

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.

Accessories



INT



JE 45



PSD2



REGC

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.

Technical data

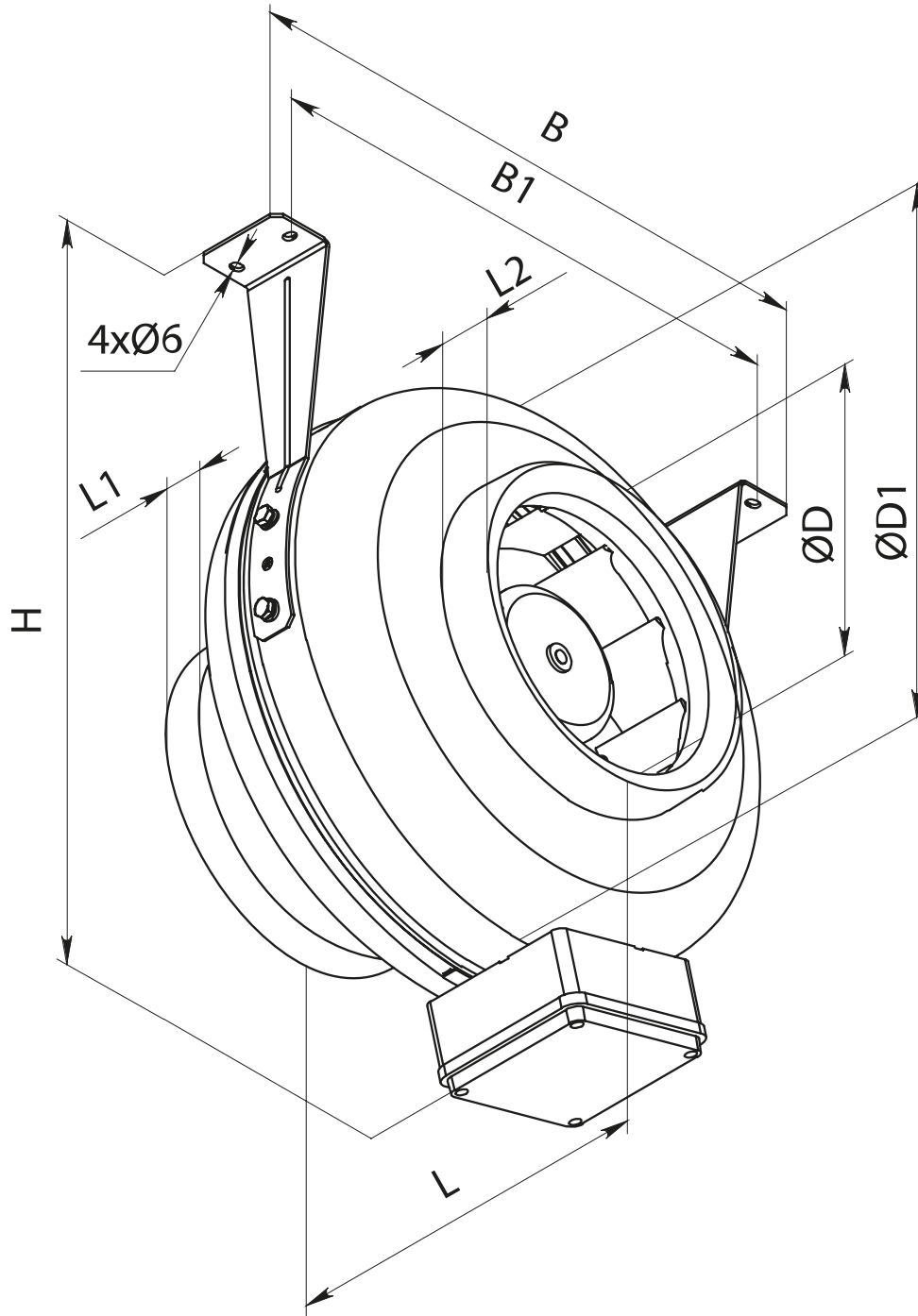
Single-phase motor

Code	Model	R.P.M.	Rated I. (A) 230V	Rated power kW	Max. Airflow m3/h	Sound db (A)**	Weight	Connect. diagram
510310000	BT-3 100 EEC	3600	0,70	0,09	345	64	3,45	1
510312500	BT-3 125 EEC	3400	0,58	0,08	480	65	3,58	1
510315000	BT-3 150 EEC	2800	0,73	0,10	620	62	4,17	1
510316000	BT-3 160 EEC	2800	0,72	0,10	685	62	4,32	1
510320000	BT-3 200 EEC	2500	0,63	0,08	845	61	5,70	1
510325000	BT-3 250 EEC	2900	1,15	0,16	1.235	64	5,10	1
510331500	BT-3 315 EEC	2900	1,15	0,16	1.375	60	7,30	1

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

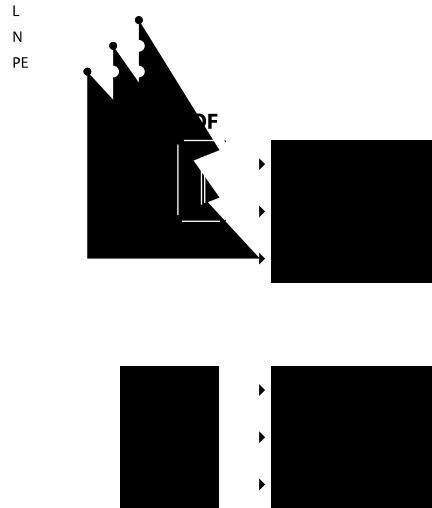


Model	B	B1	H	L	L1	L2	L3	ØD	ØD1
BT-3 100 EEC	310	270	340	203	20	25	30	98	255
BT-3 125 EEC	310	270	340	203	20	25	30	123	255
BT-3 150 EEC	360	320	365	220	25	25	30	149	305

Model	B	B1	H	L	L1	L2	L3	ØD	ØD1
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

