

THT/CL-40-2/4T-1.5-F-400

Code: 1122977



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.

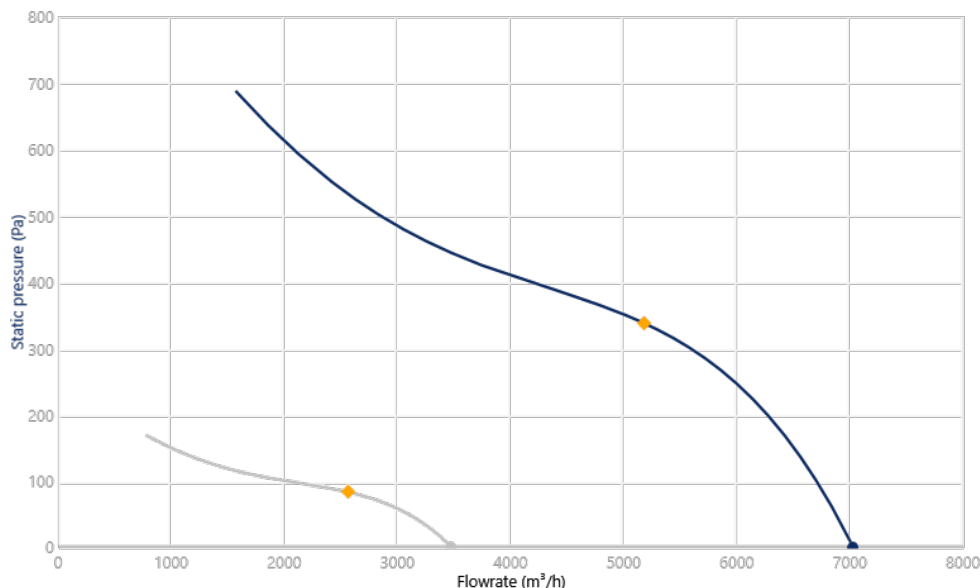
Available versions:

- 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



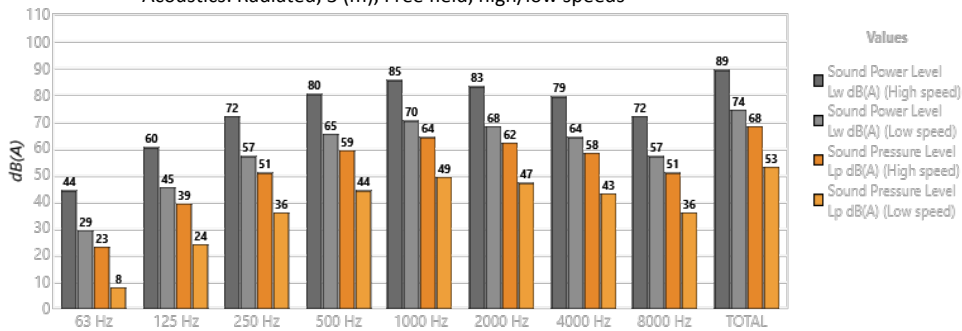
Design Point

Q (m³/h)	7032
Ps (Pa)	0

Service Point (SP)

Q (m³/h)	7032/3480
Ps (Pa)	-/-
Pd (Pa)	145/35.5
Pt (Pa)	145/35.5
Impeller (rpm)	2900/1435
Blade Inclination (°)	20/20
Max. Temp. (°C)	40/40
Outlet air speed (m/s)	15.54/7.692
Mechanical efficiency (Pt) (%)	39.81/39.81
SFP (kW/m³/s)	0.5129/ 0.1256
Mechanical power (kW)	0.7113/ 0.0862

Acoustics: Radiated, 3 (m), Free field, high/low speeds



Band	Lw dB(A)	Lp dB(A)
63 Hz	44/29	23/8
125 Hz	60/45	39/24
250 Hz	72/57	51/36
500 Hz	80/65	59/44
1000 Hz	85/70	64/49
2000 Hz	83/68	62/47
4000 Hz	79/64	58/43
8000 Hz	72/57	51/36
TOTAL	89/74	68/53

TECHNICAL CHARACTERISTICS

Airflow maximum (m ³ /h)	7032/3480
Speed (rpm)	2900/1435
Maximum static pressure (Pa)	687.8/168.4
Maximum total pressure (Pa)	695/170.2

ERP

Efficiency	36.4%
Efficiency grade N	41.9
Measurement category	A
Efficiency category	Static
Specific ratio	1.00
Flowrate (m ³ /h)	5180

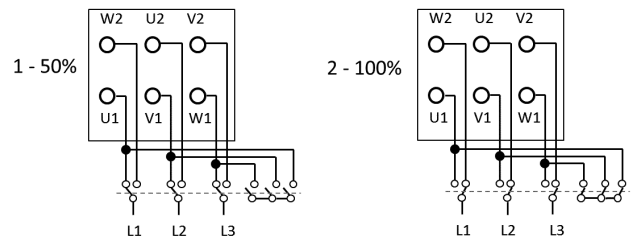
Pressure (Pa)	338
Input power (kW)	1.330
Speed (rpm)	2903
Variable speed drive	VSD not necessary
ErP compliance	2015

♦ Data established at point of optimum efficiency

MOTOR DATA

Rated Mechanical Power (kW)	1.1/0.25
Hz/phases	50/3
Motor (rpm)	2900/1435
Poles	2/4P
Max. current (A) 380-415 V	2.89/1.04
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
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)	34
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