Long Case Axial Fans (LCA)

- Motors protected to IP55
- Motor insulation Class ‘F’
- Maximum ambient temp. 54°C
- Speed controllable via transformer or inverter
- IP55 terminal box
- Adjustable factory set die cast aluminium impeller
- Suitable for relative humidity levels up to 95% RH
- Manufactured to BS EN ISO 9001
- Performance tested to BS 848 parts 1, 2 and ISO 5801
- 2 Year Guarantee

The Long Case Axial range of fans incorporates manually adjustable pitch impellers which provide a comprehensive range of duties offering high performance and pressure characteristics.

Available in thirteen sizes ranging from 250 to 1250mm diameter and performances from 0.24m³/s to 36m³/s with pressure development up to 1500Pa. The casing is constructed from rolled steel plate complete with flanges and protected with a tough, galvanised finish.

The Long Case Axial Fan range has a number of accessories available which include: Axial Ancillary Pack, Attenuators, Mounting Feet, Wire Inlet Guard, Coupling Flange and Speed Controllers.

Sound Levels
All measurements of the sound that the fans generate have been taken strictly in accordance with BS 848 part 2, test method 1. Published sound power level spectra figures are dBW with a reference of 10⁻¹² Watts [1 Pico watt].

Motors
The motors are specially selected for optimum performance and efficiency. Ball bearings are greased for life and allow the fan to be installed at any angle. Suitable for continuous operation in relative humidity up to 95% Motors 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 -35°C to +54°C). Star/delta starting is recommended for motor output above 7.5kW.

Axial Impellers
Impeller blades are clamped in a split cast aluminium hub, with a keywayed mild steel insert enabling positive locking of the impeller assembly to the motor shaft, this also allows manual adjustment of the pitch angle giving a wide selection of performance details.

Terminal Box
Rated to IP55, protected against dust and water jets from any angle, allowing outside applications.

Declaration of Conformity
All models are supplied with an EC Declaration of Conformity as defined by the EC Council Directive on Machinery 98/37/EC. This declares that all the models, on the basis of their design and construction in the form brought onto the market by Vent-Axia, are in accordance with the Machinery Directive.

Electrical
Single phase 220-240V 50 Hz permanent capacitor. Three phase 380-415V 50Hz. Protection of the motor must be provided by an overload current sensing device (eg. D.O.L Starter or Star/Delta starter where appropriate) or the guarantee will be invalidated. All models are available with 4 pole motors for 250 up to 1250mm diameter with additional 2 pole motors available from 250 up to 630mm diameter.

All units are manufactured to order with 10 working days delivery (UK mainland).
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Performance Curves

ICA25 · 1 & 3 Phase · 2 Pole

Performance Guide

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Sound Power Level Spectra dB (ref 10^12 Watts)

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Performance Curves

Performance Guide

Sound Power Level Spectra dB (ref 10^-12 Watts)
Performance Curves

LCA35 - 1 & 3 Phase - 2 Pole

Performance Guide

1 Phase 3 Phase
Dia. Stock Ref Stock Ref Poles rpm Rating Ref 0 100 200 300 400 500 kW @3m

355 LCA351210 LCA352210 2 2800 IP55 0 0.9 0.75 0.69 0.6 0.5 0.4 0.3 0.37 0.3 0.37 65
355 LCA351212 LCA352212 2 2800 IP55 0 0.9 0.75 0.69 0.6 0.5 0.4 0.3 0.37 0.3 0.37 65
355 LCA351214 LCA352214 2 2800 IP55 0 0.9 0.75 0.69 0.6 0.5 0.4 0.3 0.37 0.3 0.37 65
355 LCA351216 LCA352216 2 2800 IP55 0 0.9 0.75 0.69 0.6 0.5 0.4 0.3 0.37 0.3 0.37 65
355 LCA351218 LCA352218 2 2800 IP55 0 1.0 1.0 0.84 0.68 0.52 0.35 0.18 0.37 65
355 LCA351220 LCA352220 2 2800 IP55 0 1.1 1.1 1.0 0.84 0.68 0.52 0.35 0.18 0.37 65
355 LCA351222 LCA352222 2 2800 IP55 0 1.2 1.2 1.0 0.84 0.68 0.52 0.35 0.18 0.37 65
355 LCA351224 LCA352224 2 2800 IP55 0 1.3 1.3 1.0 0.84 0.68 0.52 0.35 0.18 0.37 65
355 LCA351226 LCA352226 2 2800 IP55 0 1.4 1.4 1.0 0.84 0.68 0.52 0.35 0.18 0.37 65
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355 LCA351230 LCA352230 2 2800 IP55 0 1.6 1.6 1.0 0.84 0.68 0.52 0.35 0.18 0.37 65
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Sound Power Level Spectra dB (ref 10^-12 Watts)

