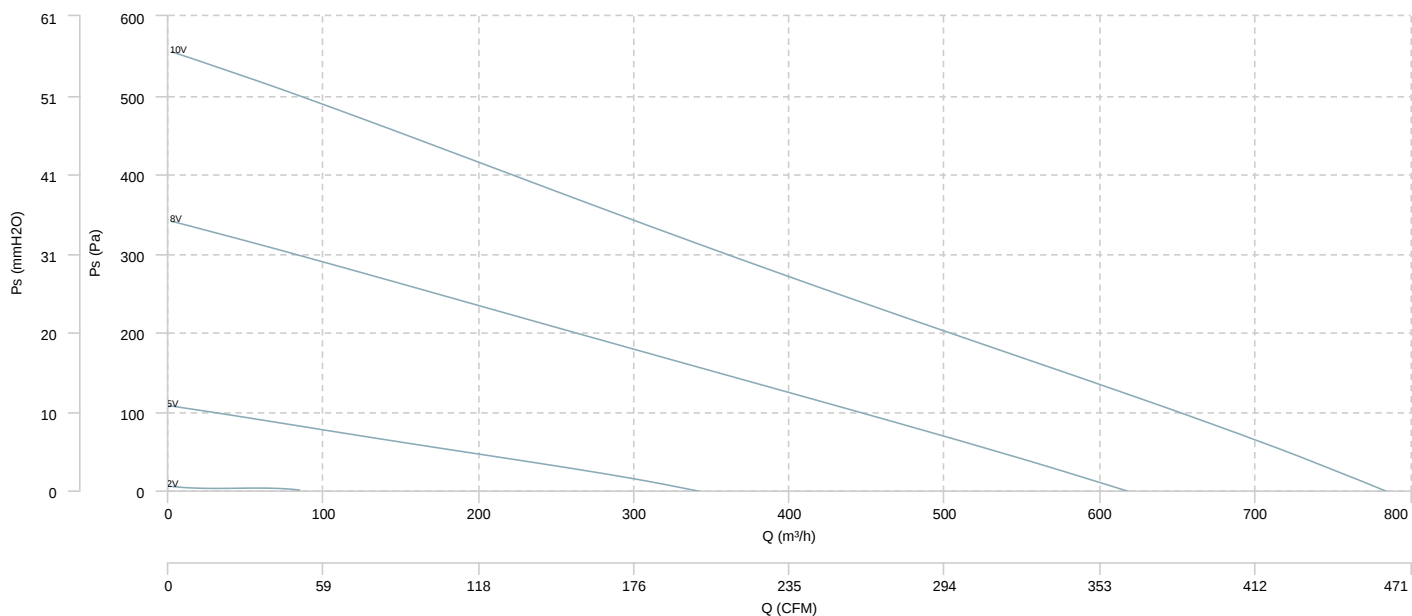


AIR FLOW - MECHANICAL POWER

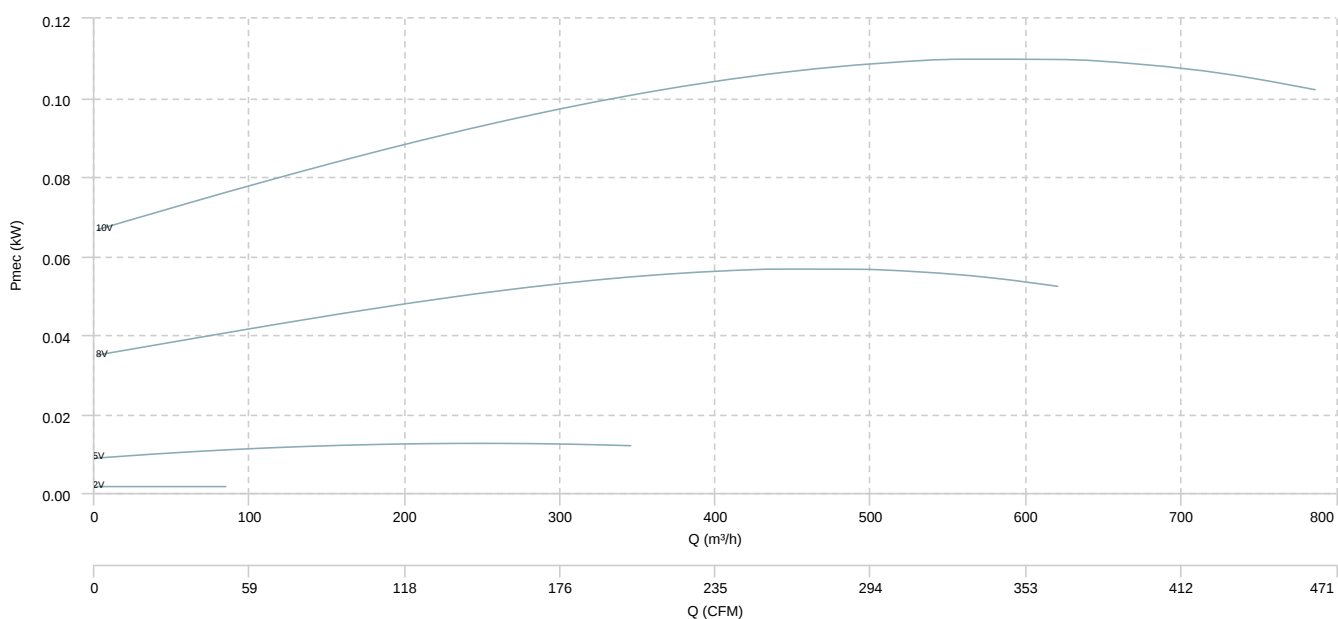


BT-3 160 EEC

AIR FLOW - PRESSURE

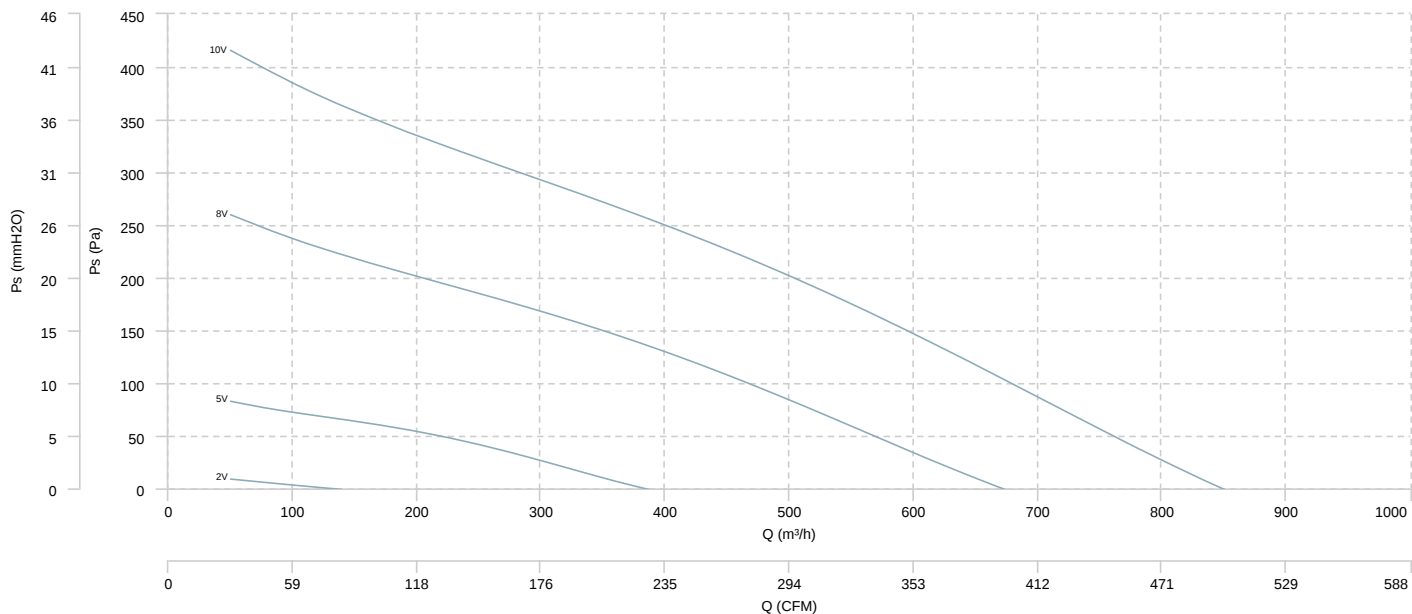


AIR FLOW - MECHANICAL POWER

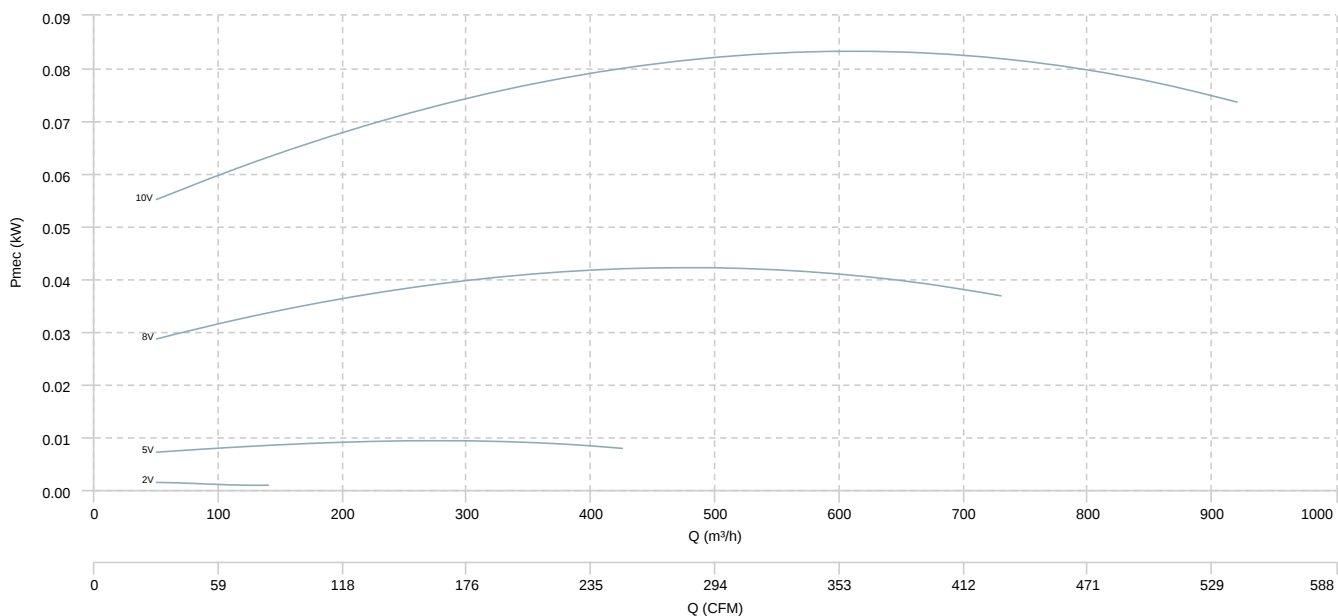