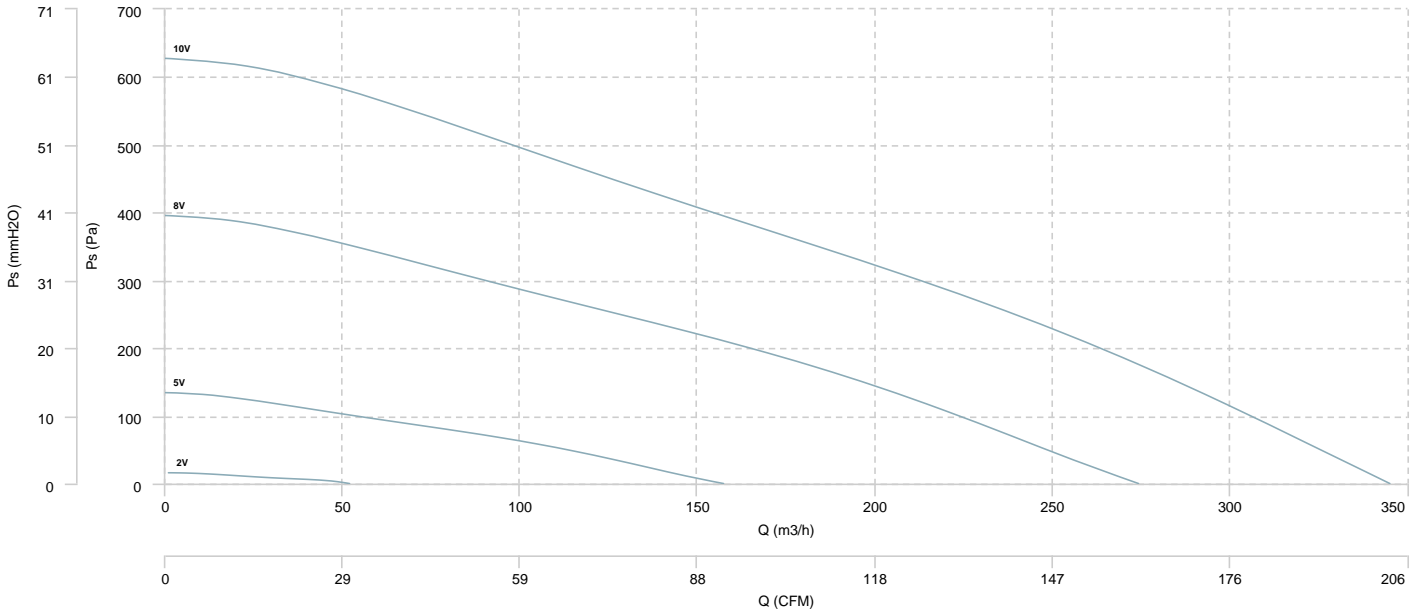
DIAGRAM N° 1



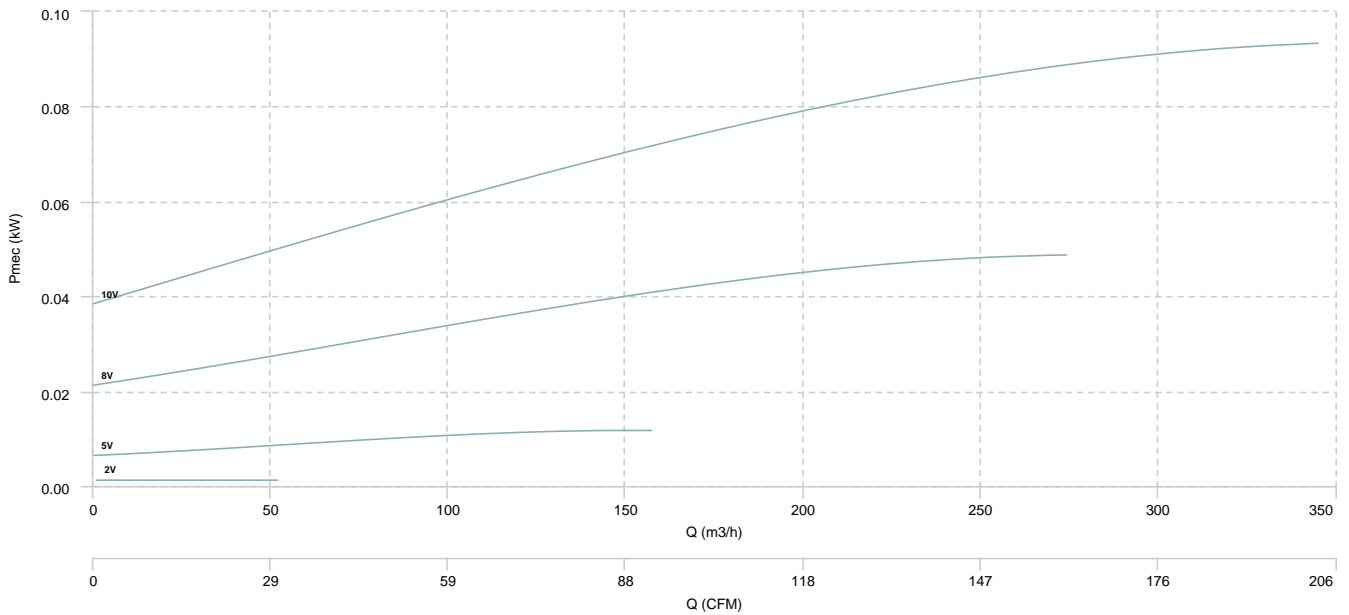
CHARACTERISCTIC CURVE

BT-3 100 EEC

AIR FLOW - PRESSURE

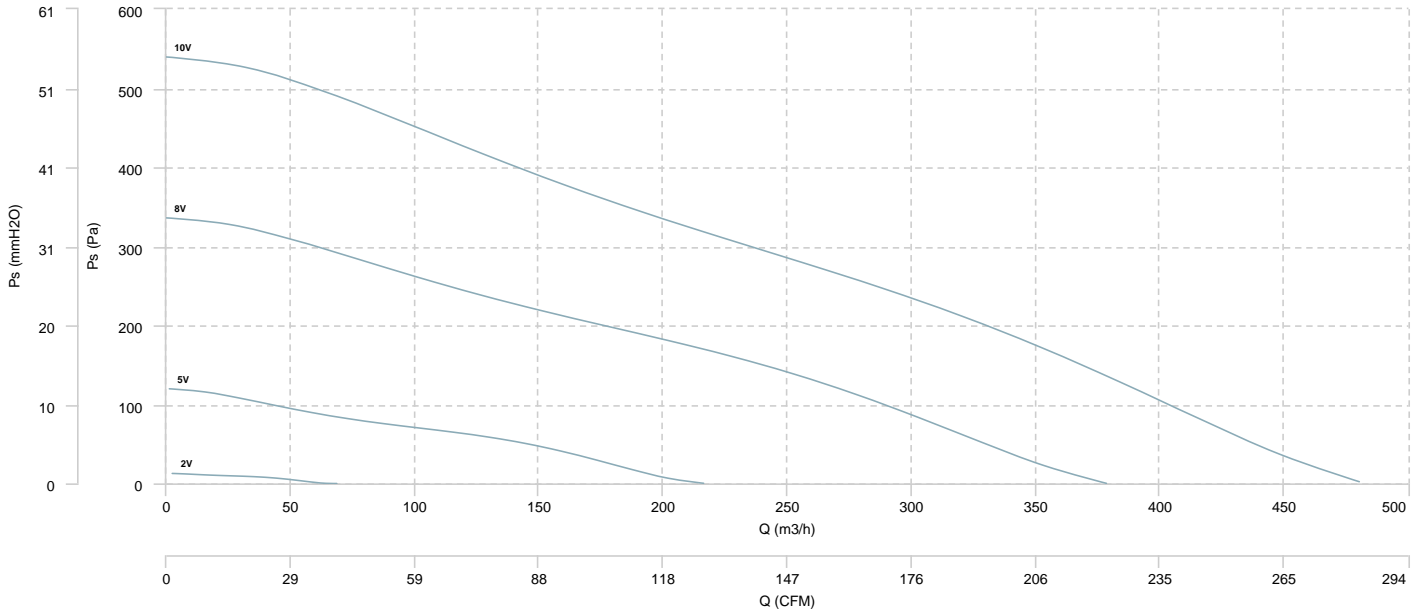


AIR FLOW - MECHANICAL POWER

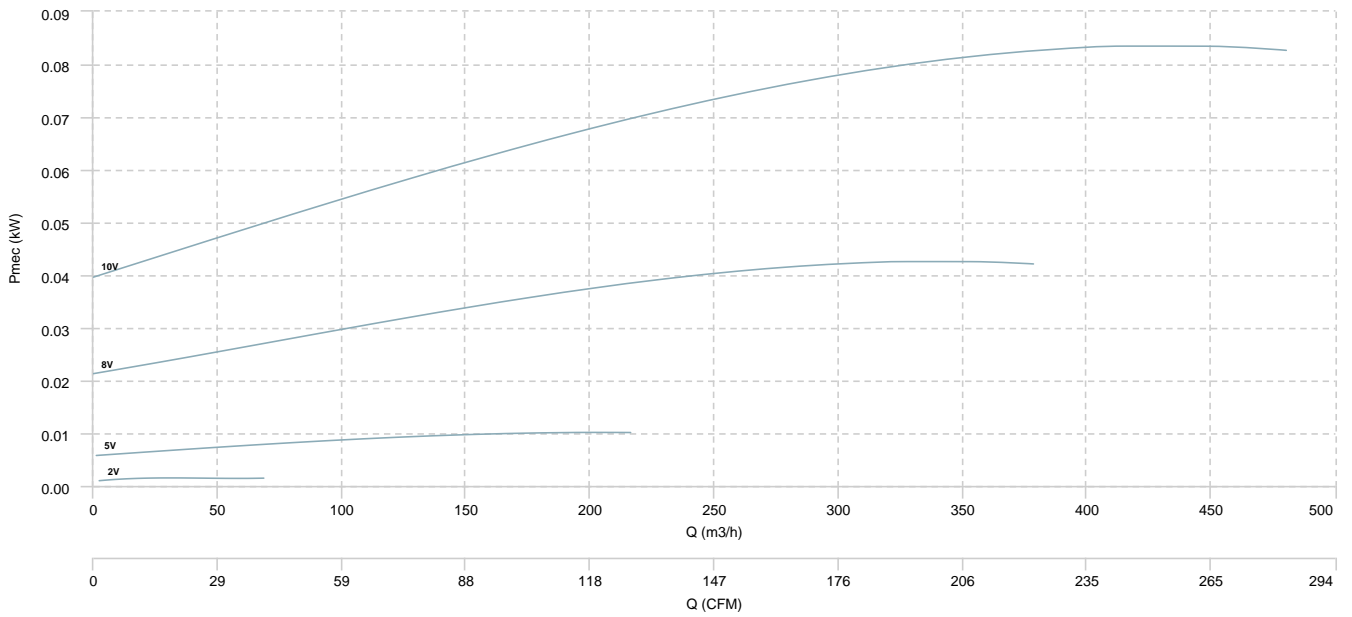


