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8th Edition

Vent-Axia Product Selector

Vent-Axia®

The UK's Leading Ventilation Company

Products you can trust

Welcome to the 8th Edition of the Vent-Axia Product Selector. Vent-Axia can supply everything you need for any ventilation job. In this brochure, you will find the widest selection available on the market for your ventilation installation, as well as a selection of other products such as heating, cooling and hand dryers.

With the first round of ErP requirements implemented in January 2013, we are now looking forward to the next phase in 2015. You can trust the Vent-Axia team to ensure all products meet legislation requirements and our sales force is there to offer advice and provide insight into the latest legislation changes.

Building Regulations provide a benchmark for ventilation performance and efficiency, but we like to go further to deliver quality products and solutions. At only 16 dB(A) our Silent Fan provides stylish and silent ventilation without compromising on performance. Need to hear it to believe it? Email demo@vent-axia.com to arrange a demonstration and hear for yourself just how quiet it is!

We continue to invest in our MVHR systems; during the year we launched the Horizontal Sentinal Kinetic MVHR unit. Our MVHR has also been recognised by others. As well as the Sentinel Kinetic being featured by Dwelle at Grand Designs, our Lo-Carbon Kinetic Plus E in the Best Services Product Category at this year's Housebuilder Product Awards.

Vent-Axia prides itself on being innovative, so as always, there are a number of new products included within this edition. Within our Lo-Carbon range we have added to our dMEV family with Response. Our continuous running, constant volume Response dMEV unit features an innovative digital display which provides the calibrated installed airflow and pressure of the installation meaning that there is no need to test the installation with an airflow measuring device. The humidity Response also features our hour run meter as standard.

We would also like to introduce iQ, our new intelligent Lo-Carbon fan with a unique automatic humidity sensor for moisture control. This means the fan learns to run only when it can make a difference to the indoor air quality. The visible blades give a retro feel and help to give the fan a very quiet noise level.

Don't forget our extensive heating range. From page 166 you can find the heating section which, as well as panel and storage heaters, also includes towel rails, aluminium radiators and radiant heating. We are confident that we can provide a credible alternative to your existing heating suppliers, with a brand that you can trust.

Did you know that Vent-Axia has a range of tools available on our website that can help you select the heating and ventilation products that you need? You can also sit online CPDs and book training courses; all helping to ensure the right product for the right job is installed correctly and working first time. We also have an online trade counter, frequently asked questions as well as up-to-date product availability and technical literature all at the click of a button. The Vent-Axia website really is a knowledge hub, provided to make your life easier. Visit the website today to find out more; www.vent-axia.com. We feel this really strengthens our position as a supplier of ventilation and heating, whatever your application or need. This is all backed by a nationwide 70 strong sales team and an unrivalled technical support group based in Crawley.

Our commitment to quality and service runs right through the core of our business, through our supply chain to you; our customers. As always, we want you tell us if you think there are areas we could be better in as we continue to be the best that we can.

Vent-Axia - the First Name in Ventilation.

Lee Nurse, Marketing Director

Employing over 800 people across 4 manufacturing sites, we continue to invest in UK manufacturing.

Being in control of manufacture of the component parts including motors and mouldings all within the UK, we reduce our lead times as well as our carbon footprint.

Vent-Axia Group Ltd

Crawley - Unitary plastic fan manufacture
- Our largest total manufacturing and office space with over 230,000 sq. ft. housing the Vent-Axia Head Office as well as the Group Head Office.
- Manufacturing and warehouse space totals 108,000 sq. ft.
- Manufacture of plastic ventilation ranges
- Design and test facilities for rigorous product testing including safety, airflow and climate chambers – BEAB approved
- Head Office functions including Sales Office, Customer Services, Technical Support and Marketing

Swindon - Lo-Carbon DC Motor manufacture
- 80,000 sq ft factory
- Over 1 million motors supplied into the HVAC market every year
- The key provider of our Lo-Carbon technology

Reading - Plastic Moulding and extrusion manufacture
- 50,000 sq ft injection and extrusion factory running 24 hours a day
- Over 30 injection moulding machines
- 5 extrusion lines for rigid and flexible duct

Dudley - Systems and Industrial manufacture
- Our largest site with 120,000 sq footage of manufacturing and warehousing space
- Manufacturing base for our metal products including Sentinel Demand Ventilation and Sentinel Totus
- Also the home of our heat recovery (MVHR) and Multivent (MEV) products

Dudley

Reading

Swindon

Crawley
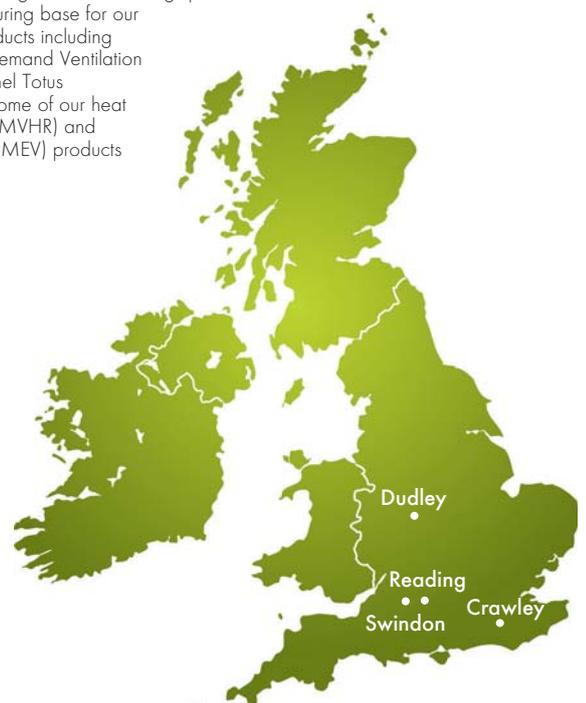
Vent-Axia Firsts

At Vent-Axia we have a history of innovation. When you look at our heritage, it soon becomes clear why we have been the First name in Ventilation since our inception

1936 – Marine engineer Joe Akester invented the unitary extractor fan 'Silent 6' made from Bakelite material. The original products featured DC motors.

1945 – Following the Second World War, Sir Winston Churchill bought two Silent 6 fans for his Chartwell home. A copy of the cheque for £28.19s 8p is in Vent-Axia's reception area at Crawley.

1953 – The 'X type' fan was produced in 4 sizes and the unique 'R type' controller enabled the fans to be reversed for the first time.

1961 – Vent-Axia Standard Range was launched and applications became more varied with the first dedicated models for roof and wall mounting and even a model for commercial and military vehicles.

1975 – The Universal fan range featured the first 'centrifugal' shutter mechanism that allowed the shutters to operate in both directions without pullcords.

1985 – The T Series product range featured a patented DC solenoid shutter and offered unique applications like In-Line and Dark Room models. Accessories like the Direct Mount Spigot and wall terminations also enabled the fans to be used with ducting as a complete installation kit.

1985 – Vent-Axia was the first, (in fact the only) fan company to be awarded the Royal Warrant by the Queen for supplying unit ventilation to Royal Households.

1992 – The 16th edition of IEE regulations 'on site guide' was issued and Vent-Axia launched the first Safety Extra Low Voltage fan to meet the requirements for electrical safety in bathrooms.

1994 – The patented LuminAir became the first fan and light combination and its IP57 protection made the unit electrically safe for shower installation.

1997 – Domestic energy efficient ventilation began with the launch of the Lo-Carbon range featuring a DC motor and patented shutter system that used no additional power.

2002 - Commercial fans became energy efficient with Lo-Carbon T Series launched at Interbuild in Birmingham.

2006 – The Sentinel range was developed as the first 'Demand' ventilation system with energy efficient EC/DC motors.

2007 – Vent-Axia launched the first complete Lo-Carbon ventilation range featuring Residential Fans, MEV, MVHR and Commercial Energy Efficient products.

2008 – As part of the Sentinel family, Totus 'Demand' Energy Recovery became the first low energy commercial ventilation system with a 90% efficient energy recovery and EC/DC motor.

2009 – Sentinel Kinetic becomes the first Lo-Carbon product with 90% heat recovery and cooker hood facility.

2011 – Launch of the first 100mm Single Room Heat Recovery Unit 'Lo-Carbon Tempra'.

2013 - Adding to the dMEV family, 'Response' is launched featuring a unique digital display showing the calibrated installed airflow and pressure of the installation. The retro feel iQ is also launched delivering intelligent humidistat control.

BSI™

RVA
Residential Ventilation Association

HEVAC

beama

TEHVA
The Electric Heating & Ventilation Association

FETA

By Appointment to H.M. The Queen
Suppliers of Unit Ventilation Equipment
Vent-Axia Ltd., Crawley, Sussex

Vent-Axia®

Part F and L of the Building Regulations from October 2010

We would like to welcome you to what we believe is a great place to start if you want to understand the Building Regulation requirements.

Parts F and L, issued in October 2010, emphasise the effective design, installation and operation of ventilation systems. The objective is to maximise carbon reduction through correctly specified and designed systems, competent installation minimising losses of the systems, verified performance once installed and correct operation by the home owner.

This section explains how to achieve compliance, looking at the three key areas in detail: Specification and Design, Installation and Commissioning, Operation and Maintenance.

Ventilation

There are four systems covered in the building regulations and these are as follows:

System 1 - Intermittent fans and background ventilation

System 2 - Passive stack

System 3 - Continuous mechanical extract ventilation (MEV)

System 4 - Continuous mechanical balanced ventilation with heat recovery (MVHR)

Part F Overview

Part F, Means of Ventilation, is the document in which the performance of different systems is covered. Things like airflow rates, noise, occupiers operation etc are all covered here.

The 2010 edition has a few top level changes which may affect you. They are as follows:

Ventilation Rates

The ventilation rate of a given property is calculated dependant on the designed infiltration rate. Basically, how much it leaks when the wind blows (anyone who has lived in a drafty house will understand the importance that this has!). There are now two levels of ventilation based on how much they leak air. This is measured in how much air leaks from the building by its surface area and the units are m³h of air per m² of building area (m³h/m²).

1. Leaky House
2. Non Leaky House

1. For properties leakier than 5m³h/m² infiltration.
2. For properties tighter than 5m³h/m² infiltration.

Basically, tighter buildings now have an increased ventilation rate.

Installation and Commissioning

There is guidance on good installation practice and a commissioning guide set out in a supporting document to Part F know as the Domestic Ventilation Compliance Guide. This is designed to ensure that ventilation not only delivers the required airflow, but also does it efficiently and quietly. This is designed to link in with competent persons schemes and training programmes run by the industry. See our website (www.vent-axia.com) for more information on our BPEC training courses which are designed to teach good installation practices.

Part L Overview

Part L, the document covering fuel and power, is where the energy efficiency information on ventilation is covered. The 2010 document has improved the energy efficiency targets for buildings by 25%. This affects ventilation equipment as they are part of the SAP calculation and contribute to tougher Target Emission Rates (TER's) set to deliver the 25% improvement over the previous regulations. There is also an opportunity to save energy through ventilation by using SAP Appendix Q. This is a method by which energy efficient ventilation systems can be selected and the energy benefit be added back into the SAP calculation.

The drive towards Zero Carbon Homes and meeting the requirements of the Kyoto agreement will be reflected in revisions to Part L up to 2016.

See www.vent-axia.com/legislation for update to all legislation.

What does this mean for ventilation?

Ventilation uses energy in two ways. Firstly, mechanical systems use electricity to power the motors and secondly there is heat loss as air is exhausted from the building which has been heated. This is dealt with by a minimum energy efficiency level for all ventilation systems in a supporting document called The Domestic Building Services Compliance Guide. There are now building and refurbishment minimums in both the amount of electricity a motor can use (minimum specific fan power (SFP)) and a minimum energy efficiency of heat exchangers in systems that can recover the heat.

We recommend that best practice is followed when designing and installing a system, as the product performance is affected by both areas. We can offer support with both elements, please contact us for further information on how we can help.

Summary

There are now four areas for consideration when selecting ventilation.

• Airflow performance

• Minimum energy efficiency limits

• Good installation

• Use by occupiers

Scan the barcode and download our brochure for more information on Ventilation for New Build Construction.

Things to Remember

Airflow performance ▸ Minimum energy efficiency limits ▸ Good installation ▸ Use by occupiers

General Information

Technical Advice

Free technical, installation and sales advice is available from the Vent-Axia Technical Support Centre.

Distribution

Vent-Axia products are available from all leading industrial fan stockists. For further information, or in case of difficulty, please contact the Vent-Axia Sales Centre in Crawley.

Sound Levels

Vent-Axia has a state of the art sound testing facility at Crawley (UK) providing sound power levels for comparison purposes tested in accordance with ISO 13347-1:2004 and ISO 13347-2:2004. This is an international standard that describes methods for determining sound power levels of fans in one-third octave bandwidths to allow comparisons to be made between different products from different manufacturers in a fair and consistent manner.

The data is not intended to equal the sound power levels experienced in any specific installation but enable the customer to compare different products and make an informed decision on their requirements.

Each installation will use different building materials that can have an effect on how sound is absorbed and/or reflected. It is therefore very difficult to predict the exact sound power levels exhibited in any given installation.

Performance

Tested in Vent-Axia test laboratories, performance testing is carried out in a balanced chamber test duct to BS 848: Part 1. This has a booster fan to overcome the system resistance.

The volume flow is measured by a pressure drop across a calibrated orifice plate at the entry to the system.

An adjustable damper provides a variable resistance to the test fan enabling its performance characteristics to be measured. The rated figures given are at free air performance.

BSEN ISO 9001

Vent-Axia limited is certified by the British Standards Institution to BS EN ISO 9001 Cert. No. FM1792 QAS No. 3284/37.

Intellectual Property

Products shown in this catalogue include aspects which are protected under patent, copyright, design copyright, registered design and trademark laws. Vent-Axia will take all necessary legal action in any part of the world against any party found to be manufacturing, distributing, selling or otherwise dealing with any article which infringes the Company's rights in its products.

Guarantee

Applicable to units installed and used in the United Kingdom.

For details of guarantee outside the United Kingdom, contact your local supplier.

Unless otherwise stated, Vent-Axia guarantees its industrial fans for the period indicated on individual pages from the date of purchase, against faulty material or workmanship in normal use.

In the event of any part being found to be defective, the appliance will be repaired, or at the Company's option, replaced, without charge, provided that:

1. The product has been installed and used in accordance with the instructions given with each unit;

2. The product has not been connected to an unsuitable electrical supply (the correct electricity supply voltage is shown on the appliance rating label attached to the unit);

3. The product has not been subjected to misuse, neglect or damage;

4. The product has not been modified or repaired by any person not authorised by the Company;

5. The application is within the specification of the unit;

6. The product is connected to Vent-Axia switch gear;

7. Thermal overload protection has been correctly connected;

8. The product has been subject to regular maintenance appropriate to the installation;

9. When returning the product under guarantee, evidence of purchase is provided.

Conditions of sale

All sales by Vent-Axia are made only upon the terms of the Company's Conditions of Sale (www.vent-axia.com/help/conditions-sale), a copy of which may be obtained upon request.

