

# Eurofoil (CA)

## Short Case Axial Fans



**Air Volumes up to 12.0m<sup>3</sup>/s**

**Sizes 250 to 800 protected to IP54.**

**Operating Temperatures from -40°C up to +70°C**

**Motor Insulation Class F**

**HOT SPOT Protection**

**IP54 Terminal Box**

**Tough epoxy paint finish**

**Quality Assurance to BS EN ISO 9001:1994**

**Performance tested to BS848 Part 1 1980**

The Eurofoil short cased axial fans, shall be as supplied from Roof Units, designed around a high performance aluminium impeller and efficient matched motor to ensure a compact, lightweight, short cased design. The units shall be constructed from sheet steel with the motor and impeller mounted within the casing length, ensuring excellent performance and sound levels.

The steel casing and flanges, shall be rolled from a single sheet of steel, protected by a tough fawn grey epoxy paint finish to RAL 7035, suitable for coastal environments. Motor mounting supports, shall be manufactured from steel rod, electro welded for strength epoxy paint finished.

Sizes 250 to 800, shall have finger guards available as optional accessories, giving protection to BS848 Part 5. All manufacturing of Eurofoil, shall be controlled to BS EN ISO 9001 Standards.

### Impellers

The impellers shall be aerodynamically designed, utilising computer technology combining the impeller with the motor. The motor and impeller shall be factory matched, statically and dynamically balanced on precision machines, to VDI 2060 Quality Class G.6.3. The aerodynamic blades and motor housing shall be of die cast aluminium.

### Motors

Sizes 250 to 800, shall be protected to IP54 against dust and water jets complying with BS EN 60529: 1992. With motor insulation Class F as a minimum, suitable for operating temperatures from -40°C to +70°C (Sizes 315 & 355, 2 pole, 50°C Max.)

The motors shall be wound to suit a 230V/1ph/50Hz or a 400V/3ph/50Hz electrical supply. 1 phase motors shall be permanent capacitor type to optimise efficiency. HOT SPOT protection, by means of a thermal contact switch incorporated within the windings, shall be provided to prevent motor damage due to overloading/overheating. Most models are suitable for

speed control by either electronic, voltage reduction or frequency inverter where permissible.

### Terminal Box

An IP54 terminal box, shall be supplied with all models from 250 to 800 mm, with 20 mm and PG11 entry, protected against dust and water jets from any angle ensuring suitability for external use.

### Eurofoil Form Of Running

Eurofoil short cased axial fans are to be supplied as standard for extract, with Form 'B' impellers, ensuring optimum performance. When used for intake and extract the fan can be wired for reverse running but a 30% (min.) reduction in performance will occur.

### Performance

The fan performance, shall be in accordance with tests to BS848 Part 1 1980, with the fan sound levels, measured in a reverberant chamber in accordance with BS848 Part 2 1985.

### Quality Assurance

Design and manufacture shall be in accordance with the standard for quality management systems BS EN ISO 9001:1994.

### Eurofoil Accessories

A full range of accessories are available with the Eurofoil short cased axial fans such as:

- Electronic Speed Controllers
- Auto Transformer Speed Controllers
- D.O.L. Starters
- Ancillary Packs consisting of: 4 Anti-Vibration Mounts, 2 Mounting Feet, 2 Matching Flanges and 2 Flexible Connections
- Mounting Feet
- Coupling Flanges
- Wire Guards
- Anti-Vibration Mounts
- Cased Attenuators with and without pods, 1 & 2 D in Length