

# THT/CL-45-4T-0.75-F-400

Code: 1122987



## 400 °C/2h and 300 °C/2h tubular axial extractor fans with long casing and external terminal boxes

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

### Fan:

- Tubular casing in sheet steel with external terminal box (Cable box) and inspection hatch.
- 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.

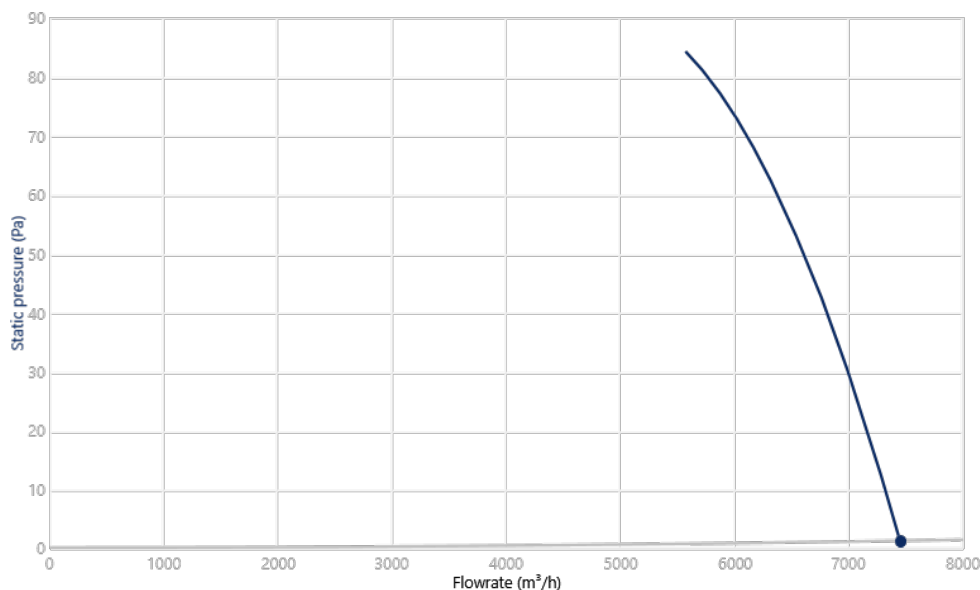
### Available versions:

- THT: Tubular axial fans with short casing.

### On request:

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

## CHARACTERISTIC CURVE AND ACOUSTICS AT 1.2KG/M<sup>3</sup>



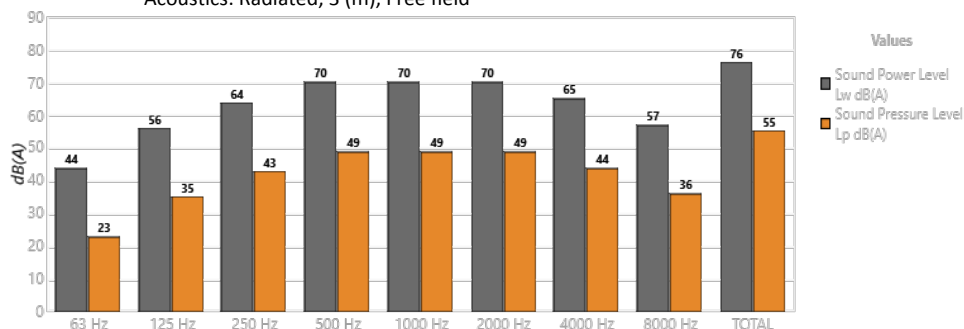
### Design Point

Q (m³/h)	7450
Ps (Pa)	1.15

### Service Point (SP)

Q (m³/h)	7450
Ps (Pa)	1.15
Pd (Pa)	101.6
Pt (Pa)	102.7
Impeller (rpm)	1420
Blade Inclination (°)	36
Max. Temp. (°C)	40
Outlet air speed (m/s)	13.01
Mechanical efficiency (Pt) (%)	45.4
SFP (kW/m³/s)	0.2864
Mechanical power (kW)	0.4682

Acoustics: Radiated, 3 (m), Free field



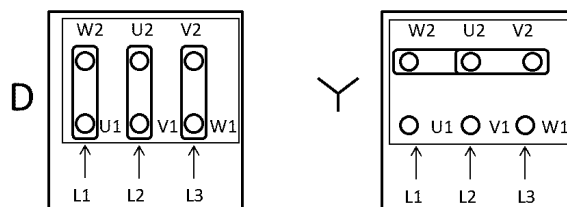
Band	Lw dB(A)	Lp dB(A)
63 Hz	44	23
125 Hz	56	35
250 Hz	64	43
500 Hz	70	49
1000 Hz	70	49
2000 Hz	70	49
4000 Hz	65	44
8000 Hz	57	36
TOTAL	76	55

## TECHNICAL CHARACTERISTICS

Airflow maximum (m <sup>3</sup> /h)	7450
Speed (rpm)	1420
Maximum static pressure (Pa)	84.24
Maximum total pressure (Pa)	141.1

## MOTOR DATA

Rated Mechanical Power (kW)	0.55
Hz/phases	50/3
Motor (rpm)	1425
Poles	4P
Max. current (A) 380-400 V Y	1.4
Max. current (A) 220-240 V D	2.42
Motor protection	IP55
Motor class	F400
Motor frame size	80M



Data can change, please check motor plate

## DIMENSIONS

ØA	ØB	ØD	ØJ	N
540	500	460	12	8x45°

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

Approx. weight (kg)	34
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