

HCT-45-2T-2/AL IE3

Code: 1003066



Extremely robust tubular axial fans

Tubular wall mounted fans. PL version fitted with a plastic impeller and AL version with an aluminium impeller.



Fan:

- Airflow direction from motor to impeller.
- PL version impellers in fibreglass reinforced polyamide-6 and AL version in cast aluminium. Models 40-2T and 45-2T only in AL version.
- Tubular casing in sheet steel with external terminal box.

Motor:

- Motors with IE3 efficiency for powers equal to or greater than 0.75 kW, except single-phase, 2-speed and 8-pole.
- Class F motors with ball bearings. IP55 protection. Except single-phase models from size 45 to size 56, with IP54 protection. 1 or 2 speeds depending on model.
- Single-phase 230 V 50 Hz and three-phase 230/400 V 50 Hz (up to 4 kW) and 400/690 V 50 Hz (powers greater than 4 kW).
- Working temperature: -25 °C +50 °C.

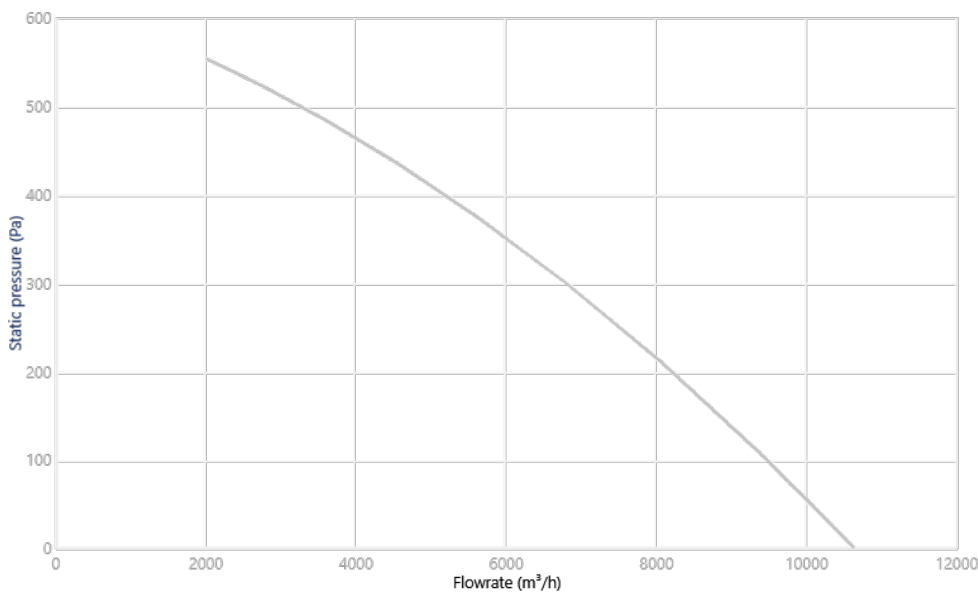
Finish:

- Anti-corrosive finish in polyester resin, polymerised at 190 °C, after degreasing with phosphate-free nanotechnology treatment.

On request:

- Airflow direction from impeller to motor.
- 100% reversible impellers.
- Special windings for different voltages.
- ATEX certified Category 2.

CHARACTERISTIC CURVE AND ACOUSTICS AT 1.2KG/M³



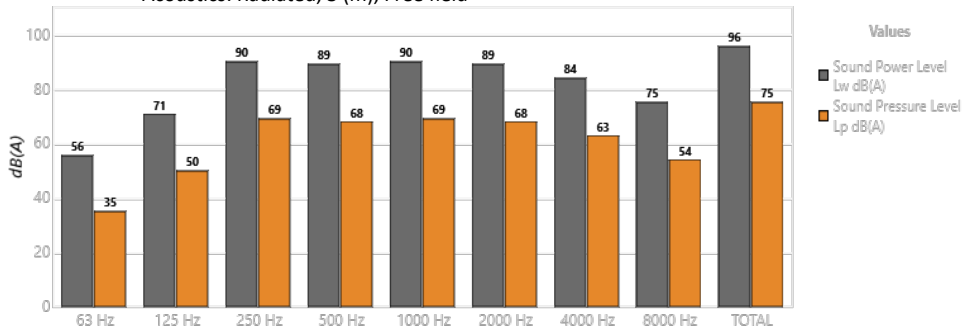
Design Point

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

Service Point (SP)

| | |
|----------|---|
| Q (m³/h) | - |
| Ps (Pa) | - |
| Pd (Pa) | - |
| Pt (Pa) | - |

Acoustics: Radiated, 3 (m), Free field



| Band | Lw dB(A) | Lp dB(A) |
|---------|----------|----------|
| 63 Hz | 56 | 35 |
| 125 Hz | 71 | 50 |
| 250 Hz | 90 | 69 |
| 500 Hz | 89 | 68 |
| 1000 Hz | 90 | 69 |
| 2000 Hz | 89 | 68 |
| 4000 Hz | 84 | 63 |
| 8000 Hz | 75 | 54 |
| TOTAL | 96 | 75 |

TECHNICAL CHARACTERISTICS

| | |
|------------------------------|-------|
| Airflow maximum (m³/h) | 10630 |
| Speed (rpm) | 2875 |
| Maximum static pressure (Pa) | 553.4 |
| Maximum total pressure (Pa) | 560.8 |

ERP

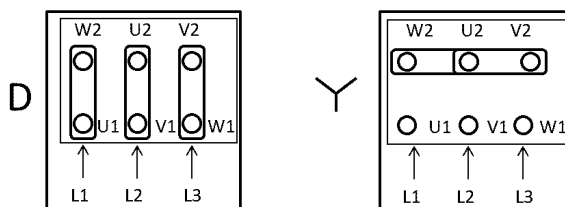
| | |
|----------------------|--------|
| Efficiency | 38.8% |
| Efficiency grade N | 44.0 |
| Measurement category | A |
| Efficiency category | Static |
| Specific ratio | 1.00 |
| Flowrate (m³/h) | 5401 |

| | |
|----------------------|-------------------|
| Pressure (Pa) | 387 |
| Input power (kW) | 1.499 |
| Speed (rpm) | 2894 |
| 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) | 2875 |
| Poles | 2P |
| Max. current (A) 380-415 V Y | 3.07 |
| Max. current (A) 220-240 V D | 5.34 |
| Motor protection | IP55 |
| Motor frame size | 90S/L |



Data can change, please check motor plate

DIMENSIONS

| ØA | ØB | ØD | E | E1 | ØJ | N |
|-----|-----|-----|-----|----|----|-------|
| 540 | 500 | 460 | 360 | 46 | 12 | 8x45° |

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

| | |
|---------------------|----|
| Approx. weight (kg) | 35 |
|---------------------|----|

