

THT-71-4T-1.5-F-400 IE3

Code: 1139186



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.
- \bullet 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 $^{\circ}$ C +40 $^{\circ}$ C continuous service, also suitable for warm climates with temperatures up to 50 $^{\circ}$ C. S2 operation, 300 $^{\circ}$ C/2h, 400 $^{\circ}$ C/2h.

Finish:

 \bullet Anti-corrosive finish in polyester resin, polymerised at 190 °C, after degreasing with phosphate-free nanotechnology treatment.

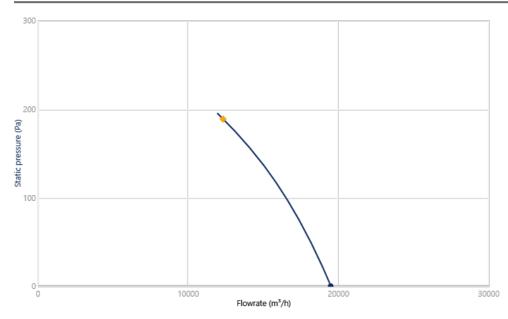
Available versions:

• 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

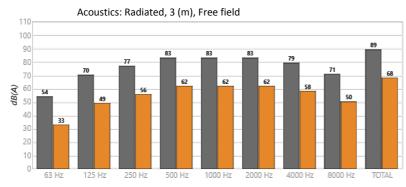
Q (m³/h)	19480	
Ps (Pa)	0	

Service Point (SP)

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Q (m³/h)	19480
Ps (Pa)	-
Pd (Pa)	112.1
Pt (Pa)	112.1
Impeller (rpm)	1420
Blade Inclination (º)	12
Max. Temp. (ºC)	40
Outlet air speed (m/s)	13.67
Mechanical efficiency (Pt) (%)	67.78
SFP (kW/m³/s)	0.1968
Mechanical power (kW)	0.8947









Band	Lw dB(A)	Lp dB(A)		
63 Hz	54	33		
125 Hz	70	49		
250 Hz	77	56		
500 Hz	83	62		
1000 Hz	83	62 62		
2000 Hz	10 Hz 83			
4000 Hz	79	58		
8000 Hz	71	50 68		
TOTAL	89			

TECHNICAL CHARACTERISTICS

Airflow maximum (m³/h)	19480
Speed (rpm)	1420
Maximum static pressure (Pa)	195.2
Maximum total pressure (Pa)	237.1

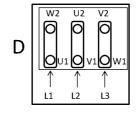
ERP

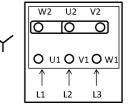
Efficiency	49.4%
Efficiency grade N	55.0
Measurement category	С
Efficiency category	Static
Specific ratio	1.00
Flowrate (m³/h)	12330

Pressure (Pa)	188
Input power (kW)	1.305
Speed (rpm)	1434
Variable speed drive	VSD not necessary
ErP compliance	2015

MOTOR DATA

Rated Mechanical Power (kW)	1.1
Hz/phases	50/3
Motor (rpm)	1430
Poles	4P
Max. current (A) 380-400 V Y	2.37
Max. current (A) 220-240 V D	4.1
Motor protection	IP55
Motor class	F400
Motor frame size	90\$





Data can change, please check motor plate

Data established at point of optimum efficiency



DIMENSIONS

ØΑ	ØВ	С	ØD	E	Ø١	N
810	770	429	710	300	12	16x22º30′

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

