

THT-56-4T-1.5-F-400 IE3

Code: 1139187



400 °C/2h and 300 °C/2h tubular axial extract fans with short casings

Tubular axial extract fans with short casing for immersed operation in fire risk zones.



Fan:

- Tubular casing in sheet steel.
- Variable angle impeller made of cast aluminium.
- Approved in accordance with standard EN 12101-3, with certifications no.: 0370-CPR-0305 (F400) and 0370-CPR-0973 (F300).
- Airflow direction from motor to impeller.

Motor:

- Class H motors for S1 continuous operation and S2 emergency use. With ball bearings, IP55 protection and 1 or 2 speeds, depending on model.
- Motors with IE3 efficiency for powers equal to or greater than 0.75 kW, except single-phase, 2-speed and 8-pole.
- Three-phase 230/400 V 50 Hz (up to 3 kW) and 400/690 V 50 Hz (powers greater than 3 kW).
- Maximum temperature of air to be carried: S1 -25 °C +40 °C continuous service, also suitable for warm climates with temperatures up to 50 °C. S2 operation, 300 °C/2h, 400 °C/2h.

Finish:

- Anti-corrosive finish in polyester resin, polymerised at 190 °C, after degreasing with phosphate-free nanotechnology treatment.

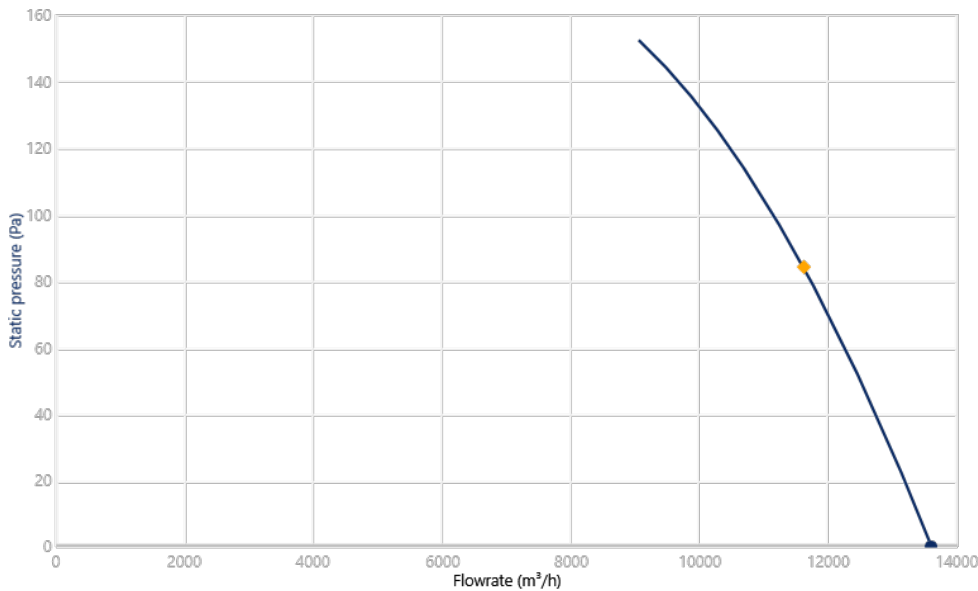
Available versions:

- THT/CL: Tubular axial fans with long casing equipped with inspection hatch.

On request:

- Airflow direction from impeller to motor.
- 100% reversible impellers.

CHARACTERISTIC CURVE AND ACOUSTICS AT 1.2KG/M³



Design Point

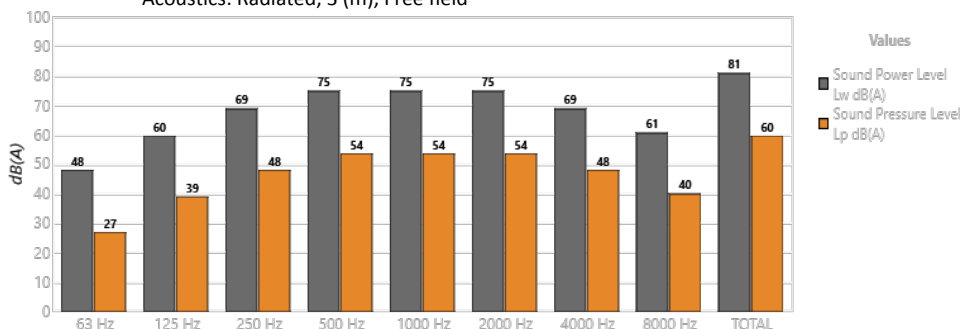
Q (m³/h)	13600
Ps (Pa)	0

Service Point (SP)

Q (m³/h)	13600
Ps (Pa)	-
Pd (Pa)	141.2
Pt (Pa)	141.2
Impeller (rpm)	1420
Blade Inclination (°)	30
Max. Temp. (°C)	40
Outlet air speed (m/s)	15.34
Mechanical efficiency (Pt) (%)	54.38
SFP (kW/m³/s)	0.309
Mechanical power (kW)	0.9806



Acoustics: Radiated, 3 (m), Free field



Band	Lw dB(A)	Lp dB(A)
63 Hz	48	27
125 Hz	60	39
250 Hz	69	48
500 Hz	75	54
1000 Hz	75	54
2000 Hz	75	54
4000 Hz	69	48
8000 Hz	61	40
TOTAL	81	60

TECHNICAL CHARACTERISTICS

Airflow maximum (m ³ /h)	13600
Speed (rpm)	1420
Maximum static pressure (Pa)	152.3
Maximum total pressure (Pa)	214.9

ERP

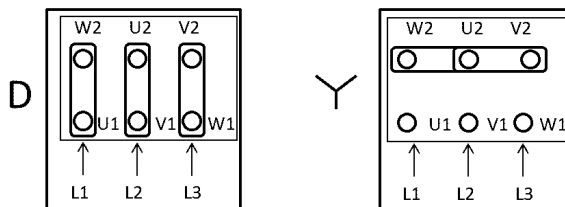
Efficiency	49.6%
Efficiency grade N	55.4
Measurement category	B
Efficiency category	Total
Specific ratio	1.00
Flowrate (m ³ /h)	11615

Pressure (Pa)	187
Input power (kW)	1.217
Speed (rpm)	1439
Variable speed drive	VSD not necessary
ErP compliance	2015

◆ Data established at point of optimum efficiency

MOTOR DATA

Rated Mechanical Power (kW)	1.1
Hz/phases	50/3
Motor (rpm)	1430
Poles	4P
Max. current (A) 380-400 V Y	2.37
Max. current (A) 220-240 V D	4.1
Motor protection	IP55
Motor class	F400
Motor frame size	90S



Data can change, please check motor plate



DIMENSIONS

ØA	ØB	C	ØD	E	ØJ	N
660	620	429	560	250	12	12x30°

Dimensions without explicitly defined units are shown in millimeters (mm). Dimensions depending on the motor are approximate

Approx. weight (kg)	40
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