1 Phase 3 Phase
Dia. Stock Ref Stock Ref Poles Spectrum 63 125 250 500 1k 2k 4k 8k dBA @ 3m

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355 LCA351222 LCA352222 2 Inlet/Outlet 84 83 83 80 82 81 77 77 69 66 65
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355 LCA351228 LCA352228 2 Inlet/Outlet 86 85 85 80 82 81 77 77 69 66 65
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Performance Curves
ICA40 - 1 & 3 Phase - 2 Pole

Performance Guide

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Sound Power Level Spectra dB (ref 10⁻¹² Watts)

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### Performance Curves

**ICA45 - 3 Phase - 2 Pole**

![Graph showing performance curves with static pressure on the y-axis and air volume on the x-axis.](image)

### Performance Guide

| Dia. | Stock Ref | Poles | rpm | Rating | Ref | D | 100 | 200 | 300 | 400 | 500 | 600 | 700 | kW | @3m |
|------|-----------|-------|-----|--------|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|
| 450  | LCA453210 | 2     | 2880| IP55   | 10  | 1.72| 1.62| 1.51| 1.37| 1.17| 0.89| 0.56| 0.25| 11 | 74  |
| 450  | LCA453212 | 2     | 2880| IP55   | 10  | 1.89| 1.79| 1.68| 1.54| 1.34| 1.08| 0.73| 0.37| 11 | 73  |
| 450  | LCA453214 | 2     | 2880| IP55   | 10  | 2.08| 1.97| 1.85| 1.7 | 1.51| 1.26| 0.9  | 0.5 | 1.5 | 72  |
| 450  | LCA453216 | 2     | 2880| IP55   | 10  | 2.27| 2.16| 2.03| 1.88| 1.69| 1.43| 1.5  | 71  |
| 450  | LCA453218 | 2     | 2880| IP55   | 10  | 2.47| 2.33| 2.21| 2.05| 1.86| 1.59| 1.2  | 1.5 | 70  |
| 450  | LCA453220 | 2     | 2880| IP55   | 10  | 2.65| 2.53| 2.38| 2.21| 2.01| 1.74| 1.35| 2.2 | 70  |
| 450  | LCA453222 | 2     | 2880| IP55   | 10  | 2.83| 2.69| 2.53| 2.35| 2.14| 1.87| 1.49| 2.2 | 70  |
| 450  | LCA453224 | 2     | 2880| IP55   | 10  | 2.99| 2.84| 2.67| 2.48| 2.26| 1.99| 1.62| 2.2 | 70  |
| 450  | LCA453226 | 2     | 2880| IP55   | 10  | 3.13| 2.99| 2.82| 2.61| 2.38| 2.11| 1.73| 2.2 | 70  |
| 450  | LCA453228 | 2     | 2880| IP55   | 10  | 3.32| 3.15| 2.96| 2.75| 2.51| 2.23| 1.86 | 3  | 70  |
| 450  | LCA453230 | 2     | 2880| IP55   | 10  | 3.49| 3.31| 3.11| 2.89| 2.64| 2.35| 1.97 | 3  | 70  |
| 450  | LCA453232 | 2     | 2880| IP55   | 10  | 3.65| 3.43| 3.24| 3.01| 2.74| 2.44| 2.08 | 3  | 70  |

### Sound Power Level Spectra dB (ref 10^-12 Watts)

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### Performance Curves

#### LCA50 - 3 Phase - 2 Pole

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### Performance Curve

#### LCA56 - 3 Phase - 2 Pole

![Graph of Performance Curve](image)

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### Performance Curve

- **Static Pressure (Pa)**
- **Air Volume (m³/s)**

### Performance Guide

- **1 Phase**
- **3 Phase**
- **Poles**
- **Rating**
- **Reference**
- **Motor dBA**
### Performance Curve

![Graph showing performance curve for LCA45 1 & 3 Phase - 4 Pole motor](image)

### Performance Guide

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Performance Curve

Performance Guide

Sound Power Level Spectra dB (ref 10^{-12} Watts)
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### Performance Curve

**LCA71 - 3 Phase - 4 Pole**

![Performance Curve Diagram]

