General Controllers

**Trickle Boost Switch**
A single gang switch to boost from high to low speeds on all heat recovery systems.
85 x 85 x 10mm (H x W x D)
Stock Ref: 45 52 13

**2-Way Switch + Neons**
A double gang switch to boost from high to low speeds on all heat recovery systems, incorporating neon lights to indicate speed settings.
85 x 145 x 10mm (H x W x D).
Stock Ref: 45 97 46

**150VA Transformer**
Surface Mounting Transformer with six voltage selections for trickle settings to match dwelling volume. Provides Boost/Trickle ventilation when used with humidity sensors or a manual switch.
95 x 225 x 75mm (H x W x D)
Stock Ref: 56 35 38

**VCON77**
Surface mounted Transformer with multiple voltage settings for optimum speed control of the HR400 heat recovery unit.
Provides five trickle settings to match various dwelling sizes when interfaced with either a manual switch or automatic sensors. Boost speed available of full speed only (240V)
95 x 218 x 75mm (H x W x D)
Stock Ref: 37 03 57

**3 Speed Controller**
A three position rotary control which enables the unit to be manually switched from permanent trickle ventilation to either medium or boost speed.
85 x 85 x 25mm (H x W x D)
85 x 85 x 37mm (H x W x D)
Stock Ref: 56 35 33

**VCON6**
Surface or flush mounted manual speed controller, provides on/off together with low, normal and boost speeds with speed interface.
85 x 145 x 30mm (H x W x D)
85 x 145 x 40mm (H x W x D)
Stock Ref: 37 03 56

**Electronic 1.5A Controller**
Surface mounting. It will provide infinitely variable speed control and features an On/OFF/sensor slider with neon indicator. There is an adjustable minimum speed setting. The controller is radio suppressed to BS EN 55014 and electrical connections for use with suitable external sensors are provided.
86 x 156 x 53mm (H x W x D).
For flush fitting a metal wall box accessory is available. Hole for wall box: 80 x 150 x 150mm (H x W x D)
Stock Ref: W 30 03 10

**5 Step Auto Controller**
Used in conjunction with speed controllable fans to provide 5 stepped speed without electronic motor 'hum'. Several fans can be connected to one transformer provided their combined load does not exceed the controller rating.
Single phase: 3.0, 5.0 and 7.5amp. Rotary switch giving On/Off, sensor slider with neon indicator
85 x 145 x 30mm (H x W x D)
85 x 145 x 40mm (H x W x D)
Stock Ref: 37 03 56
Humidity sensors should be sited approx. 100mm below ceiling level and not above cupboards, refer to sitting details in fitting and wiring instructions supplied with product.

All of these Sensors can be wired for either On/Off or Trickle/Boost operation.

General Sensors

- **Ambient Response Humidity Sensor**
  - Pulcordon override and neon indicator.
  - Changeover relay switch.
  - Operating range: 30%-90%RH operating range.
  - Ambient operating temperature +5°C to +40°C.
  - DEMKO Approved.
  - Dimensions: Controller only: 87 x 87 x 33mm
  - Will fit single gang box for surface mounting.

- **Electronic Humidity Sensor**
  - Setting range 65% - 90%RH.
  - Maximum switching load 1 amp inductive.
  - Pulcordon override indicated by lamp.
  - Ambient operating temperature 0°C to +40°C.
  - BEAB Approved.
  - Dimensions: 87 x 87 x 33mm.
  - Supply voltage 220-240V/1/50Hz.

- **Vent-Axia ThermoSwitch**
  - Setting range: +6°C to +30°C.
  - Two internal range limit/blocking rings are included to allow setting within a limited temperature range or locking at a fixed set-point.
  - IP20 rated.
  - Sealed sensing mechanism.
  - Snap-action, single pole, changeover contacts.
  - Mounting direct on surface only.
  - Dimensions: 80 x 104 x 36mm (H x W x D).
  - Contact rating 1.5amp (inductive).
  - Maximum voltage 250V

- **Vent-Axia HumidiSwitch**
  - Concealed adjustment.
  - Setting range 20% to 80% RH.
  - Ambient 0°C to +50°C.
  - 132 x 82 x 40mm (L x H x D).
  - Rating 2A (1A inductive).
  - Switching range 120-240V.
  - Designed for use with controllers with "Auto" mode connections. Incorporates changeover switch to select low/high speed.
  - Dimension: 87 x 87 x 33mm.
  - Supply voltage 220-240V/150Hz.

