

# BOX BV 18/18 4kW 950

## GENERAL DATA



BOX BV 7/7-18/18

BOX BV 20/20-30/28



BELT DRIVEN CENTRIFUGAL IN SOUNDPROOF CABINET

MANUFACTURING FEATURES:

- Impellers made of polyamide reinforced with fiberglass up to size 12/12 (33/33). The rest of models are made of galvanized steel sheet.
- BV, BVC, BVCR range fans assemblies in soundproof cabinets with thermo-acoustic insulation, Bs1d0 fire class.
- Fan assembled on antivibration mountings.
- Supplied with motor, pulleys and belts.
- Connection gland included.
- Squirrel cage asynchronous standard motor, IP-55 protection and rated class F insulation. Standard voltages 230/400V 50Hz for three phase motors up to 4kW and 400/690V 50Hz for higher powers.

APPLICATIONS:

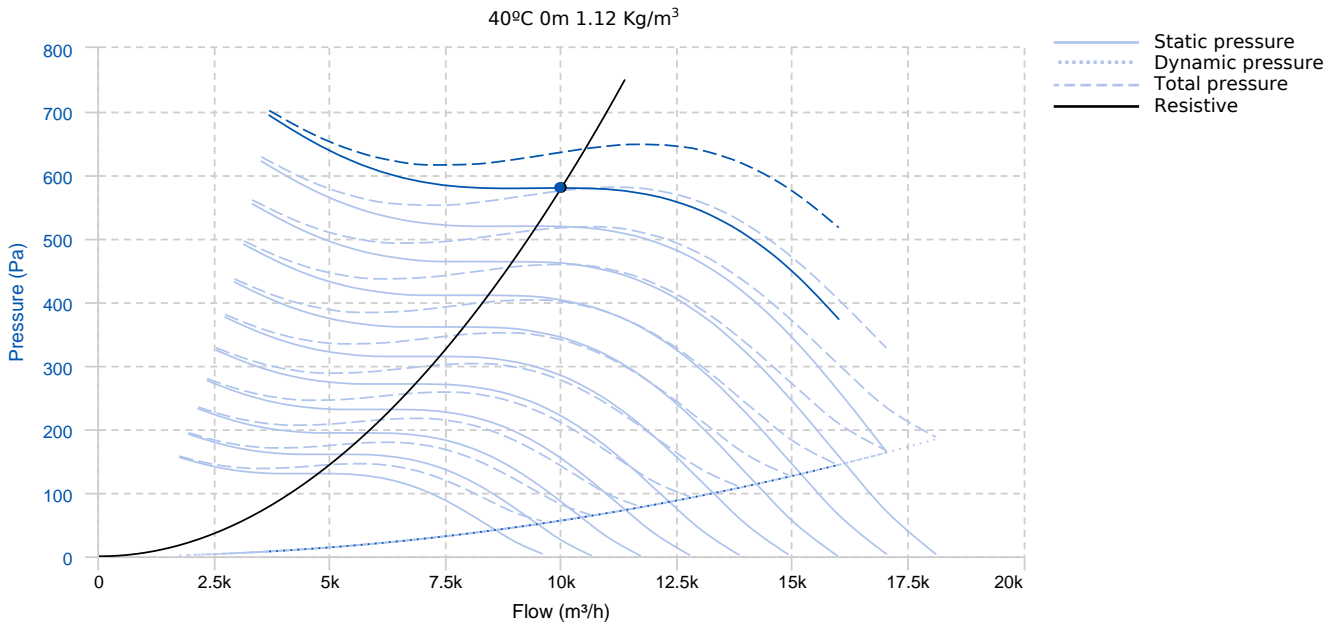
Designed for inline installation, indoor or outdoor assembly, they are suitable for:

- Air renewal in buildings and industries.
- Industrial and professional kitchen hoods.
- Maximum working temperature: 60°C.

UNDER REQUEST:

- Special voltages.
- 2 SPEED MOTORS.
- Impellers made of galvanised steel sheet.
- LG0 position.

