

EuroSeries (ESP)

Features & Benefits

- Die cast aluminium impellers
- Fully speed controllable
- Air Volumes up to 13.89m³/s
- Sizes 315 to 1000 dia protected to IP54
- Operating Temperatures from -40°C up to +70°C Motor
- Insulation Class F
- Thermal overload for motor protection
- Reversible - Supply or Extract
- Tough epoxy paint finish
- Quality Assurance to BS EN ISO 9001:1994
- Performance tested to ISO 5801



The new range of EuroSeries ESP axial blade plate fans, feature a single shot die cast aluminium blade and external rotor motor design.

The EuroSeries ESP range is available in eleven sizes with the extract performances up to 13.89m³/s, with pressure characteristics of up to 300Pa. All units are designed for speed controllable.

Impellers

All sizes shall be supplied with cast aluminium impellers, ensuring performance when working against outdoor conditions and abrasive airflow. Where fans are reversible for Intake a -30% drop in performance can be expected.

Motors

External rotor motors are specially designed and styled for this range of fan. Ball bearings shall be greased for life. Rotors are dynamically balanced to ISO 1940. Sizes 315-1000mm, motors are protected to IP54, against dust and moisture complying with BS EN 60529:1992. They shall be ribbed aluminium body castings for efficient cooling. Motor insulation is Class 'F' (from -40°C to +70°C).

Electrical

Single phase 220-240V 50Hz. Capacitor start and run. Three phase 380-415V 50Hz. An IP54 terminal box shall be supplied with 20mm and PGII entry. All motors shall be fitted with thermal overload protection which should be wired into all controller circuits and into starter contactors. Models are available with either 2,4,6 or 8 pole motors.

Terminal Box

Terminal Box to IP54 as standard, protected against dust water from any angle allowing outside applications.

Performance

The fan performance, shall be in accordance with tests to BS848 Part 1 1980.

Sound Levels

Fan sound levels, measured in a reverberant chamber in accordance with BS848 Part 2 1985. Published dB(A) figures are free field sound pressure levels at 3m with spherical propagation at a reference level of 2×10^{-5} Pa (20 micro-Pascal). The sound power level spectra figures are dB with reference level of 10^{-12} Watts (1 pico-watt). To ensure minimum noise levels during speed control, an auto transformer speed control is recommended.

Accessories

A full range of accessories:

- Electronic Speed Controllers
- Auto Transformer Speed Controllers
- D.O.L. Starters & Overloads
- Discharge Guards
- Louvre Shutters