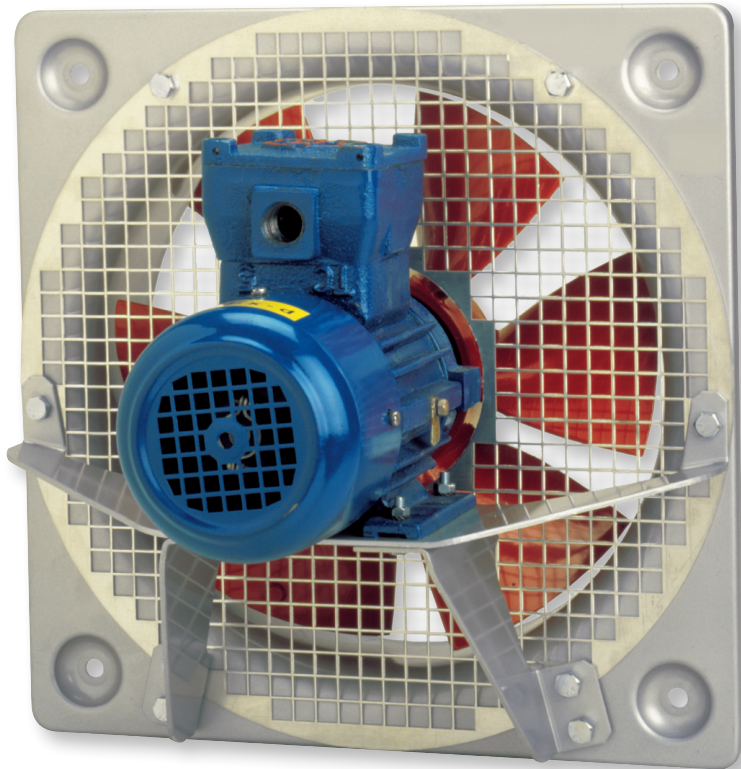




Range of plate mounted axial flameproof fans. Mounting plate manufactured from galvanised sheet steel fitted with an internal aluminium ring and motor support manufactured from heavy gauge aluminium sheet. The whole assembly is protected by aluminium paint finish B-0920. Impellers manufactured from one piece die-cast aluminium with aerofoil profile fixed blades and finished in a high temperature paint coating (red colour). Available, depending upon the model, with three phase motors in 4, 6 or 8 poles.

#### Motors

All motors are IP55, Class F insulation. All motors incorporate ball bearings greased for life.

Electrical supplies

Three phase 230/400V-50Hz.

#### ATEX versions HDT

On request, explosion proof versions in accordance with ATEX Directive.

For ambient working temperatures from -20°C to +40°C.

##### - ATEX Flameproof-Gas

In standard ATEX version flameproof motors are without thermal protection.

If used with frequency inverter, flameproof motors with a PTC-type thermal protection must be specified at order.

⊕ II 2G Ex d IIB T4

⊕ II 2G Ex d IIB+H2 T4

##### - ATEX Dust

In standard ATEX version, ATEX motors for dust are without thermal protection.

If used with frequency inverter, ATEX motors for dust with a PTC-type thermal protection must be specified at order.

Suspended flammable particles and non-conductive dust:

⊕ II 3D Ex tc IIIB T125°C

Conductive dust:

⊕ II 3D Ex tc IIIC T125°C (with IP65 motor)

To select HDT ATEX refer to performance curves or Easyvent.

Note electrical data may vary for ATEX motors. Alternative ATEX motors, if available, may be filled- please refer.

#### Additional information

Standard air direction: form (A) configuration (Motor over Impeller).

#### On request

Air direction: form (B) configuration (Impeller over Motor) only for 450 and 560 models.

#### Specific applications



# PLATE MOUNTED AXIAL FLOW FLAMEPROOF FANS

## HDT Series



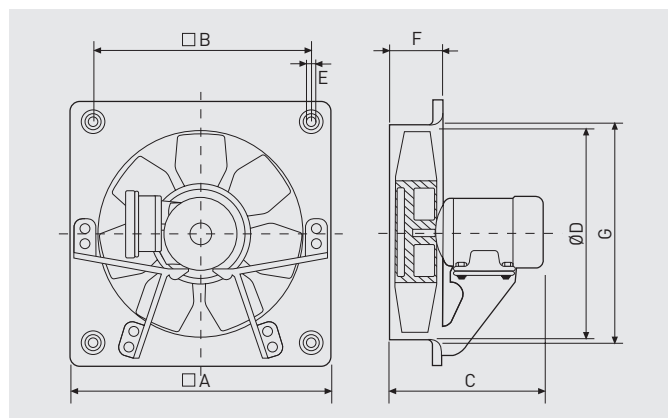
### TECHNICAL CHARACTERISTICS

Before making any electrical connection ensure that the voltage and frequency of the mains electrical supply matches that of the fan data plate label.