BT-3 200 EEC

AIR FLOW - PRESSURE

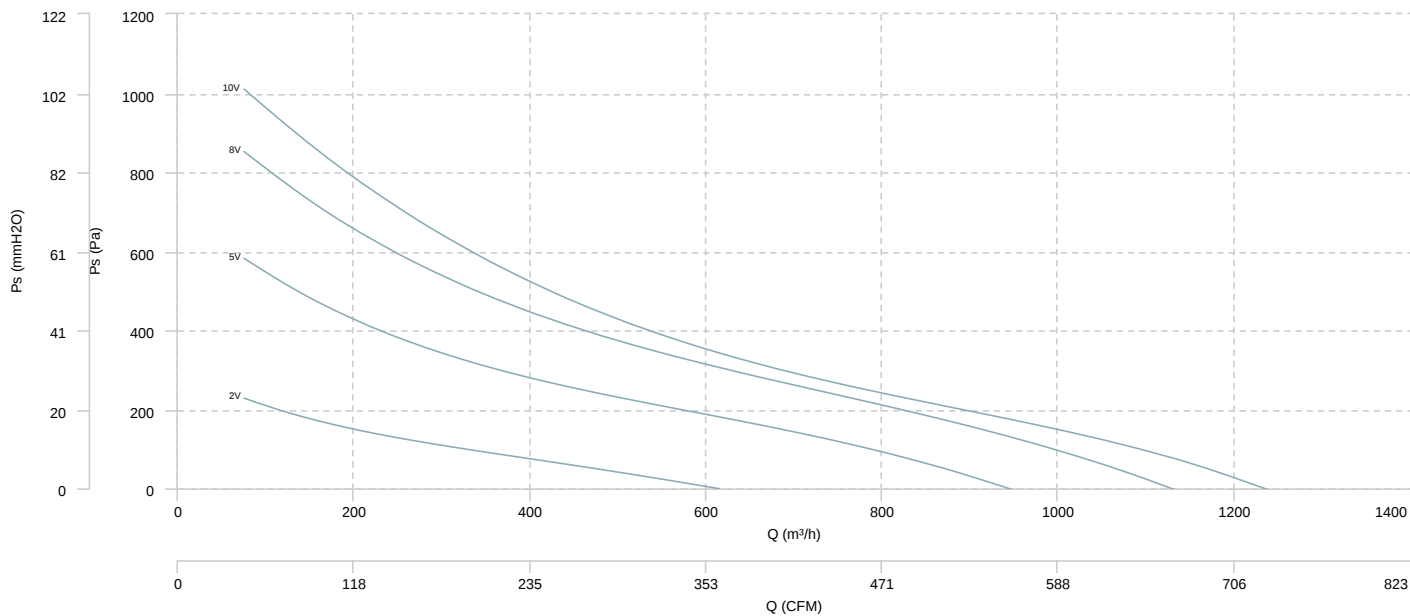


AIR FLOW - MECHANICAL POWER

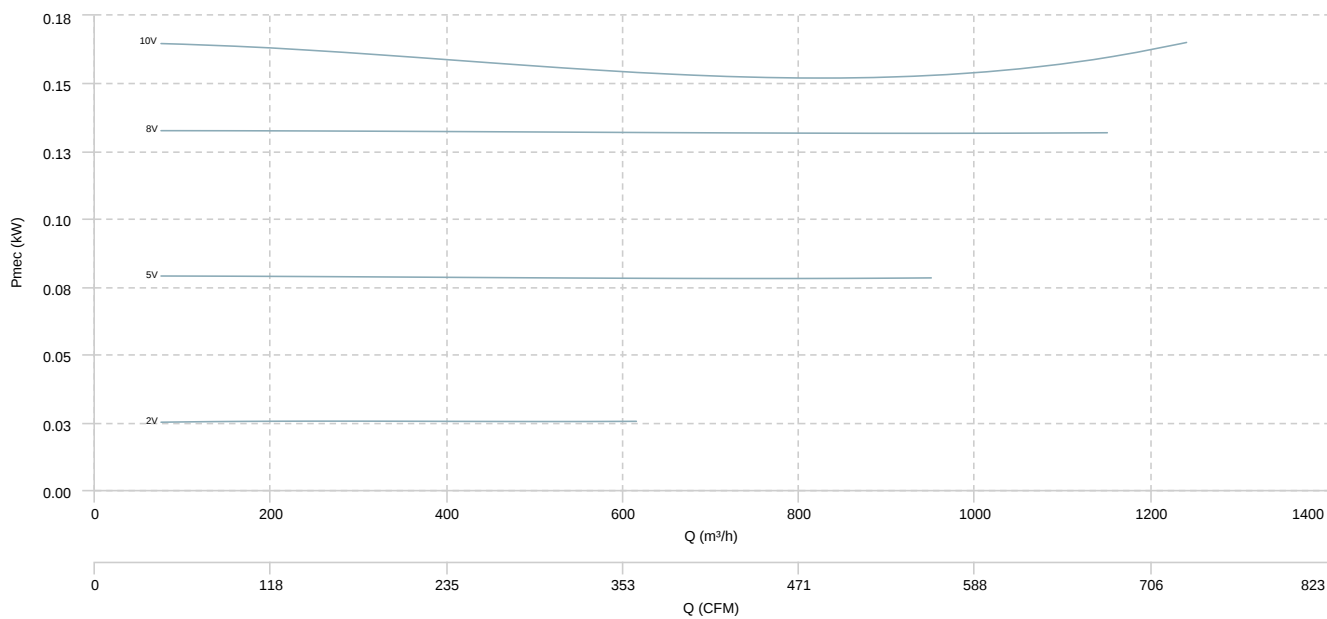


BT-3 250 EEC

AIR FLOW - PRESSURE

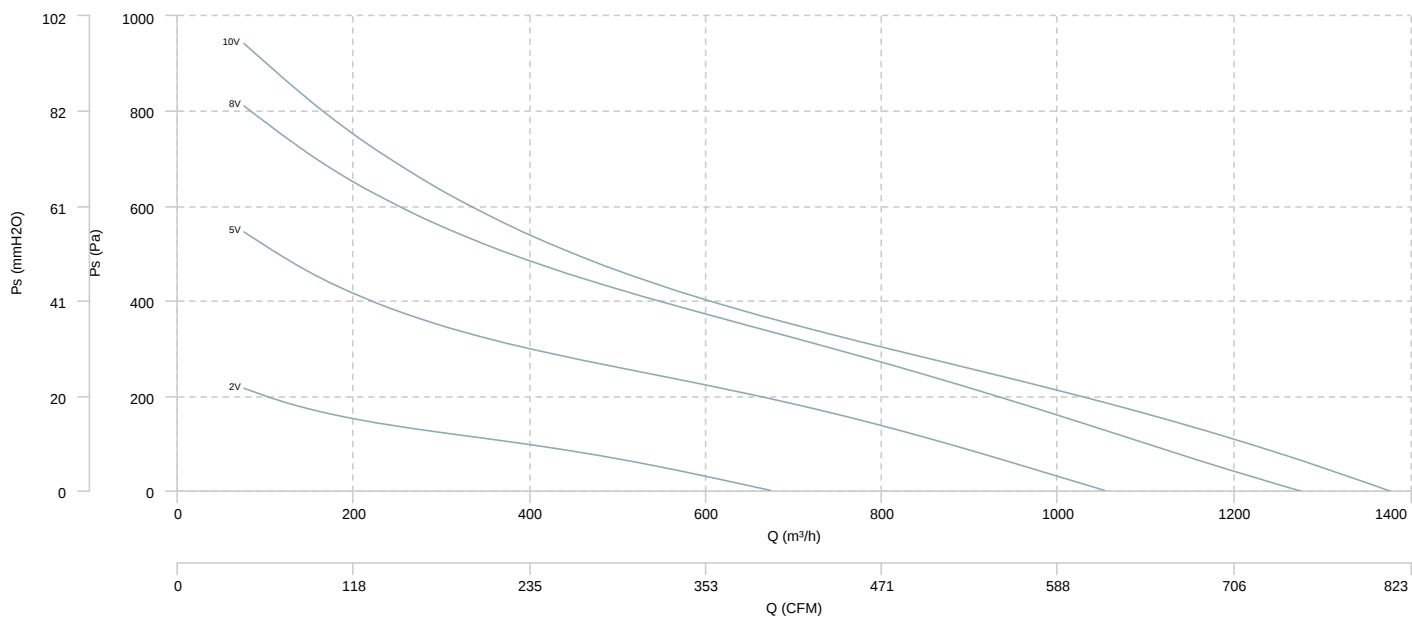


AIR FLOW - MECHANICAL POWER

