

BOX BD 3V



CENTRIFUGAL IN SOUNDPROOF CABINET, 3SPEED MOTOR

MANUFACTURING FEATURES:

- Impellers made of polyamide reinforced with fiberglass
- BD 3V range fans assembled in soundproof cabinets with thermo-acoustic insulation, Bs1d0 fire class.
- Fan assembled on antivibration mountings.
- Connection gland included.
- Closed 3 speed motor specially designed Casals: extruded aluminum housing, all protected inside the terminal box on the motor IP 65 protection and motor with IP54 protection and Class F insulation standard voltages: 230V 50Hz

APPLICATIONS:

Designed for inline installation, indoor or outdoor assembly, they are suitable for:

- Air renewal in buildings and industries.
- Industrial and professional kitchen hoods. Use in supply or extraction with prior fat filtering.
- Maximum working temperature: 50°C.

UNDER REQUEST:

- LG0 position.
- Impellers made of galvanised steel sheet.

Accessories



BAC



INT



INT 3V



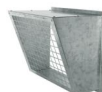
PI



TCA



TIAC



VIS

Technical data

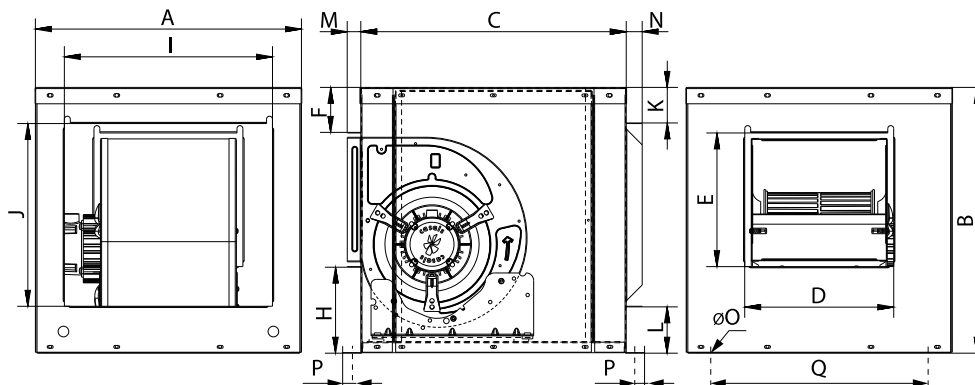
3 speed motor

Code	Model	R.P.M.	Rated I. A 230V	Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weight kg	Connect. diagram
251100550 M001	BOX BD 7/7 M4 0,12kW 3V	1126 / 1266 / 1360	L1=1,5 L2=0,9 L3=0,6	0,12	1.653	50	19	1
251220550 M001	BOX BD 9/9 M4 0,35kW 3V	1167 / 1260 / 1400	L1=3,2 L2=2,4 L3=1,6	0,35	2.774	50	30	1
251320550 M001	BOX BD 10/10 M4 0,59kW 3V	1032 / 1216 / 1400	L1=4,96 L2=2,9 L3=2	0,59	3.525	54	34	1
251520550 M001	BOX BD 12/12 M6 0,79kW 3V	749 / 812 / 860	L1=6,5 L2=4,1 L3=3	0,79	5.928	59	49	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

