

ROOF-HM 1006 T



APPLICATIONS

The vertical discharge roof fan line ROOF-HM are destined to the plants requiring the evacuation of fire smokes, in environments like: industries, underground car parks, shopping malls, hospitals, schools, theatres, museums, etc.

This series is designed and manufactured according to the European directive EN 12101-3 certified by an Autonomous Qualified Certification Institute.

ROOF-HM fans are suitable to convey clean air and not dusty smokes up to the maximum temperature of 120° C in continuous service, with peaks at 180°C, and in case of fire emergency at the temperature of 400°C for 120 minutes (F400).

For installation outside the fire compartment.

RANGE

This line consists of 12 models with 5 sizes with impeller diameter from 630 up to 1000 mm.

ADVANTAGES

The roof fans of this series are characterized by a higher efficiency and better aeraulic performances than the others commonly present in the market. The backward curved welded impeller and the thermo-isolated motor with external ventilation allow the real operation in continuous service up to 120°C with peaks at 180°C. They can get very high performances, up to 55.000 mc/h and 2000 Pa.

CONSTRUCTION

- External conveyor and support plate with inlet cone galvanized in steel sheet.
- Backward curved blade impeller in steel sheet designed to guarantee the maximum efficiency and low noise level. Balanced according to UNI EN-ISO 21940-11 degree G 6.3.
- Directly coupled motor, outside the airflow, cooled by the external air.
- Asynchronous three-phase motor, protection IP 55, insulation class F suitable for S1 service, mounting type B5, according to IEC/EEC (UNEL MEC).
- External terminal box for easy wiring.

TECHNICAL SPECIFICATIONS:

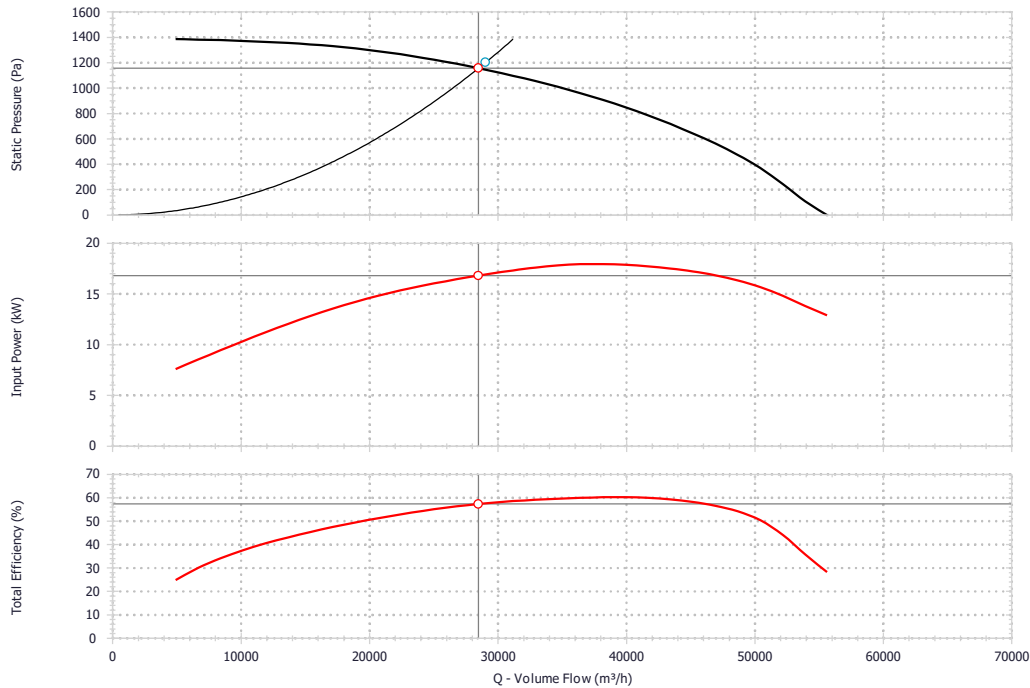
- Conveyed air : max 120°C in S1 service. F400 max 400°C in S2 service (fire emergency).
- Voltage and frequency : Three-phase version (T) 400V-50 Hz

ON REQUEST

- Version with double polarity motor.

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FAN PERFORMANCE



Requested Point	
Q	29 000 m ³ /h
Ps	1 200 Pa
Selected Point	
Q	28 476 m ³ /h
Ps	1 157 Pa
Pd	62 Pa
Pt	1 219 Pa
Fan Speed	980 rpm
Conditions	15 °C @ 0 m 1,22 kg/m ³
Temperature	-
Outlet Velocity	10,07 m/s
SFP	2,13 W/l/s
Input Power	16,8 kW

PERFORMANCE MODELS ARE PREPARED WITH GREAT CARE AND THE DATA ARE CHECKED FOR CORRECTNESS. HOWEVER, NO LIABILITY CAN BE ASSUMED FOR ANY INCORRECT OR INCOMPLETE DATA.

