

BOX BD FILTER 3V



CENTRIFUGAL IN SOUNDPROOF CABINET WITH FILTER AND 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
- Box with particle filter ISO Coarse $\geq$ 60% (G4) integrated. Removable filter holder frame from both sides of the box for maintenance. Washable and replaceable filter media. Optimized air intake to maximize performance.

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:

- Impellers made of galvanised steel sheet.

Accessories



BAC



CFF



INT 3V



PI



TCA



TIAC



VIS

Technical data

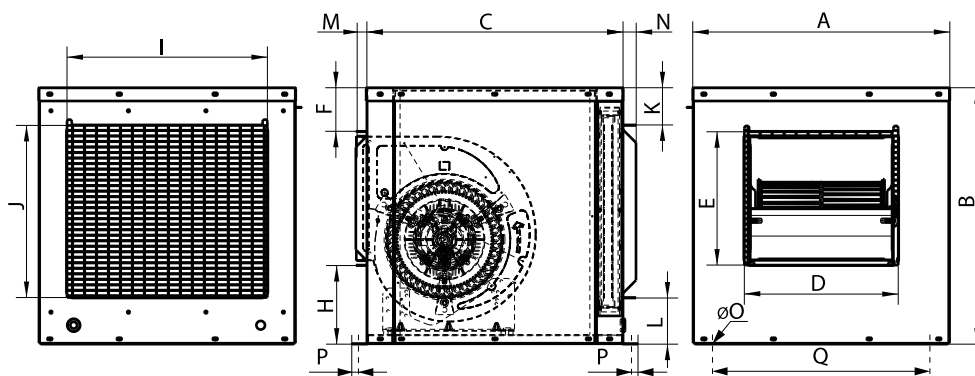
3 speed motor

Code	Model	R.P.M.	Rated I. A 230V	Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weight kg	Connect. diagram
251100550 F001	BOX BD FILTER 7/7 M4 0, 12kW 3V	1126 / 1266 / 1360	L1=1,5 L2=0,9 L3=0,6	0,12	1.440	49	24	1
251220550 F001	BOX BD FILTER 9/9 M4 0, 35kW 3V	1167 / 1260 / 1400	L1=3,2 L2=2,4 L3=1,6	0,35	2.570	49	33	1
251320550 F001	BOX BD FILTER 10/10 M4 0,59kW 3V	1032 / 1216 / 1400	L1=4,96 L2=2,9 L3=2	0,59	3.515	53	42	1
251520550 F001	BOX BD FILTER 12/12 M6 0,79kW 3V	749 / 812 / 860	L1=6,5 L2=4,1 L3=3	0,79	4.820	58	54	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

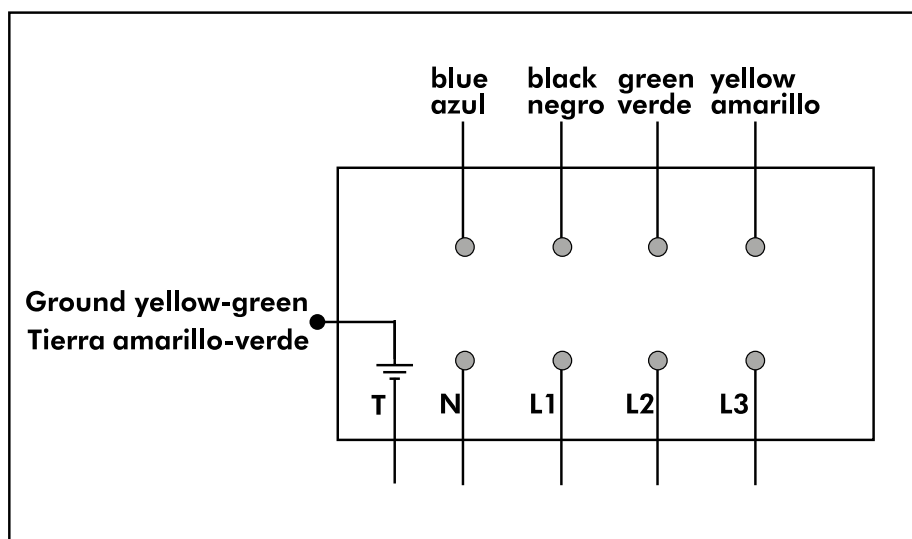


Model	A	B	C	D	E	F	H	I	J
BOX BD FILTER 7/7 M4 0,12kW 3V	450	450	450	242	216	81	151	352	309
BOX BD FILTER 9/9 M4 0,35kW 3V	535	535	535	311	268	96	169	418	359
BOX BD FILTER 10/10 M4 0,59kW 3V	580	580	580	342	299	84	195	489	421
BOX BD FILTER 12/12 M6 0,79kW 3V	650	650	650	408	349	83	216	576	495