## PERFORMANCE CURVE



### Design point

Flow (m <sup>3</sup> /h)	10000	Pressure (Pa)	580
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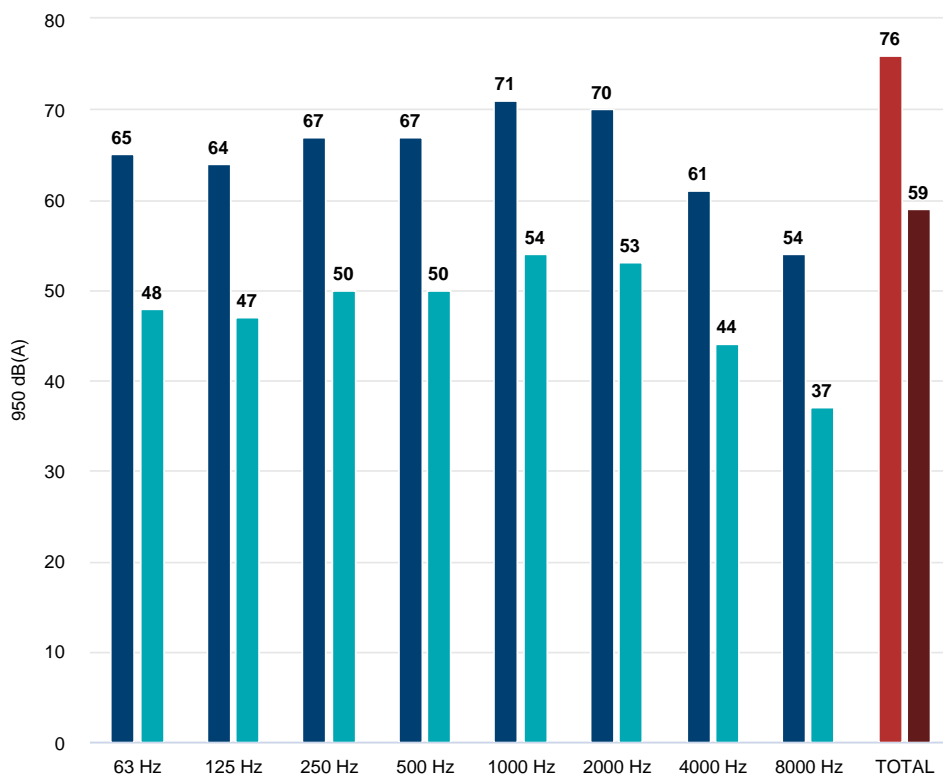
## Service point

Speed	950	T.max (°C)	60	Q (m³/h)	9998.1	Ps (Pa)	579.78
Pd (Pa)	60.08	Pt (Pa)	639.86	Speed (m/s)	10.34	Security coefficient	1.37
Fan total efficiency	58.59	Mechanical total efficiency	65.83	Pabs (kW) 1. 1233226837061 kg/m³	3.06	Pw.mec (kW) 1. 12 kg/m³	2.72
Pw.mec (kW) 1.2 kg/m³	2.91	Precom (kW)	4	SFP (W/l/s) 1. 1233226837061 kg/m³	1.1		

## TECHNICAL DATA

Fan							
RPM	950	Approx. weight	145.8 kg	Max. Flow	18100 m³/h		
Motor							
Power	4 kW	RPM	1440	I max. (230V)	14,5 A	I max. (400V)	8,32 A
Size	112M	Approx. weight	35.8 kg	Efficiency (%)	86.6 %	FP	0.8

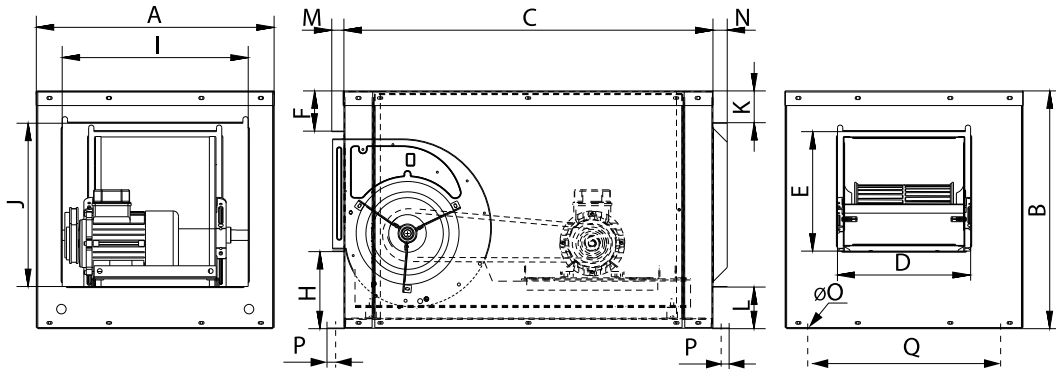
## ACOUSTIC DATA (INLET)



Sound power	
63 Hz	65
125 Hz	64
250 Hz	67
500 Hz	67
1000 Hz	71
2000 Hz	70
4000 Hz	61
8000 Hz	54
TOTAL	76

Sound pressure 3m Q=2	
63 Hz	48
125 Hz	47
250 Hz	50
500 Hz	50
1000 Hz	54
2000 Hz	53
4000 Hz	44
8000 Hz	37
TOTAL	59

## DIMENSIONS

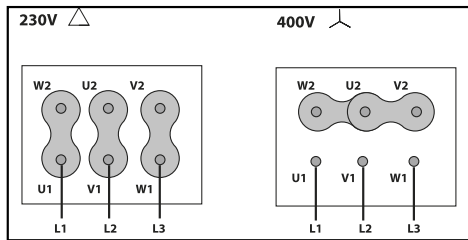


### Dimensions (mm)

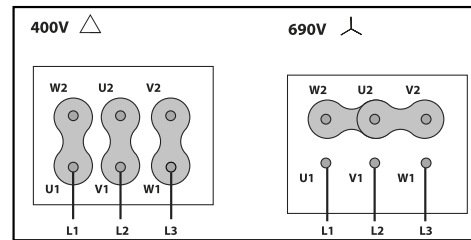
A	870	B	885	C	1168	D	566	E	490
F	104	H	290	I	750	J	750	K	57
L	76	M	23	N	27	O	12	P	17
Q	810,4								