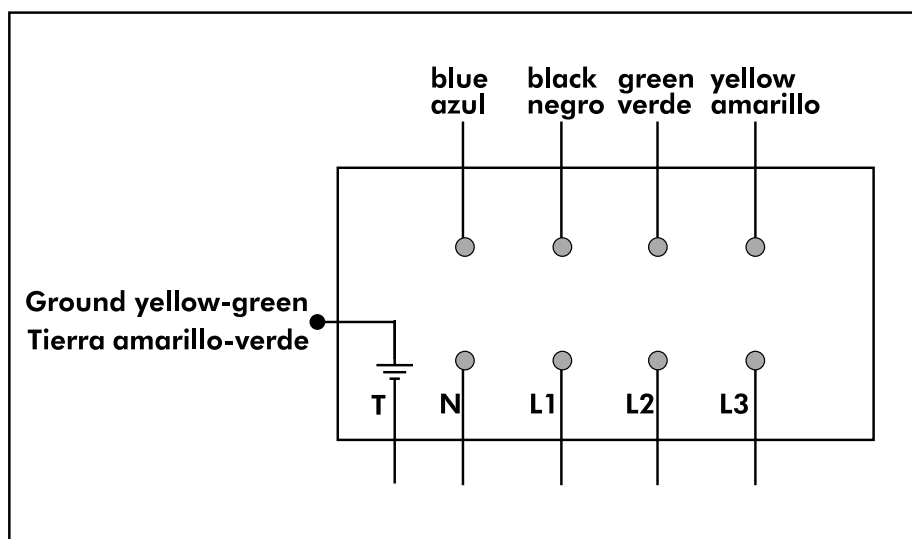


Model	A	B	C	D	E	F	H	I	J
BOX BD 7/7 M4 0,12kW 3V	450	450	450	242	216	81	150	352	309
BOX BD 9/9 M4 0,35kW 3V	535	535	535	311	268	96	169	418	359
BOX BD 10/10 M4 0,59kW 3V	580	580	580	342	298	84	195	493	421
BOX BD 12/12 M6 0,79kW 3V	650	650	650	408	349	83	216	576	500

Model	K	L	M	N	O	P	Q
BOX BD 7/7 M4 0,12kW 3V	60	78	23	27	10	17	393,5
BOX BD 9/9 M4 0,35kW 3V	78	96	23	27	10	17	478,5
BOX BD 10/10 M4 0,59kW 3V	69	88	23	27	10	17	522,4
BOX BD 12/12 M6 0,79kW 3V	65	83	23	27	10	17	592,4

