

The energy saving **Vortair Uitra** 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 Ultra 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 Ultra creates high air flow 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 Ultra produces up to 30% more air flow than standard Elta Fans PowerLine models with the same impeller size. Therefore a smaller size Vortair Ultra 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

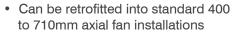
The Vortair Ultra is available in an AC configuration, or can be fitted with an EC motor for further savings in running costs.

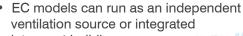
Vortair Ultra with EC motors feature fully integrated, infinitely variable speed control which eliminates the need for external VSDs, current overloads and motor phase protection. Optional matching sensors monitor the ambient conditions and provide real time feedback to the fan. The fan's on-board microprocessor 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)





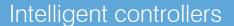












The Vortair Ultra range can utilise the easy to use **Aviator controllers** to better manage a ventilation system. Aviator takes advantage of the latest digital technology to ensure it can be tailored to suit the requirements of any application.



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 Ultra 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.

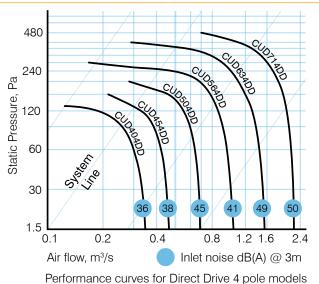


The **Aviator Touch** is designed to control up to 4 fans individually or in a single group. It can turn each fan on and off, alter fan speed and set run time.

Aviator controllers use the Elta Fans ComLink system (RS485) to connect the controller, Vortair Ultra fans and sensors together. This intelligent system provides reliable communication between devices, significant installation cost savings and a higher level of system monitoring and adjustment.

More air flow without producing higher noise levels

Performance Curve



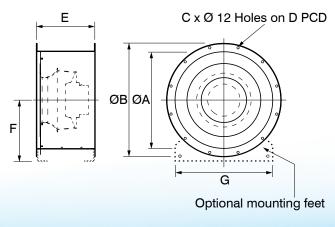
Matching Elta Fans Ancillaries



Tested to the latest Standards

Air flow tests to ISO 5801:2007 Noise tests to ISO 3744:2010

Dimensional Drawings



| Model CUD CUE | ØA | ØВ | С | 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 | | | | | - | | | | |
| 504. | 500 | 585 | 12 | 560 | 450 | 300 | 315 | 500 | 45 |
| 506. | | | | | 600 | | | | |
| 508. | | | | | - | | | | |
| EC50 | | | | | - | | | | |
| 564. | 560 | 645 | 12 | 620 | 450 | 300 | 355 | 560 | 51 |
| 566. | | | | | 600 | | | | |
| 568. | | | | | - | | | | |
| EC56 | | | | | - | | | | |
| 634. | | 715 | 12 | 690 | 600 | 400 | 400 | 630 | 57 |
| 636. | 630 | | | | 600 | | | | |
| 638. | 030 | | | | - | | | | |
| EC63. | | | | | - | | | | |
| 714. | 710 | 795 | 16 | 770 | 600 | 400 | 450 | 710 | 66 |
| 716. | | | | | 600 | | | | |
| 718. | | | | | - | | | | |
| EC71 | | | | | - | | | | |
| Dimensions in mo | | | | | | | | | |

Dimensions in mm

- * Fan with direct-drive motor DD
- ** Fan with AC or EC external rotor motor
- # Weight for fan with direct-drive motor only

Please note:

Direct-drive fans are 3-Phase only.

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

Elta Fans Malaysia Sdn Bhd (714973-T)

No. 147, Jalan TUDM Kampung

Baru Subang, 40150 Shah Alam, Selangor West Malaysia, Malaysia

Tel: +603 7846 0340 **Fax:** +603 7842 1132

Email: info@eltafans.asia

AN0096 04/1