Online Heating & Ventilation Tools

Each tool has been designed with you in mind, making it simple to use & effective to apply, visit **www.vent-axia.com/tools-services.**

Online Product Selector
Our fully comprehensive online product selector tool. Choose from our complete specification range to best suit your project.

Online CPD
Vent-Axia offers a selection of CPD material online. With the addition of a questionnaire, you can independently complete your chosen module at your own convenience.

Online Trade Counter
Distributors with accounts can log in or register to check our live stock system for prices & stock availability & also review your previous trade orders.

Online Heating Calculators
By using the Vent-Axia Online Sizing Guides, you will be able to determine which product is suitable for you, helping you to achieve thermal comfort all year round.

Online Axial Fan Calculator
An interactive tool to help you calculate the installed performance of an axial fan when its being tested with a vane anemometer.

Contents - Product Selector

T: 0844 856 0590

Lo-Carbon Residential Fans

ADF System 1

Continuing our commitment to Lo-Carbon we are proud to introduce the latest additions to the range. In this section you will find Lo-Carbon solutions for any intermittent and continuous fan application.

In axial or centrifugal, wall, ceiling or window applications in bathrooms or kitchens we now have a Lo-Carbon fan offering up to 90% energy saving over the equivalent traditional fan.

We are the first manufacturer in the UK to provide such a complete offer at a price point which makes these products a real alternative.

Vent-Axia

Lo-Carbon Residential Fans

Lo-Carbon VA100®/SELV
Axial Bathroom/Toilet Fans

Features & Benefits
- Meets current Building Regulations Approved Document F & L
- Suitable for wall, ceiling, panel and window mounting
- Fitted with a motorised shutter
- 5 Year Motor Guarantee
- Protected against low energy lighting circuits
- Reduces your carbon footprint
- IPX4 rated - IPX7 rated (SELV)
- Efficient long life DC motor
- Uses up to 87% less energy
- Low sound levels
- 1 of 2 speeds selectable at installation
- Low specific fan power
- SELV Models - Supplied with a remote transformer
- Datalogger as standard on all models

Long Life Ventilation VA100
The improved Vent-Axia Lo-Carbon VA100 range features Lo-Carbon long life DC motors that are more efficient than conventional motors whilst delivering up to 87% energy savings.

Shutters
The Vent-Axia Lo-Carbon VA100 range is fitted with a motorised shutter mechanism that uses no extra power in operation or off.

Installation
Fitted with integral protection against low energy lighting circuits, the VA100 is a 100mm axial fan suitable for use in the bathroom or toilet. VA100 is a quick and simple to fit product with easy-wire on one line terminals. Suitable for installation in window, walls or panels/ceilings at any angle using kits available. The 100mm telescopic wall kit fit walls 225 to 360mm thick.

The range meets the requirements of the current Building Regulations for the ventilation of toilets 6l/s and bathrooms 15l/s with a 15 minute overrun timer for internal rooms on the LT, XT and HTP models.

Models
Lo-Carbon VA100/SELV LP (Pullcord)
Ultra long life DC motor. Pullcord On/Off override switch with indication light. 2 speed options.

Model	Stock Ref
LP	443159
SELV LP	441614

Lo-Carbon VA100 XP/SELV (Shutter/Pullcord)
Ultra long life DC motor. Pullcord and On/Off override switch with indication light. 2 speed options.

Model	Stock Ref
XP	443160
SELV XP	459049

Lo-Carbon VA100/SELV LT (Timer)
Electronic adjustable overrun timer (5-30 minutes). Indication light. 2 speed options.

Model	Stock Ref
LT	443161
SELV LT	441615

Lo-Carbon VA100/SELV XT (Shutter/Timer)
Integral electronic adjustable overrun timer (5-30 minutes). Indication light. 2 speed options.

Model	Stock Ref
XT	443162
SELV XT	459050

Lo-Carbon VA100/SELV LHTP (Integral Humidity Sensor/Pullcord)
Complete with integral humidity control with pullcord override. Indication light which operates on the manual override only. 2 speed options.

Model	Stock Ref
LHTP	443163
SELV LHTP	441616

Lo-Carbon VA100/SELV XHTP (Shutter/Integral Humidity Sensor/Pullcord)
Complete with integral humidity control with pullcord override. Indication light which operates on the manual override only. IPX4 rated. 2 speed options.

Model	Stock Ref
XHTP	443164
SELV XHTP	436064

Wall Kit
Fixing hole diameter 105mmØ
Stock Ref
254102 (White)
254100 (Brown)

Window Kit
Fixing hole diameter 117mmØ
Stock Ref
254101

Dimensions (mm)
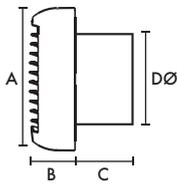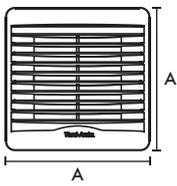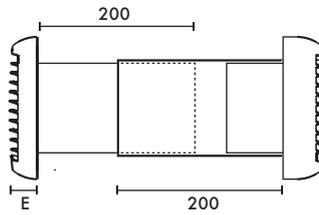
PANEL   WALL   WINDOW
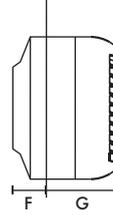
	A	B	C	DØ	E	F	G
Bathroom/Toilet	155	47	63	98	31	32	76

SELV Transformer (W x H x D) 87 x 87 x 33

Weight 1kg

Performance

Area	Models	Extract Performance - FID			Sound dB(A)	SFP
		m³/h	l/s	Watts	@ 3m	@ 0Pa
Toilet	Lo-Carbon VA100/SELV LP/XP/LHTP/XHTP/LT/XT	60	17	3.4	32	0.20
Bathrooms	Lo-Carbon VA100/SELV LP/XP/LHTP/XHTP/LT/XT	74	21	6.1	36	0.90

Lo-Carbon Silhouette® 100/SELV

Bathroom/Toilet Fans

Features & Benefits

- Models Basic/Timer/Humidity - Installation options
- Low power consumption - Lower running costs
- Quiet running
- Fully opening and closing shutters - Improved insulation
- Meets current Building Regulations Approved Document F & L
- 1 of 2 speeds selectable at installation
- Non transparent shutters - Enhanced privacy
- Blue power indication light - Modern aesthetics
- Ball bearing motors for vertical or horizontal application
- Unique humidity sensor track - Improved response
- 5 Year Motor Guarantee
- IPX4 rated - IPX7 rated (SELV)
- Suitable for wall, ceiling, panel and window* mounting
- SELV Transformer to BS EN 60742
- SELV Models - Supplied with a remote transformer

Slimline Bathroom Ventilation

With a slim profile of only 17mm, Silhouette blends in with the wall surface to provide an unobtrusive installation. Silhouette has an FID performance of up to 24 l/s. Silhouette can be ceiling/panel mounted and connected to an appropriate duct run to the outside.

Safety Extra Low Voltage (SELV) is designed for areas where a fan has to be fitted within zone 1 in a room containing a fixed bath or shower according to IEE wiring regulations. The Silhouette SELV can be safely installed within the spray area. The fan is rated IPX7, control is by a mains safety isolating transformer with 12V DC SELV output, which is sited away from any source of spray and out of reach of a person using a fixed bath or shower.

Models

Lo-Carbon Silhouette 100B/SELV 100SVB

100mm bathroom/toilet fan with indicator light and back draught shutter.

Model	Stock Ref
100B	441624
SELV 100SVB	441511

Lo-Carbon Silhouette 100T/ SELV 100SVT (Timer)

100mm bathroom/toilet fan with integral adjustable electronic overrun timer (5-30 minutes), indicator light which operates on manual override only, and back draught shutter.

Model	Stock Ref
100T	441625
SELV 100SVT	441512

Lo-Carbon Silhouette 100HT (Humidistat/Timer)

100mm bathroom/toilet fan with adjustable auto humidity sensor from 60-90% RH and overrun timer, indicator light which operates on manual override only, and back draught shutter. Hour Run Meter as standard on all Lo-Carbon humidity controlled Silhouette fans.

Model	Stock Ref
100HT	441626

Lo-Carbon Silhouette 100H SELV (Humidistat)

100mm bathroom/toilet fan with adjustable auto humidity sensor from 60-90% RH, indicator light which operates on manual override only, and back draught shutter.

Safety Extra Low Voltage version.

Model	Stock Ref
SELV 100SVH	441513

Wall Kit

Fixing hole diameter 117mmØ

Stock Ref
254102 (White)
254100 (Brown)

Window Kit

Fixing hole diameter 117mmØ

Stock Ref
442947

17mm actual profile

Back draught prevention vanes fitted on discharge

Dimensions (mm)

Panel

Wall Kit
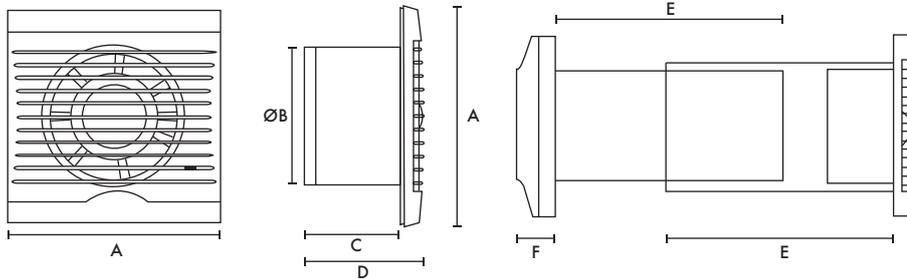
A	BØ	C	D	E	F
160	99	115	132	200	32

SELV Transformer (WXHXD) 87X87X33

Weight 0.6kg

Performance

Area	Model	Extract Performance - FID			Sound dB(A)	SFP (W/l/s)
		m³/h	l/s	Watts	@ 3m	@ 0Pa
Toilet	Lo-Carbon Silhouette 100 B/T/H/SVB/SVT/SVH	60	17	3.4	34	0.20
Bathrooms	Lo-Carbon Silhouette 100 B/T/H/SVB/SVT/SVH	105	24	8.7	38	0.36

* For window mounting shutter cannot be used and must be removed

Lo-Carbon Centra®/SELV
dMEV Unit

Features & Benefits

- Building Regulations Approved Documents F and L compliant, System 3 Continuous mechanical extract
- Recognised in SAP Appendix Q - Low SFP on SAP Q
- Quietest dMEV available
- Discreet, tasteful styling
- Single fan for use in all applications
- IPX4 rated - IPX7 rated (SELV)
- Pressure detection device
- Normal and Boost speeds
- Lo-Carbon motor offering 90% energy savings and long life
- 5 Year Motor Guarantee
- Suitable for wall, ceiling, panel and window mounting
- SELV Models - Supplied with a remote transformer
- SELV Models Suitable for 'Zone 1' installation

What is de-centralised MEV (dMEV)

The Building Regulations Approved Document F gives examples of four main methods of ventilation. System 3, Continuous mechanical extract ventilation can be achieved using a single centralised extract unit such as the Sentinel Multivent ducted to 'wet' rooms (kitchen, bathroom, en-suite and WC) or by decentralised individual fans, such as the Lo-Carbon Centra in the 'wet' rooms. The fans run continuously at near silent levels providing a simple and effective form of ventilation.

SELV (Safety Extra Low Voltage) is designed for areas where a fan can be installed within Zone 1 in a room where there is a fixed bath or shower. Ingress Protected (IP) to IPX7 Lo-Carbon Centra SELV can be fitted safely within the spray area. The separate transformer can be mounted away from the spray zone and out of reach from the bath or shower.

The Lo-Carbon Centra meets the latest requirements of the Building Regulations Approved Document F for wholehouse system ventilation.

Selection of the two normal flow rates (6l/s or 9l/s) is via a simple 'jumper' on the control board. Different methods are available for operating boost speed from a simple switched live to integral humidistat or CO_2 sensor. See individual models for further details.

The attractive and discreet styling of the Vent-Axia Lo-Carbon Centra will complement the décor of any new home while virtually silent operation ensures optimum ventilation is achieved without intrusive noise.

Lo-Carbon Centra

Recognised in SAP Appendix Q Lo-Carbon Centra has a specific fan power of only 0.18 W/l/s in through-the-wall kitchen applications.

Models

Lo-Carbon Centra
Auto speed selection at installation. The integral air pressure sensor checks the airflow when first installed and also helps the fan to compensate for external wind pressure.
Stock Ref
441782

Lo-Carbon Centra/SELV T
(Timer)
Ideal for bathroom and toilet applications, this unit runs continuously on trickle setting and may be boosted by the switched live input which activates the adjustable timer (5-30 minutes).

Model	Stock Ref
T	442954
SELV T	443175

Lo-Carbon Centra/SELV TP
(Pullcord/Timer)
For bathroom/toilet applications, the continuous running TP model is boosted by the pullcord which activates the adjustable timer (5-30 minutes).

Model	Stock Ref
TP	447127
SELV TP	447128

Lo-Carbon Centra/SELV HT
(Humidistat/Timer)
For bathroom/toilet applications, the continuous running HT model is automatically boosted by the built-in humidistat or by a switched live input which activates the adjustable timer (5-30 minutes). Available from late 2013: Hour Run Meter as standard on all Lo-carbon humidity controlled Centra fans.

Model	Stock Ref
HT	442955
SELV HT	443176

Lo-Carbon Centra/SELV HTP
(Humidistat/Pullcord)
For bathroom/toilet applications, the continuous running HTP model is automatically boosted by the built-in humidistat or by the pullcord which activates the adjustable timer (5-30 minutes).

Model	Stock Ref
HTP	443045
SELV HTP	443177

Lo-Carbon Centra CO_2 and Humidity
Continuous running, automatically boosted with integral CO_2 and humidistat sensor. This as ambient response feature - detects rapid change in %RH and boosts immediately, or will boost slowly and proportionally with %RH or CO_2.
Stock Ref
444672

150mm Conversion Kit
Stock Ref
443334

Wall Kit
Stock Ref
254102 (White)
254100 (Brown)

Window Kit
Stock Ref
442947

Ceiling Kit
Stock Ref
443800

Q QUIET MARK
2013
Validated mark of approval
noise abatement society

the ELECTRICAL industry awards WINNER 2011

Winners of the Energy Efficiency Initiative 2011 Award

with our Lo-Carbon Continuous Ventilation Product Range

Dimensions (mm)

A	B	C	DØ
160	35	115	99

Transformer 87 x 87 x 33mm (W x H x D)
(SELV models only)

Performance Guide

	Extract Performance (l/s)			Power Consumption (Watts)			Sound dB(A)@ 3m		
	Trickle	Trickle		Trickle	Trickle		Trickle	Trickle	
Model	low	high	Boost	low	high	Boost	low	high	Boost
Lo-Carbon Centra/SELV T/TP/HT/HTP	6	9	15	1.4	1.6	2.4	10.8	15.5	25.2

SAP Appendix Q Performance

Systems With Rigid Ductwork Installation Only

Unit Configuration	Location	Fan Speed Setting	Flow Rate (l/s)	SFP (W/l/s)
In Room (Ducted)	Kitchen	High	13.2	0.32
In Room (Ducted)	Wet Room	9 l/s	8.4	0.28
Through Wall	Kitchen	High	13.5	0.18
Through Wall	Wet Room	9 l/s	8.6	0.20

Systems With Flexible Or Mixed Ductwork Installation Only

Unit Configuration	Location	Fan Speed Setting	Flow Rate (l/s)	SFP (W/l/s)
In Room (Ducted)	Kitchen	High	13.2	0.37
In Room (Ducted)	Wet Room	9 l/s	8.6	0.31
Through Wall	Kitchen	High	13.5	0.18
Through Wall	Wet Room	9 l/s	8.6	0.20

NEW Lo-Carbon iQ
Intelligent Axial Bathroom/Toilet Fan

Features & Benefits

- Minimal retro design to match bathroom décor
- Extremely quiet- only 22 dB(A)
- Truly surface mountable with removable spigots
- Intelligent controls and control panel for easy and flexible set up and commissioning
- Low power consumption – only 5 W
- Easy cleaning and maintenance
- 5 year Lo-carbon motor guarantee

Market Leading Design

With the launch of this fan, we not only spent time perfecting the operation and users experience of the fan but also worked hard on the design. We hope to have succeeded in producing a surface depth that appeals to the eye and that matches modern fittings found in today's bathrooms. The visible blades give a retro-feel and helps to give the fan a very quiet noise level.

