



THT-90-4T-5.5-F-400 IE3

Code: 1139183



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.

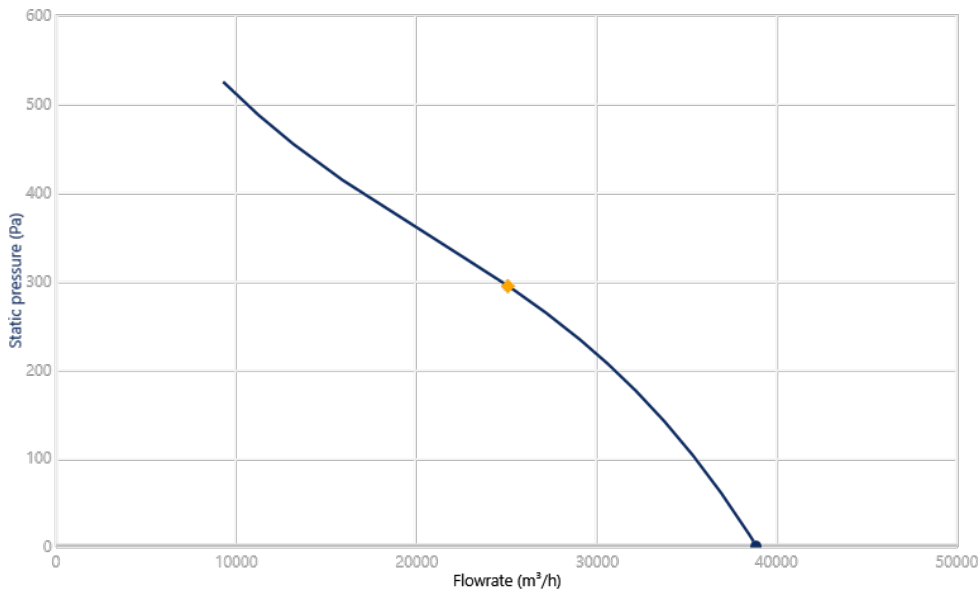
Available versions:

- 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)	38882
Ps (Pa)	0

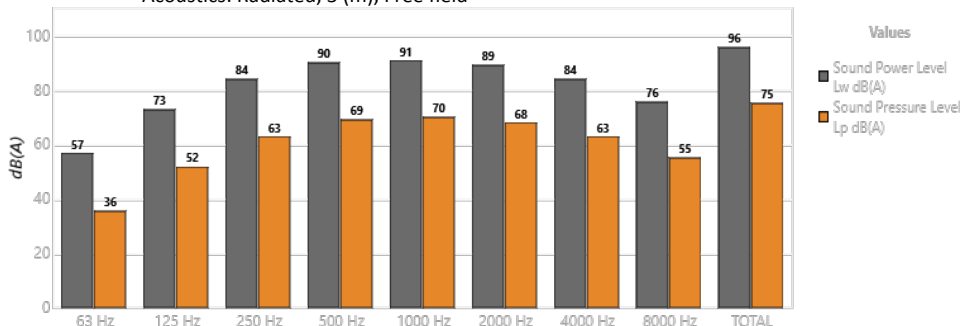
Service Point (SP)

Q (m³/h)	38882
Ps (Pa)	-
Pd (Pa)	172.9
Pt (Pa)	172.9
Impeller (rpm)	1440
Blade Inclination (°)	12
Max. Temp. (°C)	40
Outlet air speed (m/s)	16.98
Mechanical efficiency (Pt) (%)	70.3
SFP (kW/m³/s)	0.2764
Mechanical power (kW)	2.657





Acoustics: Radiated, 3 (m), Free field



Band	Lw dB(A)	Lp dB(A)
63 Hz	57	36
125 Hz	73	52
250 Hz	84	63
500 Hz	90	69
1000 Hz	91	70
2000 Hz	89	68
4000 Hz	84	63
8000 Hz	76	55
TOTAL	96	75

TECHNICAL CHARACTERISTICS

Airflow maximum (m ³ /h)	38882
Speed (rpm)	1440
Maximum static pressure (Pa)	524.1
Maximum total pressure (Pa)	533.9

ERP

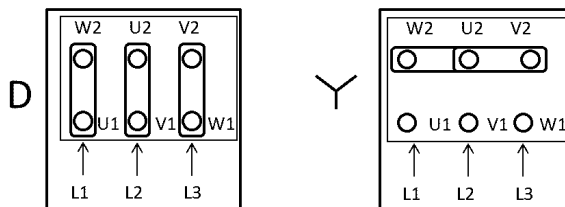
Efficiency	51.9%
Efficiency grade N	54.5
Measurement category	C
Efficiency category	Static
Specific ratio	1.00
Flowrate (m ³ /h)	25081

Pressure (Pa)	294
Input power (kW)	3.939
Speed (rpm)	1455
Variable speed drive	VSD not necessary
ErP compliance	2015

◆ Data established at point of optimum efficiency

MOTOR DATA

Rated Mechanical Power (kW)	4
Hz/phases	50/3
Motor (rpm)	1445
Poles	4P
Max. current (A) 380-400 V D	7.95
Max. current (A) 660-725 V Y	4.61
Motor protection	IP55
Motor class	F400
Motor frame size	112M



Data can change, please check motor plate

DIMENSIONS

ØA	ØB	C	ØD	E	ØJ	N
1015	970	500.5	900	350	15	16x22°30'

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

Approx. weight (kg)	99
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