- **Overrun Timer**
  - Changeover relay switch.
  - Adjustable overrun 2-30 mins.
  - Surface box supplied.
  - Dimensions: 76 x 76 x 41mm.
  - Adjustable overrun 2-30 mins. Ideal for where fans are to be controlled in conjunction with a lighting circuit or activated by remote sensors.

- **TimeSpan Controller**
  - Fits to any single gang box.
  - Adjustable time delay 5-25 minutes from the back.
  - Ambient operating temperature range 0°C to +40°C.
  - Maximum load 250W inductive.
  - BEAB Approved.
  - Dimensions Controller only: 87 x 87 x 33mm.
  - Supply voltage 220-240V/150Hz.

Contact rating 1.5amp (inductive). Maximum voltage 250V

The ThermoSwitch can be used with all Vent-Axia fans (via switchgear if appropriate) for the removal of warm air from buildings. It can also be used to switch on a Hi-Line ceiling fans for Summer cooling and to move high level warm air down to the working level during W inter.

Vent-Axia fans ventilating W.C's and other small rooms.

For use with any Vent-Axia fan within maximum rating below. The fan is switched on with the light and keeps running for a pre-set period after the light is switched off. A surface mounting back box is available Stock Ref: 41 00 20

Paint and paper condensation.

Vent-Axia fans can be used to control damaging effects of condensation.
### General Sensors

#### Air Quality Sensor
- **Features and Benefits**
  - Ambient operating temperature range: 0°C to +50°C.
  - Dimensions: 87 x 157 x 47mm (H x W x D).
  - Surface mounted.
  - Maximum switched load: 2A inductive. 2A resistive at 240V.
  - Sensor consumption: 25mA at 240V.
  - Designed to meet IP43.
  - Range of detection up to 10 metres.
  - Designed to be used with any UK single gang mounting box.
  - Surface mounted.
  - For applications where regular switching is required at fixed periods or at different times on different days of the week, eg offices, shops, pubs and restaurants.

**Stock Ref:** 56 35 068

#### Vent-Axia Visionex PIR
- **Features and Benefits**
  - Fits any UK single gang mounting box.
  - Adjustable timer overrun (5-25 minutes).
  - Range of detection up to 10 metres.
  - Designed to meet IP43.
  - Ambient operating temperature range: 0°C to +50°C.
  - Maximum load: 600W inductive. Not suitable for use with lighting.
  - Internal use only.
  - No switched live required for internal rooms and toilets.
  - Supply voltage 220-240V/1/50Hz.

**Stock Ref:** 45 96 23

#### 7 Day TimeSwitch
- **Features and Benefits**
  - Analogue clock display and integral time switches for ease of setting.
  - Manual override.
  - Removable clear plastic cover protects timeswitch face.
  - Time base: 7 days.
  - Shortest switching time: 2 hours.
  - Maximum load: 16amp resistive (Bamp inductive).
  - Ambient operating temperature range: -20°C to +85°C.
  - Dimensions: 104 x 74 x 52mm (H x W x D).
  - Supply voltage: 220-240V/1/50Hz.

**Stock Ref:** 56 35 15

### General Accessories

#### Commercial Ancillaries

**General Accessories**

- Stock Ref: 45 96 23
- Stock Ref: 56 35 06B
- Stock Ref: 56 35 15

**General Sensors**

- Visionex PIR

**Vent-Axia**

- **Features and Benefits**
  - Supply voltage 220-240V/1/50Hz.
  - No switched live required for internal use.
  - Internal use only.
  - Maximum load: 16amp resistive (8amp inductive).

**Features and Benefits**

- Ambient operating temperature range: 20°C to +85°C.
- Dimensions: 87 x 157 x 47mm (H x W x D).
- Supply voltage 220-240V/1/50Hz.

- **Materials**
  - Aluminium Flex
  - Plastic 'Y' Piece
  - Acoustic Flex
  - Flexible Insulated Flex
  - Insulated Flex
  - P.V.C. Flex

**Connection Sizes**

- Neck Adaptor
- Ext Weather

**Connection Sizes**

- Stock Ref: 45 96 23
- Stock Ref: 56 35 06B
- Stock Ref: 56 35 15

**Features and Benefits**

- Automatically reacts to the depletion of air quality, sensing tobacco smoke, smells and toilet odours to regulate mechanically ventilated areas such as cinemas, pubs, clubs, restaurants, kitchens, toilets and conference rooms.

