

THT-80-4T-3-8°-F-400 IE3



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 -20 °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.

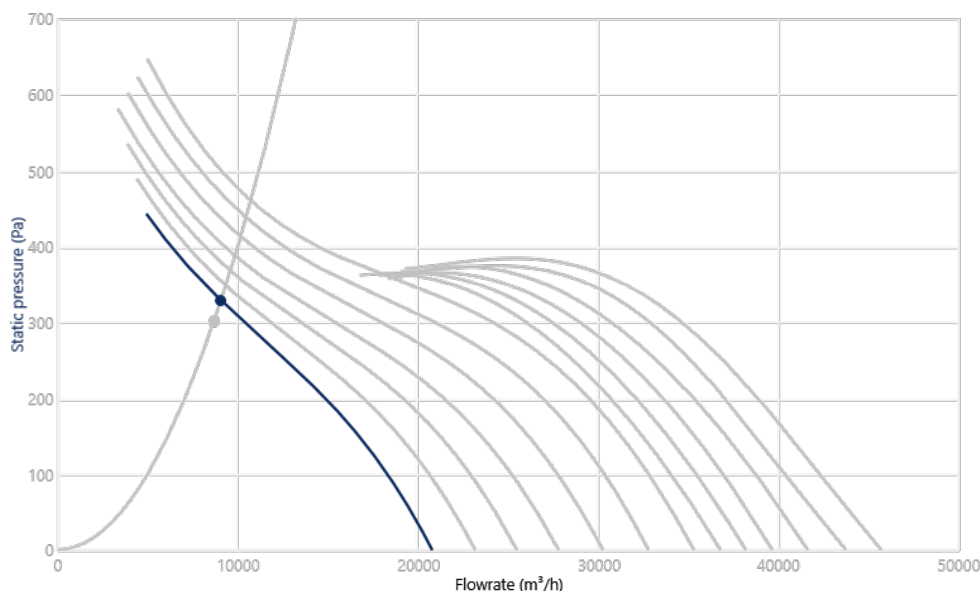
Available versions:

- 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



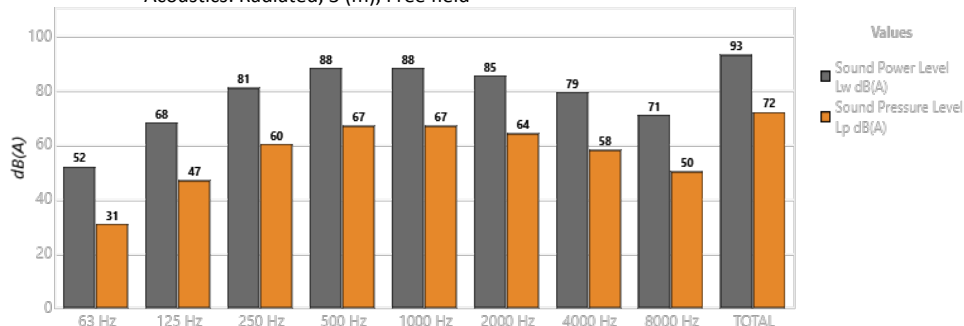
Design Point

| | |
|----------|------|
| Q (m³/h) | 8640 |
| Ps (Pa) | 300 |

Service Point (SP)

| | |
|-----------------------------------|--------|
| Q (m³/h) | 9044 |
| Ps (Pa) | 328.7 |
| Pd (Pa) | 14.99 |
| Pt (Pa) | 343.7 |
| Impeller (rpm) | 1450 |
| Blade Inclination (°) | 8 |
| Max. Temp. (°C) | 40 |
| Outlet air speed (m/s) | 4.998 |
| Efficiency (%) | 55.24 |
| SFP (kW/m³/s) | 0.7152 |
| Absorbed mechanical power (kW) | 1.563 |
| Recommended Mechanical Power (kW) | 2.2 |
| Selected Mechanical Power (kW) | 2.2 |

Acoustics: Radiated, 3 (m), Free field



| Band | Lw dB(A) | Lp dB(A) |
|---------|----------|----------|
| 63 Hz | 52 | 31 |
| 125 Hz | 68 | 47 |
| 250 Hz | 81 | 60 |
| 500 Hz | 88 | 67 |
| 1000 Hz | 88 | 67 |
| 2000 Hz | 85 | 64 |
| 4000 Hz | 79 | 58 |
| 8000 Hz | 71 | 50 |
| TOTAL | 93 | 72 |

TECHNICAL CHARACTERISTICS

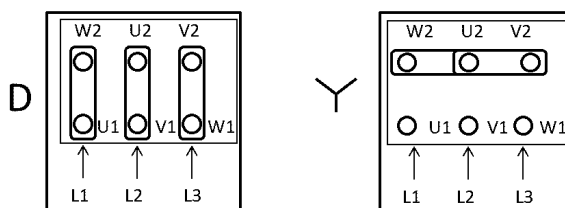
| | |
|-------------------------------------|-------|
| Airflow maximum (m ³ /h) | 20810 |
| Speed (rpm) | 1450 |
| Maximum static pressure (Pa) | 443.1 |
| Maximum total pressure (Pa) | 447.5 |

ERP

| | |
|----------------|------|
| ErP compliance | 2015 |
|----------------|------|

MOTOR DATA

| | |
|------------------------------|------|
| Rated Mechanical Power (kW) | 2.2 |
| Hz/phases | 50/3 |
| Motor (rpm) | 1450 |
| Poles | 4P |
| Max. current (A) 380-400 V Y | 4.52 |
| Max. current (A) 220-240 V D | 7.86 |
| Motor protection | IP55 |
| Motor class | F400 |
| Motor frame size | 100L |



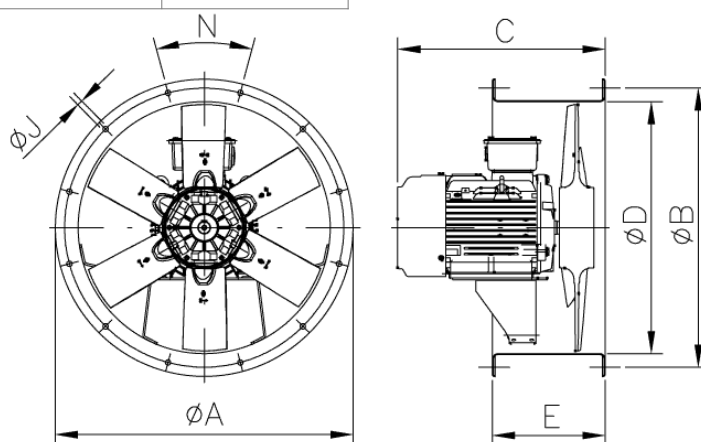
Data can change, please check motor plate

DIMENSIONS

| ØA | ØB | C | ØD | E | ØJ | N |
|-----|-----|-----|-----|-----|----|-----------|
| 900 | 860 | 462 | 800 | 300 | 12 | 16x22°30' |

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

| | |
|---------------------|----|
| Approx. weight (kg) | 73 |
|---------------------|----|



AVAILABLE ACCESSORIES



It must be checked that the accessory is suitable for the fan model