Silent Operation

The open impellor and the unique method of operating the motor enables a greater array of operating options including silent continuous ventilation along with adaptable speed control and flexible timer functions.

Humidity Control

For the first time we can now introduce an intelligent, fully automatic humidity sensor for moisture control. This means the fan learns to run only when it can make a difference to the indoor air quality. The fan continually monitors and records the moisture content to allow it to map the humidity profile throughout the year. This process enables the fan to ensure that it runs only when the fan can lower the moisture content in the air. This reduces nuisance running. The fan also has two modes for moisture control, silent or boost mode which can be selected via the touch pad control.

Control Panel

Our aim has been for the end user to be able to control and understand the basic fan functions, without the need of reading the manual. When the fan is connected to the power supply, it also performs a self-test where all the status lamps on the control panel are tested, as well as the function of the motor. Ideal for those installing to ensure that everything works. The simple controls, along with the LED feedback make the commissioning and any readjustment, quick and easy to complete.

LED Feedback

With many fans it is difficult to understand the exact mode that they are running in. We have now simplified this to provide a visual indicator to see what the fan is doing and which mode is currently active. The fan uses three different colours on the visible status lamp to communicate exactly what it is doing. A blue light signifies that the fan is working to evacuate moisture via the humidity sensor. A yellow light signifies that the timer is running. And a purple light signifies that the fully automatic airing function is active.

You Chose How The Fan Works

The intelligent overrun timer can be operated in several different ways, either via the light switch, integral pull-cord or a separate switch either as a standard On/Off or as a momentary switch stopping automatically after the overrun on time. You use the control panel to easily set the required post-running time at 15 or 30 minutes, depending on your choice.

Full surface mounted installation

With the impellor and motor assembly designed to be low profile and accessible for maintenance, spigots on the fan are completely removable. This design enables the fan to be mounted onto a wall without any spigot so that it can be truly surface mounted. This is an ideal function if you have a duct with a smaller dimension than 100 mm or a duct that bends directly off of the back of the fan not providing any depth in the wall for the spigot.

Automatic Airing Function

The airing function means when the fan has been inactive for 16 hours, it runs an airing programme for 60 minutes to exchange the air in the bathroom. No more worries about stuffy, musty odours in the bathroom when you have been on holiday.

Cleaning and Maintenance

For a fan to ventilate effectively, it is vital that it is kept clean and that the ductwork and grilles are free from dust that can reduce the air flowing through them. This is the first fan introduced with the ability to simply open the centre of the fan and gain free access to the duct. Using the 'swing-out' function you can easily clean and clear the fan e.g. a clogged grille on the outside of the façade. Press the snap-in catch and swing out the motor - that's it!

Lo-Carbon 5 year guarantee

As there is an integrated power adapter in the fan we have been able to use a low voltage motor that has a life span of approximately 60,000 hours. This is about 3-5 times longer than a standard fan. The motor features extremely quiet bearings. By using a low voltage motor we can significantly limit power consumption. The fan only consumes 5 Watts, about a third of a conventional AC bathroom fan.

Models

Lo-Carbon iQ

Auto speed selection at installation. The integral air pressure sensor checks the airflow when first installed and also helps the fan to compensate for external wind pressure.

Stock Ref

405155

Dimensions (mm)
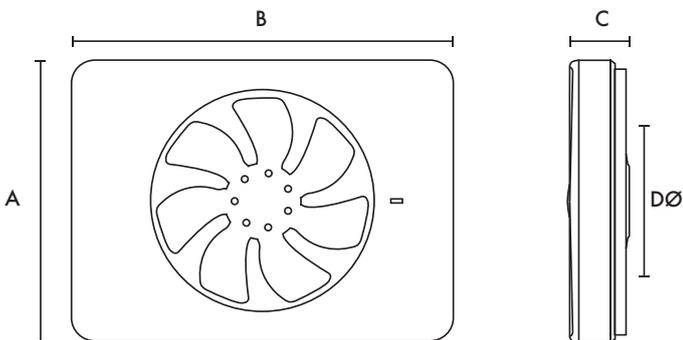
A	B	C	DØ
152	202	31	99/125

Product is supplied with a removable spigot 30mm deep in 99mmØ and 125mm Ø

Performance

Duct Ø	Trickle/Boost	Extract Performance - FID m³/h	l/s	Sound dB(A) @ 3m
100mm	Boost	105	30	33
100mm	Trickle	73	20	23.5
125mm	Boost	132	37	32
125mm	Trickle	85	24	22

Lo-Carbon
Solo Plus/SELV
Centrifugal Bathroom/Toilet Fan

Features & Benefits

- Up to 70% energy saving
- Filterless as standard - innovative impeller design means no need for a filter
- Integral Lo-Carbon power supply
- Meets current Building Regulations Approved Documents F & L
- IPX4 rated - IPX7 rated (SELV)
- Flush or surface mountable
- Adjustable rear or side exit spigot
- Lo-Carbon Solo Plus SELV is suitable for installation over or within reach of a shower or bath
- Extremely low sound levels
- 5 Year Motor Guarantee
- Suitable for wall, ceiling and panel mounting
- SELV Models - Supplied with a remote transformer

Long Life Ventilation

The Lo-Carbon Solo Plus range from Vent-Axia has been specially designed for through the wall and ducted applications, suitable for internal bathrooms, toilets and other small rooms. Finished in white, the Lo-Carbon Solo Plus can be flush or surface mounted, with a 2 position 100mm circular spigot for rear entry or connecting to a vertical ducting system. The powerful centrifugal impeller allows installations using 100mm ducting in straight runs, whilst still achieving 15l/s as required by Building Regulations Approved Document F.

Continuous running products, such as the Solo Plus, installed in all wet areas of a dwelling are classed as a wholehouse ventilation system and therefore only need to move the amount of air as outlined in table 5.1a and 5.1b of Building Regulations Approved Document F.

The Lo-Carbon Solo Plus has an adjustable boost speed which is set at installation variable between a wall or duct setting for boost/override operation to meet Building Regulations thus ensuring minimum

energy usage and low sound levels. All models have an optional speed for constant trickle ventilation (12l/s), selectable at installation. Depending on the model, the fan will switch from trickle (if selected) to boost via the pullcord/light switch/humidity sensor/PIR.

All models can be wall, panel or ceiling mounted and can be connected to either circular, rectangular or Vent-Axia's flat ducting. Enclosure of the electrical components is manufactured from flame retardant grade material.

Safety Extra Low Voltage Fan (SELV)

Designed for areas where a fan has to be fitted over or within Zone 1 in a room containing a fixed bath or shower according to IEE wiring regulations (BS 7671), the Lo-Carbon Solo Plus SELV fan can be safely installed within the spray area. The fan is rated IPX7. Control is by mains safety isolating transformer unit with 12V DC SELV output, which is sited away from any source of spray and out of reach of a person using a fixed bath or shower. Controller Supply voltage 220-240V/1/50Hz. Output to fan SELV 12V DC.

Models

Lo-Carbon Solo Plus/SELV P
(Pullcord)

Flush or surface mountable. Control by Pullcord. 2 Speed. Constant trickle option. Adjustable boost. In-built Lo-Carbon controller.

Model	Stock Ref
P	427481
SELV P	427485

Lo-Carbon Solo Plus/SELV T
(Timer)

Flush or surface mountable. Control by room light or switch. 2 Speed. Constant trickle option. Adjustable boost. Adjustable timer overrun. Delay on timer. In-built Lo-Carbon controller.

Model	Stock Ref
T	427482
SELV T	427486

Lo-Carbon Solo Plus/SELV HT
(Humidistat-Timer)

Flush or surface mountable. Humidity controlled fan with override pullcord. Constant trickle option. Adjustable boost. Adjustable timer overrun. Delay on timer. Adjustable humidity sensor. In-built Lo-Carbon controller. Hour Run Meter as standard on all Lo-Carbon humidity controlled Solo Plus fans.

Model	Stock Ref
HT	427483
SELV HT	427487

Lo-Carbon Solo Plus/SELV TM
(Timer/PIR)

Flush or surface mountable. Control by integral PIR detector. 2 Speed. Constant trickle option. Adjustable boost. In-built Lo-Carbon controller.

Model	Stock Ref
TM	427484
SELV TM	427488

Lo-Carbon Solo Plus Bezel

Used when flush mounting - reduces the need to make good.

Stock Ref
404106

Wall Kit

Stock Ref
254102 (White)
254100 (Brown)

Filter pack (1 per pack)

The design of the Solo Plus means that is does not need a filter. However, if you are going to install the product in a heavily greasy environment, you may want to protect the product by fitting a filter.

Stock Ref
449265
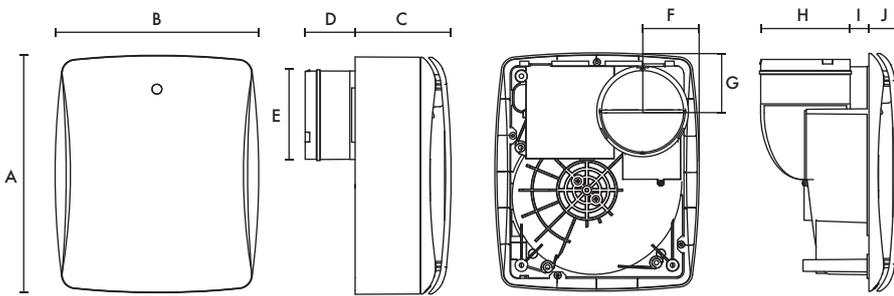
Dimensions (mm)

A	B	C	D	EØ
263	224	106	55	98
F	G	H	I	J
62	65	98	21	34

Weight 2.2kg, SELV Weight 2.7kg.

Lo-Carbon SELV controller dimensions: (W x H x D) 87x87x33mm.

Performance Curve (Duct Mode)

1 Low Trickle
2 High Trickle
3 Boost
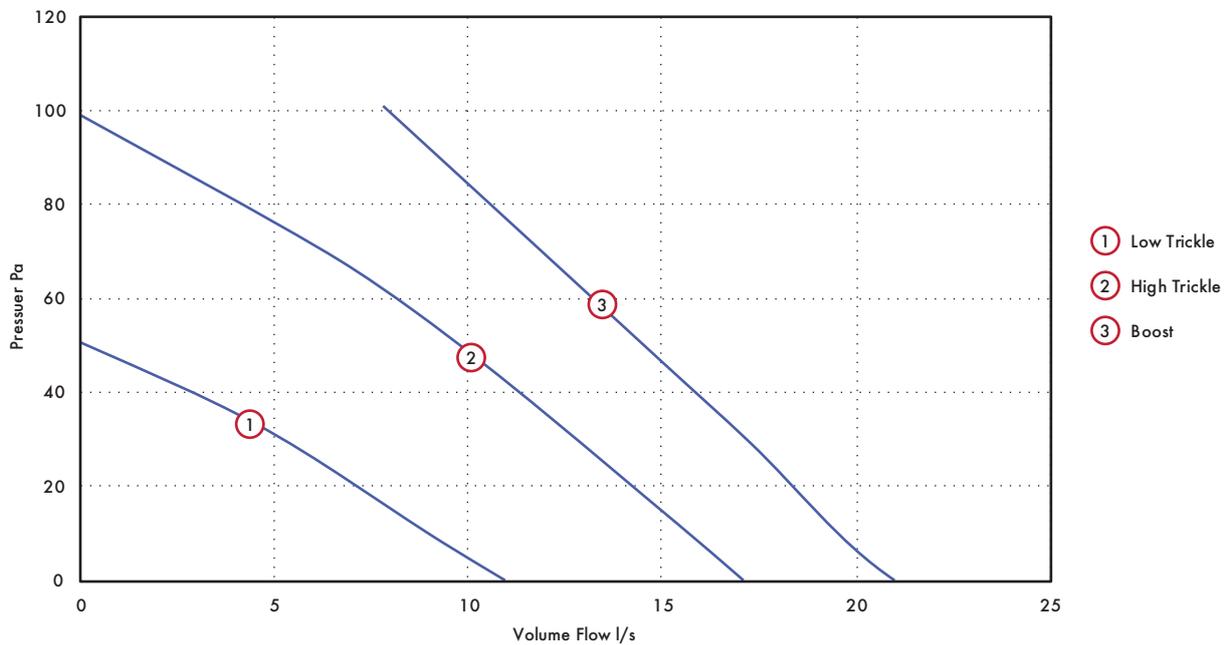
Performance Guide

Model		Extract Performance l/s (m³/h)			Power consumption - Watts			dB(A) @ 3m			SFP (W/l/s)
		Boost	High trickle	Low Trickle	Boost	High trickle	Low Trickle	Boost	High trickle	Low Trickle	@ 0Pa
Lo-Carbon Solo Plus/SELV P/T/HT/TM	Wall mode	18 (64.8)	12 (43.2)	8 (28.8)	6	2.9	2.3	33.5	27	23.5	0.33
	Duct mode	21 (75.6)	17 (61.2)	11 (39.6)	8.4	5.3	3.2	35.5	33	26	0.40

Tested at 240VAC @ 50Hz

Lo-Carbon Minivent
Ducted Bath/ Shower Fan Kit

Features & Benefits

- Complete kit supplied
- Meets Building Regulations Approved Document F & L requirements for toilets and bathrooms at max 1.5m of ducting and 1x 90° bend
- Adjustable timer version available
- 5 Year Motor Guarantee
- 1 of 2 speeds selectable at installation

Powerful Lo-Carbon In-Line Fan Kit

The Vent-Axia Lo-Carbon Minivent ducted bath/ shower kit includes all the components necessary to install a ducted 100mm system. This simplifies fitting of an efficient ventilation system to small rooms including bathrooms, shower rooms and toilets. It is especially suitable for en-suite bathrooms.

When installed, the fan kit has ample performance to meet the Building Regulations requirements for toilets and bathrooms. The timer version should be used for internal rooms.

The kit consists of a Lo-Carbon Minivent In-Line fan, a white ceiling grille and spigot, 3 metres of flexible duct and an external louvre for soffit or wall mounting. The duct should be cut to the required length and the bend radius kept to a maximum to provide optimum fan performance.

