

HBF 45 T4 (A5:6) F400 0,75kW 25°

GENERAL DATA



AXIAL FAN 400°C/2h

MANUFACTURING FEATURES

- Axial fan with circular reinforced frame.
- Modular motor-impeller assembly.
- Cast aluminium impeller with variable pitch angle. Polyester powder finishing coat.
- Standard asynchronous squirrel cage motor with IP-55 protection and Class H insulation certified 400°C/2h. Standard voltages 230/400V 50Hz in three phase motors up to 3kW and 400V 50Hz for higher powers and 2 speed motors. IE3 efficiency motor from 0,75kW up to 45kW in single speed

APPLICATIONS

Designed for wall or duct installation, they are suitable for:

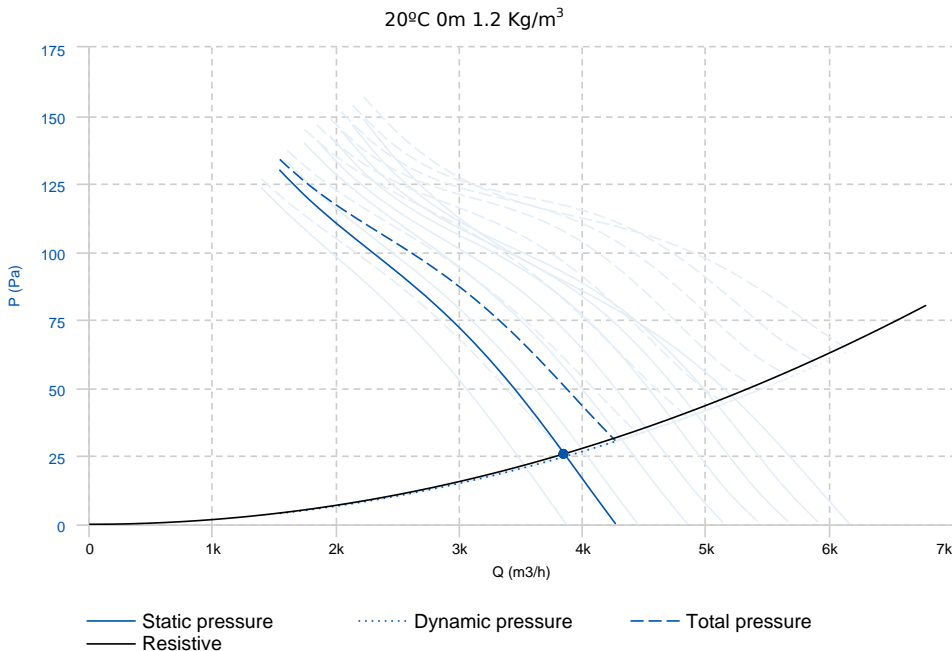
- Smoke emergency exhaust with motor inside the hazardous area.
- Maximum working temperature: 60°C.

UNDER REQUEST

- B Form impeller (air flow from impeller to motor).
- 100% reversible impeller.

Official homologation by the European laboratory APPLUS according to EN 12101-3:2015 Certification Nr: 0370-CPR-0914

PERFORMANCE CURVE



Design point	
Flow (m3/h)	3846.29
Pressure (Pa)	25.87
Service point	
Angle	25
T.max (°C)	60
Q (m3/h)	3846.35
Ps (Pa)	25.87
Pd (Pa)	24.79
Pt (Pa)	50.66
Speed (m/s)	6.43
Security coefficient	5.74
Fan total efficiency	26.271
Efficiency (%)	41.75
Pabs (kW)	0.21
Pwmec (kW)	0.13
Precom (kW)	0.75

