

# BOX BSTB 355 F400 0,75kW 1700rpm (244350112R170)

## GENERAL DATA



### BELT DRIVEN BACKWARD CENTRIFUGAL IN SOUNDPROOF CABINET 400°C/2H

#### MANUFACTURING FEATURES:

- BSTB range fans assembled in soundproof cabinets with insulated panels.
- Fan assembled on antivibration mountings.
- Simple inlet, backward impeller with self-cleaning system.
- Supplied with motor, pulleys and belts.
- Gland connection included.
- Standard asynchronous squirrel-cage motor with IP-55 protection and Class F insulation. Manufactured with standard voltages: 230/400V 50Hz in 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:

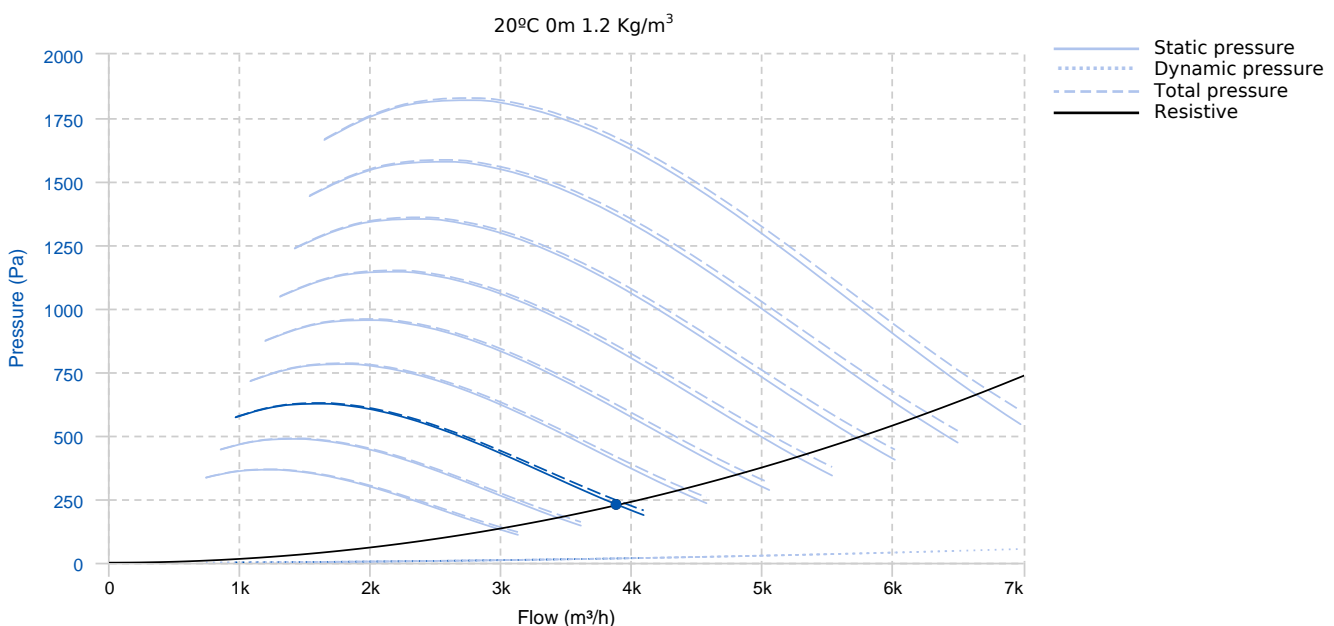
- Air renewal in buildings and industries.
- Smoke emergency exhaust with motor outside the hazardous area (400°C/2h certified).
- Industrial and professional kitchen hoods.
- Maximum working temperature: carried air 130°C; environment 60°C.

#### UNDER REQUEST:

- Special voltages.
- 2 speed motors.
- Orientation:
  - LG90 (horizontal).
  - LG0 (vertical outlet).

