

HT/EW-80-4T-3-IE3-VSD3-D



Roof-mounted axial extractor fans with a flat base, fitted with high-efficiency, electronically-adjustable, asynchronous IE3 motors

Fan:

- Painted, galvanised sheet steel support base.
- Fibreglass reinforced polyamide-6 rotors, except for 100 models, which have 4 poles in aluminium.
- Bird control grille.
- Rain cap made of painted galvanised sheet steel, with protection against corrosion.
- Airflow direction from motor to impeller.

Motor:

- New high-efficiency asynchronous AC motors (IE3).
- Fitted with durable ball bearings, IP55 protection.
- Three-phase 230/400 V-50 Hz (up to 4kW) and 400/690 V-50 Hz (powers higher than 4kW).
- Fan operating temperature: -25°C +60°C.

Electronic variable speed drive:

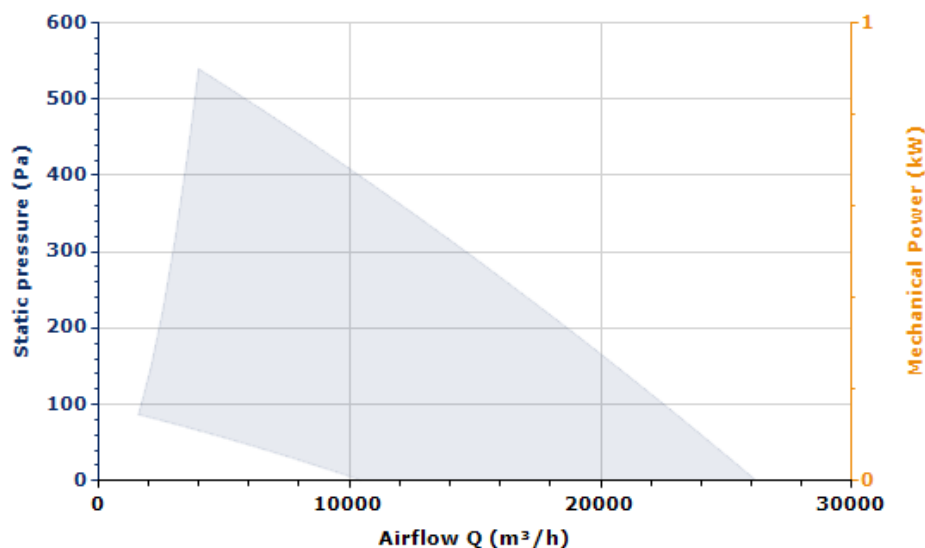
- Adjustable speed by 0-10 V signal or automatic PI control built into variable speed drive.
- Electronic variable speed drive highly configurable with 2 analogue inputs, 2 digital outputs, 1 relay output and a choice of 1 analogue or 1 digital output.
- Possibility of connection to MODBUS and CAN Open field buses.
- Electronic variable speed drive easy to install outside the operating zone thanks to its DIN rail it can be mounted in control blocks, thus minimising connections.
- Supplied pre-wired with shielded cable in accordance with the EMC 2014/30/ EU directive.
- Available with single-phase 220-240 V 50/60 Hz up to 3HP (VSD1/A-RFM type) or three-phase 380-415 V 50/60 Hz (VSD3/A-RFT type) inputs. Standard IP20 protection. IP66 protection up to 10HP on request.
- VSD operating temperature: -25°C +50°C.

On request:

- Option of supply in the form of DISCHARGE FANS.
- AL version rotors made of cast aluminium.



CHARACTERISTIC CURVE AT 1.2KG/M³



Design Point

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

Service Point (SP)

| | |
|------------------------|--|
| Q (m³/h) | |
| Ps (Pa) | |
| Pd (Pa) | |
| Pt (Pa) | |
| Impeller (rpm) | |
| Max. Temp. (°C) | |
| Outlet air speed (m/s) | |
| Mechanical Power (kW) | |

TECHNICAL CHARACTERISTICS

| | |
|------------------------|-------|
| Airflow maximum (m³/h) | 26205 |
| Speed (rpm) | 1435 |
| Approx. weight (kg) | 87.80 |

ERP

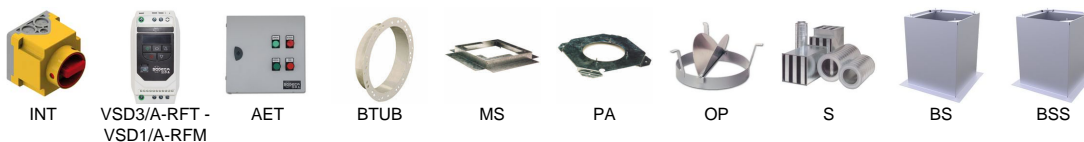
| | | | |
|---|--------------------------|---|----------------|
| Brand | SODECA, S.L.U. | Nominal external pressure (Pa) | 177 |
| Model | HT/EW-80-4T-3-IE3-VSD3-D | Static efficiency of fan according to EU 327/2011 (%) | 60.5% |
| Typology | NRVU / UVU | Filter energy performance | Not applicable |
| Drive type | Variable speed | Visual filter warning | Not applicable |
| HRS type | None | Website | www.sodeca.com |
| Nominal flow rate (m³/s) | 5.438 | ErP compliance | 2018 |
| Effective electric power input (kW) | 2.072 | | |
| Face velocity at design flow rate (m/s) | 10.82 | | |

MOTOR DATA

| | |
|-----------------------------|------|
| Rated Mechanical Power (kW) | 2.20 |
| Hz/phases | 50/3 |
| Motor VSD Max. (rpm) | 1435 |
| Motor VSD Min. (rpm) | 575 |
| Poles | 4P |
| Max. current (A) 380-415 V | 6.43 |
| Motor protection | IP55 |
| Motor frame size | 100 |

Data can change, please check motor plate

AVAILABLE ACCESSORIES



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

DIMENSIONS

| A | B | C | D | F | G | H | I |
|-----|-----|-----|----|------|------|------|----|
| 790 | 216 | 524 | 50 | 1252 | 1150 | 1000 | 14 |

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