Enclosed terminal compartment, Class 2 appliance. Supply voltage 220-240/1/50Hz.

Models

Lo-Carbon Minivent Shower Fan (Basic)
Comprises - high output tube fan, 3 metres of flexible duct, ceiling inlet grille and spigot, soffit/ wall outlet grille.
Stock Ref
441421

Lo-Carbon Minivent Shower Fan (Timer)
Comprises - high output tube fan, 3 metres of flexible duct, ceiling inlet grille and spigot, soffit/ wall outlet grille.
Stock Ref
441422

Dimensions (mm)

A	B	C	DØ	E
130	155	90	98	27

REAR VIEW

SIDE VIEW

Internal/External Grille Dimensions 140x140mm
Transformer (W x H x D) 87 x 87 x 33
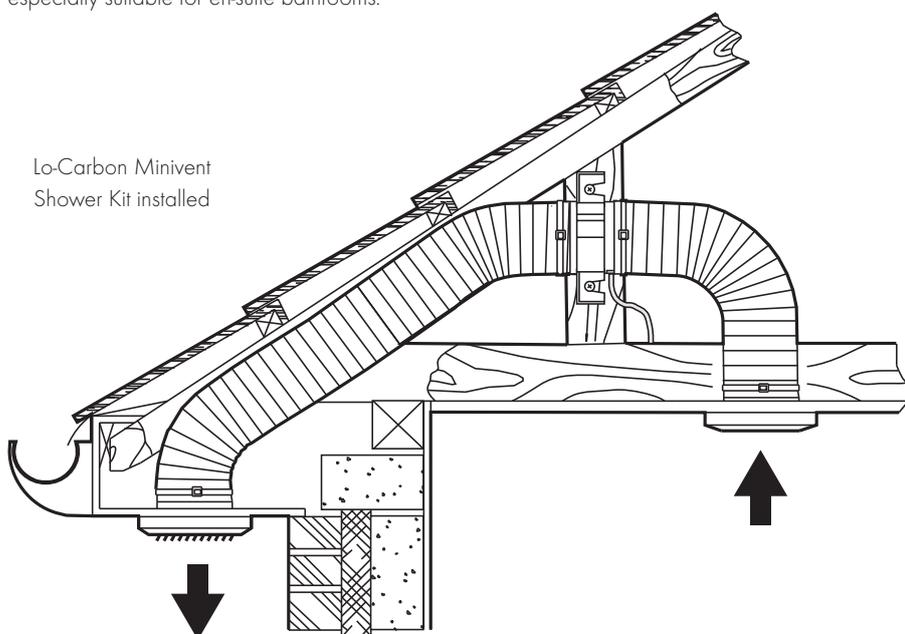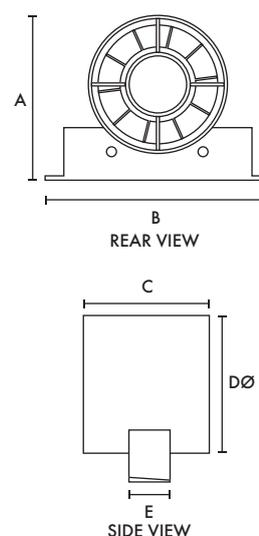
Lo-Carbon Minivent Shower Kit installed

Performance

Model	Extract performance - FID		Sound dB(A)	SFP (W/l/s)
	m³/h	l/s	Watts	@ 3m	@ 0Pa
Lo-Carbon Minivent B/T	110	31	6.5	23	0.21

Lo-Carbon LED Vent-A-Light

Ducted Bath/ Shower Fan Kit

Features & Benefits

- Suitable for shower enclosure and wet areas
- Now with a 3W LED Lamp
- Provides simultaneous fan and light operation
- Meets current Building Regulations Approved Document F & L
- 1 of 2 speeds selectable at installation
- Double insulated fan
- Light assembly Class III
- 5 Year Motor Guarantee
- Supplied with white and chrome bezels

100mm Lo-Carbon axial in-line shower fan and light kit. Provides simultaneous fan and light operation. Suitable for shower enclosures and wet areas. Available with both a white and chrome bezel on light assembly. The light assembly can be held in place using fixing clips or screws.

Typical Specification

CE marked in accordance with all the relevant EEC Harmonised Directives.

Fan double insulated and the motor is fitted with Thermal Protection. Light assembly class III.

Electrical

12 volt DC 3W GU5.3 sealed lamp.
Powered by an LED Driver.

Input, AC. Output - 12 volt DC. 1A.

Models

Lo-Carbon Vent-A-Light Fan and LED Light Kit (Standard)

100mm axial in-line shower fan and light kit. Includes fan, 3m flexible ducting, white grille, LED lamp light transformer and light assembly with white and chrome bezels.

Stock Ref
441423

Lo-Carbon Vent-A-Light Fan and LED Light Kit (Timer)

100mm axial in-line shower fan and light kit. Fan has electronic overrun timer adjustable from 5 to 30 minutes. The factory setting is 15 minutes. Includes fan, 3m flexible ducting, white grille, LED lamp light transformer and light assembly with white and chrome bezels.

Stock Ref
441424

Dimensions (mm)

A	B	C	DØ	E
130	155	90	98	27

REAR VIEW

SIDE VIEW
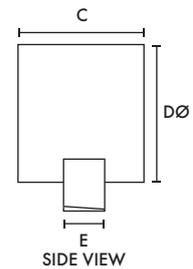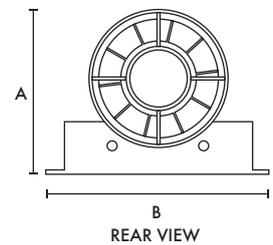
Internal/External Grille Dimensions 140x140mm
Fan Transformer (W x H x D) 87 x 87 x 33

Performance

Model	Extract performance - FID		Fan Watts	Light Watts	Sound dB(A) @ 3m	SFP (W/l/s) @ 0Pa
	m³/h	l/s				
Lo-Carbon Vent-A-Light B/T	110	31	6.5	3	23	0.21

Tested at 240V 50Hz

Lo-Carbon Quadra®/SELV

'One Fan fits all' Centrifugal Fan

Features & Benefits

• Single fan for use in toilets, bathrooms, utility rooms and kitchens

• Meets current Building Regulations Approved Document F & L for intermittent or continuous use

• Guaranteed installed performance

• Recognised in SAP Appendix Q - Low SFP on SAP Q 0.38 W/l/s

• 100mm circular spigot for easy installation and replacement of any existing fan

• Filterless technology and maintenance free

• Lo-Carbon motors offering 90% energy savings and long life

• Motor cassette cartridge for simple replacement

• Suitable for flush or surface mounting

• 5 Year Motor Guarantee

• IPX4 rated - IPX7 rated (SELV)

• Suitable for wall, ceiling and panel mounting

• Datalogger standard on HTP versions

Lo-Carbon Quadra SELV

The Lo-Carbon Quadra SELV has been designed to meet building requirements where there is a need to fit in Zone 1 containing a fixed bath or shower according to IEE wiring regulations. The Lo-Carbon Quadra SELV can be safely installed within the spray area with the 24VDC Safety Isolating Power Supply situated away from the spray zone and out of reach of the person using the facility.

Ventilation for any room

The Lo-Carbon Quadra offers a single fan suitable for surface or flush mounting. Low speed selectable between 6, 9 and 12l/s and high between 15, 30 and 60l/s all with through the wall or two ducted selections to ensure installed performance is met.

Discrete

With discrete aesthetics and low noise levels due to an accurately balanced impeller, it is also one of the most

unobtrusive centrifugal kitchen fans available. The front cover design also provides no area for dirt to build up so it stays looking better for longer.

Models

Lo-Carbon Quadra TP/SVTP (Timer/Pullcord)

Dual speed: continuous running or intermittent to high speed. High speed via pullcord (On/Off) or switch live (with overrun timer).

Model	Stock Ref
TP (surface only)	439251
TP (flush only)	405133
SVTP	442865
SVTP Datalogger	446269

Lo-Carbon Quadra HTP/SVHTP (Humidistat/Timer/Pullcord)

Dual speed: continuous running or intermittent to high speed. High speed via integral pullcord (On/Off), integral adjustable humidity sensor or switch live (with overrun timer). Hour Run Meter as standard on all Lo-Carbon humidity controlled Quadra fans.

Model	Stock Ref
HTP (surface only)	439181
HTP (flush only)	405134
SVHTP	442866
SVHTP Datalogger	446270

Lo-Carbon Quadra TM/SVTM (Timer/PIR)

Dual speed: continuous running or intermittent to high speed. High speed via integral PIR sensor or switch live (both with overrun timer).

Model	Stock Ref
TM (surface only)	439253
TM (flush only)	405135
SVTM	442867

Flush Mounting Kit (for SELV only)
Stock Ref
439256

Filter (optional)
Stock Ref
439927

Decoration Frame
Stock Ref
442551

Wall Kit
Stock Ref
254102 (White)
254100 (Brown)

Mounting Options

Mains Mounting Options	Surface Mounted Only	Flush Mounted Only
Lo-Carbon Quadra TP	439251	405133
Lo-Carbon Quadra HTP	439181	405134
Lo-Carbon Quadra TM	439253	405135

SELV Mounting Options	Surface Mounted Only	Flush Mounted Only
Lo-Carbon Quadra SVTP	442865	442865 + *439256
Lo-Carbon Quadra SVTP Datalogger	446269	446269 + *439256
Lo-Carbon Quadra SVHTP	442866	442866 + *439256
Lo-Carbon Quadra SVHTP Datalogger	446270	446270 + *439256
Lo-Carbon Quadra SVTM	442867	442867 + *439256

*Please note seperate flush mounting kit must ordered in conjunction with the fan on SELV versions as shown above

the ELECTRICAL industry awards WINNER 2011

Winners of the Energy Efficiency Initiative 2011 Award
with our Lo-Carbon Continuous Ventilation Product Range.

Dimensions (mm)

Front View

Side View

Rear View

A	B	C	D	EØ	F	G	H
230	260	112	67	98	27	58	79
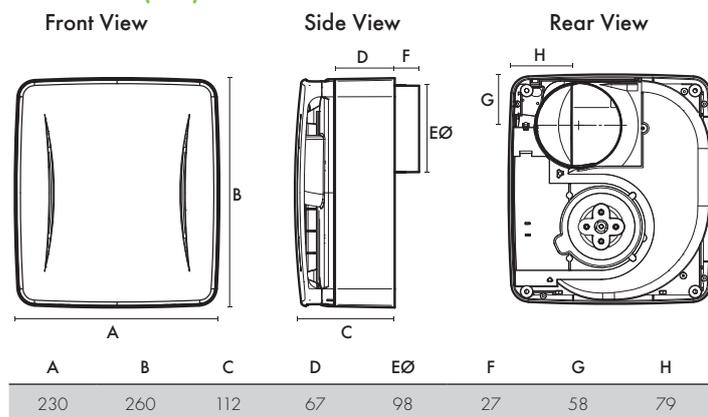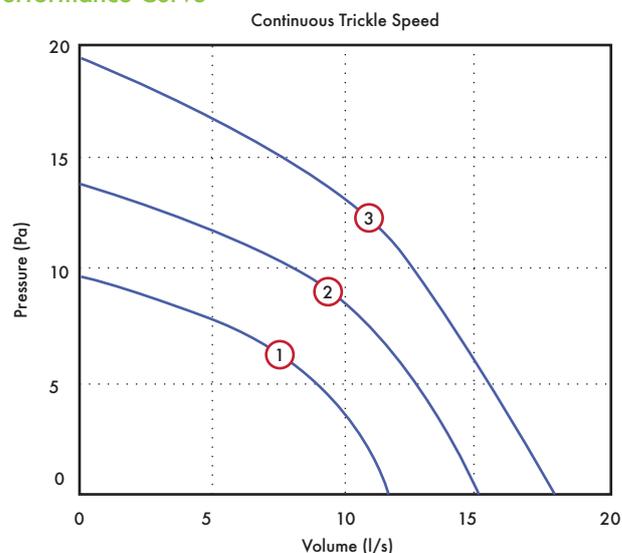
SAP Appendix Q Performance

Systems With Rigid Ductwork Installation Only

Unit Configuration	Location	Fan Speed Setting	Flow Rate (l/s)	SFP (W/l/s)
In Room	Kitchen	15 l/s	15.8	0.41
In Room	Wet Room	9 l/s	14.6	0.61
Through Wall	Kitchen	15 l/s	21.4	0.38
Through Wall	Wet Room	9 l/s	19.5	0.50

Systems With Flexible Or Mixed Ductwork Installation Only

Unit Configuration	Location	Fan Speed Setting	Flow Rate (l/s)	SFP (W/l/s)
In Room	Kitchen	15 l/s	13.7	0.41
In Room	Wet Room	9 l/s	12.9	0.63
Through Wall	Kitchen	15 l/s	21.4	0.38
Through Wall	Wet Room	9 l/s	19.5	0.50

Performance Guide

	Extract Performance				Power		Sound	
	High		Low		High	Low	dB(A) @ 3m	
Model	m³/h	l/s	m³/h	l/s	Watts	Watts	High	Low
Lo-Carbon Quadra/SELV TP/ HTP/ TM	223	63	22	6	38	3.8	50	20

*Tested in through the wall installation
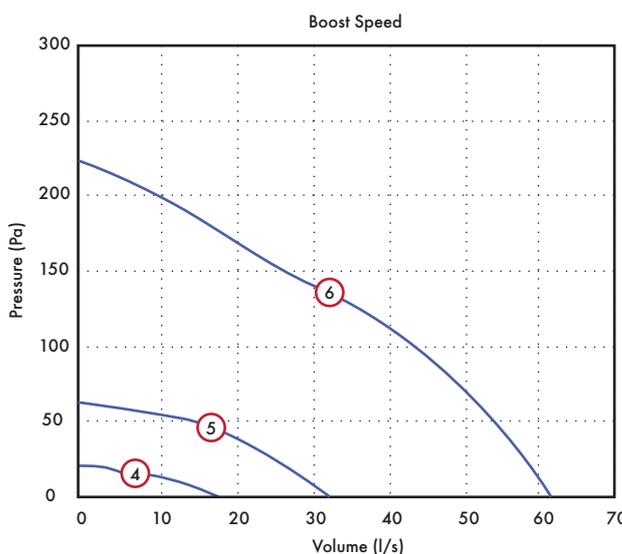
Performance Curve

Continuous Trickle Speed

Boost Speed

1	Quadra 6 l/s	4	Quadra 15 l/s
2	Quadra 9 l/s	5	Quadra 30 l/s
3	Quadra 12 l/s	6	Quadra 60 l/s

Vent-Axia

Lo-Carbon Residential Fans

Lo-Carbon Silhouette® 125
Bathroom/Toilet Fans

Features & Benefits

- Models Basic/Timer/Humidity
  - Installation options
- Low power consumption
  - Lower running costs
- Quiet running
- Fully opening and closing shutters
  - Improved insulation
- 1 of 2 speeds selectable at installation
- Non transparent shutters
  - Enhanced privacy
- Ball bearing motors for vertical or horizontal application
- Unique humidity sensor track
  - Improved response
- 5 Year Motor Guarantee
- IPX4 rated
- Suitable for wall, ceiling and panel mounting

Slimline Bathroom Ventilation

With a slim profile of only 18mm, Silhouette blends in with the wall surface to provide an unobtrusive installation. Silhouette has a FID performance up to 149m³/h. Silhouette can be ceiling/panel mounted and connected to an appropriate duct run to the outside.