Official homologation by the European laboratory APPLUS according to EN 12101-3:2015 Certification Nr: 0370-CPR-1371

## PERFORMANCE CURVE



## Design point

Flow (m³/h)	3884.74	Pressure (Pa)	226.58
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## Service point

Speed	1700rpm	T.max (°C)	130	Q (m³/h)	3890.21	Ps (Pa)	227.22
Pd (Pa)	16.71	Pt (Pa)	243.93	Speed (m/s)	5.28	Security coefficient	1.26
Fan total efficiency	37.03	Mechanical total efficiency	44.95	Pabs (kW) 1.2 kg/m³	0.72	Pw.mec (kW)	0.59
Precom (kW)	0.75	SFP (W/l/s) 1.2 kg/m³	0.67				

## TECHNICAL DATA

### Fan

RPM	1700	Approx. weight	118 kg	Max. Flow	6980 m³/h
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### Motor

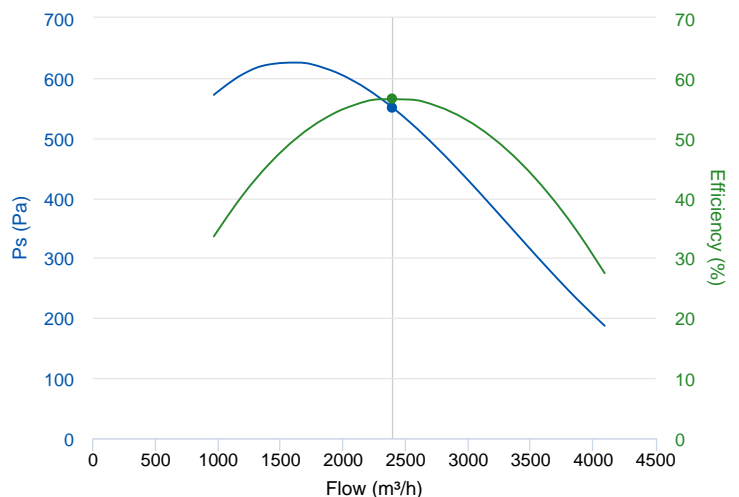
Power	0,75 kW	RPM	1410	I max. (230V)	2,83 A	I max. (400V)	1,63 A
Size	80	Approx. weight	15 kg	Efficiency (%)	82.5 %	FP	0.81

## ERP DATA

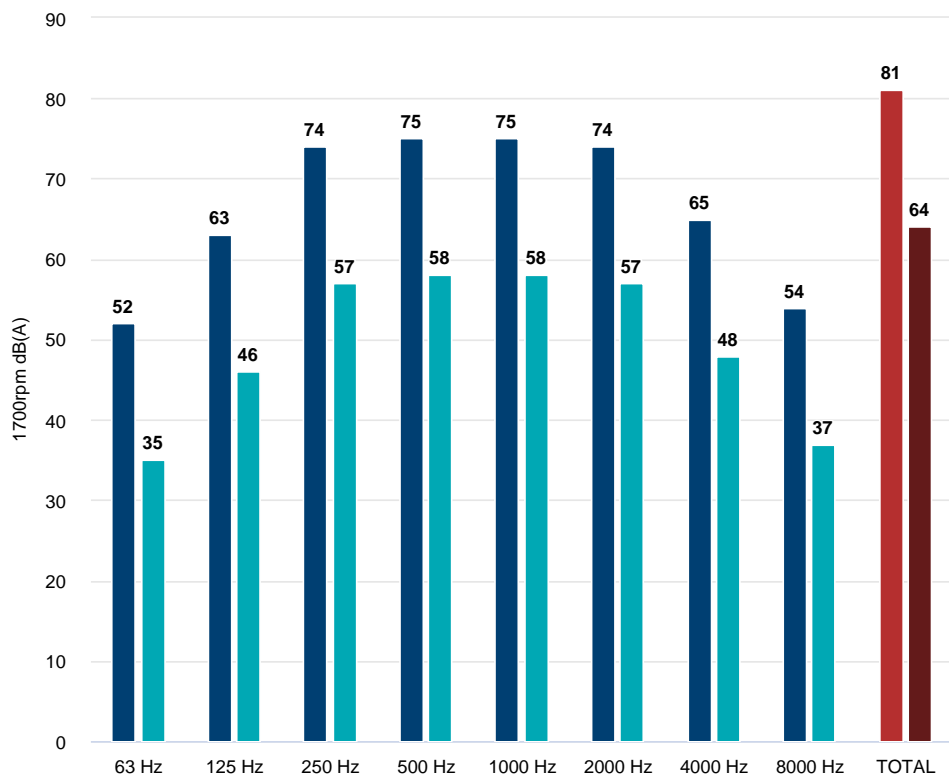
### Fan data sheet

Fan type	Centrifugal fan backward blades with casing	
Installation category	A: Outlet and Inlet free discharge	
Efficiency category	Static	
The fan has to be installed with VF	No	
Motor power (kW)	0.75	