TECHNICAL DATA

Fan

RPM	Approx. weight	27.9 kg	Max. Flow	6150 m3/h
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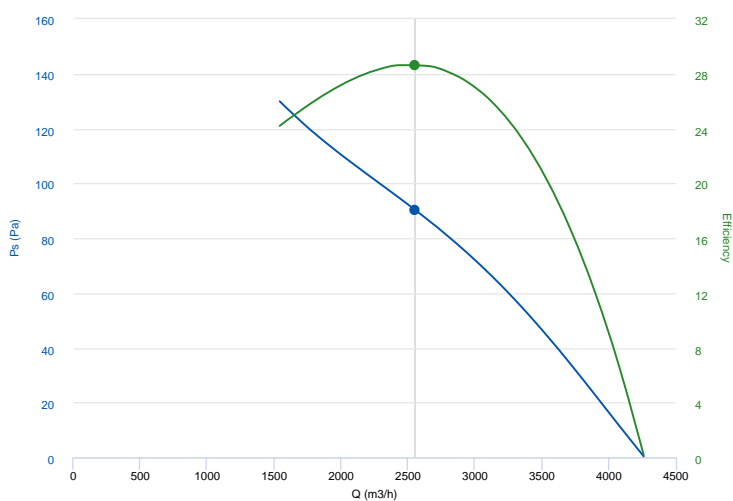
Motor

Power	0,75 kW	RPM	1404	I max. (400V)	1,95 A	Size	80
Approx. weight	12.5 kg	Efficiency (%)	80.7 %	FP	0.76		

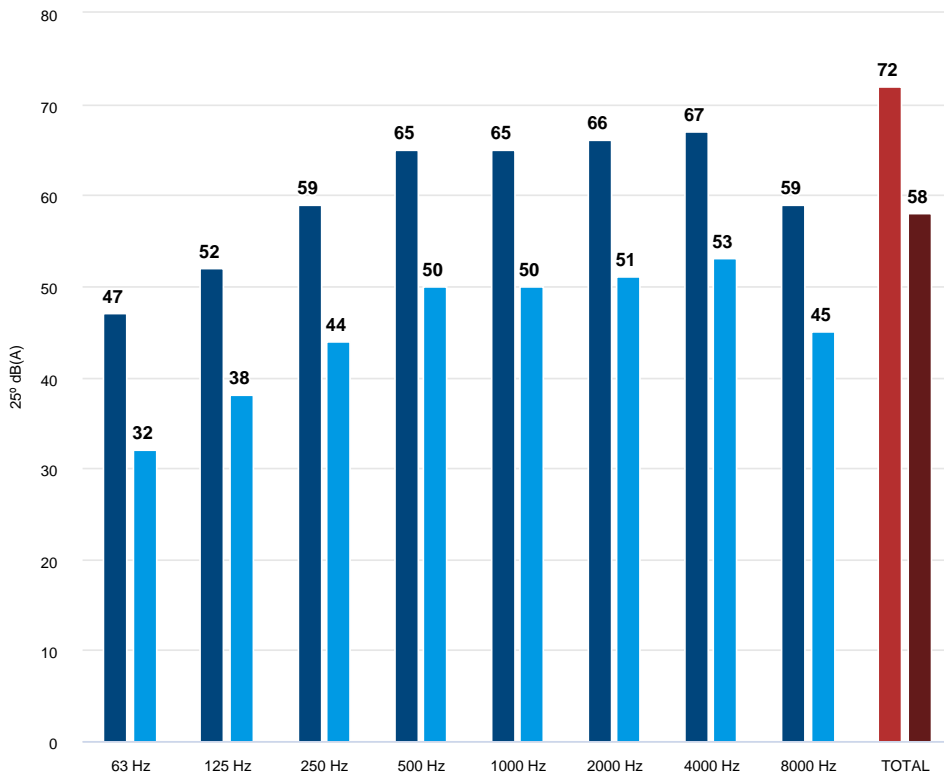
ERP DATA

Fan data sheet

Fan type	Axial fan	
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 (%)	28.65	27.57
Efficiency grade (N)	39.08	38
Pabs (kW)	0.224	
reports.flow (m3/h)	2554.96	
Static pressure (Pa)	90.21	
Speed (m/s)		
Specific ratio	1.00	



