

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): With rotary switch

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): With rotary switch

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: W30 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 and five speeds. Output voltages at 240V/1PH/50Hz 0, 90, 115, 140, 175, 240 volts.

Neon indicator. Enclosures are protected to IP54.


SINGLE PHASE	Stock Ref. No.	Max. amps	Dimensions (mm) Width x Height x Depth	Weight (kg)
	103 14 103	3.0	135 x 170 x 117	4.0
	103 14 105	5.0	167 x 219 x 108	5.0
	103 14 107	7.5	200 x 253 x 170	9.0


<h3>Ambient Response Humidity Sensor</h3>  <p>Stock Ref: 56 35 50</p>	<h4>Features and Benefits</h4> <ul style="list-style-type: none"> • Pullcord 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. <p>The latest self programming electronic On/Off wall mounted humidity sensor which reacts to any rapid increase in humidity and temperature by switching a Vent-Axia fan 'On' for rapid removal of moisture laden air, in domestic bathrooms and kitchens. Can be wired into controller "Auto" mode connections. Night time RH increment setback feature suppresses nuisance tripping when the humidity level gradually rises as the temperature falls.</p>
--	---


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


<h3>Electronic Humidity Sensor</h3>  <p>Stock Ref: 56 35 32</p>	<h4>Features and Benefits</h4> <ul style="list-style-type: none"> • Setting range 65% - 90%RH. • Maximum switching load 1 amp inductive. • Pullcord 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. <p>An adjustable set point, solid state On/Off sensor. A pullcord provides manual override, indicated by lamp. Adjustable from 65 to 90%RH. Can be wired into controller "Auto" mode connections. Incorporates changeover switch to select low/high speed.</p> <p>The Ecotronic Humidity Sensor can be wired for either On/Off or Trickle/Boost operation.</p>
--	--

Humidity sensors should be sited approx. 100mm below ceiling level and not above cupboards, refer to siting details in fitting and wiring instructions supplied with product. Manufacturers of some fluorescent/low energy lighting systems indicate that these can interfere with other electronic/timing circuits. For reliable operation of these circuits we recommend therefore that a tungsten filament light is used.

<h3>Vent-Axia HumidiSwitch.</h3>  <p>Stock Ref: 56 35 01D</p>	<h4>Features and Benefits</h4> <ul style="list-style-type: none"> • 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 facility. • Single pole changeover contacts. <p>Operates Vent-Axia ventilating units on either a rise or a fall in humidity to control the damaging effects of condensation.</p>
--	---

<h3>Vent-Axia ThermoSwitch.</h3>  <p>Stock Ref: 56 35 02B</p>	<h4>Features and Benefits</h4> <ul style="list-style-type: none"> • Setting range: +6°C to +30°C. • Two internal range limit/locking 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 <p>Automatically switches On fans on either a rise or fall in air temperature. 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 Hi-Line ceiling fans for Summer cooling and to move high level warm air down to the working level during Winter.</p>
--	---

<h3>TIM2 Overrun Timer</h3>  <p>Stock Ref: 37 03 46</p>	<h4>Features and Benefits</h4> <ul style="list-style-type: none"> • Changeover relay switch. • Adjustable overrun 2-30 mins. • Surface box supplied. • Dimensions: 76 x 76 x 41mm. <p>The TIM2 is a remote mounting electronic overrun timer with a relay output. 2 Amp indication load maximum. Adjustable overrun 2-30 mins. Ideal for where fans are to be controlled in conjunction with a lighting circuit or activated by remote sensors.</p>
--	---

<h3>TimeSpan Controller</h3>  <p>Stock Ref: 56 35 19</p>	<h4>Features and Benefits</h4> <ul style="list-style-type: none"> • 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/1/50Hz. <p>Adjustable timer with overrun facility for fans ventilating W.C's and other small rooms.</p> <p>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.</p> <p>A surface mounting back box is available Stock Ref: 41 00 20</p>
---	--

General Sensors

General Accessories

The Great Indoors

Commercial Ancillaries

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

Air Quality Sensor



Stock Ref: 56 35 06B

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 at 240V. Sensor consumption: 25mA at 240V.
- DEMKO Approved.
- Supply voltage 240V/1/50Hz

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 triggered. The air quality sensor should not be used for the detection of combustible gases and is not designed for use as a smoke detector in an alarm system.