Models

Lo-Carbon Silhouette 125B

125mm bathroom/toilet fan with indicator light and back draught shutter.

Model	Stock Ref
125B	446483

Lo-Carbon Silhouette 125T
(Timer)

125mm bathroom/toilet fan with integral adjustable electronic overrun timer (5-30 minutes), indicator light which operates on manual override only, and back draught shutter.

Model	Stock Ref
125T	446484

Lo-Carbon Silhouette 125HT
(Timer/Humidistat)

125mm bathroom/toilet fan with integral adjustable auto humidity sensor from 60-90% RH and overrun timer, indicator light which operates on manual override only, and back draught shutter. Hour Run Meter as standard on all Lo-Carbon humidity controlled Silhouette fans.

Model	Stock Ref
125HT	446485

Wall Kit
Stock Ref
455226

18mm actual profile

Back draught prevention vanes fitted on discharge

Dimensions

A	B	C	D
187	125	131	149

Panel
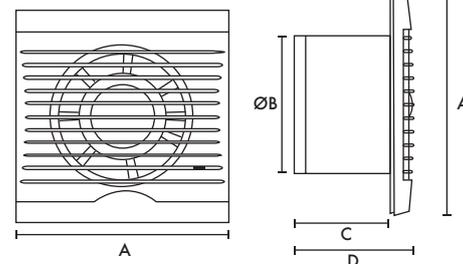
Performance

Model	Speed	Extract Performance			Sound dB(A)	SFP (W/l/s)
		m³/h	l/s	Watts	@ 3m	@ 0Pa
125B/125T/125HT	Low Boost	120	33	4.6	37	0.14
	High Boost	149	44	7	37	0.15

T: 0844 856 0590

Lo-Carbon VA150

Axial Kitchen & Utility Room Fans

Features & Benefits

- Reduces the home's carbon footprint
- Long life Lo-Carbon motor lasts up to 5 times longer than conventional motors
- Up to 60% energy saving
- Meets current Building Regulations Approved Document F & L when installed
- IP44 rated
- Low sound levels
- 5 Year Motor Guarantee
- Suitable for wall, ceiling, window and panel mounting
- Fitted with a motorised shutter
- 1 of 2 speeds selectable at installation

Long Life Ventilation

Vent-Axia Lo-Carbon VA150 fans feature Lo-Carbon long life DC energy saving motors that last up to 5 times longer than conventional motors, whilst delivering up to 60% energy savings. The extended life of Lo-Carbon fans is due to the use of a new generation of high quality electronically controlled ball-bearing motors especially developed for this range. The motors are perfectly designed for the wet conditions of utility rooms and kitchens, extracting stale, moisture-laden air quietly and efficiently.

Shutters

The Vent-Axia Lo-Carbon VA150 range is fitted with a motorised shutter mechanism that uses no extra power in operation or off.

Installation

The Lo-Carbon VA150 range is suitable for installation in panels, walls or windows using the kits available. Lo-Carbon fans are quick and simple to fit using reversible grommets and easy-wire terminals, and are suitable for wall or ceiling mounting at any angle.

150mm telescopic wall kits are available with a white or brown outside grille. The kit is supplied with a telescopic wall sleeve to fit walls 225–360mm thick. Hole diameter 152mm.

Window fitting kits are available for use with all Lo-Carbon 150mm models through single or double glazed windows up to 40mm thick. Hole diameter 152mm.

Models

Lo-Carbon VA150P (Shutter/Pullcord)

Ultra long life DC energy saving motor. Fitted with a motorised shutter. Controlled via pullcord On/Off switch.
Stock Ref
459123

Lo-Carbon VA150T (Shutter/Timer)

Ultra long life DC energy saving motor. Fitted with a motorised shutter. Controlled via integral power supply with electronic adjustable overrun timer (5-30 minutes).
Stock Ref
459124

Lo-Carbon VA150HP (Shutter/Humidistat)

Ultra long life DC energy saving motor. Fitted with a motorised shutter. Controlled via integral power supply with pullcord override switch and adjustable humidity sensor (60-95% RH).
Stock Ref
459125

Wall Kit
Stock Ref
140902 (White)
140903 (Brown)

Window Kit
Stock Ref
140901

Dimensions (mm)

A	B	C	DØ	E
216	224	80	146	60

Weight 1.2kg
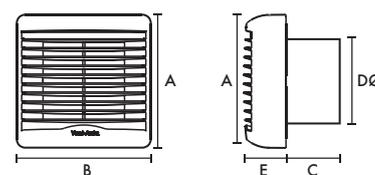
Performance

Setting	Model	Extract Performance		Sound dB(A)	Watts	SFP @
		m³/h	l/s	@ 3m		0Pa
Utility Setting	Lo-Carbon VA150P/T/HP	160	46	33	7.5	0.16
Kitchen Setting	Lo-Carbon VA150P/T/HP	230	64	36	11.5	0.18

Lo-Carbon Silhouette® 150
Axial Kitchen Fans

Vent-Axia
Lo-Carbon Residential Fans

Features & Benefits

- Stylish ultra low profile grille
- Downstream airflow guide vanes for improved pressure development
- Ball bearing motors for vertical or horizontal application
- Wall kit design meets Building Regulations Approved Document F requirements
- 5 Year Motor Guarantee
- 1 of 2 speeds selectable at installation
- IPX4 rated
- Low Specific Fan Power
- Suitable for wall, ceiling and panel mounting

Slimline Lo-Carbon Kitchen Ventilation

The Lo-Carbon Silhouette range is designed for modern living. With a profile of only 19mm on the kitchen models, Lo-Carbon Silhouette blends in with the wall surface to provide an unobtrusive installation.

Mounted in the centre of the fan, beneath the ultra slim profile grille, are the electronics, incorporating a humidistat (HT model) for detecting a change in internal humidity or an overrun timer option that is adjustable between 5 and 30 minutes.

FID performance of 67l/s, double insulated. Power consumption only 8.2 Watts.

Models

Lo-Carbon Silhouette 150B
150mm kitchen fan with indicator light and back draught shutter.
Stock Ref
441628

Lo-Carbon Silhouette 150T (Timer)
150mm kitchen fan with integral adjustable electronic overrun timer (5-30 minutes), indicator light which operates on manual override only and spring back draught shutter.
Stock Ref
441629

Lo-Carbon Silhouette 150HT (Humidistat/Timer)
150mm with integral adjustable auto humidity sensor from 60-90% RH and overrun timer, indicator light which operates on manual override only and back draught shutter. Hour Run Meter as standard on all Lo-Carbon humidity controlled Silhouette fans.
**Stock Ref**
441630

Wall Kit
Stock Ref
140902 (White)
140903 (Brown)

Dimensions (mm)

A	BØ	C	D	G	H
223	147	130	19	220	37

Weight 1.75kg
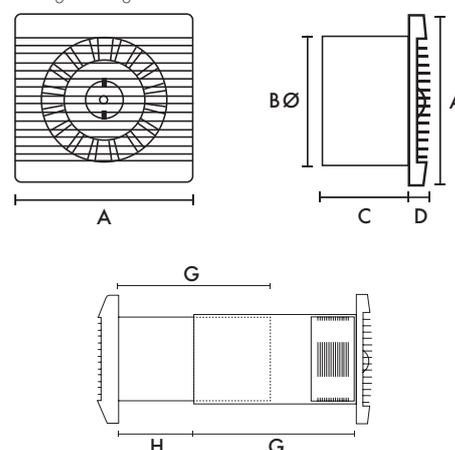
Performance

Setting	Model	Extract Performance			Sound dB(A)	SFP (W/l/s)
		m³/h	l/s	Watts	@ 3m	@ 0Pa
Utility Setting	Lo-Carbon Silhouette 150B/T/HT	165	46	5	35	0.11
Kitchen Setting	Lo-Carbon Silhouette 150B/T/HT	241	67	8.2	43	0.12

Fixing hole diameter 152mmØ (when wall kit used)

Residential Fans

The UK's most comprehensive range of traditional fans for toilets, bathrooms, utility rooms and kitchens.

Silent Fan
The Vent-Axia Silent Fan, the quietest bathroom extract fan on the market.

The stylish design and silent performance means it is the ultimate in discrete bathroom ventilation. This means your bathroom can now be the relaxing environment you always wanted. At only 16 dB(A) our Silent Fan provides stylish and silent ventilation without compromising on performance. Need to hear it to believe it? Email demo@vent-axia.com to arrange a demonstration and hear for yourself just how quiet it is!

Meets current Building Regulations Approved Documents F & L.

Vent-Axia®
Residential Fans

VA100®
Axial Bathroom/ Toilet Fans

Features & Benefits

- Indication light
- Panel, ceiling, window or wall mounting
- Available with electric shutter
- Sensors and auto mode controllers save energy by switching the ventilation units on only when needed and when the room is occupied
- Adjustable overrun time option available (5-30 minutes)
- Meets current Building Regulations Approved Document F
- IPX4 rated

Bathroom and Toilet Ventilation

The VA100 range from Vent-Axia is designed for domestic bathrooms and toilets. Available as window, wall or panel mounted and with options of shutter, timer or humidity controlled versions.

Suitable for ambient temperatures up to +40°C, the unit is fitted with Standard Thermal Overload Protection (S.T.O.P).

Models

VA100LP
Bathroom extract fan pullcord and indication light.
Stock Ref
251110

VA100LT
(Timer)
Bathroom and toilet fan with adjustable electronic overrun timer and indication light which operates on the override only.
Stock Ref
251210

VA100XP
(Shutter)
Bathroom fan with thermo-electric shutter, pullcord and indication light.
Stock Ref
251310

VA100XT
(Timer/Shutter)
Bathroom fan with adjustable electronic overrun timer, thermo-electric shutter and indication light which operates on override only.
Stock Ref
251410

VA100LHP
(Humidity)
Bathroom fan with pre-settable integral auto humidity control, pullcord, and indication light which operates on manual override only.
Stock Ref
251610

VA100XHP
(Shutter/Humidity)
Bathroom fan with pre-settable integral auto humidity control, thermo-electric shutter, pullcord, and indication light which operates on manual override only.
Stock Ref
251710

VA100XHT
(Shutter/Humidity/Timer)
Bathroom fan with pre-settable integral auto humidity control and adjustable electronic overrun timer, thermo-electric shutter and indication light.
Stock Ref
251510

Performance - Panel Models

Model	Extract performance m³/h	l/s	Watts	Sound dB(A) @ 3m	Shutter
VA100LP	107	30	13	36	
VA100LT	107	30	15	36	
VA100XP	107	30	15	36	Thermo
VA100XT	107	30	18	36	Thermo
VA100LHP	107	30	16	36	
VA100XHP	107	30	18	36	Thermo
VA100XHT	107	30	18	36	Thermo

Dimensions (mm)

A	B	C	DØ	E	F	G	H
155	47	53	98	32	32	76	200

Weight 0.55kg

Panel
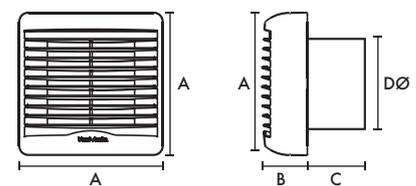
Fixing hole diameter 105mmØ
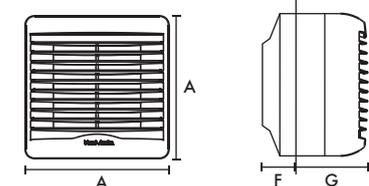
Window

Fixing hole diameter 105mmØ

Window Kit
Stock Ref
254101

Wall

Fixing hole diameter 117mmØ

Wall Kit
Stock Ref
254102 (White)
254100 (Brown)

T: 0844 856 0590

VA100® SELV

Axial Bathroom/ Toilet Fans

Vent-Axia
Residential Fans
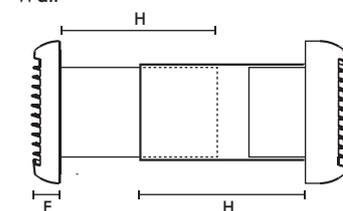
Features & Benefits

- Designed for safe use in the spray area of a bathroom or shower and within reach of a person using a bath or shower
- Available with electric shutter
- Fan IPX7 rated
- SELV Transformer to BS EN 60 742
- Window, ceiling, wall or panel mounting
- Indication light
- Meets current Building Regulations Approved Document F

Safety Extra Low Voltage Fan (SELV)

A range of fans with optional shutter, timer and humidity controlled versions to match application requirements precisely. Designed in a clean white finish and suitable for ambient temperatures up to +40°C the unit is fitted with Standard Thermal Overload Protection (S.T.O.P.).

Designed for areas where a fan has to be fitted over or within Zone 1 in a room containing a fixed bath or shower according to IEE wiring regulations (BS 7671), the VA100 SELV fan can be safely installed within the spray area. The fan is rated IPX7. Control is by mains safety isolating transformer unit with SELV output, which is sited away from any source of spray and out of reach of a person using a fixed bath or shower.

Models

VA100SVL 12
IPX7 rated fan with indication light, complete with remote wall mounted transformer.
Stock Ref
258110

VA100SVX 12
(Shutter)
IPX7 rated fan with thermo-electric shutter and indication light, complete with remote wall mounted transformer.
Stock Ref
258310

VA100SVXP 12
(Shutter/Pullcord)

IPX7 rated fan with thermo-electric shutter and indication light, complete with remote wall mounted transformer. Boost via pullcord.
Stock Ref
258310BD025

VA100SVXT 12
(Shutter/Timer)
IPX7 rated fan with thermo-electric shutter and indication light which operates on override only. Complete with remote mounted transformer with integral adjustable overrun timer.
Stock Ref
258410

VA100SVLHP 12
(Humidity/Pullcord)
IPX7 rated fan complete with remote wall mounted transformer. Integral Humidity Sensor with pullcord override. Indication light which operates on manual override only.
Stock Ref
258112

VA100SVXH 12
(Humidistat/Pullcord)
IPX7 rated fan with thermo-electric shutter complete with remote wall mounted transformer. Integral Humidity Sensor with pullcord override. Indication light which operates on manual override only.
Stock Ref
258312

VA100SVXHT 12
(Shutter/Humidistat)
IPX7 rated fan with integral humidistat/timer, and thermo-electric shutter. Remote wall-mounted transformer with switch live override. Indication light which operates on manual override only.
Stock Ref
258512

Dimensions (mm)

A	B	C	DØ	E	F	G	H
155	44	48	98	32	32	89	200

Weight 0.55kg

Transformer (WxHxD) 147x86x65

Panel
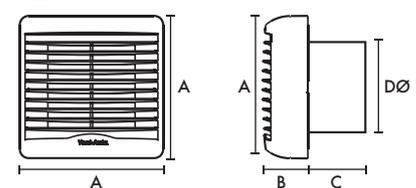
Fixing hole diameter 105mmØ
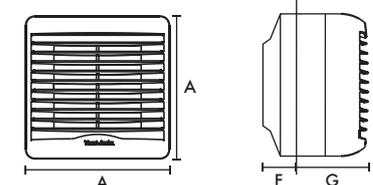
Window

Fixing hole diameter 105mmØ
Window Kit
Stock Ref
254101

Wall

Fixing hole diameter 117mmØ
Wall Kit
Stock Ref
254102 (White)
254100 (Brown)

Performance

Model	m³/h	l/s	Watts	@ 3m	Shutter
		Extract performance		Sound dB(A)	
VA100SVL	75	21	16	36	
VA100SVX	75	21	18	36	Thermo
VA100SVXT/XHP/XHT/XP	75	21	20	36	Thermo
VA100SVLHP	75	21	18	36	
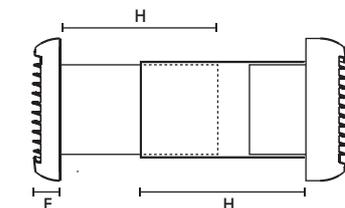
Silhouette® 100
Axial Bathroom/ Toilet Fans

Vent-Axia

Residential Fans

Features & Benefits

- 17mm stylish ultra low profile grille
- Downstream airflow guide vanes for improved pressure development
- Designed for vertical or horizontal application
- Indication light
- Fan IPX4 rated
- Suitable for wall, ceiling, panel and window mounting
- Meets current Building Regulations Approved Document F

Slimline Bathroom Ventilation

With a slim profile of only 17mm, Silhouette blends in with the wall surface to provide an unobtrusive installation. Silhouette has a FID performance of 21 l/s. Silhouette can be ceiling/panel mounted and connected to an appropriate duct run to the outside.

