

THT/CL-40-2T-1.5-F-400 IE3

Code: 1139561



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.

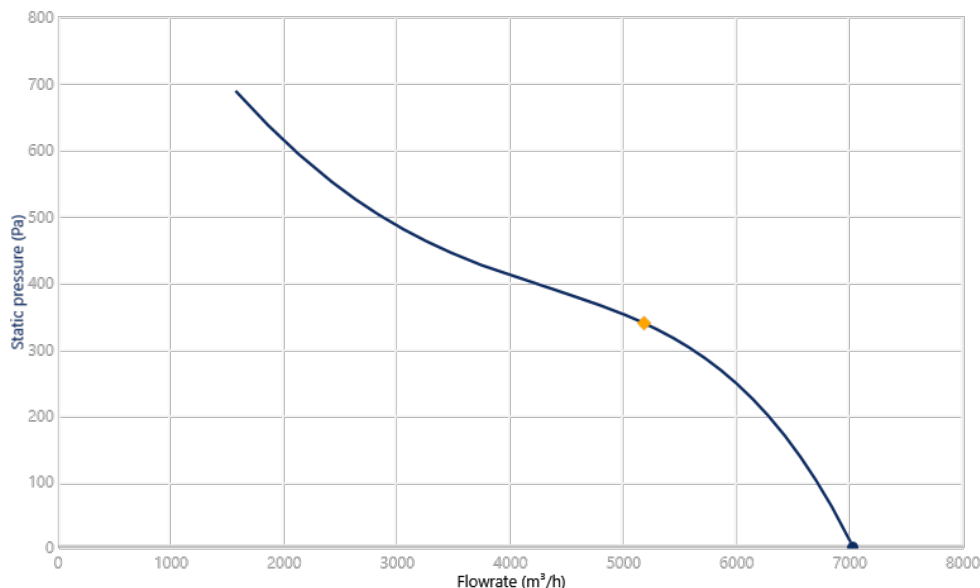
Available versions:

- 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



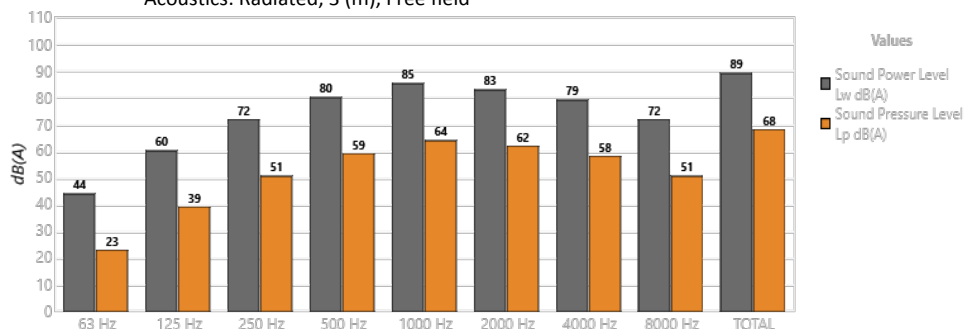
Design Point

Q (m³/h)	7032
Ps (Pa)	0

Service Point (SP)

Q (m³/h)	7032
Ps (Pa)	-
Pd (Pa)	145
Pt (Pa)	145
Impeller (rpm)	2880
Blade Inclination (°)	20
Max. Temp. (°C)	40
Outlet air speed (m/s)	15.54
Mechanical efficiency (Pt) (%)	39.81
SFP (kW/m³/s)	0.4387
Mechanical power (kW)	0.7113

Acoustics: Radiated, 3 (m), Free field



Band	Lw dB(A)	Lp dB(A)
63 Hz	44	23
125 Hz	60	39
250 Hz	72	51
500 Hz	80	59
1000 Hz	85	64
2000 Hz	83	62
4000 Hz	79	58
8000 Hz	72	51
TOTAL	89	68

TECHNICAL CHARACTERISTICS

Airflow maximum (m ³ /h)	7032
Speed (rpm)	2880
Maximum static pressure (Pa)	687.8
Maximum total pressure (Pa)	695

ERP

Efficiency	38.0%
Efficiency grade N	43.6
Measurement category	A
Efficiency category	Static
Specific ratio	1.00
Flowrate (m ³ /h)	5180

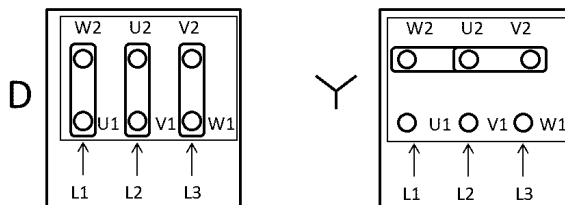
Pressure (Pa)	338
Input power (kW)	1.280
Speed (rpm)	2902
Variable speed drive	VSD not necessary
ErP compliance	2015

♦ Data established at point of optimum efficiency

MOTOR DATA

Rated Mechanical Power (kW)	1.1
Hz/phases	50/3
Motor (rpm)	2870
Poles	2P
Max. current (A) 380-400 V Y	2.26
Max. current (A) 220-240 V D	3.93
Motor protection	IP55
Motor class	F400
Motor frame size	80M

Data can change, please check motor plate



DIMENSIONS

ØA	ØB	ØD	E	F	ØJ	N
490	450	410	400	-	12	8x45°

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

Approx. weight (kg)	33
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