Vent-Axia Visionex PIR



Stock Ref: 45 96 23

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

A wall or ceiling mounted movement detector for use with any domestic Vent-Axia mains voltage product. Also suitable for use with Vent-Axia T-Series controllers on 'Auto' setting and ITC controllers on sensor mode.

7 Day TimeSwitch



Stock Ref: 56 35 15

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 (8amp 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

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.

The 7-day TimeSwitch gives twelve On or Off positions per day and can be set for 7 days. The cycle will repeat until changed.

Commercial Ancillaries

M	Duct Attenuator (600mm)	105 35 150 105 35 200 105 35 250 105 35 315 105 35 400	M	3 - Way Splitter	105 51 250 105 51 250 105 51 250 105 53 400	M	Pollen Filter WH3/4/PF	37 05 48	Suitable for HR 250 & HR 400
M	Balancing Damper	40 07 60	M	Plastic Reducing 'Y' Piece (Flexible Only)	45 52 12 45 20 84	M	Pollen Filter PXF5 Elements	37 04 97	Suitable for HR 250 & HR 400
M	Reducer 315/400	-	M	Plastic Reducing 'Y' Piece (Flexible Only)	45 20 84	M	Pre Filter	105 32 150 105 32 200 105 32 250 105 32 315 105 32 400	Neck Adaptor (Neck) Size 225 x 225 225 x 225 300 x 300 450 x 450
M	Reducer 250/315	-	M	Plastic Reducing 'Y' Piece (Flexible Only)	45 20 83 45 20 85	M	Duct Air Heater (3 Phase)	105 31 315T3 105 31 400T3	Neck Adaptor 105 47 150 105 47 200 105 47 250 105 48 400
M	Reducer 200/250	37 03 09	M	Plastic Reducing 'Y' Piece (Flexible Only)	45 20 83 45 20 85	M	Duct Air Heater (1 Phase)	105 31 150T1 105 31 200T1 105 31 250T1 105 31 315T1	Ext. Weather Louvre (Silver)
M	Reducer 150/200	-	M	Flexible Connection	FLX 150 FLX 200 FLX 250 FLX 315 FLX 400	M	Roof Plate Assembly	56 01 36 56 01 37 56 01 39 56 01 42	O.B.D.
M	Joining Pieces	56 18 06 56 18 08 56 18 10 56 18 13 56 18 16	M	Worm Drive Clips	56 17 07 56 17 10 56 17 10 56 17 15 56 17 20	M	Roof Fixing Plate	56 11 36 56 11 37 56 11 39 56 11 42	Egg Crate Grille (Silver)
F	Female Coupler	40 07 57	F	Aluminium Acoustic Flex 10m	37 01 74 37 01 75	M	Roof Termination	105 55 150 105 55 200 105 55 250 105 55 315 56 01 64	Double Deflection Grille (Silver)
M	90° Bend	40 07 54 37 02 02 37 02 03	F	Aluminium Insulated Flex 10m	56 16 56 56 16 58 56 16 60 56 16 62	M	Diffuser Fire Damper	40 07 75	Single Deflection Grille (Silver)
M	Equal 'T'	37 02 37 37 02 38 37 02 39	F	Aluminium Flex 10m	105 39 150 105 39 200 105 39 250 105 39 315 105 39 400	M	Diffuser (Extract)	105 44 150 105 44 200	Plenum Box Size
F	Spiral (3m)	37 03 32	F	P.V.C. FLEX 6m	56 66 10 56 66 16	M	Diffuser (Supply)	105 43 150 105 43 200 250 Ø 315 Ø 400 Ø	Plenum Box 56 06 02 56 06 03 56 06 04 56 06 05 56 06 05
	Spiral Fittings	150 Ø 200 Ø 250 Ø 315 Ø 400 Ø		Flex & Fire Damper	150 Ø 200 Ø 250 Ø 315 Ø 400 Ø		Diffusers, Filters & Plenum Boxes	150 Ø 200 Ø 250 Ø 315 Ø 400 Ø	Diffusers, Grilles, Filters & Plenum Boxes 250 x 250 300 x 300 300 x 300 450 x 450 450 x 450

