The Sentinel twin in-line duct fans are as supplied from Vent-Axia Ltd. Manufactured from Aluzinc, Sentinel fan units are internally treated with an ‘O’ class rated, BS476 part 6 & 7, acoustic foam which offers the benefits of high sound absorption, good thermal insulation properties in addition to self-extinguishing properties and resistant to ignition. Weatherproof external units incorporate an additional controller shroud. The housing is designed to be as compact as possible for concealed false ceiling applications and Sentinel casings are specially designed to allow the unit to be mounted via its unique mounting bracket, ensuring a quick and easy solution to installation. The unit is suitable for ceiling or floor mounting, non-return dampers can be easily rotated on site to suit.

Impellers
All Sentinel units feature a low energy, Class 1, EC/DC external rotor motor and backward curved impeller assembly specifically chosen for performance and non-overloading characteristics. The assembly is dynamically balanced to DIN ISO 1940 Grade 6.3, duct size 500mm rated IP54, all other sizes IP44 according to BS EN 60529. Ball bearings are greased for life. Insulation is Class ‘B’ (from -25°C to +60°C).

All models incorporate internal electronic overload protection and soft start function.

Electrical
Every Sentinel unit is fitted with a purpose designed common PCB controller incorporating a 16-character backlit alphanumerical x 2 line display with 4 button membrane keypad for fan status & commissioning set up. The enclosure is fitted with a 4-pole 10A isolator that is suitable for fitting a locking device to prevent accidental operation.

The twin unit controller features automatic 6hr duty/share and run/standby in the event of motor failure. Motors are single phase 230V +/- 10% / 50/60Hz / 1ph (size 100-400mm) or 400V +/- 10% / 50/60Hz / 3ph (size 500mm), (4 wire systems only).

24V DC power is provided from the controller for powering the matched range of Sentinel switches and sensors.

Performance/Sound
Extensively tested to BS848 parts 1 & 2. Published dB(A) figures are free field sound pressure levels at 3m with spherical propagation at reference level of 2x10^-5 Pa. The inlet/outlet sound power level spectra figures are dB with a reference of 10^-12 Watts.

Accessories
For duct accessories see Ducting and Fitting Section.
### Fan Dimensions (mm)

![Fan Dimensions Diagram]

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<thead>
<tr>
<th>Model</th>
<th>Pressure Model</th>
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### Accessories

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*For alternative attenuator lengths, refer to Accessories and Controllers section*
Performance Guide

### Sentinel 125 Twin Fan

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Performance Guide

Sentinel 200 Twin Fan

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### Performance Guide

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*Vent-Axia*
Sentinel 315 Twin Fan

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### Performance Guide

**Sentinel 400 Twin Fan**

**Airflow, m³/s @ Pa**

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**Sound Data**

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        - 50: 63, 125, 250, 500, 1k, 2k, 4k, 8k dB(A) @ 3m
        - 80: 63, 125, 250, 500, 1k, 2k, 4k, 8k dB(A) @ 3m
        - 100: 63, 125, 250, 500, 1k, 2k, 4k, 8k dB(A) @ 3m

**Vent-Axia**
### Sentinel 500 Twin Fan

#### Performance Guide

![Graph showing performance data for Sentinel 500 Twin Fan](graph.png)

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