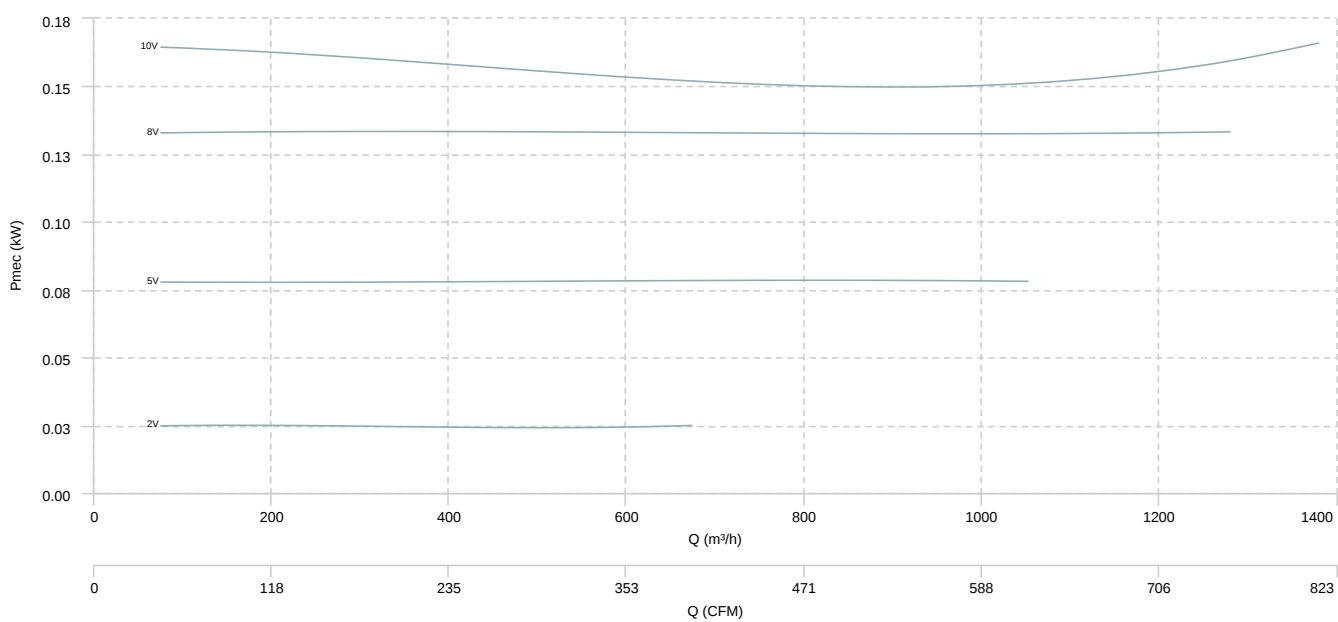


BT-3 315 EEC

AIR FLOW - PRESSURE



AIR FLOW - MECHANICAL POWER



Sound data

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
BT-3 100 EEC	Inlet	66	82	89	80	74	70	63	51	90