17mm actual profile

Back draught prevention vanes fitted on discharge

Models

Silhouette 100B
Single speed 100mm bathroom/toilet fan with indication light and back draught shutter.
Stock Ref
454055

Silhouette 100T
(Timer)
Single speed 100mm bathroom/toilet fan with integral adjustable electronic overrun timer (5-30 minutes), indication light and back draught shutter.
Stock Ref
454056

Silhouette 100H
(Humidity)
Single speed 100mm bathroom/toilet fan with integral adjustable auto humidity sensor from 60-90% RH, indication light and back draught shutter.
Stock Ref
454057

Silhouette 100TM
(PIR/Timer)
Single speed 100mm bathroom/toilet fan. Integral PIR operated model, (presence detector) with adjustable electronic overrun timer (5-30 minutes) indication light and back draught shutter.
Stock Ref
454058

Dimensions (mm)

A	BØ	C	D	E	F
160	100	80	97	200	32

Weight 0.6kg

Panel
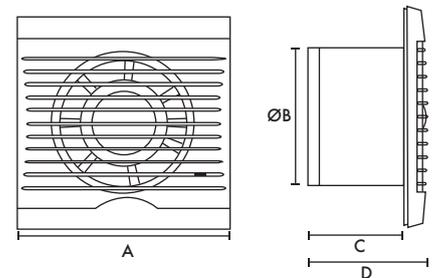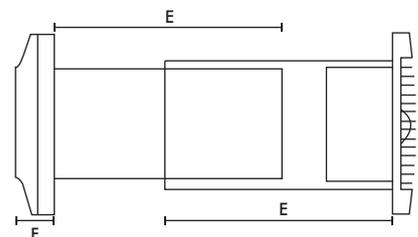
Wall

Fixing hole diameter 117mmØ

Wall Kit
Stock Ref
254102 (White)
254100 (Brown)

Window kit
Stock ref
442947

Performance

Model	Extract Performance - FID		Watts	Sound dB(A) @ 3m
	m³/h	l/s	Watts	@ 3m
Silhouette 100B/T/H/TM	75	21	14	38

T: 0844 856 0590

Silhouette®
100 SELV
Axial Bathroom/ Toilet Fans

Features & Benefits

- 17mm stylish ultra low profile grille
- Downstream airflow guide vanes for improved pressure development
- Designed for vertical or horizontal application
- Fan IPX7 rated
- SELV transformer to BSEN 60742
- Indication light
- Suitable for wall, ceiling, panel and window mounting
- Meets current Building Regulations Approved Document F

Slimline Bathroom Ventilation

With a slim profile of only 17mm, Silhouette blends in with the wall surface to provide an unobtrusive installation. Silhouette has a FID performance of 21 l/s. Silhouette can be ceiling/panel mounted and connected to an appropriate duct run to the outside.

17mm actual profile

Back draught prevention vanes fitted on discharge

Models

Silhouette 100SVB

Single speed 100mm bathroom/toilet fan with indication light and back draught shutter.

Stock Ref
439974

Silhouette 100SVT

(Timer)

Single speed 100mm bathroom/toilet fan with integral adjustable electronic overrun timer (5-30 minutes), indication light and back draught shutter.

Stock Ref
439975

Silhouette 100SVH

(Humidity)

Single speed 100mm bathroom/toilet fan with integral adjustable auto humidity sensor from 60-90% RH, indication light and back draught shutter.

Stock Ref
439976

Dimensions (mm)

A	BØ	C	D	E	F
160	99	80	97	200	32

Transformer (W X H X D) 147 X 86 X 65

Weight 0.6kg

Panel
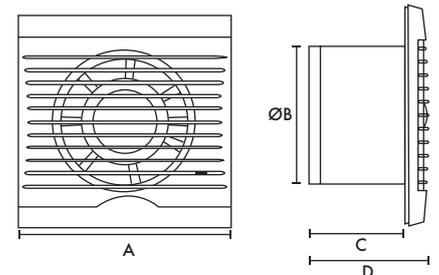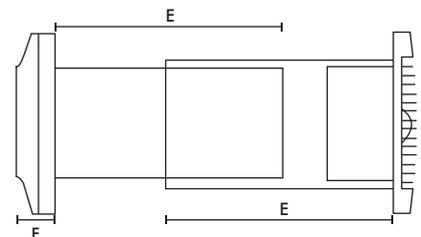
Wall

Fixing hole diameter 117mm

Wall Kit
Stock Ref
254102 (White)
254100 (Brown)

Performance

Model	Extract Performance - FID			Sound dB(A)
	m³/h	l/s	Watts	@ 3m
Silhouette 100SVB/SVT/SVH	76	21	15	38

Vent-Axia®
Residential Fans

Silent Fan 100
Axial Bathroom/ Toilet Fans

ELECTRICAL industry awards **WINNER2012**

Q QUIET MARK 2013
Validated mark of approval

Features & Benefits

- Silent intermittent bathroom fan with two speeds selectable at installation
- Stylish discrete design
- Back draught shutters included
- High efficiency motor
- 2 year guarantee
- IP44 rated
- Standard thermal overload protection on motor
- Suitable for wall, ceiling, window and panel mounting
- Meets current Building Regulations Approved Document F and L

Silent 100 Axial Bathroom/Toilet Fans

The quietest bathroom fan on the market. The VASF100 provides stylish and silent ventilation without compromising on performance.

Back draught prevention vanes fitted on discharge

75dBA — Vacuum Cleaner
70dBA — Dishwasher
60dBA — Conversation Speech
50dBA — Coffee Machine
40dBA —— Standard Fan — Boiling Kettle
30dBA — Quiet Bedroom
20dBA — Rustling Leaves
10dBA —— Silent Fan — A Pin Dropping

Models

VASF100B
1 of 2 speeds selectable at installation. 100mm bathroom / toilet fan with back draught shutter.
Stock Ref
446658

VASF100T (Timer)
1 of 2 speeds selectable at installation. 100mm bathroom / toilet fan with back draught shutter and overrun timer adjustable between 5 and 30 minutes.
Stock Ref
446659

Window Kit
Stock Ref
442947

Wall Kit
Stock Ref
254102 (White)
254100 (Brown)

Dimensions (mm)

A	B	C	D	E	FØ
159	159	123	43	80	99

Weight 0.7kg
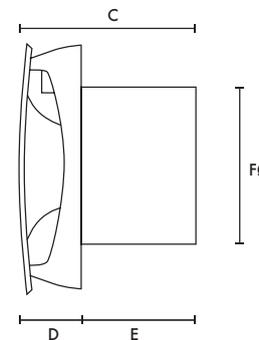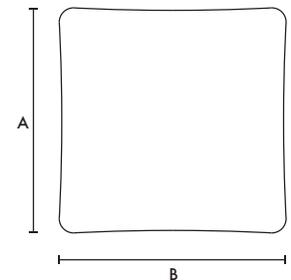
Performance

Model	l/s	Watts	Sound dB(A) @ 3m
VASF100 - low speed	15	4.3	16
VASF100- high speed	21	6.8	28

Silhouette® 125
Axial Bathroom/ Toilet Fans

Features & Benefits

- 18mm stylish ultra low profile grille
- Downstream airflow guide vanes for improved pressure development
- Designed for vertical or horizontal application
- Modern aesthetic with indication light
- Fan IPX4 rated
- Suitable for wall, ceiling and panel mounting

Slimline Bathroom Ventilation

With a slim profile of only 18mm, Silhouette blends in with the wall surface to provide an unobtrusive installation. Silhouette has a FID performance of 160m³/h. Silhouette can be wall, ceiling or panel mounted and connected to an appropriate duct run to the outside.

18mm actual profile

Back draught prevention vanes fitted on discharge

Models

Silhouette 125B
Single speed 125mm, bathroom/toilet fan with indication light and back draught shutter.
Stock Ref
445161

Silhouette 125T
(Timer)
Single speed 125mm bathroom/toilet fan with integral adjustable electronic overrun timer (5-30 minutes), indication light and back draught shutter.
Stock Ref
445162

Silhouette 125H
(Humidistat)
Single speed 125mm bathroom/toilet fan with integral adjustable auto humidity sensor from 60-90% RH, indication light and back draught shutter.
Stock Ref
445163

Dimensions (mm)

A	BØ	C	D
187	125	131	149

Panel
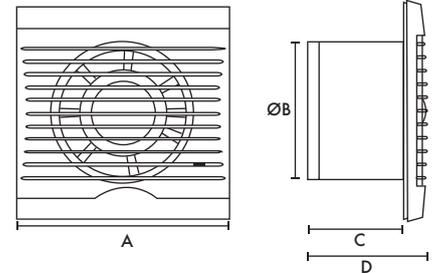
Wall Kit
Stock Ref
455226

Performance

Model	Extract Performance - FID		Watts	Sound dB(A)
	m³/h	l/s		@ 3m
Silhouette 125B/T/H	160	45	20	40
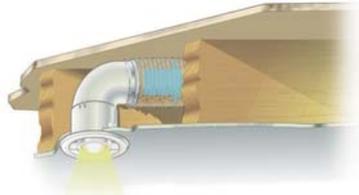
LuminAir®

Fan & Light Combination Unit

Features & Benefits

• The original fan and light combination
• IPX7 rated
• Suitable for shower enclosures and wet areas - can be used within reach of a person using a bath or shower
• Safety extra low voltage (SELV)
• Easy installation
• White, Gold and Chrome bezels available

Safety Extra Low Voltage

The revolutionary Vent-Axia LuminAir Safety Extra Low Voltage fan and light in a single ceiling mounted fitting.

The IPX7 unit is installed directly over a shower in complete safety. Vent-Axia LuminAir extracts moisture and humidity at source, preventing damaging condensation from spreading. At the same time it bathes the shower enclosure in a rich soft light - bringing any dark shower to life. Ideal for all types of bathroom and shower applications, and is particularly suitable for bedsit and en-suite shower installations.

Designed for mounting in a wide variety of ceiling thicknesses. The safety isolating transformer to BS EN 60742 is mounted in a purpose made enclosure that can be wall mounted or sited in the loft, and is designed to accept mini trunking (LuminAir L transformer - IP20 - loft mounted).

LuminAir has a 20 Watt 40° spread, preformed Dichroic Multi-Mirror™ lamp, to give a pool of soft warm light. The lamp has a long life and is simple to change.

Seperate lighting transformer also supplied.

Models

LuminAir L
(Switch Live)
Provides simultaneous fan and light operation from the bathroom light switch.
Stock Ref
188110

LuminAir T
(Timer)
Switches the fan On with the light. When the light is switched Off, the fan continues to run for an adjustable set period to meet the Building Regulations for internal bathrooms.
Stock Ref
188210

LuminAir H
(Humidistat)
Combines a light activated by the bathroom light switch and an Ecotronic Humidity Sensor which will switch the fan On whenever the humidity level warrants.
Stock Ref
188610

Supply to the LuminAir transformer 220-240V/1/50Hz.

Output to LuminAir 12V SELV/1/50Hz. Safety isolating transformers conform to BS EN 60742.

Optional Bezels
Stock Ref
452044 - Chrome
452045 - Gold

LuminAir Vent Light
Safety Extra Low Voltage Duct Air Inlet
LuminAir Vent Light is for upgrading existing extract systems or to provide multiple extract points to a central fan. The Vent Light consists of a LuminAir Safety Extra Low Voltage (SELV) light with white ceiling bezel and 90° bend suitable for use with remote extract fan using 100mm duct. On/Off operation is via the bathroom light switch. Gold and chrome bezels are available as accessories.
Stock Ref
453395 - White

Dimensions (mm)

	A	B	C	DØ	E	F	G
LuminAir	150	140	98	103	150	10	180
Transformer (Fan)	147	86	65				
Transformer (Light)	110	35	25				
Humidity Sensor	87		47				

Fixing hole diameter 110mm

FAN & LIGHT   VENT LIGHT

Humidity Sensor

Performance

	Extract performance - FID		Max	Sound dB(A)	Amps
Model	m³/h	l/s	Watts	@ 3m	@ 240V
LuminAir L	110	31	40	35	0.2
LuminAir T	110	31	42	35	0.2
LuminAir H	110	31	44	35	0.2

Vent-Axia

Residential Fans
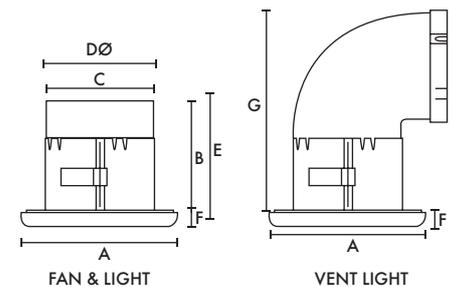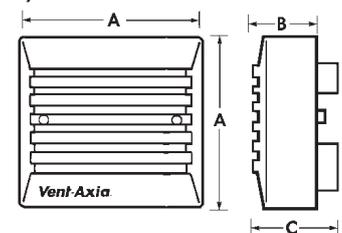
LuminAir®
Fan & Light
Ventilation Kit

Features & Benefits

- Unique fan and light combination
- IPX7 rated inlet assembly
- Suitable for shower enclosures and wet areas - can be used within reach of a person using a bath or shower
- Safety extra low voltage (SELV) fan and lamp
- Easy installation
- White, Gold and Chrome bezels available

SELV Fan & Light Combination

LuminAir is also available in the form of a ventilation kit. The IPX7 unit is installed directly over a shower in complete safety.

Vent-Axia LuminAir extracts moisture and humidity at source, preventing damaging condensation from spreading. At the same time it bathes the shower enclosure in a rich soft light - bringing any dark shower to life. Ideal for all types of bathroom and shower applications, and is particularly suitable for bedsit and en-suite shower installations.