Model	K	L	M	N	O	P	Q
BOX BD FILTER 7/7 M4 0,12kW 3V	60	78.5	23	27	10	17	393,5
BOX BD FILTER 9/9 M4 0,35kW 3V	77	96	23	27	10	17	478,5
BOX BD FILTER 10/10 M4 0,59kW 3V	69	88	23	27	10	17	522,4
BOX BD FILTER 12/12 M6 0,79kW 3V	65	83	23	27	10	17	592,4

Wiring diagram

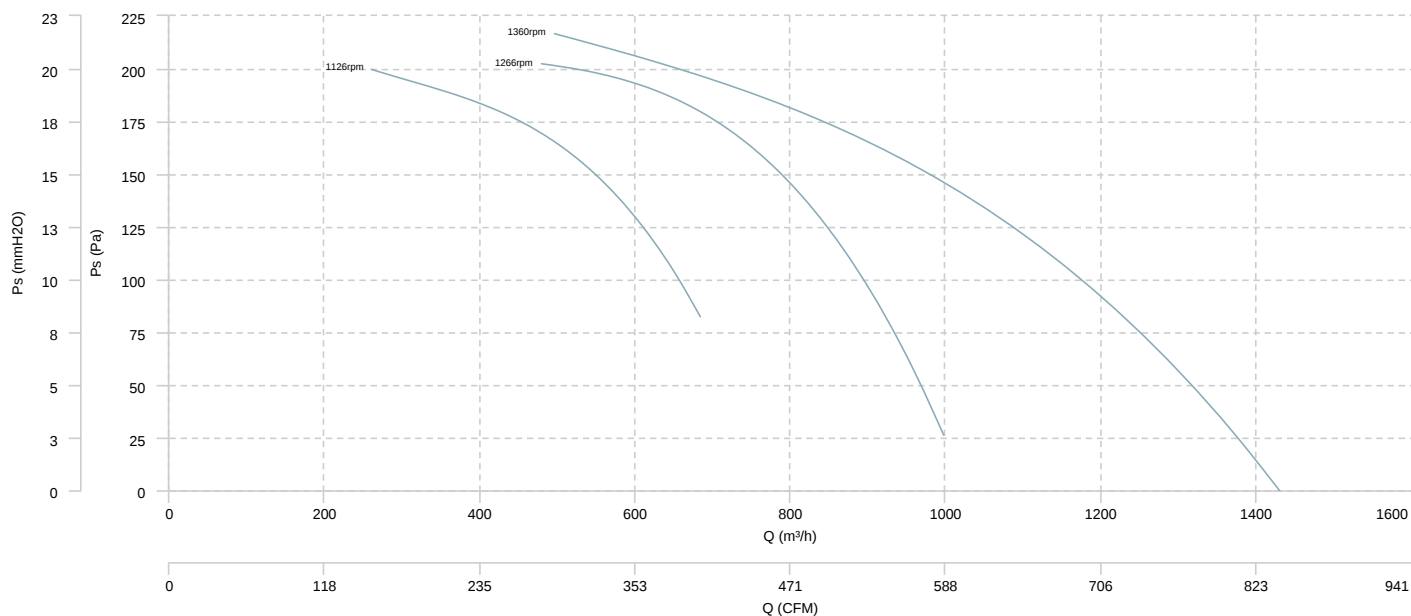
Wiring diagram Nº 1



CHARACTERISCTIC CURVE

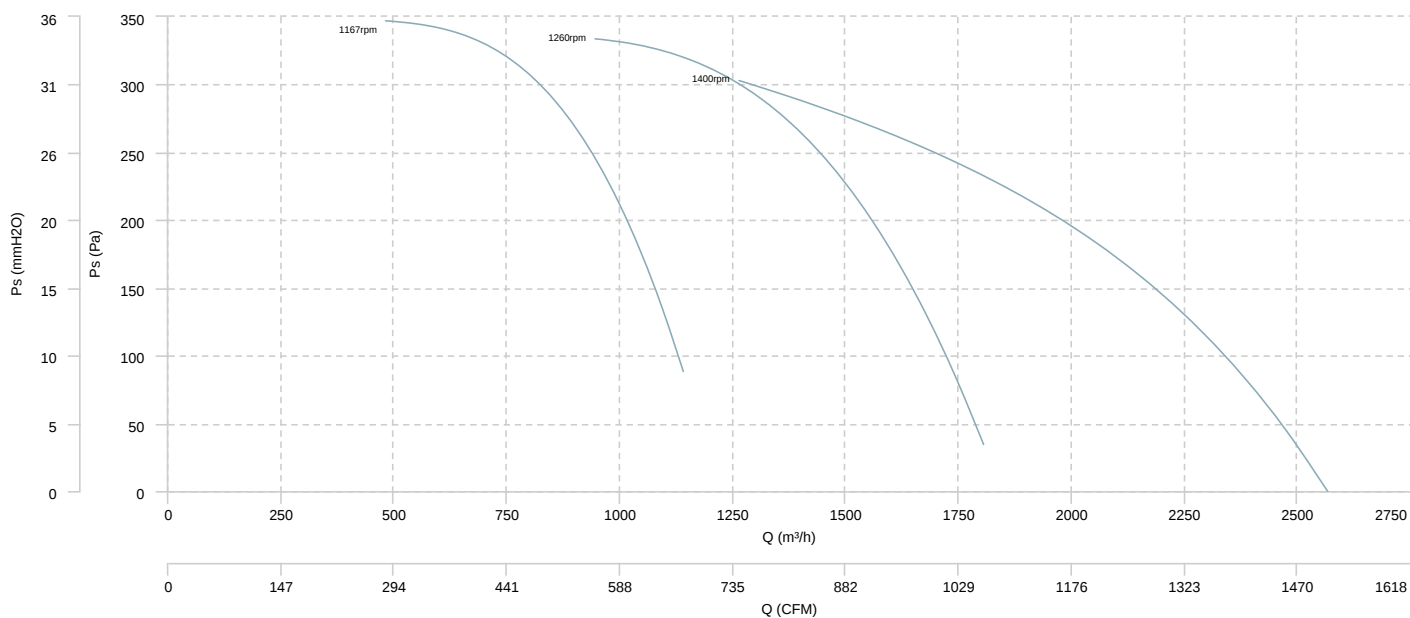