## WIRING DIAGRAM

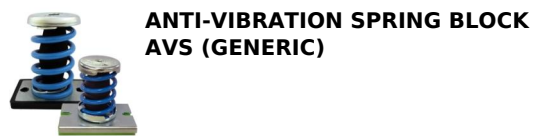
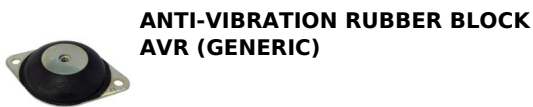
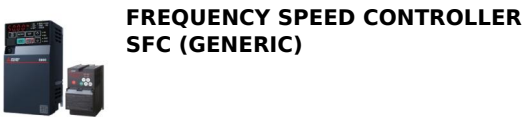
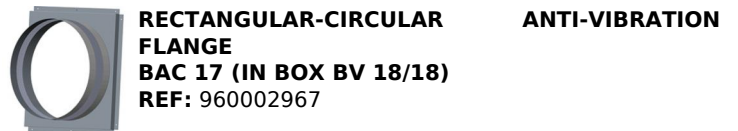
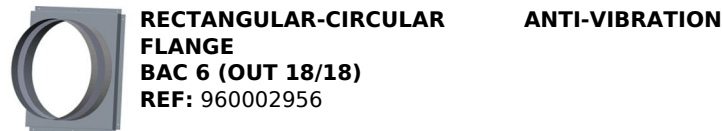
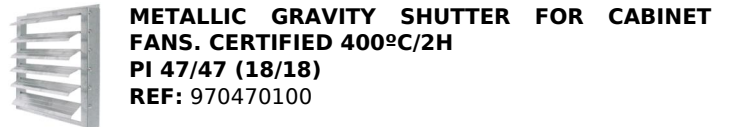
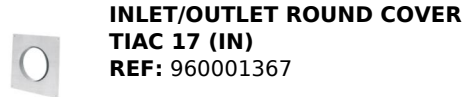
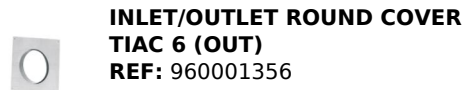
### 230/400V



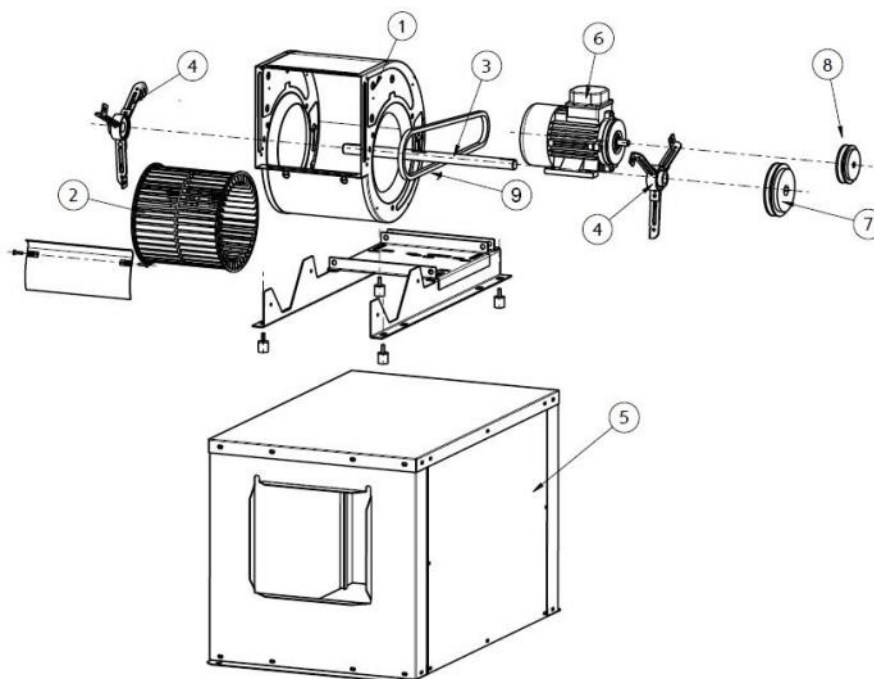
### 400/690V



## ACCESSORIES



## SPARE PARTS



	Code	Model	Qty
1	R-252459421	CASING BV 18/18	x1
2	R-252459381	TURBINE BV 18/18 D.25	x1
3	252452111	SHAFT BV-BVC18 BVCR15	x1
4	252459217	BEARING SUPPORT+BEARING BV 18/18	x2