Separate lighting transformer also supplied.

Models

LuminAir L, T or H SELV fan and light, choice of bezel, 90° bend, 3m of flex-duct, wall grille and cable ties.

LuminAir Shower Ventilation Kit L (Switch Live)
Provides simultaneous fan and light operation from the bathroom light switch.
Stock Ref

453410 - White

LuminAir Shower Ventilation Kit T (Timer)
Switches the fan On with the light. When the light is switched Off, the fan continues to run for an adjustable set period.
Stock Ref

453413 - White

LuminAir Shower Ventilation Kit H (Humidistat)
Combines a light activated by the bathroom light switch and an Ecotronic Humidistat Sensor which will switch the fan On whenever the humidity level warrants.
Stock Ref

453416 - White

Optional Bezels
Stock Ref

452044 - Chrome

452045 - Gold

Transformer Dimensions (mm)

	Length	Height	Depth
Transformer (Fan)	147	86	65
Transformer (Light)	110	35	25
Humidity Sensor	87	87	33

Fixing Hole diameter 110mm

Dimensions (mm)

AØ	B	C	DØ	E
150	180	139	98	10

Fixing hole diameter 110mm

Performance

	Extract Performance - FID			Sound dB(A)	Amps
Model	m³/h	l/s	Watts	@ 3m	@ 240V
LuminAir Ventilation Kit L/T/H	110	31	40	35	0.2
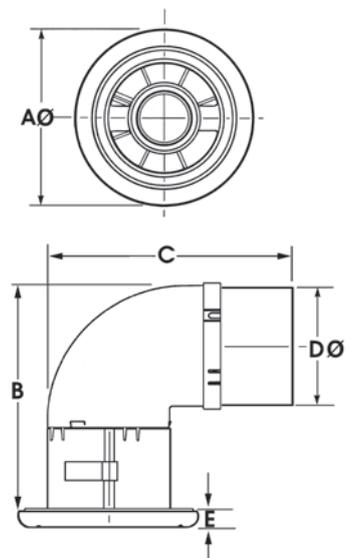
LuminAir®
Turbo Fan & Light
Ventilation Kit

Features & Benefits

- Unique fan and light combination
- IPX7 rated inlet assembly
- Suitable for shower enclosures and wet areas - can be used within reach of a person using a bath or shower
- Safety extra low voltage (SELV) lamp
- Easy installation
- White, Gold and Chrome bezels available

High Performance Fan & Light Combination

LuminAir is also available in the form of a ventilation kit. The IPX7 unit is installed directly over a shower in complete safety.

Vent-Axia LuminAir extracts moisture and humidity at source, preventing damaging condensation from spreading. At the same time it bathes the shower enclosure in a rich soft light - bringing any dark shower to life. Ideal for all types of bathroom and shower applications, and is particularly suitable for bedsit and en-suite shower installations.

Models

For applications where a more powerful system is required, the kit comprises a luminair turbo L or T mains fan and SELV light, choice of bezel, 90° bend, 6 metres of flexible duct, quick fix wall grille and four cable ties. Meets Building Regulations approved Document F performance assuming ductwork provided is fully extended and one 90° bend.

LuminAir Turbo SKL
(Switch Live)
Provides simultaneous On and Off operation of the fan and light from the bathroom light switch.
Stock Ref
453419 - White

LuminAir Turbo SKT
(Timer)
Switches the fan On with the light. When the light is switched Off, the fan continues to run for an adjustable fixed period to meet the Building Regulations for internal bathrooms.
Stock Ref
453422 - White

Optional Bezels
Stock Ref
452044 - Chrome
452045 - Gold

Dimensions (mm)

	AØ	B	C	D	E	F	H
Vent Light	150	180	10				
Turbo Fan	97	178	124	298	96	168	153.5
Ceiling Fixing hole diameter 110mm							

Vent Light and Bend
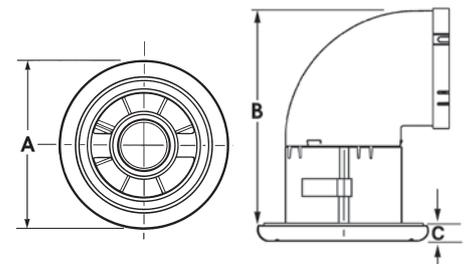
Turbo Fan
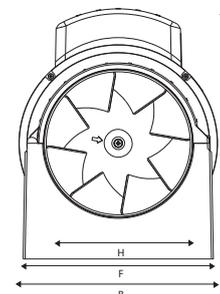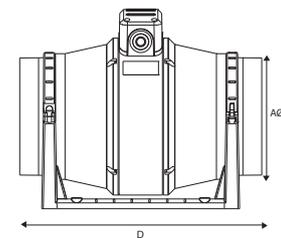
Transformer Dimensions

	Length	Width	Lid	Base
Transformer T&H	175	90	55	30
Transformer L	83	76	70	61
Humidity Sensor	87	87	33	

Fixing Hole diameter 110mm

Performance

	Extract Performance - FID			Sound dB(A)	Amps
Model	m³/h	l/s	Watts	@ 3m	@ 240V
LuminAir Tubo SKL/SKT	160	44	35	38	0.3

Solo® Plus

Centrifugal Bathroom/ Toilet Fan

Features & Benefits

- Filterless as standard - innovative impeller design means no need for a filter
- Meets current Building Regulations Approved Documents F & L requirements for domestic bathrooms and toilets
- IPX4 rated
- Flush or surface mountable
- Adjustable rear or side exit spigot
- Extremely low sound levels
- Suitable for wall, ceiling and panel mounting

Bathroom and Toilet Ventilation

The Solo Plus range from Vent-Axia has been specially designed for through the wall and ducted applications, suitable for internal bathrooms, toilets and other small rooms. Finished in white, the Solo Plus can be flush or surface mounted, with a 100mm circular spigot for rear entry or connecting to a vertical ducting system. The spigot can also be adjusted for side ways exhaust enabling recessed ceiling installations within limited ceiling voids. The powerful centrifugal impeller allows for installations with longer duct runs using 100mm ducting, whilst still achieving 15 l/s as required by Document F of the current Building Regulations.

Continuous running products, such as the Solo Plus installed in all wet areas of a dwelling are classed as a wholehouse ventilation system and therefore, only needs to move the amount of air as laid down in table 1.1b of Document F.

The Solo Plus has a choice of two boost/override motor speeds set at installation, medium (17l/s) or high (22l/s), with an optional constant trickle speed (9l/s), also selectable at installation except in the P model. Depending on the model, the fan will switch from trickle (if selected) to boost (medium or high) via the pullcord/light switch/humidity sensor/PIR.

All models can be wall, panel or ceiling mounted and can be connected to either circular, rectangular or Vent-Axia's flat ducting. Enclosure of the electrical components is manufactured from flame retardant grade material.

Supply voltage 220-240V/1/50Hz.

Models

Solo Plus P
(Pullcord)
Flush or surface mountable. Control by pullcord single speed; 1 of the 3 speeds selectable at installation.
Stock Ref
427477

Solo Plus T
(Timer)
Flush or surface mountable. Constant trickle option. 2 Speed. Adjustable timer overrun. Delay on timer option.
Stock Ref
427478

Solo Plus HT
(Humidistat-timer)
Flush or surface mountable. Humidity controlled fan with override pullcord. Constant trickle option. Adjustable timer overrun. Delay on timer option. Adjustable humidity sensor.
Stock Ref
427479

Solo Plus TM
(Timer/PIR)
Flush or surface mountable. Control by integral PIR detector. Constant trickle option. 2 Speed.
Stock Ref
427480

Solo Plus Bezel
Used when flush mounting, reduces need to make good.
Stock Ref
404106

Wall Kit
Stock Ref
254102 (White)
254100 (Brown)

Filter pack (1 per pack)
The design of the Solo Plus means that is does not need a filter. However, if you are going to install the product in a heavily greasy environment, you may want to protect the product by fitting a filter.
Stock Ref
449265

Dimensions (mm)

A	B	C	D	EØ
263	224	106	55	98

F	G	H	I	J
62	65	98	21	34

Performance Guide

	Extract Performance l/s (m³/h) - FID			Watts			dB(A) @ 3m		
Model	Max Boost	Min Boost	Trickle	Max Boost	Min Boost	Trickle	Max Boost	Min Boost	Trickle
Solo Plus P/T/HT/TM	22 (80)	17 (61)	9 (32)	17.1	10.9	6.3	34.5	24	11.5

Tested at 240VAC @ 50Hz
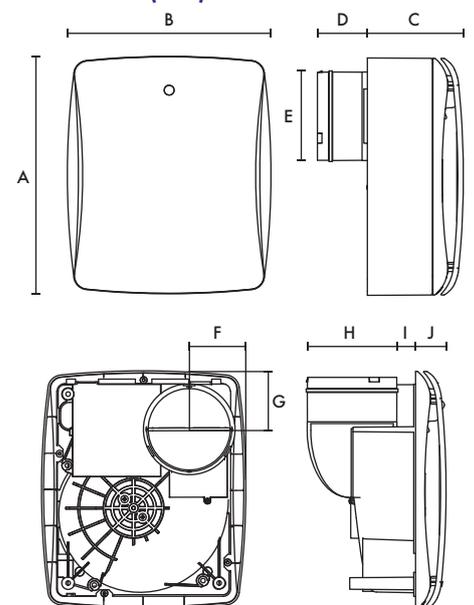
Solo®
Centrifugal Bathroom/ Toilet Fans

Features & Benefits

- 100mm high performance centrifugal extract fan for internal bathrooms, toilets and other small rooms
- High performance 24l/s
- Single speed, dual speed and overrun timer models
- Suitable for wall, ceiling, panel and window mounting
- Built-in washable filter feature
- PIR version also available
- Suitable for use with flat ducting
- Double insulated
- IPX4 rated

High Performance Ventilation

The Solo Safety Extra Low Voltage (SELV) range of high performance centrifugal extract fans from Vent-Axia have been specifically designed for effective ducted ventilation of internal bathrooms, toilets and other small rooms. Finished in White. The Solo range can be used with 100mm diameter smooth bore duct in straight runs equal to 50m, yet still meets the 15l/s required by the current Building Regulations Document F for ventilation of bathrooms. IP44 Rated.

Models are available for surface or recessed mounting directly into standard 100mm diameter ducting. Suitable for panel, wall and ceiling installations and windows up to 25mm thick. For high rise or coastal applications, install through the wall with a Vent Cowl (Stock Ref 561403).

Models

Solo P
(Pullcord)
Single speed 24l/s. Control by pullcord or from light/remote switch or sensor.
Stock Ref
11101010

Solo T
(Timer)
Single speed 24l/s. Control by light/remote switch. Overrun timer variable from 5 to 30 minutes.
Stock Ref
11101030

Solo TM2
(Timer/PIR)
Control by integral PIR detector. Fan is switched ON when PIR is triggered. Built-in overrun timer, variable from 5 to 30 minutes, switches fan Off.
Stock Ref
11101060

Solo HTP
(Humidity and Timer)
Humidity controlled single speed fan with pullcord override. 17 min overrun timer.
Stock Ref
11101080

Wall Kit
Stock Ref
254102 (White)
254100 (Brown)

Dimensions (mm)

A	B	C	DØ	E	F	G	H
155	140	36	98	85	55	60	195

Weight 1.35kg

Wall
Front view
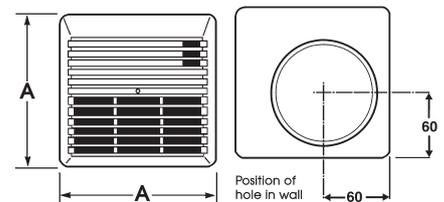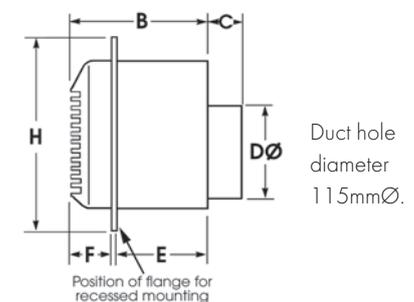
Position of hole in wall

Side view

Duct hole diameter 115mmØ.

Position of flange for recessed mounting

Window

Window fixing hole Ø113mm

Performance
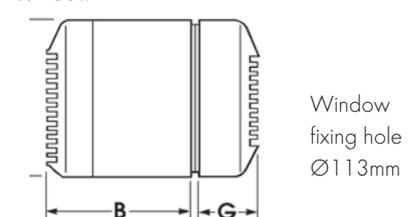
Model	Extract Performance m³/h	Extract Performance l/s	Max Watts	dB(A) @ 3m	Amps @ 240V
Solo P/T/TM2/HTP	85	24	35	42	0.15

Solo® SELV
Centrifugal Bathroom/ Toilet Fans

Features & Benefits

- Suitable for installation over or within reach of a shower or bath
- Built-in washable filter feature
- Meets current Approved Building Regulations Document F
- IPX7 rated
- Transformer complies with BS EN 60742
- Two speed model available
- Suitable for wall, ceiling, panel and window mounting

Safety Extra Low Voltage

The Solo Safety Extra Low Voltage (SELV) 12 range has been developed specifically for complete safety in the `splash zone' of a bathroom and shower room for those rooms, usually internal, that need to have the exhaust air ducted some distance to an external discharge point. A single inlet impeller has been designed for maximum performance and minimum noise levels. The grille ensures efficient air management and incorporates a filter that can be removed for cleaning without dismantling the fan.

Suitable for wall, panel and ceiling installations and windows up to 25mm thick. For high rise or coastal applications, install through the wall with a Vent Cowl (Stock Ref No. 561403). With a powerful SELV motor and proven high efficiency centrifugal impeller, Solo SELV 12 can be used with 100mm diameter smooth bore duct in straight runs equal to 50m, yet still meets the 54m³/h (15 l/s) **required by the current Building Regulations Approved Document F** for ventilation of bathrooms. Solo SELV 12 can also be used with flat ducting for shorter concealed runs.

The safety isolating transformer, to BS EN 60742, is mounted in a purpose made enclosure. The enclosure can be wall mounted or sited in the loft. The enclosure will accept mini trunking.

Electrical

Rear 20mm conduit entry for recessed wiring and side entry grommet for surface wiring.

Supply voltage to transformer/controller 220-240V/1/50Hz. Output to fan 12V SELV/1/50Hz.

