

# THT-63-4T-1-F-400 IE3

Code: 1139206



## 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.

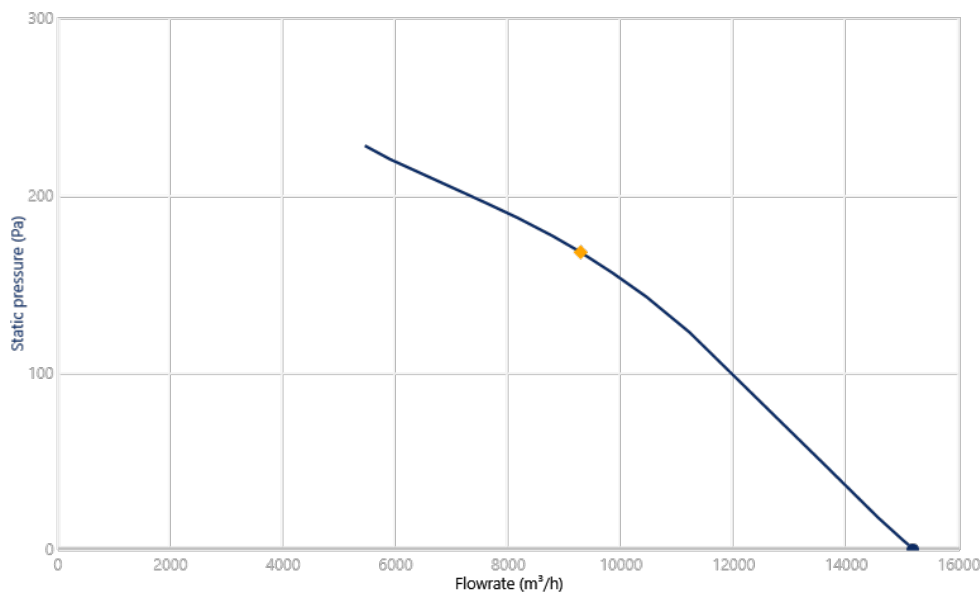
### Available versions:

- 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>



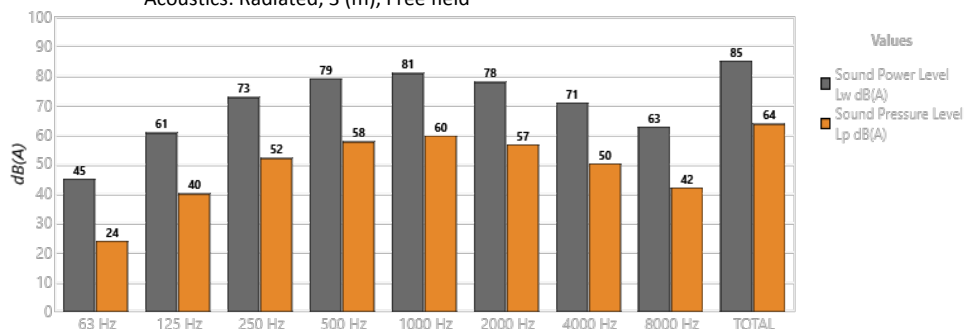
### Design Point

Q (m³/h)	15184
Ps (Pa)	0

### Service Point (SP)

Q (m³/h)	15184
Ps (Pa)	-
Pd (Pa)	109.8
Pt (Pa)	109.8
Impeller (rpm)	1430
Blade Inclination (°)	14
Max. Temp. (°C)	40
Outlet air speed (m/s)	13.53
Mechanical efficiency (Pt) (%)	86.72
SFP (kW/m³/s)	0.1526
Mechanical power (kW)	0.5342

Acoustics: Radiated, 3 (m), Free field



Band	Lw dB(A)	Lp dB(A)
63 Hz	45	24
125 Hz	61	40
250 Hz	73	52
500 Hz	79	58
1000 Hz	81	60
2000 Hz	78	57
4000 Hz	71	50
8000 Hz	63	42
TOTAL	85	64

## TECHNICAL CHARACTERISTICS

Airflow maximum (m <sup>3</sup> /h)	15184
Speed (rpm)	1430
Maximum static pressure (Pa)	227.7
Maximum total pressure (Pa)	241.8

## ERP

Efficiency	52.0%
Efficiency grade N	58.8
Measurement category	C
Efficiency category	Static
Specific ratio	1.00
Flowrate (m <sup>3</sup> /h)	9291

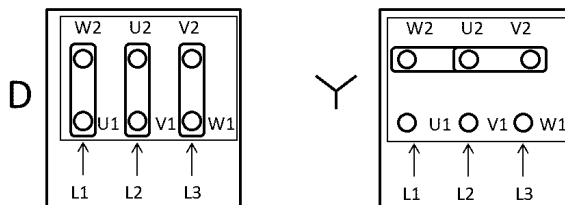
Pressure (Pa)	167
Input power (kW)	0.832
Speed (rpm)	1430
Variable speed drive	VSD not necessary
ErP compliance	2015

♦ Data established at point of optimum efficiency

## MOTOR DATA

Rated Mechanical Power (kW)	0.75
Hz/phases	50/3
Motor (rpm)	1410
Poles	4P
Max. current (A) 380-400 V Y	1.79
Max. current (A) 220-240 V D	3.08
Motor protection	IP55
Motor class	F400
Motor frame size	80M

Data can change, please check motor plate



## DIMENSIONS

ØA	ØB	C	ØD	E	ØJ	N
730	690	356	640	250	12	12x30°

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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