Wiring diagram

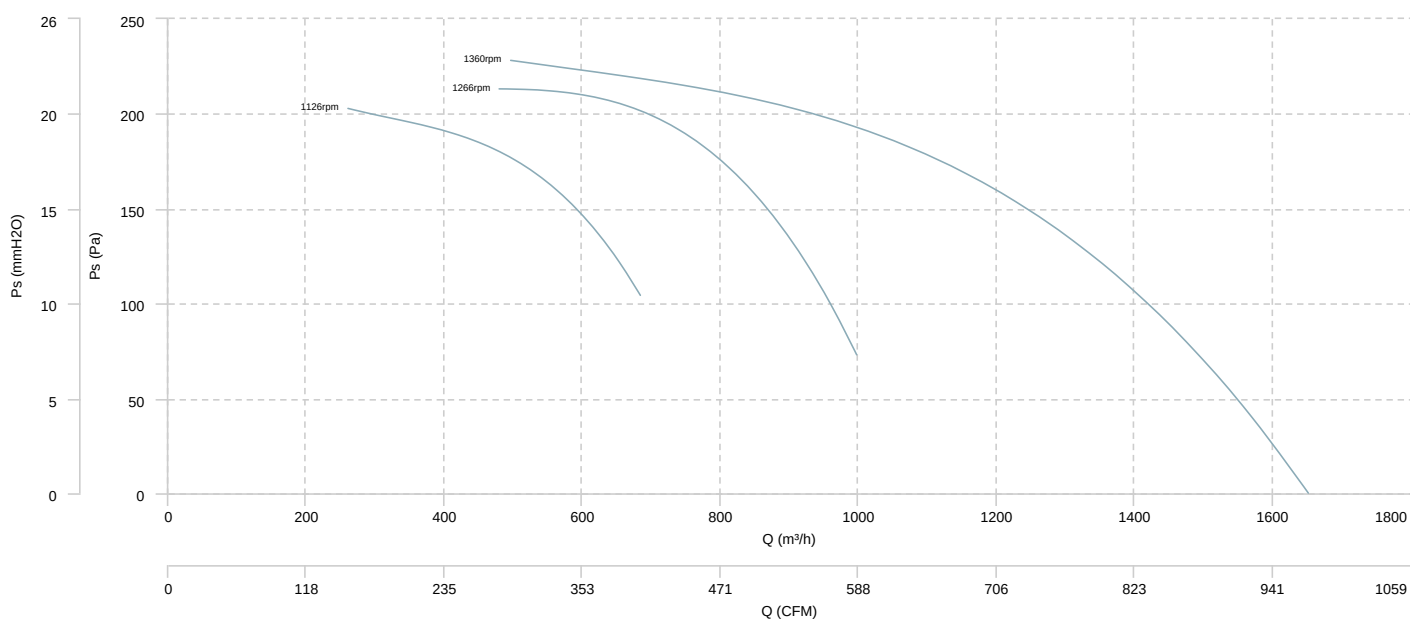
Wiring diagram Nº 1



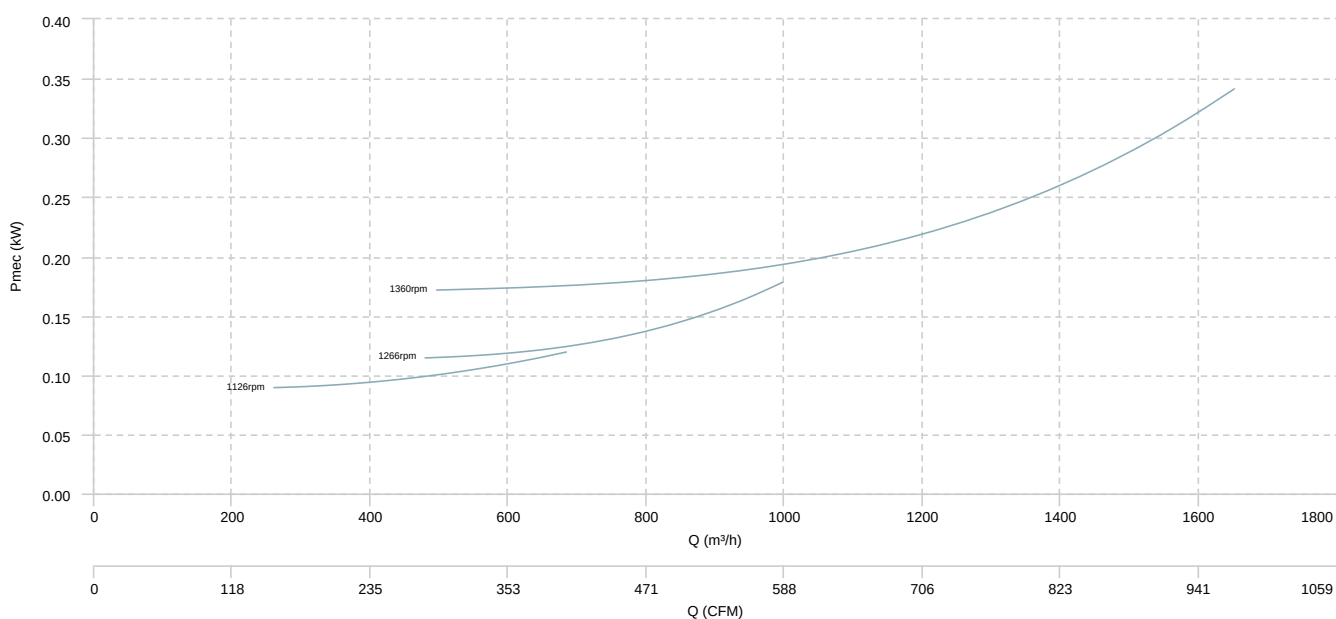
CHARACTERISCTIC CURVE

BOX BD 7/7 M4 0,12kW
3V

AIR FLOW - PRESSURE

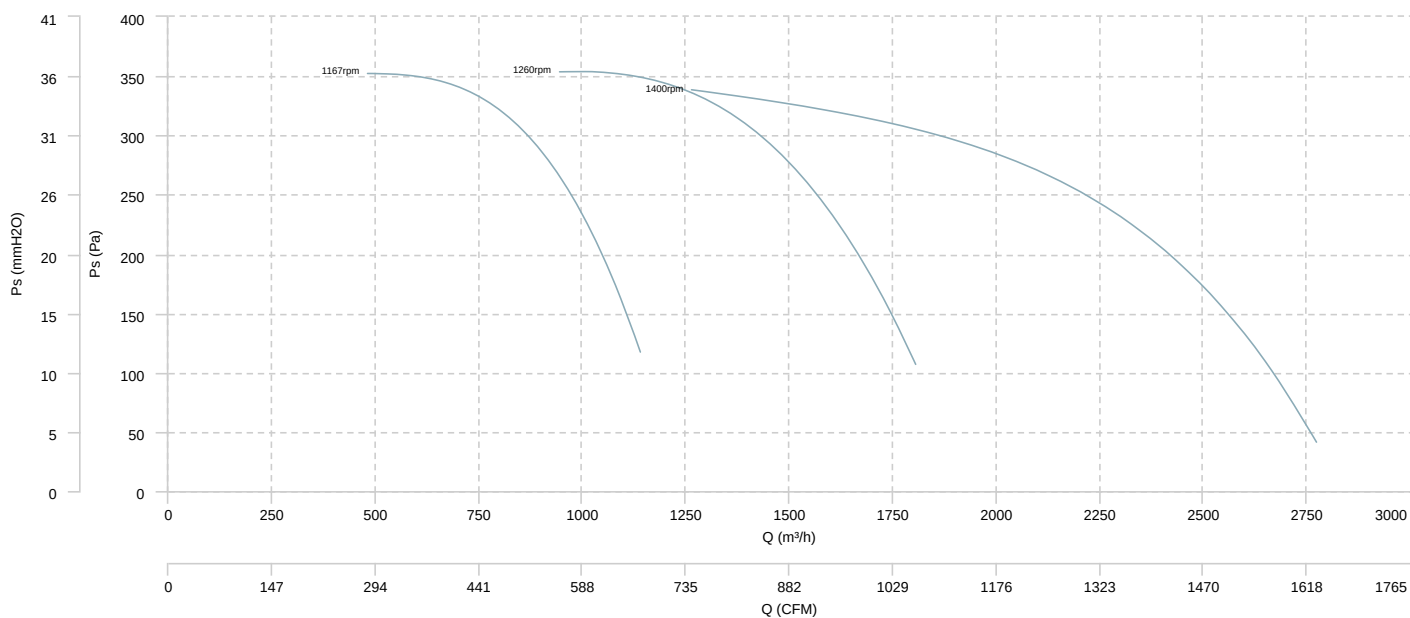