	Fan values	ERP Requirements 2015
Max. efficiency (%)	56.55	45.43
Efficiency grade (N)	69.07	57.95
Pabs (kW)	0.642	
Flow (m³/h)	2396.74	
Static pressure (Pa)	550.14	
Speed (m/s)	1700rpm	
Specific ratio	1.00	



## ACOUSTIC DATA (INLET)



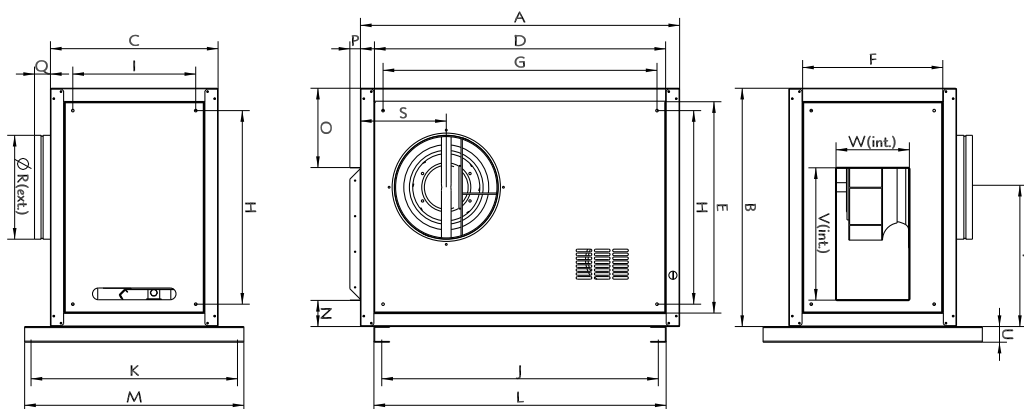
### Sound power

63 Hz	52
125 Hz	63
250 Hz	74
500 Hz	75
1000 Hz	75
2000 Hz	74
4000 Hz	65
8000 Hz	54
TOTAL	81

### Sound pressure 3m Q=2

63 Hz	35
125 Hz	46
250 Hz	57
500 Hz	58
1000 Hz	58
2000 Hz	57
4000 Hz	48
8000 Hz	37
TOTAL	64

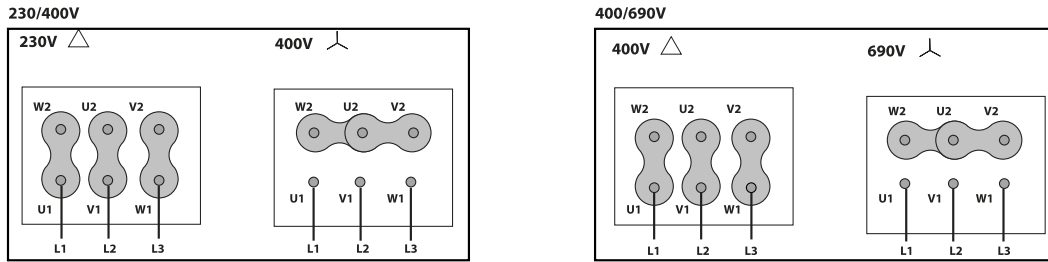
## DIMENSIONS



### Dimensions (mm)

A	1068	B	824	C	612	D	960,5	E	721
F	506	G	894,5	H	652,5	I	440	J	904,5
K	760	L	964,5	M	809	N	101	O	268
P	40,5	Q	60	S	307	T	485,7	U	60
V	453	W	253	ØR	353				

## WIRING DIAGRAM



## ACCESSORIES



**ANTI-VIBRATING FLANGE 400°/2H**  
**BA-400 35**  
**REF: 960002053**



**ANTI-VIBRATION JOINT**  
**JE 45**  
**REF: 300719201**



**SAFETY SWITCH**  
**INT (GENERIC)**



**SAFETY SWITCH FOR 400°C/2h**  
**INT F400 (GENERIC)**



**ANTI-VIBRATION RUBBER BLOCK**  
**AVR (GENERIC)**



**ANTI-VIBRATION SPRING BLOCK**  
**AVS (GENERIC)**