BT-3 125 EEC

AIR FLOW - PRESSURE

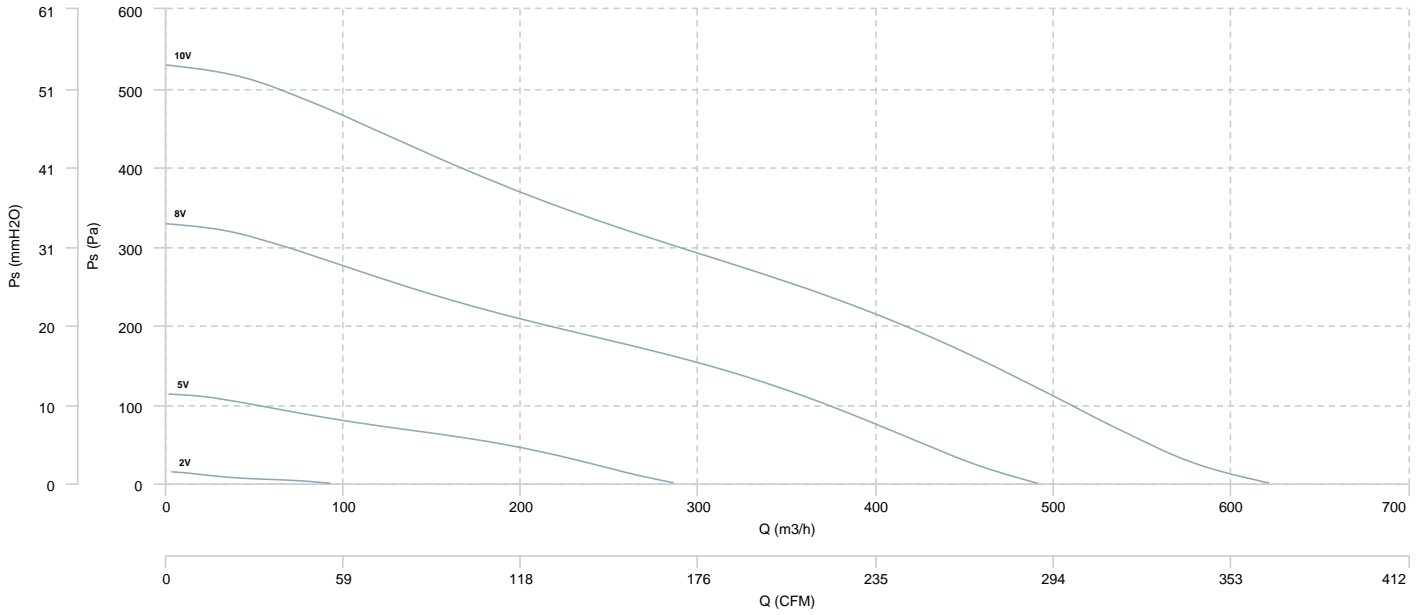


AIR FLOW - MECHANICAL POWER

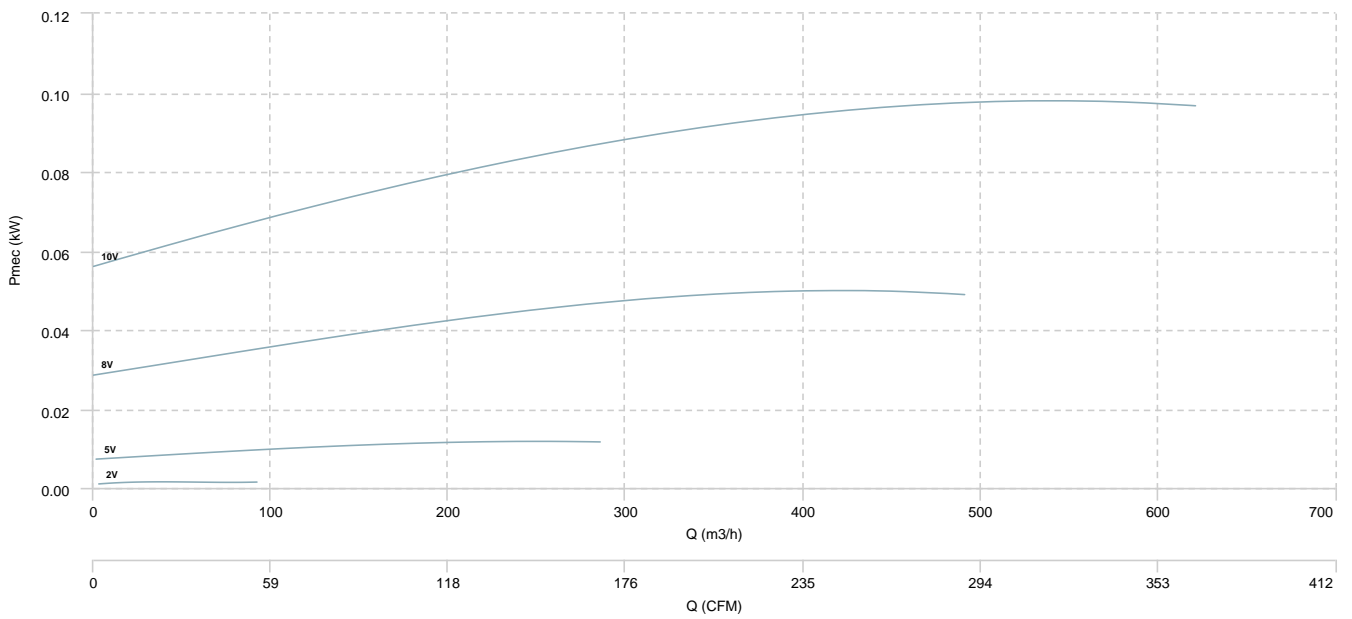


BT-3 150 EEC

AIR FLOW - PRESSURE

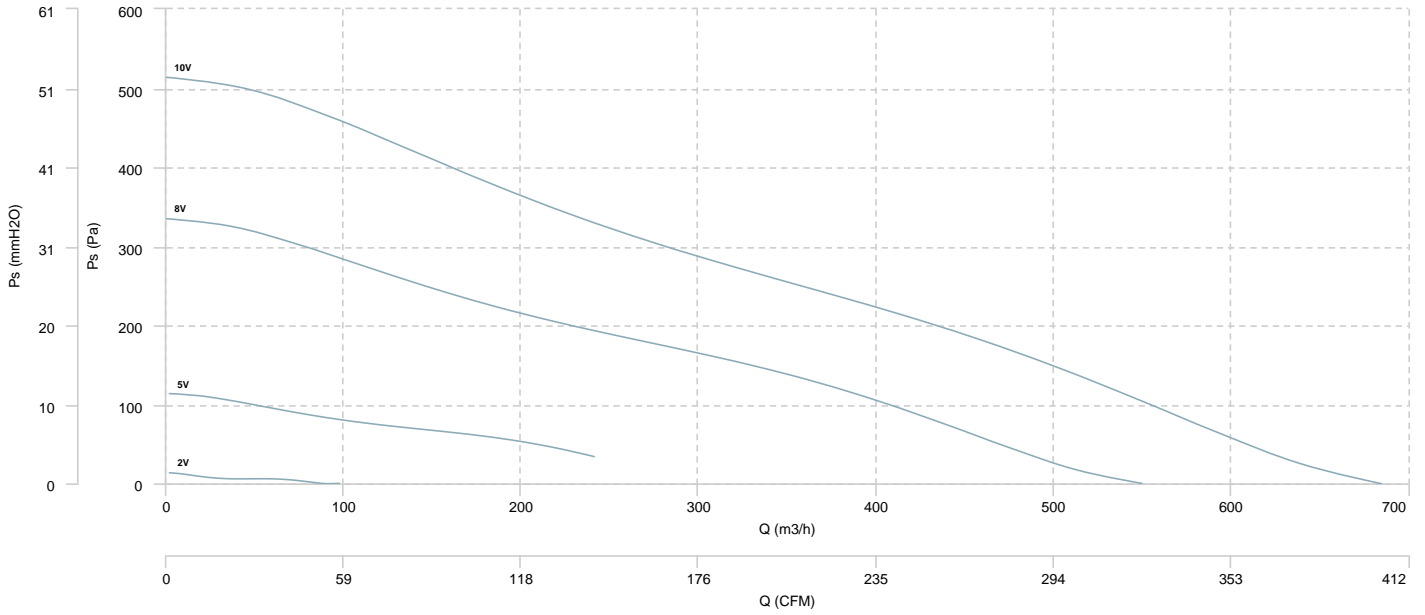


AIR FLOW - MECHANICAL POWER