AIR FLOW - MECHANICAL POWER

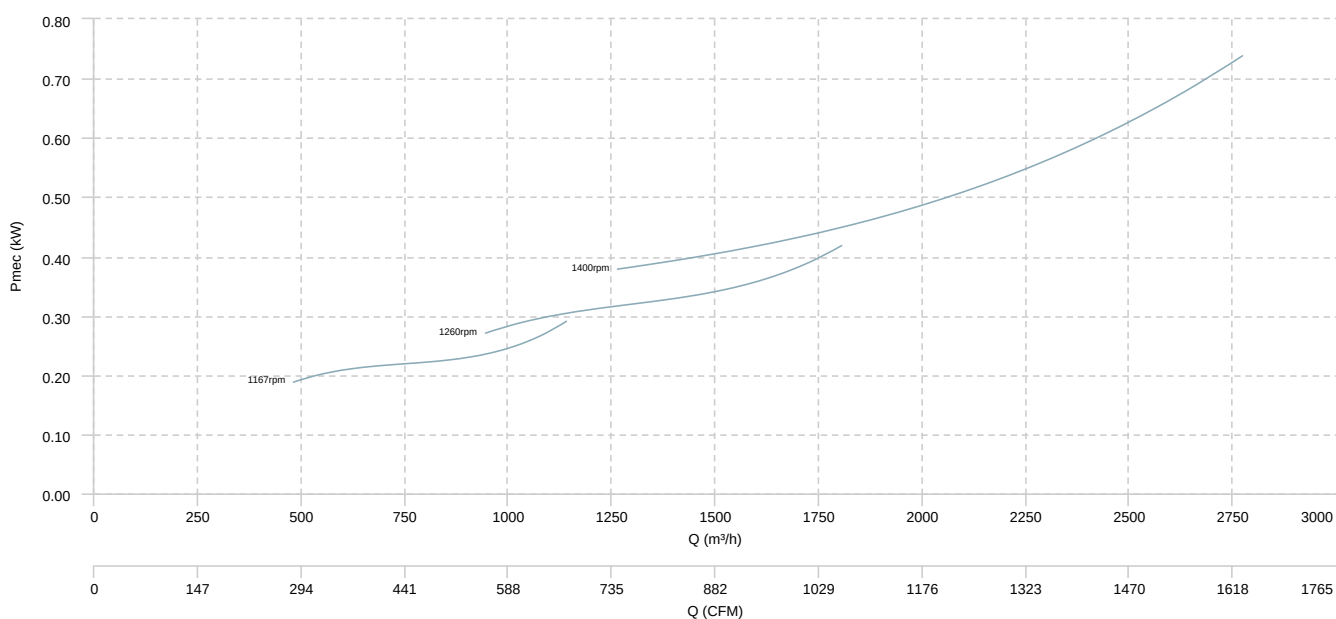


BOX BD 9/9 M4 0,35kW
3V

AIR FLOW - PRESSURE

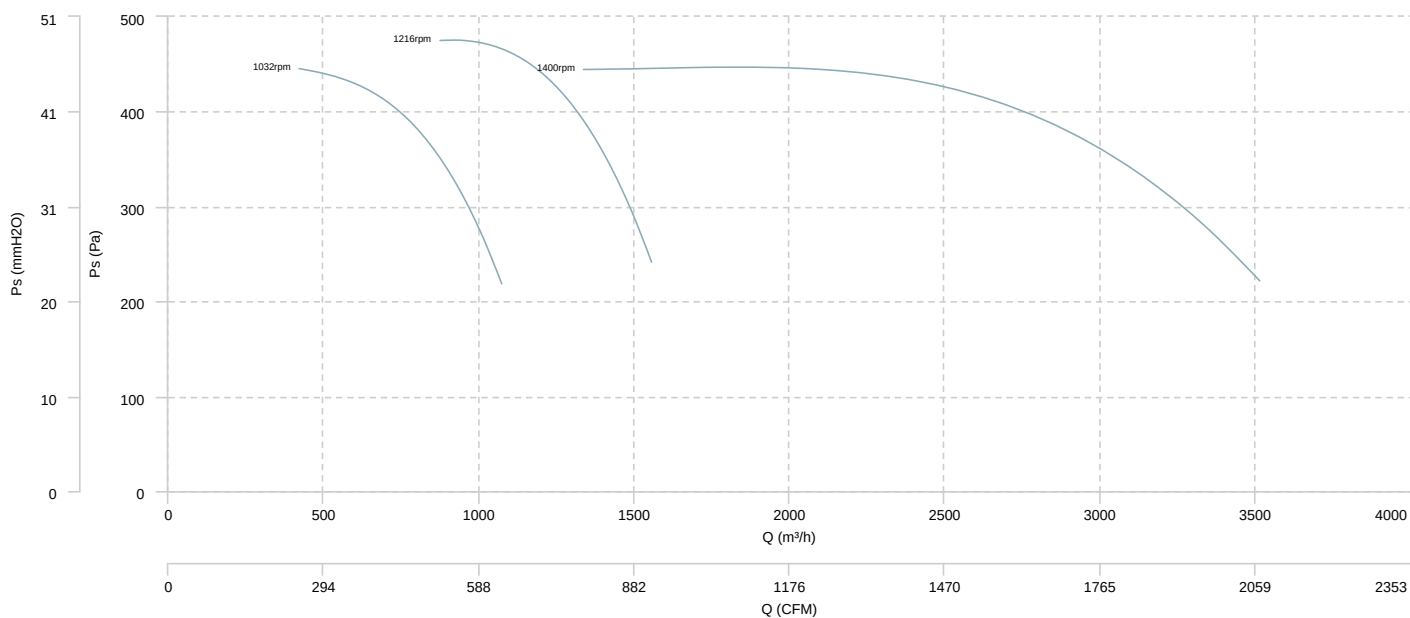


AIR FLOW - MECHANICAL POWER

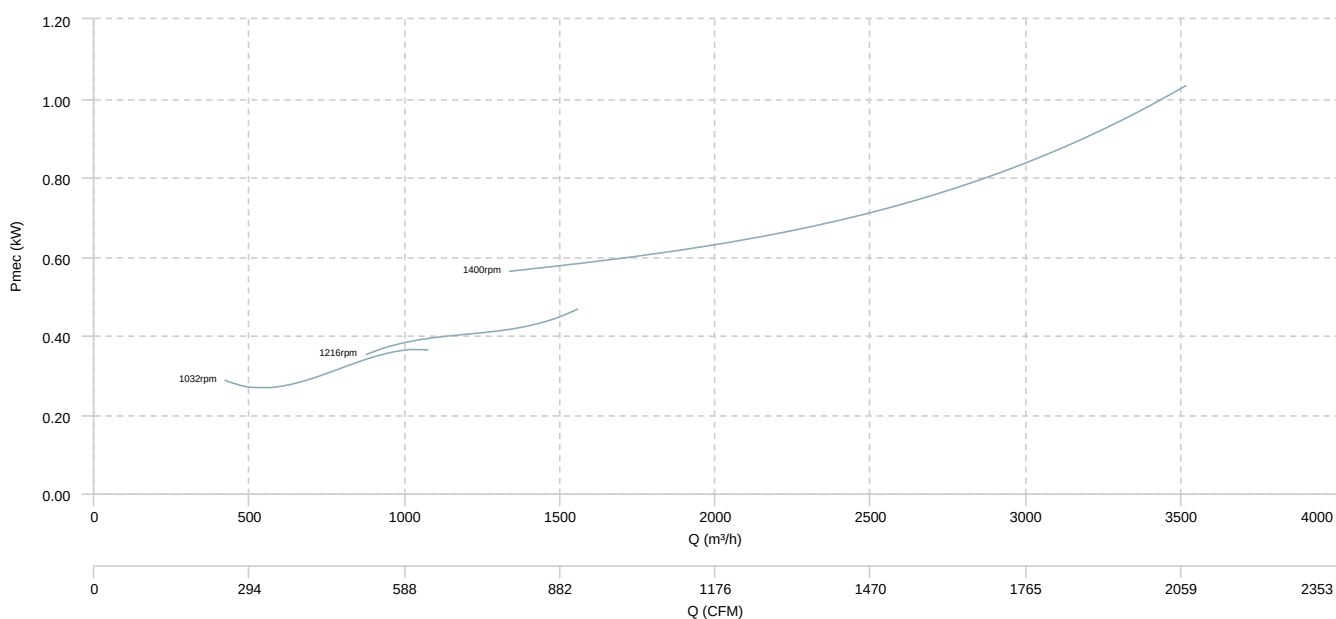


BOX BD 10/10 M4 0,59kW
