

THT-56-4T-2-F-400 IE3

Code: 1139198



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

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 certification no.: 2797 CPR 840443 (F400, 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 with IE4 efficiency for power from 75 kW to 200 kW, except 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.

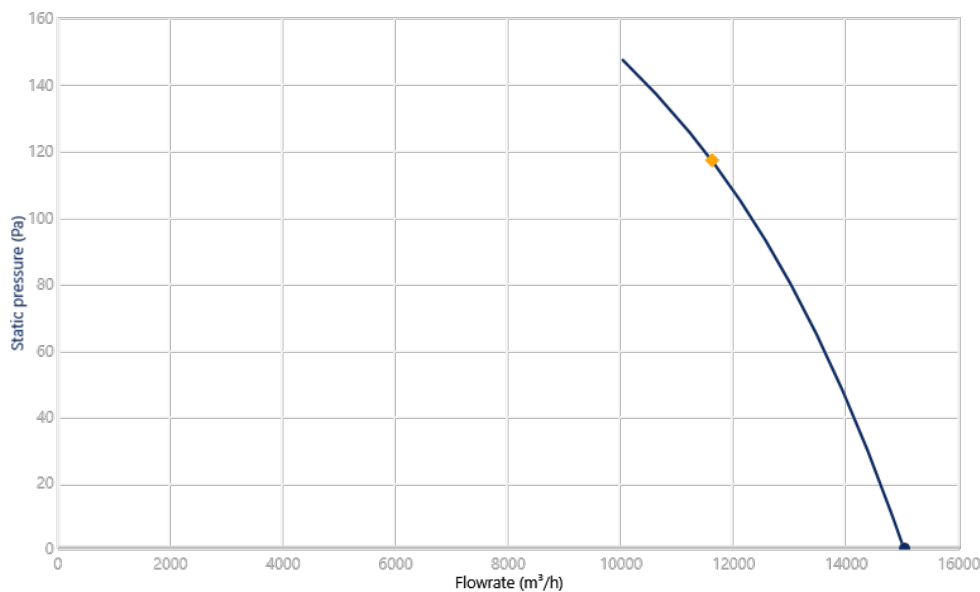
Available versions:

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

On request:

- Airflow direction from impeller to motor.
- 100% reversible impellers.
- ATEX certified Category 2.
- Vertical axis configuration on models that do not offer it in its standard version.

CHARACTERISTIC CURVE AND ACOUSTICS AT 1.2KG/M³



Design Point

Q (m³/h)	15025
Ps (Pa)	0

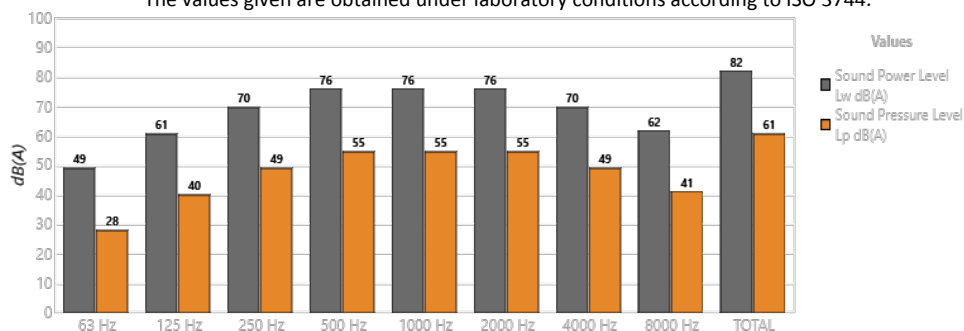
Service Point (SP)

Q (m³/h)	15025
Ps (Pa)	-
Pd (Pa)	172.3
Pt (Pa)	172.3
Impeller (rpm)	1425
Blade Inclination (°)	36
Max. Temp. (°C)	40
Outlet air speed (m/s)	16.95
Mechanical efficiency (Pt) (%)	52.53
SFP (kW/m³/s)	0.3859
Mechanical power (kW)	1.369



Acoustics: Radiated, 3 (m), Free field

The values given are obtained under laboratory conditions according to ISO 3744.



Band	Lw dB(A)	Lp dB(A)
63 Hz	49	28
125 Hz	61	40
250 Hz	70	49
500 Hz	76	55
1000 Hz	76	55
2000 Hz	76	55
4000 Hz	70	49
8000 Hz	62	41
TOTAL	82	61

TECHNICAL CHARACTERISTICS

Airflow maximum (m³/h)	15025
Speed (rpm)	1425
Maximum static pressure (Pa)	147.4
Maximum total pressure (Pa)	224
Installation type	Horizontal / Vertical

ERP

Efficiency	50.2%
Efficiency grade N	56.0
Measurement category	B
Efficiency category	Total
Specific ratio	1.00
Flowrate (m³/h)	11615

Pressure (Pa)	187
Input power (kW)	1.202
Speed (rpm)	1458
Variable speed drive	VSD not necessary
ErP compliance	According ErP

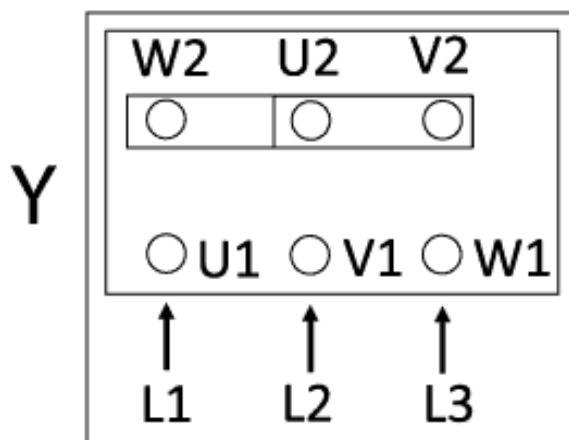
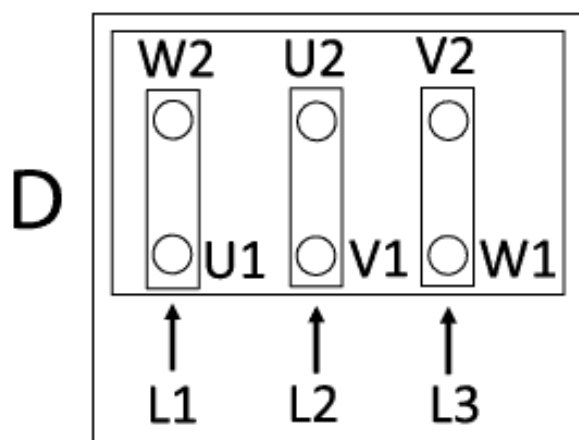
♦ Data established at point of optimum efficiency

MOTOR DATA

Rated Mechanical Power (kW)	1.5
Hz/phases	50/3
Motor (rpm)	1435
Poles	4P
Max. current (A) 380-400 V Y	3.38

Max. current (A) 220-240 V D	5.89
Motor protection	IP55
Motor class	F400
Motor frame size	90L

Data can change, please check motor plate



DIMENSIONS

C [1]	E	N	ØA	ØB	ØD	ØJ
398.5	250	12x30°	660	620	560	12

[1] Indicative dimension. Slight variations may occur.

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

Approx. weight (kg)	43
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