

VENT-AXIA TWO SPEED AXIAL FANS (LCT)



- ✓ 2 speed dual or tap wound motors 4/6 or 2/4 pole available.
- ✓ Motors protected to **IP55**.
- ✓ Motor insulation Class 'F'.
- ✓ Maximum ambient temp. 54°C.
- ✓ **IP55** terminal box.
- ✓ Adjustable factory set die cast aluminium impeller.
- ✓ Suitable for relative humidity levels up to 95% R.H.
- ✓ Manufactured to **BS EN ISO 9001**.
- ✓ Performance tested to **BS 848 parts 1, 2 and ISO 5801**.

The Two Speed Axial Fan range incorporates factory adjusted pitch impellers which provide a comprehensive range of duties offering high performance and pressure characteristics. Available in twelve sizes ranging from 315 to 1250mm diameter and performances up to 38m³/s (136,800m³/h) with pressure development up to 1100Pa. The casing is constructed from rolled steel plate complete with flanges and protected with a tough, galvanised finish.

A range of accessories available which include: Axial Ancillary Pack, Cased Axial Attenuator, Mounting Feet, Wire Inlet Guard, Coupling Flange and Speed Controllers.

MOTORS

The motors are two speed dual or tap wound, 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 4kW.

MOTOR SUPPORT ARMS

Motors are mounted by means of specially designed support arms which act as an air straightener to help minimise turbulence and maximise performance, whilst ensuring quiet operation.

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

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 89/392/EEC. 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. Capacitor start and run. 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 315 up to 1250mm with additional 2 pole motors available from 315 up to 630mm.

PERFORMANCE

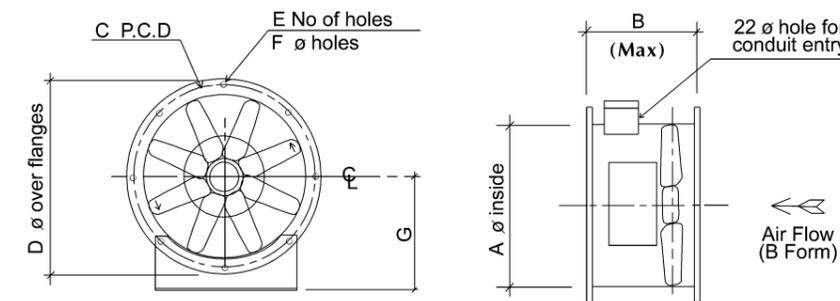
The fan performance is in accordance with tests to **BS 848** Part 1.

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).

TWO SPEED AXIAL FANS DIMENSIONS (mm)

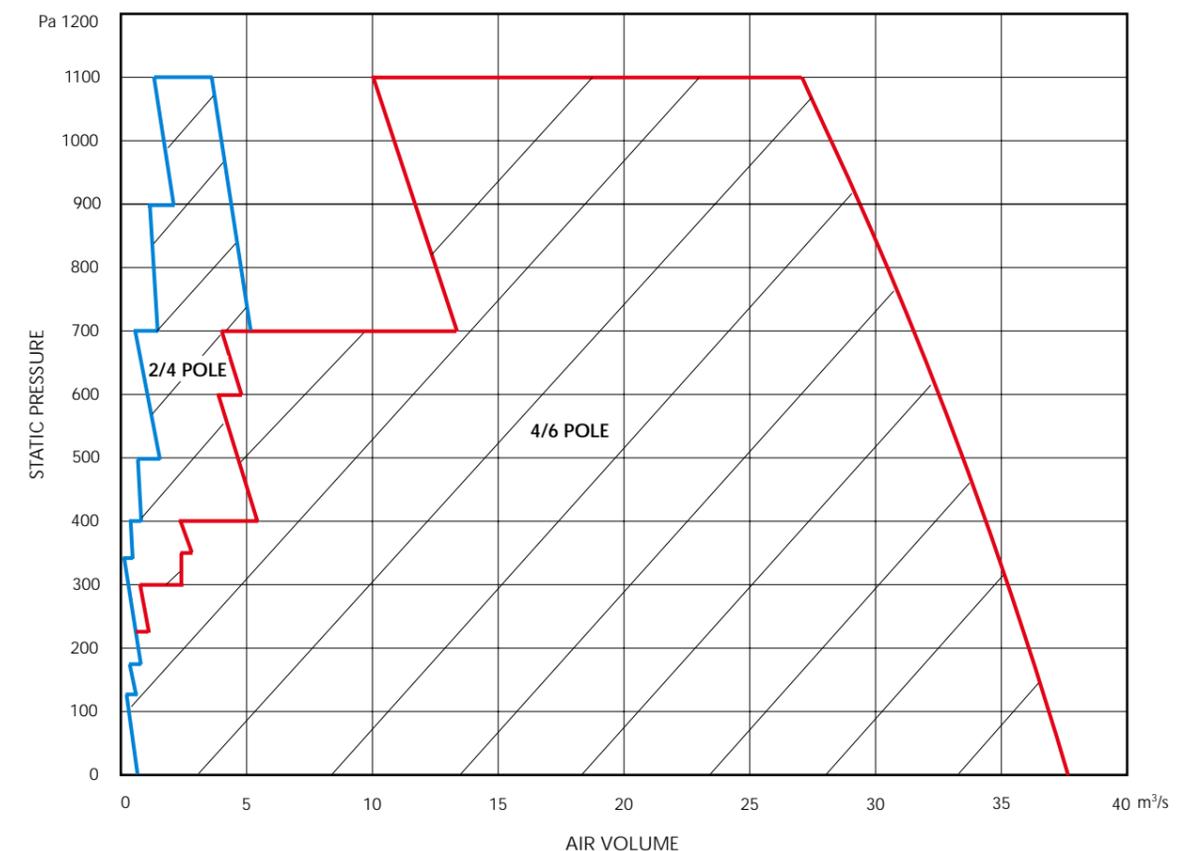
DIMENSIONS (mm)



Stock Ref. No.	A	B (Max)	C	D	E	F	G
LCT315	315	420	355	385	8	10	224
LCT350	355	420	395	425	8	10	250
LCT400	400	435	450	480	8	12	280
LCT450	450	435	500	530	8	12	315
LCT500	500	565	560	590	12	12	315
LCT560	560	565	620	650	12	12	355
LCT630	630	565	690	720	12	12	400
LCT710	710	470	770	800	16	12	410
LCT800	800	565	860	890	16	12	450
LCT900	900	700	970	1038	16	14	500
LCT1000	1000	790	1070	1138	16	14	555
LCT1250	1250	1100	1320	1390	20	15	868

NOTE
Dimension 'B' will be confirmed on receipt of your enquiry

PERFORMANCE RANGE



Full selection and technical data will be confirmed on receipt of your enquiry