

THT/CL-45-2T-2-F-400 IE3

Code: 1139552



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.

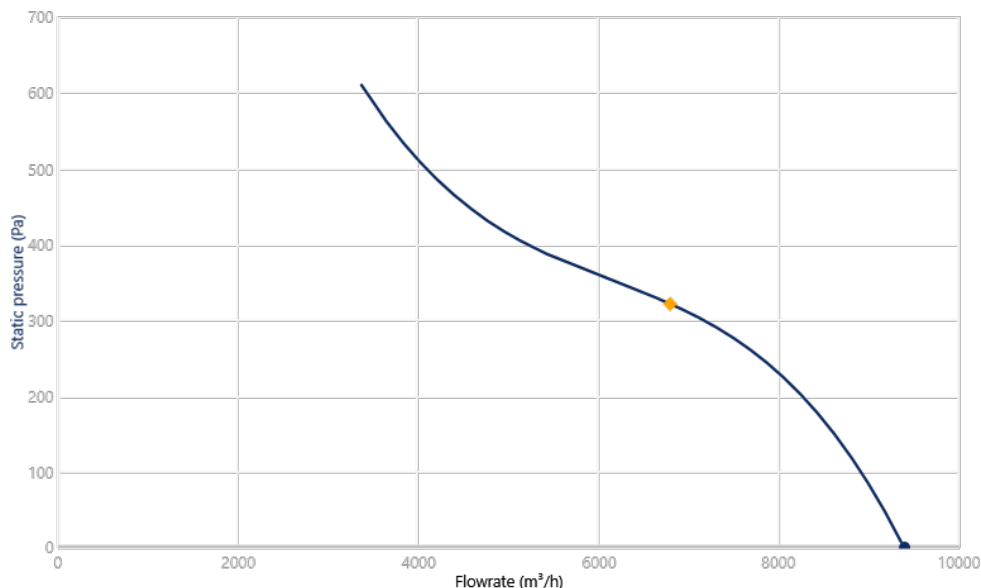
Available versions:

- 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/M³



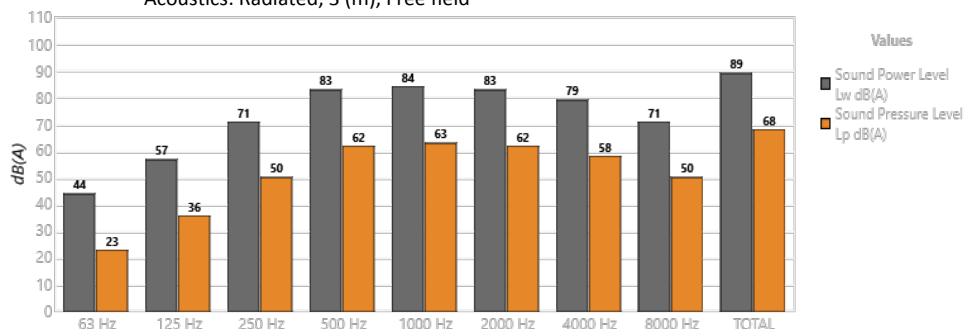
Design Point

Q (m³/h)	9393
Ps (Pa)	0

Service Point (SP)

Q (m³/h)	9393
Ps (Pa)	-
Pd (Pa)	161.5
Pt (Pa)	161.5
Impeller (rpm)	2880
Blade Inclination (°)	16
Max. Temp. (°C)	40
Outlet air speed (m/s)	16.41
Mechanical efficiency (Pt) (%)	49.72
SFP (kW/m³/s)	0.3866
Mechanical power (kW)	0.8474

Acoustics: Radiated, 3 (m), Free field



Band	Lw dB(A)	Lp dB(A)
63 Hz	44	23
125 Hz	57	36
250 Hz	71	50
500 Hz	83	62
1000 Hz	84	63
2000 Hz	83	62
4000 Hz	79	58
8000 Hz	71	50
TOTAL	89	68

TECHNICAL CHARACTERISTICS

Airflow maximum (m³/h)	9393
Speed (rpm)	2880
Maximum static pressure (Pa)	610.8
Maximum total pressure (Pa)	631.5

ERP

Efficiency	39.3%
Efficiency grade N	44.5
Measurement category	A
Efficiency category	Static
Specific ratio	1.00
Flowrate (m³/h)	6802

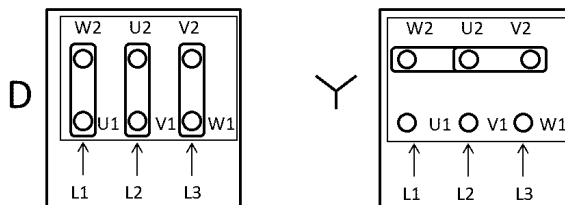
Pressure (Pa)	321
Input power (kW)	1.542
Speed (rpm)	2939
Variable speed drive	VSD not necessary
ErP compliance	2015

♦ Data established at point of optimum efficiency

MOTOR DATA

Rated Mechanical Power (kW)	1.5
Hz/phases	50/3
Motor (rpm)	2850
Poles	2P
Max. current (A) 380-400 V Y	2.84
Max. current (A) 220-240 V D	4.91
Motor protection	IP55
Motor class	F400
Motor frame size	90S

Data can change, please check motor plate



DIMENSIONS

ØA	ØB	ØD	E	F	ØJ	N
540	500	460	400	-	12	8x45°

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

Approx. weight (kg)	38
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