- The sensor switches the fan on when the air quality declines below an adjustable preset level. This is registered by the ceramic sensing head which is self-cleaning, a process which occurs every time the unit is switched on.

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**Maximum load:**

- 16amp resistive (8amp inductive).

**Dimensions:**

- 87 x 157 x 47mm (H x W x D).
- 104 x 74 x 52mm (H x W x D).
- 103 x 130 x 44mm (H x W x D).

**Suitable for Use With:**

- Lighting.
- Ventilation.
- Conference rooms.
- Clubs, restaurants, kitchens, toilets and bathrooms.
- Commercial and domestic applications.

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**Suitable for Use With:**

- Lighting.
- Ventilation.
- Conference rooms.
- Clubs, restaurants, kitchens, toilets and bathrooms.
- Commercial and domestic applications.
### General Accessories

#### Domestic Ancillaries F

**Reducer**

- Rectangular Tee
- Double Airbrick

If non PCV ducting is required for environmentally friendly installations, it is available upon request from the Vent-Axia sales office on: 01293 441 520

### General Accessories

#### Insulated Flex

- Flexible P.V.C. FLEX

#### Diffuser

- AV Diffuser

#### Silencer

- Insulated Flex

#### Connectors

- Insulated Flex

### Domestic Ancillaries F

#### Rectangular Ducting

- Flexible P.V.C. FLEX

#### Insulated Flex

- Insulated Flex

#### Diffuser

- AV Diffuser

#### Silencer

- Insulated Flex

#### Connectors

- Insulated Flex

### Domestic Ancillaries F

#### Rectangular Ducting

- Flexible P.V.C. FLEX

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- Insulated Flex

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- Insulated Flex

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- Insulated Flex

#### Connectors

- Insulated Flex
General Accessories

Acoustic Flexible Ducting

Typical Specification
Pre-insulated fibreglass scrim inner duct with a uniform layer of fibreglass insulation all enclosed by a reinforced aluminium laminate vapour barrier.

Operating temperature: -20°C to +140°C
Extended length: 10 metres
Working pressure: Up to 2450Pa
Minimum Bend Radius: 0.65 x diameter + 0.06m

Application Data
There are several aspects to be considered when addressing the problem of noise (simply defined as unwanted sound in air movement systems). The first and most important point is that close attention to predicted noise levels at the system design stage will prove far more cost effective than attempts to eliminate noise once the system has been installed. Our acoustic flexible ducting has been specifically designed to provide a quick and effective solution to the problems of noise transmission into and from ventilated areas.

Features and Benefits
• Specifically designed for noise attenuation giving exceptional insertion loss over a wide frequency spectrum
• Ten metre standard length
• Independently tested to BS 476 pt. 7; class d1 aluminium vapour barrier material
• Sizes range from 100 to 315mm nominal bore diameter

Insertion Loss/Metre

<table>
<thead>
<tr>
<th>Diameter (mm)</th>
<th>Flexible Diam</th>
<th>Attenuation Loss Across Sound Spectrum (Hz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>63</td>
<td>125 250 500</td>
<td>1K 2K 4K 8K</td>
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<tr>
<td>75 - 100</td>
<td>4 12 16 30</td>
<td>30 30 30 25</td>
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<tr>
<td>125 - 175</td>
<td>3 7 9 20</td>
<td>20 19 18 17</td>
</tr>
<tr>
<td>200 - 225</td>
<td>2 5 7 15</td>
<td>16 15 14 13</td>
</tr>
<tr>
<td>250 - 315</td>
<td>2 4 5 10</td>
<td>12 11 10 9</td>
</tr>
</tbody>
</table>

Insertion losses shown above are for a 1 metre length

Application Data

Flexible Attenuator Insertion Loss

<table>
<thead>
<tr>
<th>Diameter (mm)</th>
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<td>250 - 315</td>
<td>2 4 5 10</td>
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</tbody>
</table>

Duct Attenuators

Easily installed, the duct attenuator is used in the system to absorb sound. Available in 100, 125, 150, 200, 250, 315 and 400mm diameter sizes. Manufactured in galvanised sheet metal with 50mm Rockwool sound absorption material. Maximum operating temp. 100°C.

Dimensions (mm)

<table>
<thead>
<tr>
<th>Duct Attenuator Ref. No.</th>
<th>Øa</th>
<th>Øb</th>
<th>c</th>
<th>d</th>
<th>kg</th>
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Duct Attenuator Insertion Loss

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