General Accessories

The Great Indoors

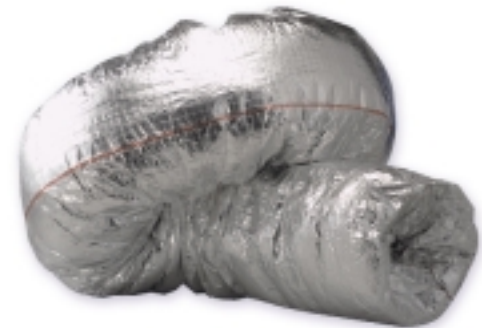
Domestic Ancillaries

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

Domestic Ancillaries F								
Spiral Fittings	F	Spiral (3m)	40 09 00	40 09 01	37 03 32	2000		
		M	Equal 'T'	40 07 49	40 07 50	40 07 51	37 02 38	
			90° Bend	40 07 52	40 07 53	40 07 54	37 02 02	
			Female Coupler	40 07 55	40 07 56	40 07 57	-	
	Flex, Diffs, Dampers & F/D's	M	Joining Pieces	56 18 04	56 18 05	56 18 06	-	
			F	Aluminium Flex 10m	37 01 72	37 01 73	37 01 74	37 01 75
				Aluminium Insulated Flex 10m	56 16 54	56 16 55	56 16 56	56 16 58
				Aluminium Flex 10m	105 39 100	105 39 125	105 39 150	105 39 200
		Circular Rigid Plastic Ducting	M	Worm Drive Clips	56 17 04	56 17 07	56 17 07	56 17 10
				Flexible Silencer (FS 100)	37 04 26	-	-	-
Insulated Circular Connector				-	-	-	-	
F			Diffuser (Extract)	105 44 100	105 44 125	105 44 150	105 44 200	
			Insulated Condensation Trap	-	-	-	-	
			Un-Insulated Condensation Trap	56 35 26	45 51 91	45 51 90	-	

Domestic Ancillaries P										
Rectangular Plastic Ducting	F & M	Un-Insulated Elbow with 100mm Ø O/S Spigot	37 03 19	24 99 42	42 87 99	110 x 54	204 x 60	220 x 55		
		F	Un-Insulated Rectangular Tee Piece	37 03 24	24 99 46	42 87 99	-	-	-	
			Un-Insulated 45° Bend	-	-	42 75 98	-	-	-	
			Un-Insulated 45° Bend Adjustable	24 99 44	-	-	-	-	-	
	Rectangular Plastic Ducting	F & M	Un-Insulated 45° Bend Adjustable	24 99 44	-	-	-	-	-	
			M	Un-Insulated Horizontal Airbrick Adaptor	45 50 80	-	-	-	-	-
				Un-Insulated Horizontal Airbrick Adaptor	45 50 33	-	-	-	-	-
		M	Un-Insulated Vertical 90° Bend	37 03 21	24 99 45	46 68 48	-	-	-	
			Un-Insulated Horizontal 90° Bend	37 03 20	37 01 26	46 68 47	-	-	-	
			Un-Insulated Louvered grille + Flyscreen	40 07 43	-	-	-	-	-	
External Wall/Roof Terminations & Fire Dampers	M	Un-Insulated Flat Channel 1.0m Length	40 07 31	-	-	-	-	-		
		F & M	Un-Insulated Flat Channel 1.5m Length	37 03 16	37 01 23	46 68 44	-	-	-	
			Un-Insulated Short Rnd 100mm Ø To Rect	45 50 35	-	-	-	-	-	
			Un-Insulated Red To Rect 100mm Ø 125mm Ø 125mm Ø	37 03 22	37 01 27	46 68 46	-	-	-	
	External Wall/Roof Terminations & Fire Dampers	M	Un-Insulated Elbow with 150mm Ø O/S Spigot	24 99 43	-	-	110 x 54	204 x 60	220 x 55	
			M	WC2 Dual Wall Vent	37 05 43	-	-	1000	1250	1500
				WC2 Dual Wall Vent	37 05 43	-	-	1000	1250	1500
		M	Cowl White	45 20 94	-	-	-	-	-	
			Cowl Brown	45 20 95	-	-	-	-	-	
			Cowl Brown	45 20 97	-	-	-	-	-	

Acoustic Flexible Ducting



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

Typical Specification

Pre-insulated fibreglass skim 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.

