The Short Case Axial Series has a light-weight but robust construction and is designed for ducted systems. They feature a galvanised steel casing with a polyester epoxy finish and are capable of operating in ambient temperatures ranging from -20 °C to +70 °C. There are 8 sizes in the range extending from 250 to 630mm diameter.

**Typical Applications**
Exhausting or supplying air in a wide range of commercial and industrial applications.

**Features**
- Compact, short case design.
- Light-weight but robust construction.
- Most motors fitted to the 415V/3-phase Short Case Axial Series are a 2-speed, star/delta design.
- An electric junction box is fitted as standard.
- When being speed controlled the maximum allowable ambient is 50 °C.
- Can be mounted in any position.
- An extensive range of matched ancillary equipment is available.

**Construction**
The casing is of galvanised steel with a polyester epoxy finish as standard. Impeller blades are of GRP. Aluminium blades are an optional extra.

**Motors**
Type: squirrel cage induction motor.
Electrical supply - 230V single-phase or 415V three-phase, 50Hz.
Bearings - sealed-for-life, ball.
Speed-controllable using electronic or auto-transformer controllers.
Enclosure IP55.
See pages O-3/4 for details of these motors.

**Internal Thermal Protection**
Integral thermal protection is supplied as standard.

**Testing**

**Wiring Diagram**
See pages N-6/7, diagram DD 4, 5, 6, & 7

**SUGGESTED SPECIFICATION**
The Short Case Axial Series shall be as supplied by Fantech Pty Ltd. The axial impellers shall be of GRP and driven by single-phase or three-phase motors with integral thermal protection. Casings shall be of galvanised steel construction with a polyester epoxy finish. All models shall be fully tested to ISO 5801: 2004 for air flow and BS848: Part 2, for noise.

**HOW TO ORDER**

<table>
<thead>
<tr>
<th>SC</th>
<th>Short Case</th>
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<tbody>
<tr>
<td>D</td>
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<tr>
<td>E</td>
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Fan diameter in cm
Fan speed no. of poles
HP - High Performance model

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**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Model</th>
<th>Fan. Speed rev/sec</th>
<th>Avg. dB(A) @ 3m</th>
<th>SCE.. 1 ph. kW</th>
<th>SCE.. 1 ph. Amps</th>
<th>SCE.. 3 ph. kW</th>
<th>SCE.. 3 ph. Amps</th>
<th>App. wt kg.</th>
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Electrical data in bold type denotes 2-speed star/delta motors are fitted. Amperages shown are a guide only. Refer to our Sales Department for accurate figures at time of order.

† Use auto transformer control only.

**ANCILLARY EQUIPMENT**

- CC - Circular Attenuator, Ref. H-16
- Vibration Isolators, Ref. I-1
- CMF - Matching Flange, Ref. J-4
- CFT - Mounting Feet, Ref. J-6
- CIC - Inlet Cone, Ref. J-7
- DG - Finger Guards, Ref. J-9
- Shutters, Ref. L-6/8
- VA - Speed controller, Ref. M-5
- SD - Star/Delta switch, Ref. M-7
- VZ - Run-on timer, Ref. M-14

**NOISE DATA**

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<tr>
<th>Model</th>
<th>In-duct Sound Power Levels L_wdB re 1pW (dB re 1μPa)</th>
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The In-Duct Sound Power Levels are for the Outlet Side of the fan. Inlet Side levels are generally 1-2dB lower. The levels are based on the fans operating at approximately 50% of peak pressure.

**DIMENSIONS**

- AØ: 254 305 314 382 421 466 515 567 636 709
- BØ*: 250 315 350 400 450 500 550 600 630 670
- C: 7 8 9 10 11 12 13 14 15 18
- D: 8 9 10 11 12 13 14 15 16 18
- EØ: 285 356 395 438 487 541 605 674
- F: 4 5 6 7 8 9 10 11 12 14

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions, mm</th>
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* Dimension B is internal for the casing.