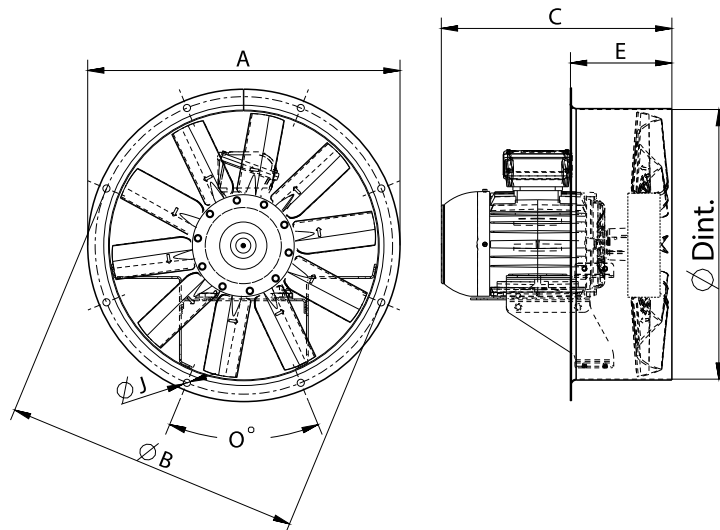
ACOUSTIC DATA



Sound power	
63 Hz	47
125 Hz	52
250 Hz	59
500 Hz	65
1000 Hz	65
2000 Hz	66
4000 Hz	67
8000 Hz	59
TOTAL	72

Sound pressure 1.5m (in)	
63 Hz	32
125 Hz	38
250 Hz	44
500 Hz	50
1000 Hz	50
2000 Hz	51
4000 Hz	53
8000 Hz	45
TOTAL	58

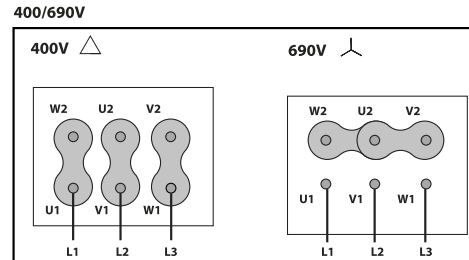
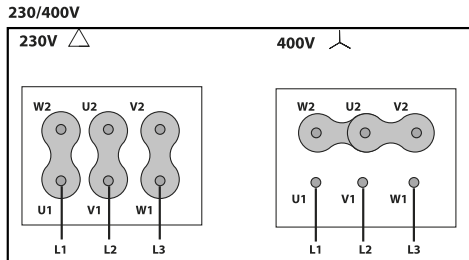
DIMENSIONS



Dimensions (mm)

C (Mot.T.63)	328	C (Mot.T.71)	328	C (Mot.T.80)	347	C (Mot.T.90L)	387	C (Mot.T.90S)	362
C (Mot.T.100L)	418	E	165	O	8X45°	ØA	525	ØB	500
ØD	452	ØJ	12						

WIRING DIAGRAM



ACCESSORIES



Outlet protection guard for axial fans
RP0 450
 REF: 960001202



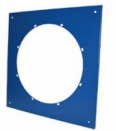
PLASTIC GRAVITY SHUTTER
PCP 45
 REF: 963240105



CONNECTION FLANGE
AC 450
 REF: 960003213



ANTI-VIBRATING FLANGE 400^o/2H
BA-400 45
 REF: 960002055



SQUARE MOUNTING FRAME FOR HB FANS
MC HB 45
 REF: 960003154



ANTI-VIBRATION JOINT
JE 45
 REF: 300719201



ALUMINIUM GRAVITY SHUTTER
PC2 50
 REF: PC25050



CIRCULAR-CIRCULAR ANTI-VIBRATION FLANGE
BAD 12
 REF: 960003462



FREQUENCY SPEED CONTROLLER
SFC (GENERIC)



SAFETY SWITCH
INT (GENERIC)



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



**INLET PROTECTION GUARD FOR AXIAL FANS
RP1 (GENERIC)**