



Vortair

The quiet achiever

The energy saving **Vortair** in-line fans produce powerful air flows without generating high noise levels. The range features a heavy duty galvanised steel construction and an innovative mixed flow impeller with highly efficient blade geometry.



Powerful air flows without the high noise levels

The unique design of Vortair combines a heavy duty axial style fan case with a cutting edge mixed flow impeller. It has virtually no air redirecting losses and as a result produces a more efficient air flow. The fully optimised and compact design of Vortair creates high airflow rates without increasing noise levels. This can often result in smaller fan sizes meeting the required performance.

Highly efficient design minimises energy usage

Greenhouse gas emissions and the high cost of energy are a growing concern, particularly to building owners and tenants. Consequently, architects, engineers and developers are constantly searching for ways to reduce the running costs of a building without compromising the comfort and productivity of building occupants.

The innovative impeller design of Vortair produces up to 30% more air flow than standard Fantech PowerLine models with the same impeller size. Therefore a smaller size Vortair that consumes less energy and produces less noise could meet the required specification and be installed as a viable alternative.



Choice of AC and Energy Efficient EC motors

The Vortair is available in an AC configuration, or can be fitted with an EC motor for further savings in running costs.

Vortair with EC motors feature fully integrated, infinitely variable speed control which eliminates the need for external VSDs, current overloads and motor phase protection. Optional matching sensors monitor the ambient conditions and provide real time feedback to the fan. The fan's on-board microprocessor then adjusts its speed and therefore modulates the ventilation rate to match the specific requirements of the area.

Features

- Produces powerful air flows without generating high noise levels
- Innovative mixed flow impeller with high performance blade geometry
- Available with either AC and EC motors
- Available in 6 impeller sizes ranging from 250 to 450mm diameters (400 to 710mm case diameters)
- Heavy duty galvanised steel construction
- Can be retrofitted into standard 400 to 710mm axial fan installations
- EC models can run as an independent ventilation source or integrated into most building management systems.



Innovative mixed flow impeller design



Available with AC and EC motors

Intelligent controllers

The Vortair range can utilise the easy to use **Aviator controllers** to better manage a ventilation system. Aviator takes advantage of the latest digital technology to ensure it can be tailored to suit the requirements of any application.



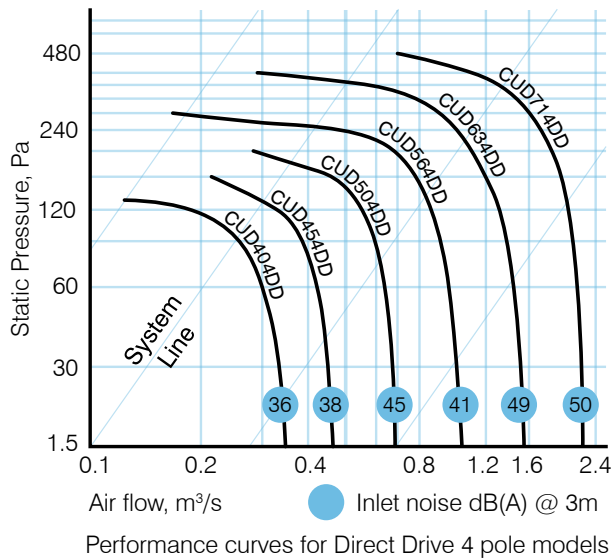
The **Aviator Touch PRO** features an intuitive graphic interface, and can control up to 10 fans and be connected to 2 Sensors. This flexible controller can be factory pre-configured to operate each Vortair fan individually or help drive a Demand Control Ventilation system. It features a run to end timer and a 7 day scheduler that enables the set up of operational periods.



More air flow without producing higher noise levels



Performance Curve



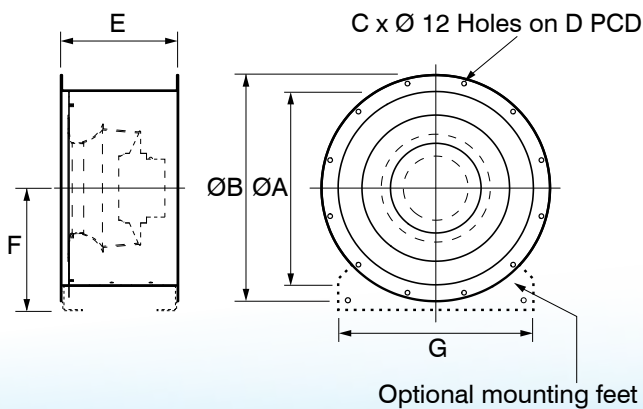
Matching Fantech Ancillaries



Tested to the latest Standards

Air flow tests based on ISO 5801:2007 **Noise tests** based on ISO13347: Part 3, 2004

Dimensional Drawings



Model CUD.. CUE..	ØA	ØB	C	D	Direct Drive Motor	External Rotor Motor	F	G	App. wt. Kg#
					E*	E**			
404.	400	485	8	450	450	300	250	400	41
454.	450	535	8	500	450	300	280	450	43
EC45					-	300			
504.	500	585	12	560	450	300	315	500	45
506.					600	300			
508.					-	300			
EC50					-	300			
564.	560	645	12	620	450	300	355	560	51
566.					600	300			
568.					-	300			
EC56					-	300			
634.	630	715	12	690	600	400	400	630	57
636.					600	400			
638.					-	400			
EC63.					-	400			
714.	710	795	16	770	600	400	450	710	66
716.					600	400			
718.					-	400			
EC71					-	400			

* Fan with direct-drive motor - DD

Dimensions in mm

** Fan with AC or EC external rotor motor

Weight for fan with direct-drive motor only except where there is only external rotor motors available.

Please note:

Direct-drive fans are 3-Phase only.

External rotor motors: 1-Phase all case sizes, 3-Phase from 500mm and above. EC from 450.



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Specifications and design subject to change without notice.