3V

AIR FLOW - PRESSURE

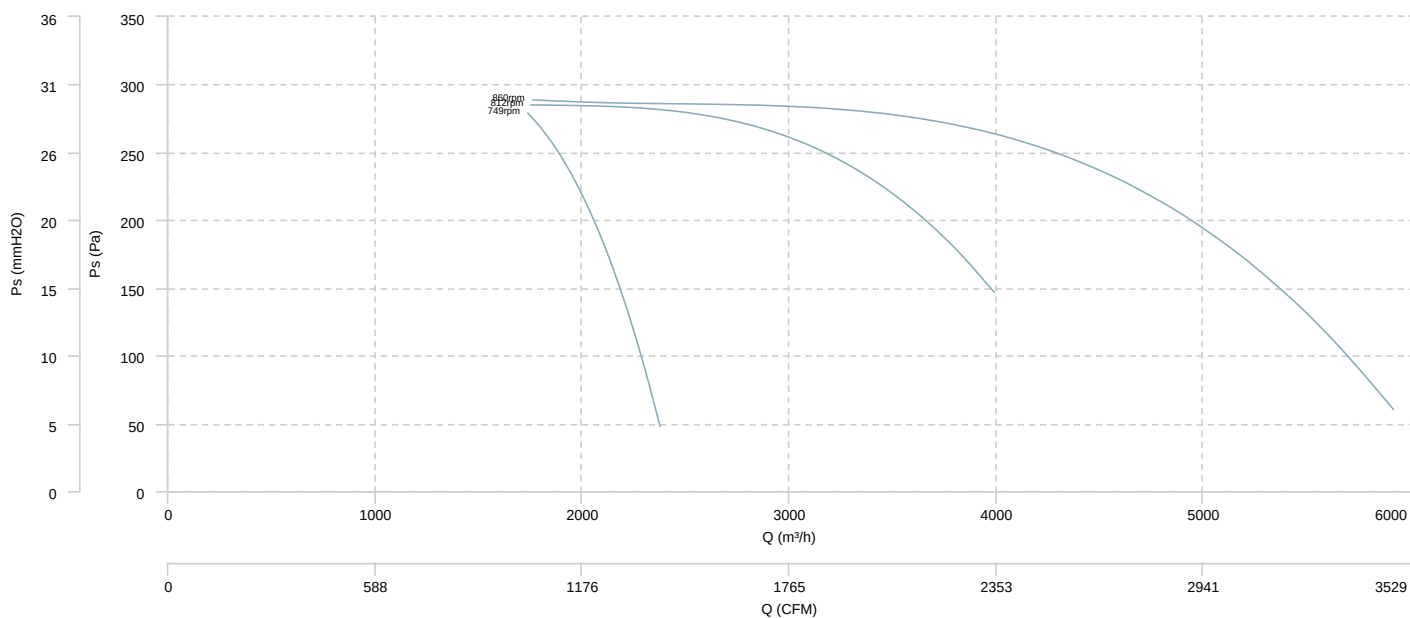


AIR FLOW - MECHANICAL POWER

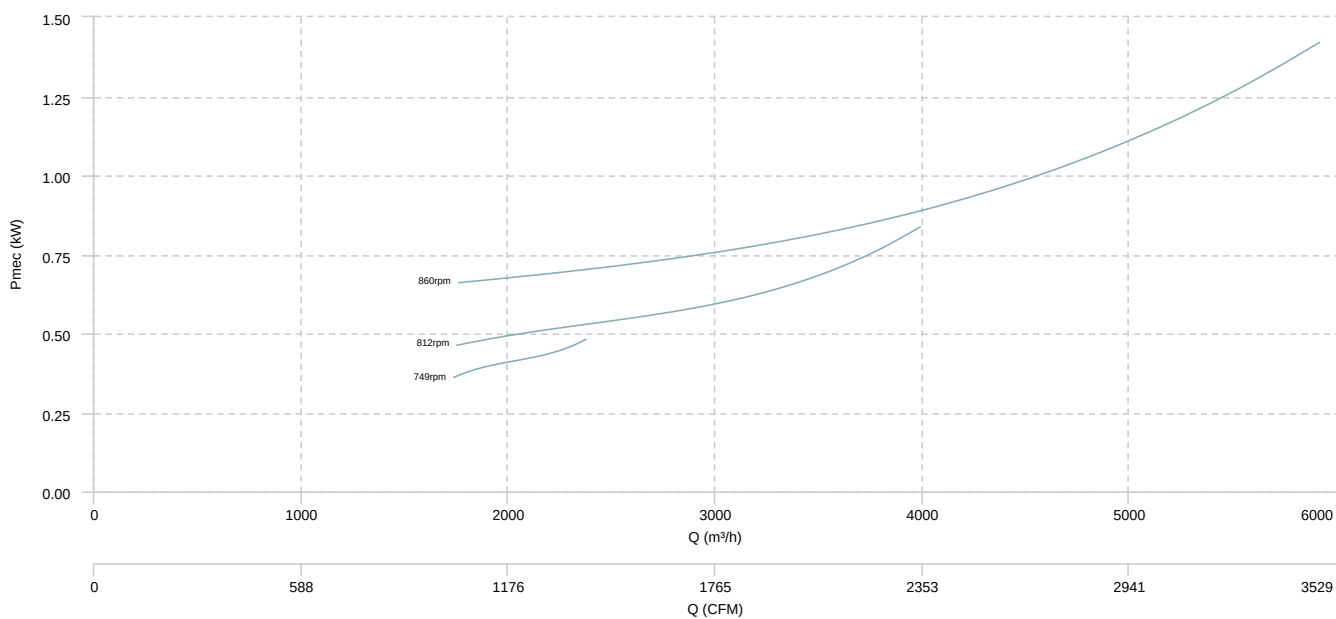


BOX BD 12/12 M6 0,79kW
3V

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
BOX BD 7/7 M4 0,12kW 3V (1126rpm)	Inlet	45	47	56	58	62	61	57	47	66
BOX BD 9/9 M4 0,35kW 3V (1167rpm)	Inlet	46	48	56	58	62	61	57	48	67
BOX BD 10/10 M4 0,59kW 3V (1032rpm)	Inlet	50	52	61	63	66	66	62	52	71
BOX BD 12/12 M6 0,79kW 3V (749rpm)	Inlet	55	57	65	67	71	70	66	57	76

Notes:

* To calculate the sound power level at different rpm from those indicated above, use the following formula:

$$Lw \text{ dB(A)}_{rpmA} = Lw \text{ dB(A)}_{rpmB} + 52.5 \cdot \log_{10} \frac{rpmA}{rpmB}$$