	Outlet	73	82	88	79	70	66	61	49	90
	Radiated	31	47	56	60	59	58	47	33	65
BT-3 125 EEC	Inlet	62	83	90	79	74	71	65	54	91
	Outlet	69	83	89	78	71	68	63	52	90
	Radiated	27	48	58	59	60	60	49	37	66
BT-3 150 EEC	Inlet	52	86	85	74	72	70	67	54	89
	Outlet	51	85	82	70	68	64	63	51	87
	Radiated	28	50	61	64	63	62	54	41	69
BT-3 160 EEC	Inlet	81	87	79	72	68	62	50	54	89
	Outlet	81	86	78	69	65	60	48	51	88
	Radiated	50	59	64	63	61	50	36	41	68
BT-3 200 EEC	Inlet	48	76	84	79	79	80	72	61	88
	Outlet	45	75	79	77	77	80	72	62	85
	Radiated	27	49	60	62	61	60	52	39	67
BT-3 250 EEC	Inlet	61	77	85	83	84	81	76	65	90
	Outlet	65	77	74	83	85	83	78	64	89
	Radiated	29	48	57	60	63	59	51	37	67
BT-3 315 EEC	Inlet	51	73	71	75	81	82	77	68	86
	Outlet	55	66	76	73	81	84	77	69	87
	Radiated	30	48	56	62	64	64	56	49	69