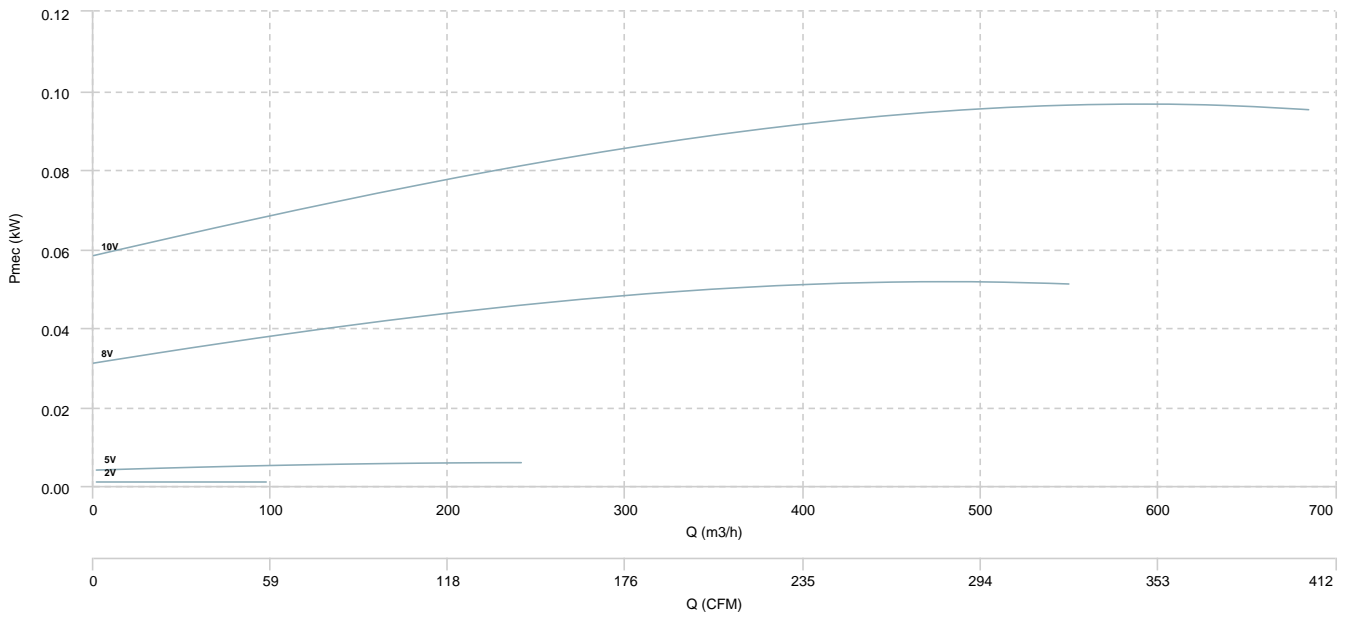


BT-3 160 EEC

AIR FLOW - PRESSURE

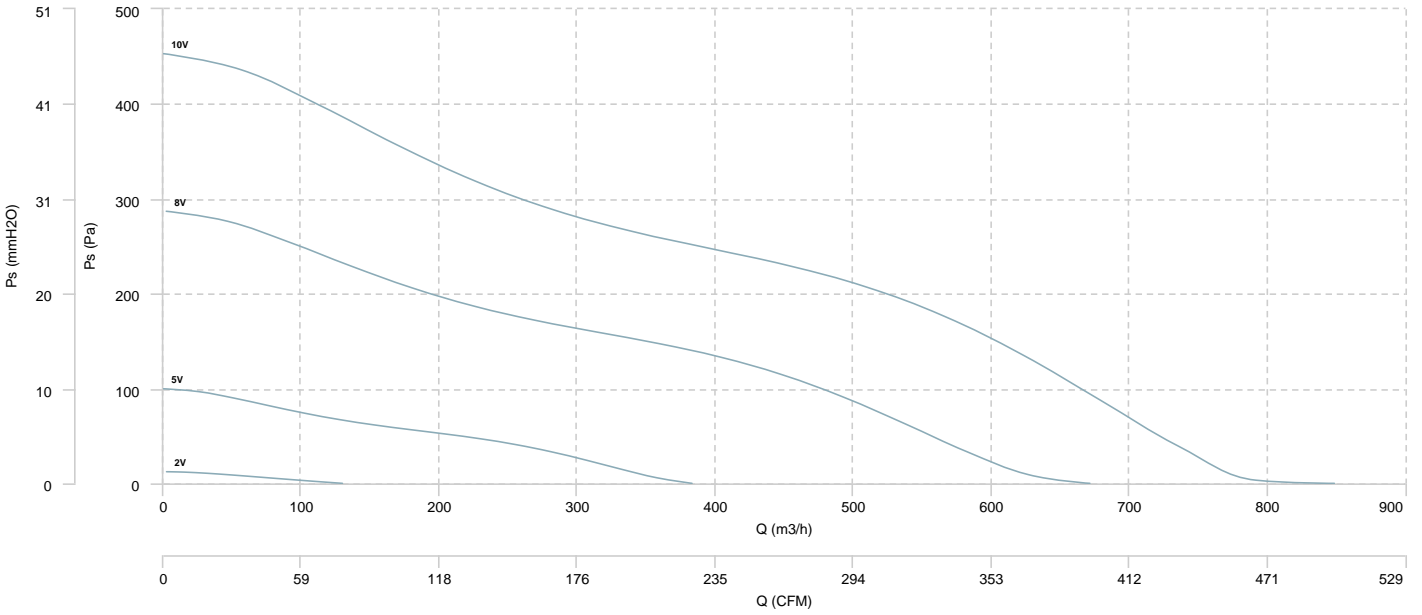


AIR FLOW - MECHANICAL POWER

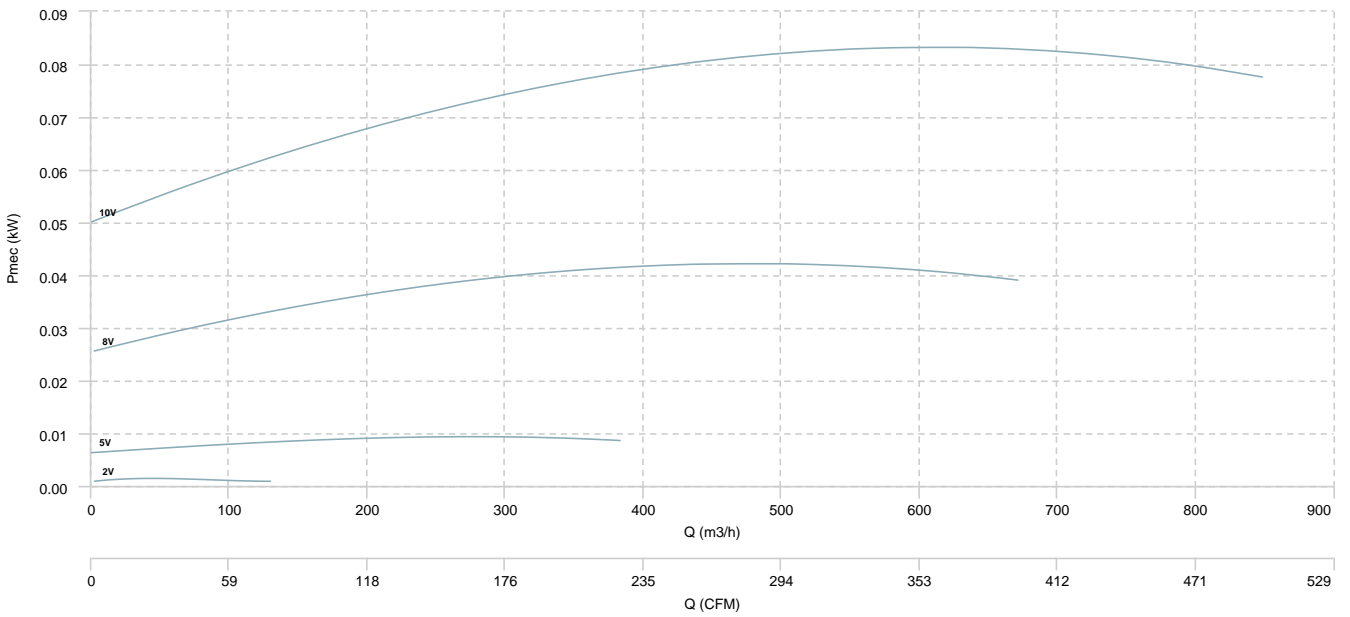


BT-3 200 EEC

AIR FLOW - PRESSURE

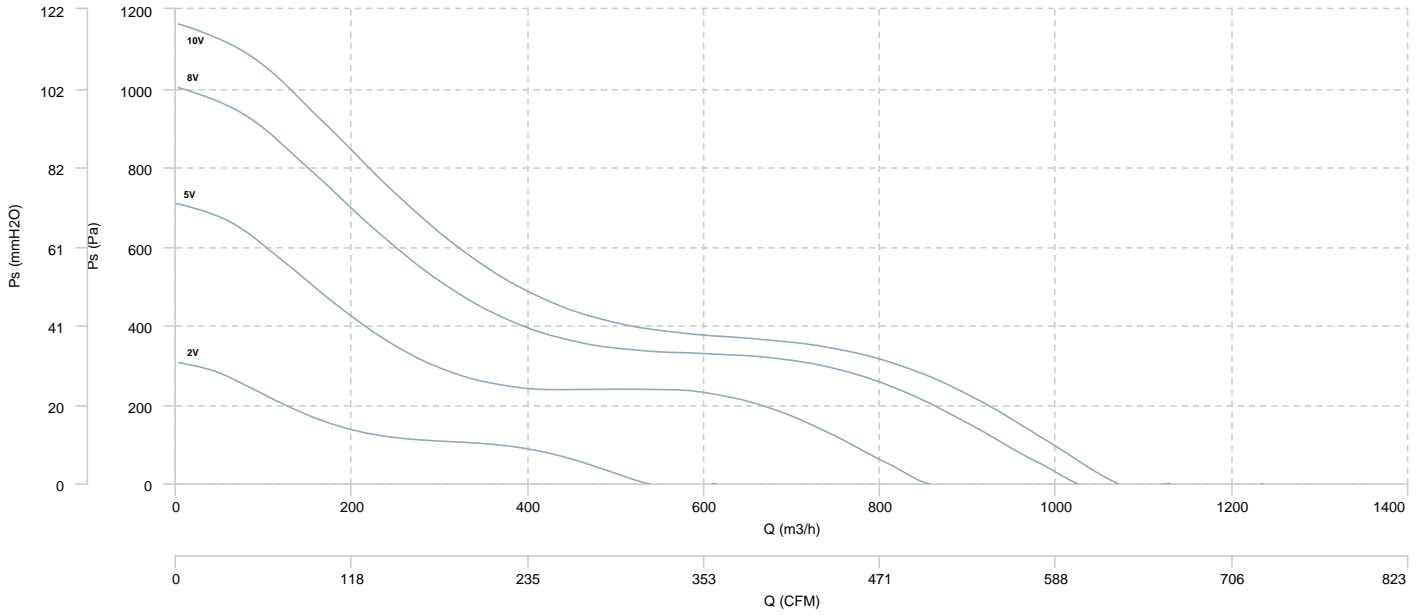


