

# THT-71-4T-2-F-400 IE3

Code: 1139197



## 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.

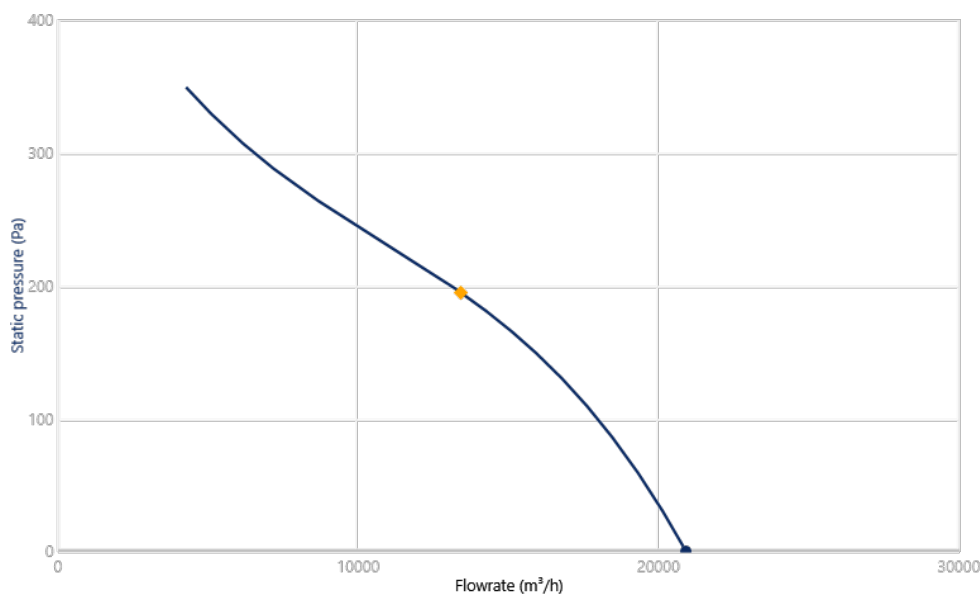
### Available versions:

- 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/M<sup>3</sup>



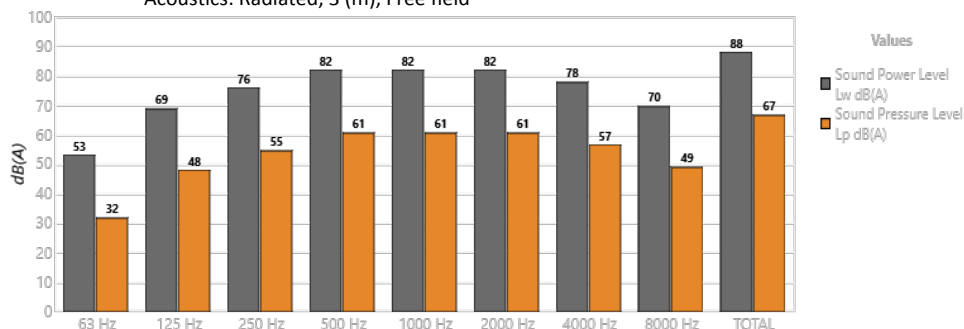
### Design Point

Q (m³/h)	20900
Ps (Pa)	0

### Service Point (SP)

Q (m³/h)	20900
Ps (Pa)	-
Pd (Pa)	129
Pt (Pa)	129
Impeller (rpm)	1425
Blade Inclination (°)	14
Max. Temp. (°C)	40
Outlet air speed (m/s)	14.66
Mechanical efficiency (Pt) (%)	72.32
SFP (kW/m³/s)	0.2099
Mechanical power (kW)	1.036

Acoustics: Radiated, 3 (m), Free field



Band	Lw dB(A)	Lp dB(A)
63 Hz	53	32
125 Hz	69	48
250 Hz	76	55
500 Hz	82	61
1000 Hz	82	61
2000 Hz	82	61
4000 Hz	78	57
8000 Hz	70	49
TOTAL	88	67

## TECHNICAL CHARACTERISTICS

Airflow maximum (m <sup>3</sup> /h)	20900
Speed (rpm)	1425
Maximum static pressure (Pa)	349
Maximum total pressure (Pa)	354.4

## ERP

Efficiency	49.7%
Efficiency grade N	55.0
Measurement category	C
Efficiency category	Static
Specific ratio	1.00
Flowrate (m <sup>3</sup> /h)	13405

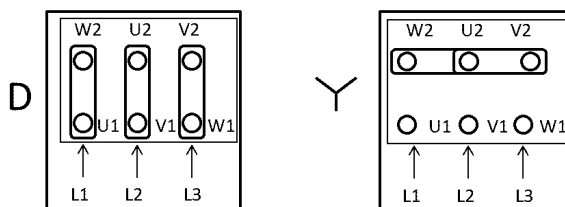
Pressure (Pa)	194
Input power (kW)	1.456
Speed (rpm)	1450
Variable speed drive	VSD not necessary
ErP compliance	2015

♦ 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

ØA	ØB	C	ØD	E	ØJ	N
810	770	398.5	710	300	12	16x22°30'

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

Approx. weight (kg)	56
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