### Performance Guide

#### 3 Phase

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Performance Curve

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1000 LCA1003416 4 1440 IP55 10.02 9.17 8.06 6.48 5.5 89
1000 LCA1003418 4 1440 IP55 11.23 10.3 9.15 7.51 7.5 89
1000 LCA1003420 4 1440 IP55 12.4 11.41 10.2 8.5 7.5 89
1000 LCA1003422 4 1440 IP55 13.51 12.47 11.22 9.49 7.5 89
1000 LCA1003424 4 1440 IP55 14.53 13.5 12.23 10.49 11 89
1000 LCA1003426 4 1440 IP55 15.45 14.47 13.23 11.53 11 89
1000 LCA1003428 4 1440 IP55 16.33 15.41 14.24 12.6 15 89
1000 LCA1003430 4 1440 IP55 17.31 16.4 15.24 13.6 15 89
1000 LCA1003432 4 1440 IP55 18.48 17.47 16.21 14.48 15 89
1000 LCA1003434 4 1440 IP55 19.74 18.58 17.15 15.26 18.5 89
1000 LCA1003436 4 1440 IP55 20.93 19.64 18.07 16 18.5 89
1000 LCA1003438 4 1440 IP55 22.01 20.64 18.98 16.71 18.5 89
1000 LCA1003440 4 1440 IP55 23.03 21.6 19.87 17.41 22 89

Performance Guide

3 Phase Stock Ref Poles Spectrum 63 125 250 500 1k 2k 4k 8k dBA @3m
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1000 LCA1003438 4 Integral/Outlet 99 94 101 106 106 106 102 97 89 89
1000 LCA1003440 4 Integral/Outlet 99 94 101 106 106 106 102 97 89 89

Sound Power Level Spectra dB (ref 10^-12 Watts)

Dia. Stock Ref Poles Spectrum 125 250 500 1k 2k 4k 8k dBA @3m
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1000 LCA1003412 4 Integral/Outlet 99 94 101 106 106 106 102 97 89 89
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1000 LCA1003440 4 Integral/Outlet 99 94 101 106 106 106 102 97 89 89
Performance Curve

Performance Guide

Sound Power Level Spectra dB (ref 10^{12} Watts)
## Electrical Details

### Speed Controllers

Used in conjunction with speed controllable fans, Vent-Axia offers a choice of speed controllers, the traditional Five-Step Auto Transformer or the Inverter Speed Controller.

#### Five-Step-Auto Transformer

Provides five stepped speed settings without the electronic motor harmonic noise associated with all electronic or solid state type Speed Controllers.

#### eDemand Speed Controllers & Inverters

See Accessories & Controllers Section.

### 1 Phase 2 Pole

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<th>S.C. Amps</th>
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<th>Overload Ref</th>
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*1 phase 2 pole is not speed controllable

### 3 Phase 2 Pole

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*1 phase 2 pole is not speed controllable

### Speed Controllers

Used in conjunction with speed controllable fans Vent-Axia offers a choice of speed controllers, the traditional Five-Step Auto Transformer or the Inverter Speed Controller.

The Five-Step-Auto Transformer provides five stepped speed settings without the electronic motor harmonic noise associated with all electronic or solid state type Speed Controllers.

eDemand Speed Controllers & Inverters see Accessories & Controllers Section.
Speed Controllers

Used in conjunction with speed controllable fans Vent-Axia offers a choice of speed controllers, the traditional Five-Step Auto Transformer or the Inverter Speed Controller.

The Five-Step-Auto Transformer provides five stepped speed settings without the electronic motor harmonic noise associated with all electronic or solid state type Speed Controllers.

eDemand Speed Controllers & Inverters see Accessories and Controls Section.

### Electrical Details

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Fan Attenuator Details
An attenuator without Pod offers negligible resistance to air flow, and therefore the pressure loss can be considered to be the same as that for the equivalent length of ducting.

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Melinex lined attenuators are available on request.

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Accessory Dimensions (mm)

Coupling Flange
Rolled from mild steel. Dimensionally matched to fan flange and fixing holes.

\[
\text{Inlet Wire Guard}
\]

\[K\] factor loss 0.25
Available for direct fixing to either side of the fan using flange sizing holes. Constructed to meet BS 848 Part 5.

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Anti-Vibration Mounts

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\[*\text{Stock Ref} A B C D E F G H kg\]

Max. Load

\[*\text{supplied as a set of 4.}\]

Inlet Wire Guard

\[K\] factor loss 0.25
Available for direct fixing to either side of the fan using flange sizing holes. Constructed to meet BS 848 Part 5.

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For more information on the \(K\) factor, refer to General Information Section

Mounting Feet

\[*\text{Set of 2 feet}\]

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*Supplied as a set of 4.

*Set of 2 feet
## Accessories

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*consists of 2 Matching Flanges, 2 Flexible Connectors, 2 Mounting Feet, 4 Ant Vibration Mounts, 4 Worm Drive Clips

### Typical Installation

- Vent-Axia attenuator
  - length = 1 1/2 x duct dia.
- Pod available for extra attenuation
- Class ‘F’ motor insulation as standard
- Motors and Terminal Box protected to IP55 against dust and water jets

*Cased axial ancillary pack consists of 2 matching flanges, 2 flexible connections, 2 mounting feet, 4 anti vibration mounts and 4 worm drive clips