AIR FLOW - MECHANICAL POWER

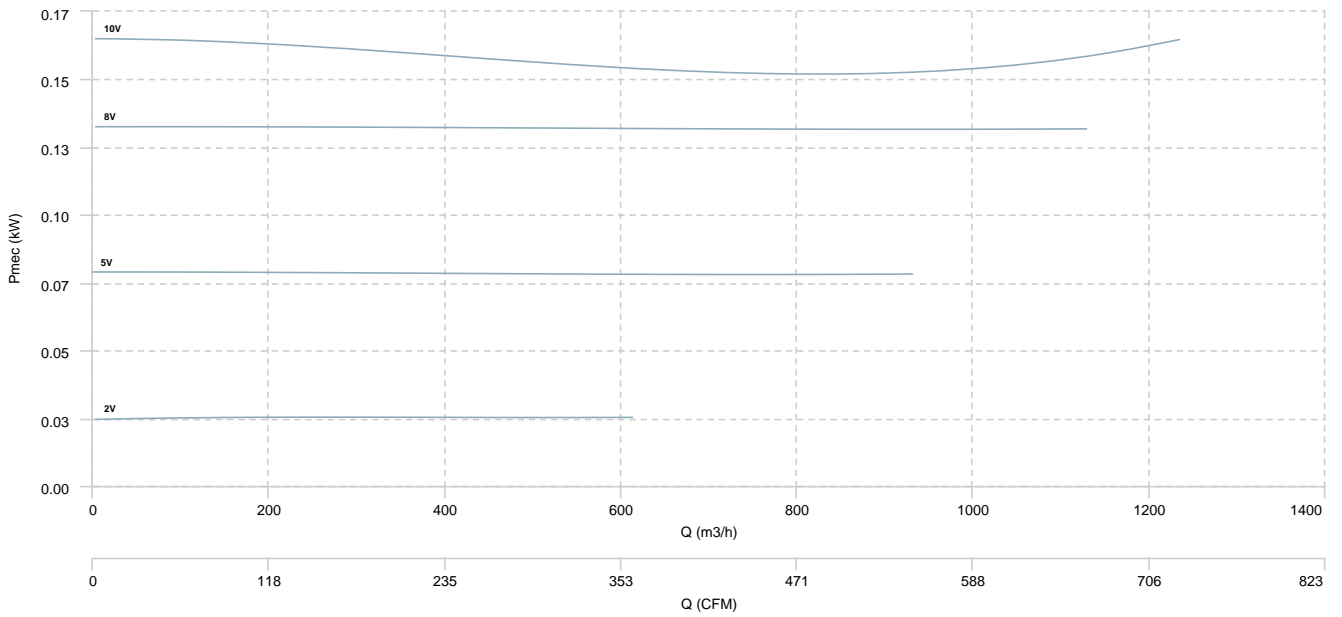


BT-3 250 EEC

AIR FLOW - PRESSURE

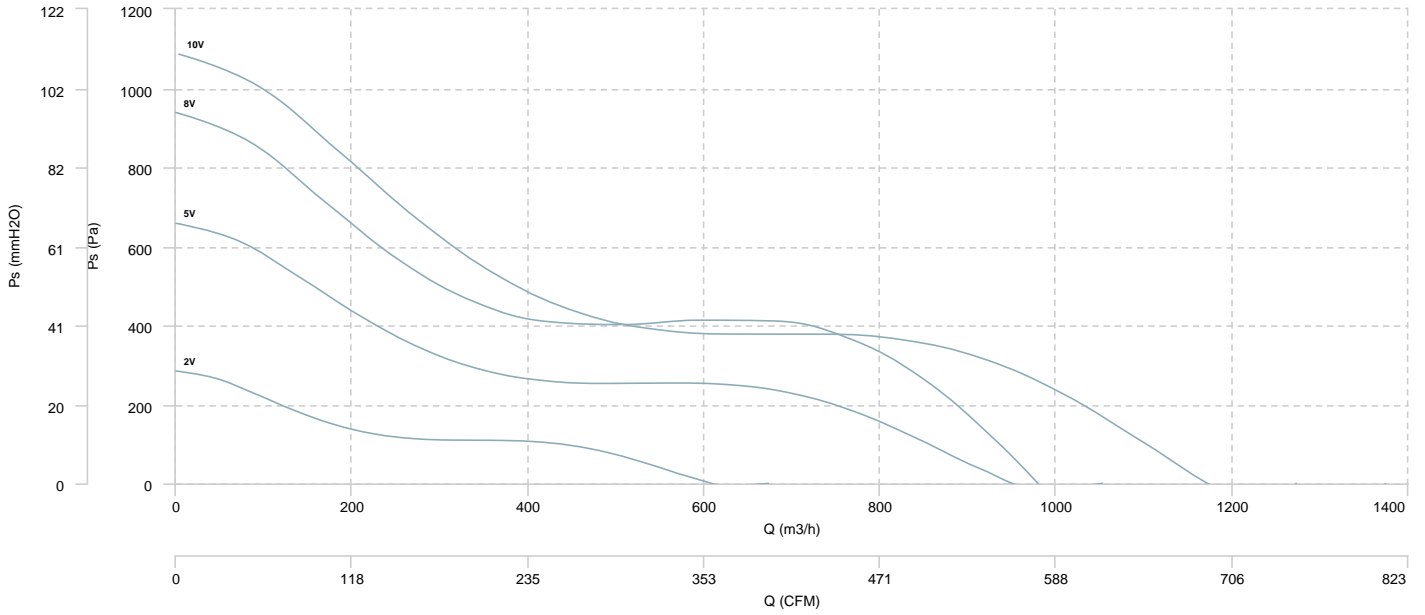


AIR FLOW - MECHANICAL POWER

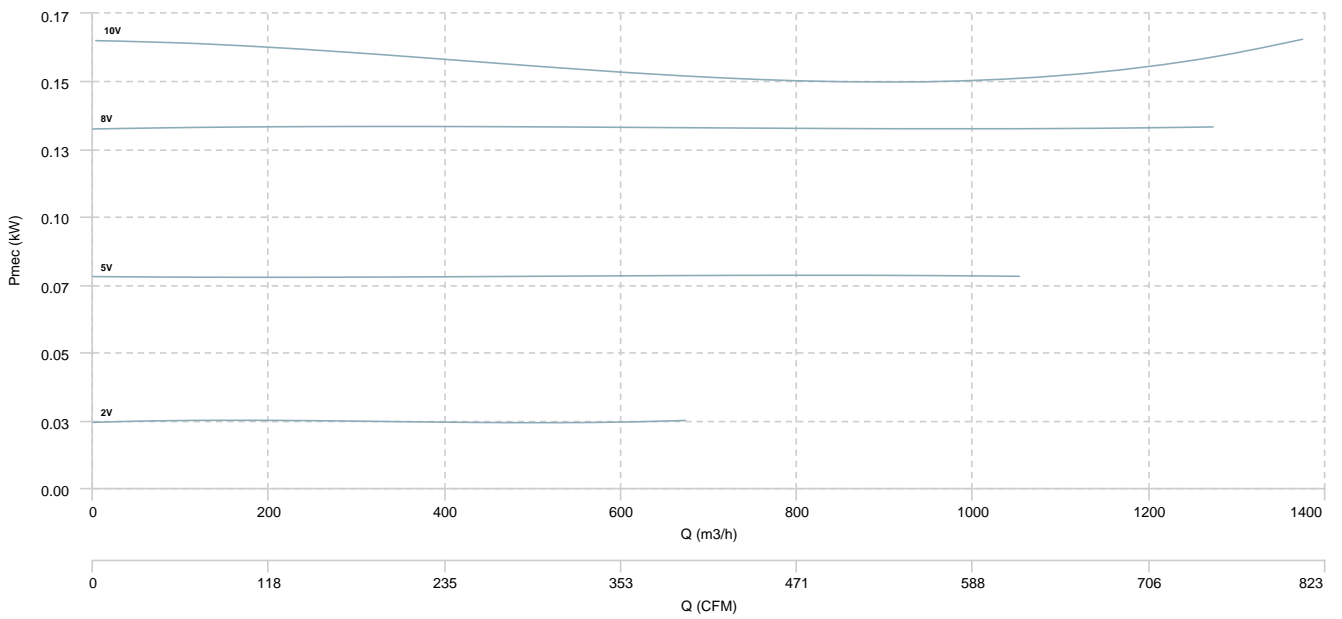


BT-3 315 EEC

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	65	82	88	80	73	69	62	51	90