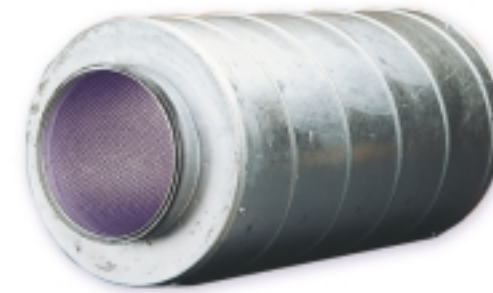
Insertion Loss/Metre

Flexible Diameter Inside mm	Attenuation Loss Across Sound Spectrum Hz							
	63	125	250	500	1K	2K	4K	8K
75 – 100	4	12	16	30	30	30	30	25
125 – 175	3	7	9	20	20	19	18	17
200 – 225	2	5	7	15	16	15	14	13
250 – 315	2	4	5	10	12	11	10	9

Insertion losses shown above are for a 1 metre length

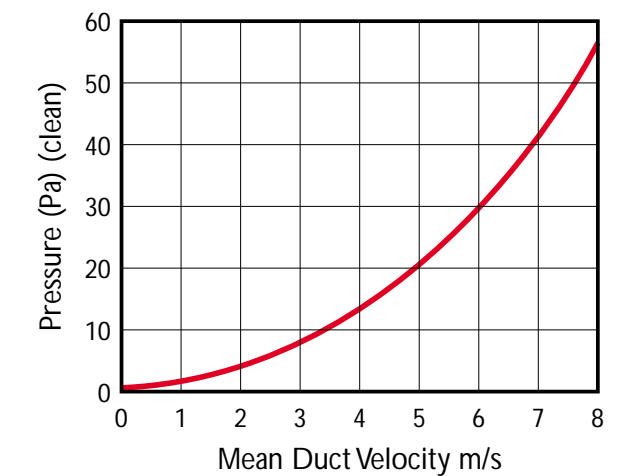
Inside Diameter mm	Insertion Loss for Breakout Across Sound Spectrum Hz							
	63	125	250	500	1K	2K	4K	8K
All Sizes	4	8	7	10	12	12	19	21

AIRTRAK™ Duct Attenuators

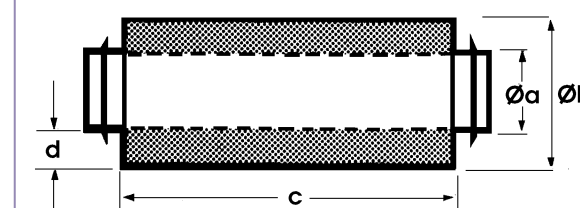


Easily installed, the duct attenuator is used in the system to absorb sound. Available in 100, 125, 150, 200, 250, 315 and 400mm diameter sizes. Manufactured in galvanised sheet metal with 50mm Rockwool sound absorption material. Maximum operating temp. 100°C.

Duct Attenuator Resistance Graph



Dimensions (mm)



Stock					
Ref. No.	Øa	Øb	c	d	kg
105 34 100	100	200	300	50.0	2.6
105 34 125	125	225	300	50.0	3.6
105 34 150	150	250	300	50.0	4.0
105 35 100	100	200	600	50.0	4.0
105 35 125	125	225	600	50.0	4.5
105 35 150	150	250	600	50.0	6.0
105 35 200	200	315	600	57.5	7.4
105 35 250	250	355	600	52.5	10.2
105 35 315	315	450	600	67.5	13.0
105 35 400	400	630	600	115.0	18.5

Duct Attenuator Insertion Loss

Stock Ref. No.	Length	Duct Ø	63	125	250	500	1k	2k	4k	8k
105 34 100	300	100	3	4	10	18	23	25	25	12
105 34 125	300	125	3	4	8	17	21	23	21	11
105 34 150	300	150	3	3	6	14	20	23	21	11
105 35 100	600	100	5	8	16	33	39	40	36	17
105 35 125	600	125	4	8	13	30	34	35	31	15
105 35 150	600	150	4	7	13	23	29	36	31	15
105 35 200	600	200	4	5	11	21	26	32	20	9
105 35 250	600	250	3	6	10	19	24	29	19	8
105 35 315	600	315	3	5	8	16	21	22	16	15
105 35 400	600	400	3	4	7	14	18	19	14	13
105 36 100	900	100	10	13	20	39	45	38	35	18
105 36 125	900	125	9	12	18	37	41	37	32	16
105 36 150	900	150	8	9	15	30	37	37	33	17
105 36 200	900	200	7	9	14	27	31	36	25	12
105 36 250	900	250	5	8	13	24	30	31	22	11
105 36 315	900	315	4	7	11	20	31	27	17	12
105 36 400	900	400	4	6	9	18	26	24	16	11
105 37 200	1200	200	10	12	17	35	40	43	27	13
105 37 250	1200	250	7	9	15	31	36	38	26	12
105 37 315	1200	315	6	8	13	23	32	30	18	11
105 37 400	1200	400	5	8	12	20	29	27	17	9