

# VENT-AXIA SCEPTRE SLIM CASE AXIAL FANS (SMC)



- ✓ Die cast aluminium blades.
- ✓ Sizes 250 to 800 diameter.
- ✓ All motors protected to **IP65** except sizes 710 & 800 dia. which are protected to **IP55**.
- ✓ Motor Insulation Class 'F' -40°C to + 70°C.
- ✓ Standard Thermal Overload Protection (S.T.O.P.).
- ✓ **IP65** Terminal Box.
- ✓ Manufacture controlled to **BS EN ISO 9001**.
- ✓ Performance tested to **BS 848** Parts 1 & 2.
- ✓ **5 Year Guarantee**.

## SCEPTRE SLIM CASE AXIAL

Metal blade slim case axial fans are based on an integrated impeller and internal rotor motor design which produces a very compact unit. Together with the slim outer casing, the complete fan is both lightweight and shorter than most competitive products.

The casing is constructed from rolled steel plate, electro welded and protected with a tough, epoxy paint finish. Casing dimensions are to **DIN 24151** and flange dimensions are to **ISO 6580**. Manufacture is controlled to **BS EN ISO 9001**.

## IMPELLERS

The impellers are manufactured in die-cast aluminium and are fitted with narrow profiled blades, which provide the maximum efficiency at the maximum airflow.

## AXIAL MOTORS

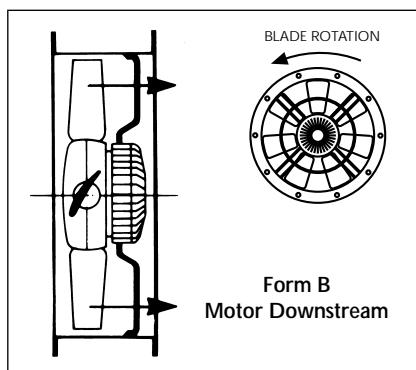
Specifically designed and styled for this range of fans. Ball bearings are greased for life and allow the fans to be installed at any angle. Rotors are dynamically balanced to **ISO 1940**. **Sizes 315-630dia motors are protected to IP65, Sizes 250, 710 and 800 are protected to IP55 against dust and water jets complying with BS EN 60529.** They have ribbed aluminium body castings for efficient cooling. **Motor insulation is Class 'F' (from -40°C to + 70°C).**

## ELECTRICAL

Single phase 220-240V/50 Hz. Capacitor start and run. Three phase

380V-415V/50Hz. Sizes 250-710 motors are fitted with **Standard Thermal Overload Protection (S.T.O.P.)**, which should be wired into all controller circuits and into starter contactors. Most models are available with 4 and 6 pole motors.

## FORM OF RUNNING



Metal blade slim cased fans have arrows showing the direction of impeller rotation and airflow. Ex-stock models are Form 'B' running. For reverse running the unit is turned through 180°. The airflow direction may be reversed by changing over the electrical connections in the fan, but the performance will be reduced by 30% (minimum).

## TERMINAL BOX

**IP65** terminal box is supplied with all models with 20mm and PG11 entry.

## PERFORMANCE

The fan performance is in accordance with tests to **BS 848** Part 1.

## SOUND LEVELS

Fan sound levels, measured in a reverberant chamber in accordance with **BS 848** Part 2. Published dB(A) figures are free field sound pressure levels at 3m with spherical propagation at a reference level of  $2 \times 10^{-6}$ Pa (20 micro-Pascal). The sound power level spectra figures are dB with a 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

### Axial Ancillary Pack

Consists of two coupling flanges, two flexible connectors, four worm drive clips, two mounting feet and four anti-vibration mounts. Available in all sizes.

### Case Axial Attenuators

Available in ten sizes. Can be mounted directly or via an axial ancillary pack to the slim cased fan. The attenuators can be fitted with a pod for higher attenuation. Insulation density 65kg/m<sup>3</sup>.

### Mounting Feet

Mild steel fabrication for easy mounting to suitable surfaces. Set of two feet per fan.

### Wire Inlet Guard

Available for direct fixing to the fan using flange fixing holes. Constructed to meet **BS 848** Part 5.

### Coupling Flange

Rolled from mild steel. Dimensionally matched to fan flange and fixing holes to **ISO 6580**.