	Outlet	73	82	87	79	70	66	60	49	89
	Radiated	31	47	56	60	59	58	47	33	65
BT-3 125 EEC	Inlet	61	82	90	78	74	71	64	54	91
	Outlet	69	82	89	77	71	68	62	52	90
	Radiated	27	48	58	59	60	60	49	37	65
BT-3 150 EEC	Inlet	51	85	84	73	71	69	66	53	88
	Outlet	50	84	81	68	67	63	62	50	86
	Radiated	27	49	60	63	62	61	53	40	68
BT-3 160 EEC	Inlet	64	80	86	78	71	67	61	49	88
	Outlet	71	80	85	76	68	64	59	47	87
	Radiated	32	49	58	63	62	60	49	35	67
BT-3 200 EEC	Inlet	47	75	83	78	79	79	71	61	87
	Outlet	44	74	78	76	77	79	71	62	85
	Radiated	27	49	60	62	61	60	52	39	67
BT-3 250 EEC	Inlet	60	77	84	82	84	80	76	64	90
	Outlet	65	77	74	83	84	83	77	63	89
	Radiated	29	48	57	60	63	59	51	37	67
BT-3 315 EEC	Inlet	50	73	70	74	80	82	77	68	86
	Outlet	55	66	76	73	80	84	77	68	87
	Radiated	30	48	56	62	64	64	56	49	69