BOX BD FILTER 7/7 M4 0,
12kW 3V

AIR FLOW - PRESSURE



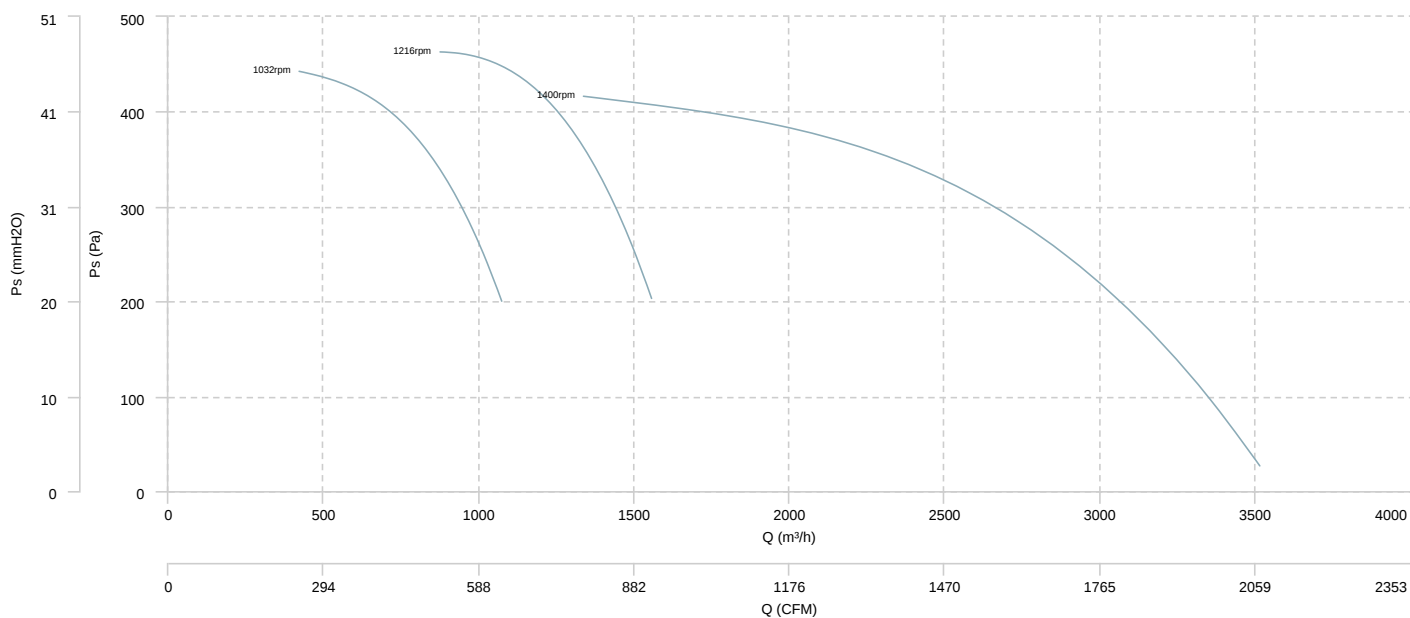
BOX BD FILTER 9/9 M4 0,
35kW 3V

AIR FLOW - PRESSURE



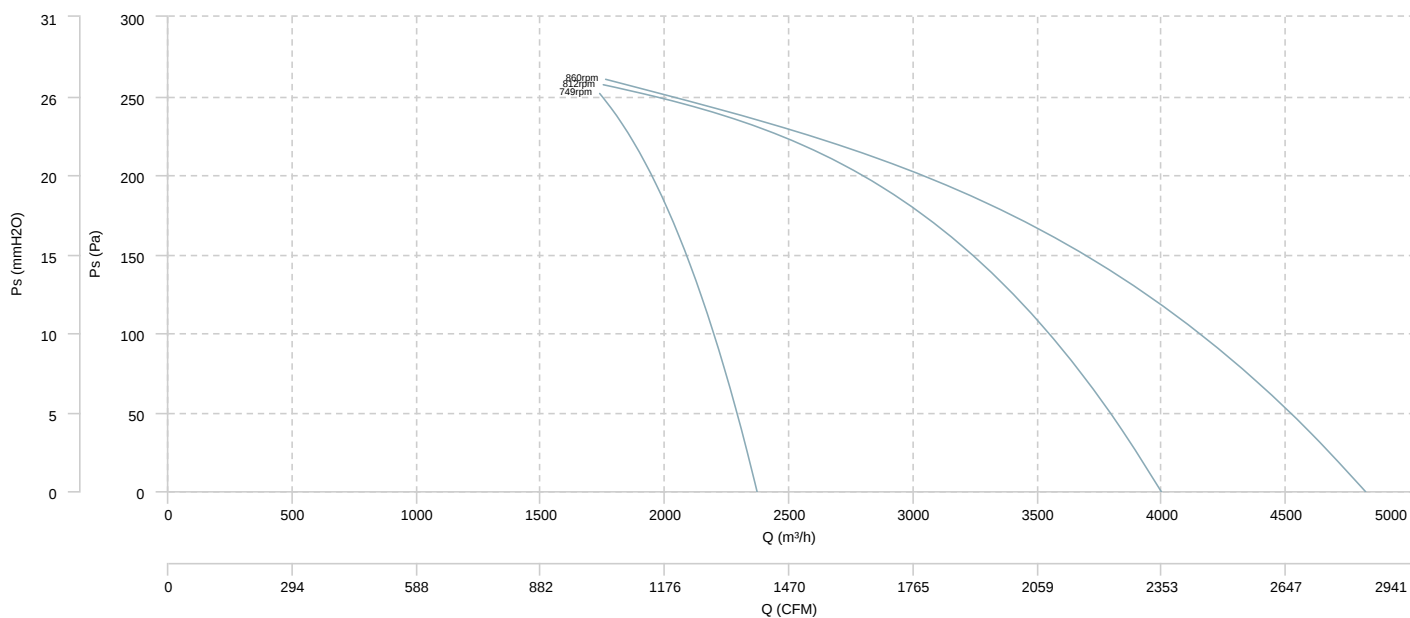
BOX BD FILTER 10/10 M4
0,59kW 3V

AIR FLOW - PRESSURE



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

AIR FLOW - PRESSURE



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 FILTER 7/7 M4 0,12kW 3V (1126rpm)	Inlet	44	46	55	57	61	60	56	46	65
BOX BD FILTER 9/9 M4 0,35kW 3V (1167rpm)	Inlet	45	47	55	57	61	60	56	47	66
BOX BD FILTER 10/10 M4 0,59kW 3V (1032rpm)	Inlet	49	51	60	62	65	65	61	51	70
BOX BD FILTER 12/12 M6 0,79kW 3V (749rpm)	Inlet	54	56	64	66	70	69	65	56	75

Notes:

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

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