| Model              | Motor versions |       | Speed (rpm) | Diameter (mm) | Motor power (kW) | Maximum absorbed current (A) |       | Maximum airflow (m³/h) | Sound pressure level* (dB(A)) | Weight (kg) |
|--------------------|----------------|-------|-------------|---------------|------------------|------------------------------|-------|------------------------|-------------------------------|-------------|
|                    | IIB            | IIC   |             |               |                  | 230 V                        | 400 V |                        |                               |             |
| THREE PHASE 4 POLE |                |       |             |               |                  |                              |       |                        |                               |             |
| HDT/4-315 N-A      | IIBT4          | IICT4 | 1330        | 315           | 0,12             | 0,85                         | 0,49  | 2.240                  | 56                            | 9,5         |
| HDT/4-355          | IIBT4          | IICT4 | 1340        | 355           | 0,18             | 1,00                         | 0,57  | 3.120                  | 60                            | 11          |
| HDT/4-400          | IIBT4          | IICT4 | 1370        | 400           | 0,37             | 1,90                         | 1,08  | 4.780                  | 65                            | 15          |
| HDT/4-450          | IIBT4          | IICT4 | 1380        | 450           | 0,55             | 2,28                         | 1,32  | 8.000                  | 66                            | 20          |
| HDT/4-560          | IIBT4          | IICT4 | 1390        | 560           | 1,1              | 4,56                         | 2,61  | 13.700                 | 73                            | 29          |
| THREE PHASE 6 POLE |                |       |             |               |                  |                              |       |                        |                               |             |
| HDT/6-355          | IIBT4          | IICT4 | 900         | 355           | 0,18             | 1,42                         | 0,82  | 2.100                  | 52                            | 11          |
| HDT/6-400          | IIBT4          | IICT4 | 900         | 400           | 0,18             | 1,83                         | 1,05  | 3.140                  | 56                            | 15          |
| HDT/6-450          | IIBT4          | IICT4 | 900         | 450           | 0,25             | 2,62                         | 1,5   | 5.300                  | 58                            | 16          |
| HDT/6-560          | IIBT4          | IICT4 | 920         | 560           | 0,75             | 4,67                         | 2,7   | 9.300                  | 65                            | 29          |
| THREE PHASE 8 POLE |                |       |             |               |                  |                              |       |                        |                               |             |
| HDT/8-450          | IIBT4          | IICT4 | 670         | 450           | 0,12             | 1,27                         | 0,72  | 4.100                  | 52                            | 16          |
| HDT/8-560          | IIBT4          | IICT4 | 680         | 560           | 0,25             | 2,05                         | 1,18  | 7.250                  | 59                            | 20          |

\* Sound pressure level measured at 1,5 meters in free field conditions.

### DIMENSIONS (mm)



| Model         | A   | B   | C               |     |     | D   | E  | F   | G   |
|---------------|-----|-----|-----------------|-----|-----|-----|----|-----|-----|
|               |     |     | Number of poles |     |     |     |    |     |     |
|               |     |     | /4              | /6  | /8  |     |    |     |     |
| HDT/4-315 N-A | 400 | 330 | 323             | –   | –   | 315 | 10 | 85  | 329 |
| HDT/355       | 450 | 380 | 325             | 325 | –   | 355 | 10 | 87  | 371 |
| HDT/400       | 500 | 420 | 336             | 336 | –   | 400 | 10 | 90  | 422 |
| HDT/450       | 560 | 480 | 360             | 349 | 349 | 450 | 10 | 106 | 476 |
| HDT/560       | 710 | 630 | 435             | 435 | 368 | 560 | 10 | 112 | 596 |

### PERFORMANCE CURVES

- $q_v$ : Airflow in  $\text{m}^3/\text{h}$  and  $\text{m}^3/\text{s}$ .
- $p_{sf}$ : Static pressure in mmWG and Pa.
- Dry air at  $20^\circ\text{C}$  and 760 mmHg.
- Performance data in accordance with ISO 5801 and AMCA 210-99 Standards.