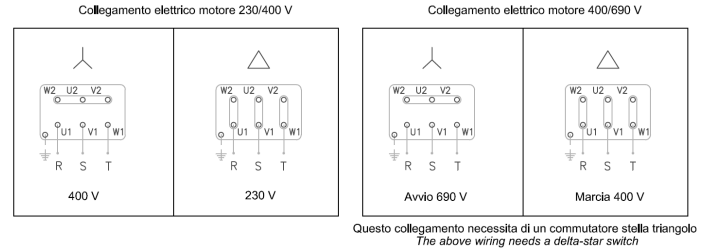
TECHNICAL INFORMATION

Product Code	CTBD	Impeller Type	Group-CentRoof
Impeller Name	ROOF-HM 1006	Air Volume	29 000 (28 476) m ³ /h
Static Pressure	1 200 (1 157) Pa	Total Pressure	1 219 Pa
Outlet Velocity	10,07 m/s	Fan Total Efficiency	57,3 %
Fan Static Efficiency	54,4 %	Fan Input Power	16,8 kW
SFP	2,13 W/l/s	Air Density	15 °C @ 0 m 1,22 kg/m ³
Temperature Range	-		
MECHANICAL DATA			
Diameter	1000 mm	Blade Type	-
No Of Blades	-	Gap	-
Rotation Speed	980 rpm	Material	-
Angle	-	Tip Speed	51 m/s
Thrust	-	Resist. Torque	-
Inertia	-		
ERP INFORMATION			
ERP Compliance	NSE		

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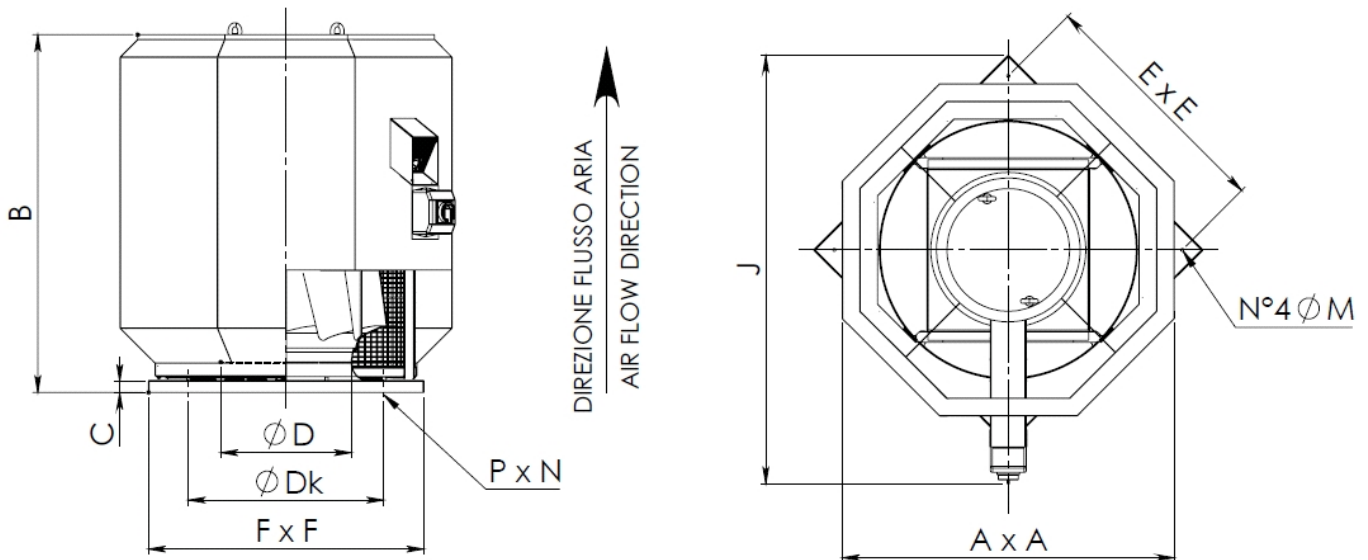
MOTOR INFORMATION

Electrical Supply	400/3/50
Motor Rating	15 kW
Energy Class	-
Full Load Current	27.6 A
Frame Size	180
Motor Poles	6
Motor Speed	980 rpm
Diameter	1000 mm
Blade Type	-
No Of Blades	-
Gap	-
Rotation Speed	980 rpm
Material	-
Angle	-
Tip Speed	51 m/s
Thrust	-
Resist. Torque	-
Inertia	-



DRAWING AND DIMENSIONS

Key	A	B	C	OD	ODK	E	F	J	OM	n° P	ON	Kg
Value	1600	1750	80	660	1070	1250	1330	2100	12	8	M10	620



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AVAILABLE ACCESSORIES

FREE CODE

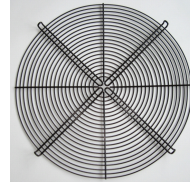
FREE CODE

GS-HM 100 SERRANDA/
INLET GRAVITY SHUTTER

FC-DU-HT 1000 GIUNT
ANTIVIBRANTE/ HT
FLEXIBLE JOINT 1000

FPG-DU 1000 RETE PIANA/
FLAT GRID

SIL-HM 1000
SILENZIATORE/ SILENCER



INTERRUTTORE DI
SERVIZIO / SERVICE
SWITCH