

THT-71-4T-3-F-400 IE3

Code: 1139209



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.

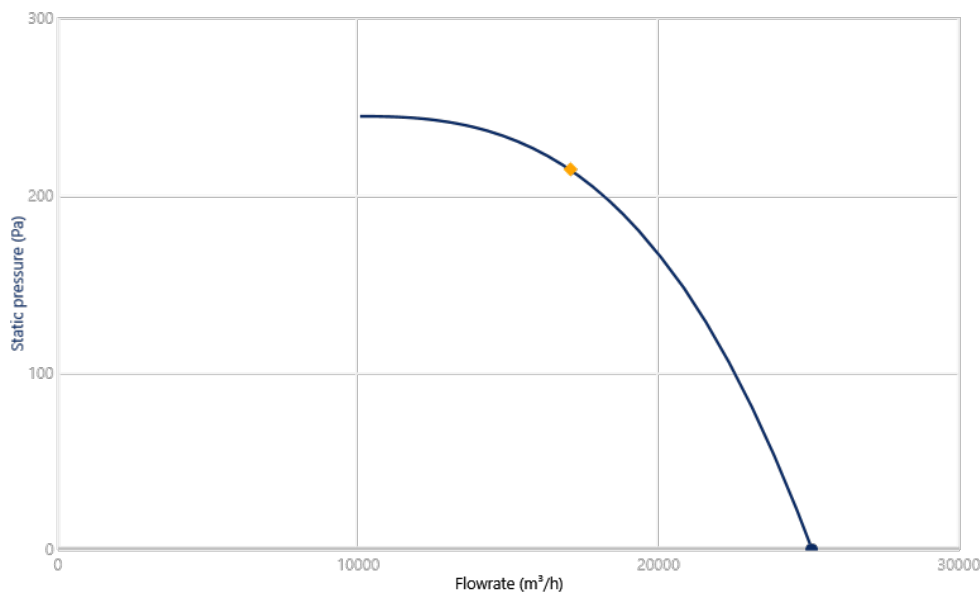
Available versions:

- 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



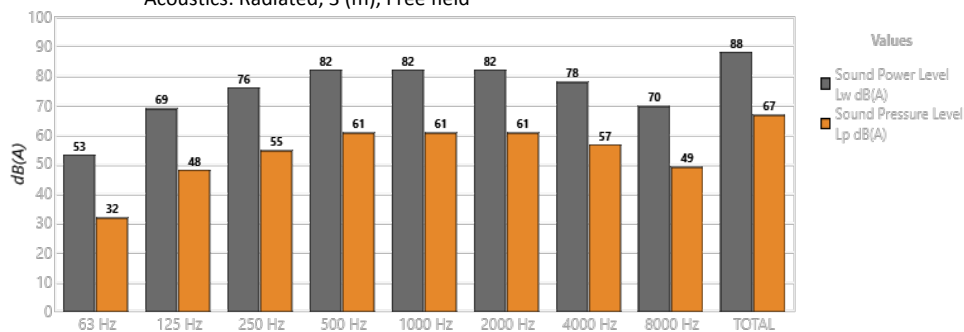
Design Point

Q (m³/h)	25100
Ps (Pa)	0

Service Point (SP)

Q (m³/h)	25100
Ps (Pa)	-
Pd (Pa)	186.1
Pt (Pa)	186.1
Impeller (rpm)	1435
Blade Inclination (°)	22
Max. Temp. (°C)	40
Outlet air speed (m/s)	17.61
Mechanical efficiency (Pt) (%)	73.19
SFP (kW/m³/s)	0.2922
Mechanical power (kW)	1.773

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 (m³/h)	25100
Speed (rpm)	1435
Maximum static pressure (Pa)	244.2
Maximum total pressure (Pa)	300.5

ERP

Efficiency	44.2%
Efficiency grade N	48.2
Measurement category	C
Efficiency category	Static
Specific ratio	1.00
Flowrate (m³/h)	17056

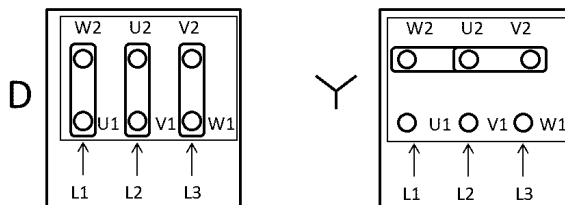
Pressure (Pa)	214
Input power (kW)	2.297
Speed (rpm)	1468
Variable speed drive	VSD not necessary
ErP compliance	2015

♦ Data established at point of optimum efficiency

MOTOR DATA

Rated Mechanical Power (kW)	2.2
Hz/phases	50/3
Motor (rpm)	1450
Poles	4P
Max. current (A) 380-400 V Y	4.52
Max. current (A) 220-240 V D	7.86
Motor protection	IP55
Motor class	F400
Motor frame size	100L

Data can change, please check motor plate



DIMENSIONS

ØA	ØB	C	ØD	E	ØJ	N
810	770	434	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)	61
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