To meet IEE Regulations, timer models should be isolated using a 3 pole isolator.
3 pole insulator
Stock Ref
563518

Models

Solo SELV 12
SELV fan with airflow shutter and washable filter. Mains transformer with 12V SELV output.
Stock Ref
11108000

Solo SELV T 12
(Timer)
SELV fan with airflow shutter and washable filter. Mains transformer with 12V SELV output with presettable overrun timer (5-30 minutes).
Stock Ref
11108030

Solo SELV HP 12
(Humidity)
SELV fan with airflow shutter and washable filter. Controller. Mains transformer with 12V SELV output with pullcord override included.
Stock Ref
11108040

Solo SELV DP 12
(Two speed)
Two speed SELV fan with airflow shutter and washable filter. Mains transformer with 12V SELV output.
Stock Ref
11108020

Dimensions (mm)

A	B	C	DØ	E	F	G	H
155	140	36	98	85	55	60	195

Transformer (W x H x D) 175 x 90 x 85

Weight 1.35kg

Wall
Front view
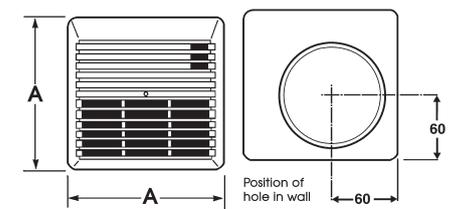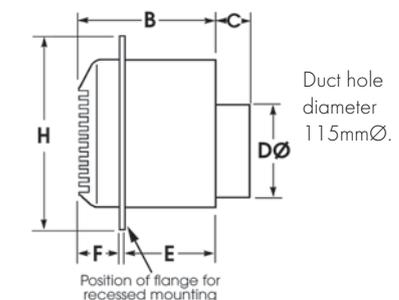
Position of hole in wall

Side view

Duct hole diameter 115mmØ.

Window

Window fixing hole Ø113mm
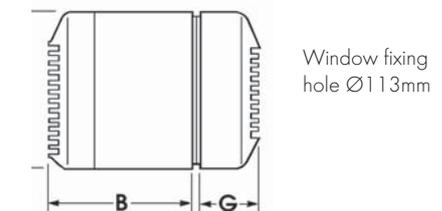
Performance

Model		Extract Performance m³/h	l/s	Max Watts	dB(A) @ 3m	Amps @ 240V
Solo SELV12/T/HP		85	24	39	42	0.26
Solo SELV12 DP	Hi	85	24	39	42	0.26
	Lo	45	13	20	37	0.12

VA140/150
Axial Kitchen Fans

Features & Benefits

- VA140/150 Panel models
- 2 Year Guarantee
- Thermo electric shutters to prevent back drafts
- Meets current Building Regulations Approved Document F
- IP44 rated
- Suitable for wall, ceiling, panel and window mounting

Kitchen ventilation

VA140/150 Panel models are designed to alleviate the everyday problems that condensation and household odours may cause. Effectively extracts odours and moisture laden air from kitchens giving a healthy and fresh environment.

Building Regulations

Specifically sized to **meet the current Building Regulation requirements** for powered extract ventilation in domestic kitchens. Control facility fitted as standard. The VA140/150 range is fitted with internal louvres conforming to the latest international safety standards.

Please contact our Customer Service Department for exposed site application.

Models

VA140/150KP
Single speed kitchen extract fan with On/Off pullcord.

Stock Ref
140120

VA140/150KT
(Timer)
Single speed kitchen extract fan with adjustable overrun timer (3-30 minutes).

Stock Ref
140220

VA140/150KHP
(Humidistat)
Single speed humidity-controlled kitchen extract fan with full speed pullcord override. Humidity adjustment 62-82%RH.

Stock Ref
140320

VA140/150KHT
(Timer/Humidistat)
Humidity controlled kitchen extract fan with adjustable overrun timer (3-30 minutes). Humidity adjustment 62-82% RH.

Stock Ref
140420

VA140/150VS
Variable speed kitchen extract with a built in adjustable speed controller, which can reduce the speed to 40% of its maximum performance.

Stock Ref
458915

Dimensions (mm)

A	B	C	DØ	E	FØ	G	H
216	224	80	146	60	152	220	37

Weight 1.75kg
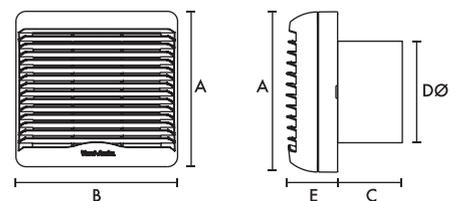
Panel

Panel fixing hole Ø 152mm
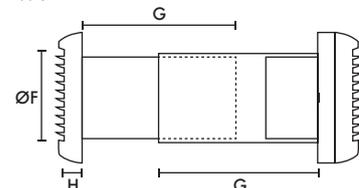
Wall

Wall fixing hole Ø 152mm

Wall Kit
Stock Ref:
140902 (White)
140903 (Brown)
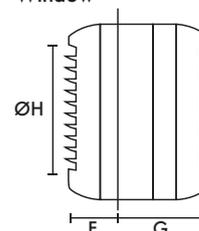
Window

Window fixing hole Ø 160mm
Window Kit

Stock Ref
140901

Performance

Model	Shutter Actuator	Extract Performance FID m³/h	l/s	Watts	Sound dB(A) @ 3m
VA140/150KP	Pullcord	245	68	18.8	36
VA140/150KT/KHP/KHT	Instant	245	68	18.8	36
VA140/150VS	Pullcord	100 low 245 boost	28 low 68 boost	18.8	36

VA150®
Window Mount Axial Kitchen Fans

Features & Benefits

- Complete with window kit
- 2 Year Guarantee
- Meets current Building Regulations Approved Document F
- IP44 rated

Kitchen ventilation

VA150 Window models are designed to alleviate the everyday problems that condensation and household odours may cause. Effectively extracts odours and moisture laden air from kitchens giving a healthy and fresh environment.

Shutter

The louvre shutter on the VA150 is concealed behind the interior grille. Operates automatically when the fan is switched On. Natural trickle vent facility (unpowered) available on all models.

Building Regulations

The VA150 Range is specifically sized to **meet the current Building Regulation requirements** for powered extract ventilation in domestic kitchens. The VA150 range is fitted with internal and external louvres conforming to the latest international safety standards.

Motor

Maintenance free, sealed for life ball bearings in the purpose made electric motor, economical and quiet running. Double insulated appliance.
Supply voltage 220-240V/1/50Hz.

Models

VA150P

Specifically designed for domestic use in kitchens and utility rooms, the VA150P is a single speed 150mm (6") extract ventilation unit for windows. Fan and shutter operated by integral pullcord. (window kit supplied) Colour: white.

Stock Ref
152110

VA150A

A single speed 150mm (6") extract fan with instant opening/closing shutter operated by remote switch. Suitable for installation in bathroom or kitchen. (Window kit supplied) Colour: white.

Stock Ref
153110

Dimensions (mm)

A	B	C	D
216	224	130	55

Weight 2.5kg
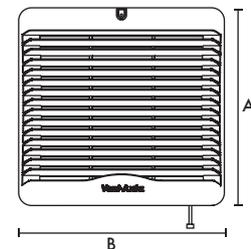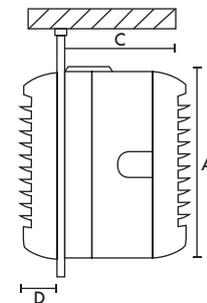
Window fixing hole Ø 184mm

Performance

Model	Shutter Attenuator	Extract Performance - FID m³/h	l/s	Watts	Sound dB(A) @ 3m
VA150P/A	Pullcord/Instant	220	60	19	37

Silhouette® 150
Axial Kitchen Fans

Features & Benefits

- Stylish ultra low profile grille
- Downstream airflow guide vanes for improved pressure development
- Modern aesthetics
- Electric back draught shutters
- IPX4 rated
- Suitable for wall, ceiling and panel mounting
- Meets current Building Regulations Approved Document F

Slimline Kitchen Ventilation

The Vent-Axia Silhouette range is designed for modern living. With a profile of only 19mm on the kitchen models, Silhouette blends in with the wall surface to provide an unobtrusive installation.

Mounted in the centre of the fan, beneath the ultra slim profile grille, are the electronics, incorporating a humidistat for detecting a change in internal humidity or an overrun timer option that is adjustable between 5 and 30 minutes.

Models

Slim profile only 19mm. FID performance of 241m³/h, double insulated.

Silhouette 150X
Single speed 150mm kitchen fan with indication light and electric back draught shutter.
Stock Ref
454059

Silhouette 150XT
Single speed 150mm kitchen fan with integral adjustable electronic overrun timer (5-30 minutes), indication light and electric back draught shutter.
Stock Ref
454060

Silhouette 150XH
Single speed 150mm with integral adjustable auto humidity sensor from 60-90% RH, indication light and electric back draught shutter. Switch live for override by remote switch/light switch.
Stock Ref
454061

Wall Kit
Stock Ref
140902 (White)
140903 (Brown)

Dimensions (mm)

A	B	C	D	G	H
223	147	111	19	220	37

Weight 1.75kg

Panel

Wall

fixing hole diameter 152mmø (when wall kit used)

Performance

Model	Extract Performance - FID		Watts	Sound dB(A)
	m³/h	l/s		@ 3m
Silhouette 150X/XT/XH	241	67	20	43
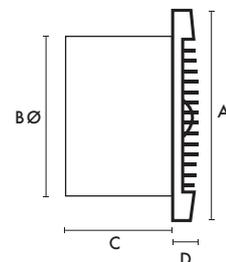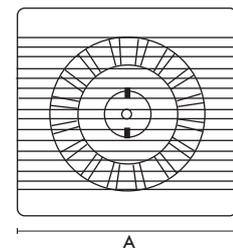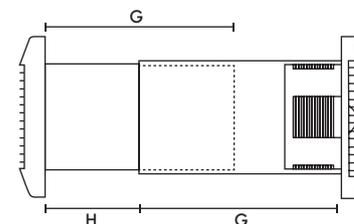
Centrif® Duo
Centrifugal Kitchen & Utility Room Fans

Features & Benefits

- 100mm circular spigot for speedy installation
- Humidity sensing model for automatic operation
- Suitable for both kitchen and utility rooms
- Removable grille assembly for easy cleaning
- Speed set at installation
- Meets current Building Regulations Approved Document F
- Timer model for internal rooms
- Surface or recessed installation options
- Includes washable grease filter

Kitchen and Utility Ventilation

The Centrif Duo range is a series of 100mm centrifugal extract fans for the domestic environment. The range is designed to provide extraction levels **that comply with Building Regulation requirements,** with special humidity sensing variants for local authority use.

Motor

The motor features greased-for-life ball bearings which allow the fan to be installed at any angle. Insulation is Class E. Double insulated appliance. Supply voltage 220-240V/1/50Hz.

Fast installation

The Centrif Duo has a 100mm circular spigot. The Flush mounting kit enables the spigot to be converted to a side outlet. The spigot also encloses a built-in, spring operated back draught shutter. The Centrif Duo Range can be wall mounted using a telescopic wall fitting kit available as an accessory (requires a 115mm diameter hole). For ceiling applications the range is ducted either through a soffit outlet or roof cowl assembly. There is convenient access for wiring which can be surface or recessed.

Humidistat control

Humidistat is selectable for either kitchen or utility speed separate to any other control to reduce nuisance noise. Boost operation by pullcord or switch live.

Models

Centrif Duo P (Pullcord)
Two speed kitchen extract fan with pullcord. Choice of two speeds for boost, set at installation.
Stock Ref
256120

Centrif Duo T (Timer)
Two speed with adjustable timer between 5-30 minutes. Choice of two speeds for boost, set at installation.
Stock Ref
256220

Centrif Duo DP (Two Speed)
Two speed and Off with pullcord or remote switch. Switches between Off, low and one of the 2 boost speeds.
Stock Ref
256320

Centrif Duo HTP (Humidity)
Intermittent on 1 of 2 speeds (Utility or Kitchen selectable at installation). Operation by integral humidity sensor or pullcord. Separate speeds selectable for humidistat and pullcord. Optional continuous trickle speed available at installation.
Stock Ref
256420

Flush Mounting Kit

Bezel, clips and 90° duct elbow, reduces the need to make good.
Stock Ref
439256

Dimensions (mm)

A	B	C	D	E	FØ
231	261	137	79	58	98

Weight 1.75kg
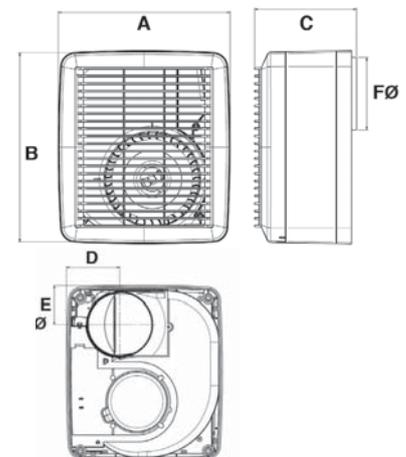
Wall Kit
Stock Ref
254102 (White)
254100 (Brown)

Decoration Frame Assembley
Stock Ref
442551

Performance

Performance @ 0 pa

Model	High speed		Med speed		Low speed		Power (W)			Sound dB(A) @ 3m		
	m³/h	l/s	m³/h	l/s	m³/h	l/s	Kitchen	Utility	Trickle	Kitchen	Utility	Trickle
Centrif Duo P/T	220	61	130	36	-	-	60	41	N/A	51.8	38	N/A
Centrif Duo DP/HTP	220	61	130	36	90	25	60	41	9	51.8	38	21.5

Centrif® Duo Plus
Centrifugal Kitchen & Utility Room Fans

Features & Benefits

- Meets current Building Regulations Approved Document F
- Optional filter available
- Easy installation
- Fan can be wall or ceiling mounted
- Suitable for both kitchen and utility rooms
- Constant trickle boost speed available on DP & HTP models

Ultra Quick Ventilation

Centrif Duo Plus is designed to provide extraction levels that comply with Building Regulations Approved Document requirements, with special humidity sensing variants for local authority use.

The Centrif Duo Plus is for kitchens and utility rooms and large bathrooms. Surface mounting directly into standard 100mm diameter ducting, through the wall or ceiling installation.

Fast installation

The Centrif Duo Plus has a 100mm circular spigot. The Flush mounting kit enables the spigot to be converted to a side outlet.

The spigot also encloses a built-in, spring operated back draught shutter. The Centrif Duo Plus Range can be wall mounted using a telescopic wall fitting kit available as an accessory (requires a 115mm diameter hole). For ceiling applications the range is ducted either through a soffit outlet or roof cowl assembly. There is convenient access for wiring which accommodates surface or recessed installation.

Performance

Improved Humidistat control

Humidistat is selectable for either kitchen or utility speed separate to any other control to reduce nuisance noise. Boost operation by pullcord or switch live.

Models

Centrif Duo Plus P
(Pullcord)
Two speed kitchen extract fan with pullcord. Choice of two speeds for boost, set at installation.
Stock Ref
431613

Centrif Duo Plus T
(Timer)
Two speed with adjustable timer between 2-30 minutes. Choice of two speeds for boost, set at installation.
Stock Ref
431614

Centrif Duo Plus DP
(Two speed)
Two speed and Off with pullcord or remote switch. Switches between Off, low and one of the 2 boost speeds.
Stock Ref
431615

Centrif Duo Plus HTP
(Humidity)
Intermittent on 1 of 2 speeds (Utility or Kitchen selectable at installation). Operation by integral humidity sensor or pullcord. Separate speeds selectable for humidistat and pullcord. Optional continuous trickle speed available at installation.
Stock Ref
431616

Flush Mounting Kit
Bezel, clips and 90° duct elbow reduces the need to make good.
Stock Ref
439256

Centrif Duo Plus Filter
Stock Ref
439927

Wall Kit
Stock Ref
254102 (White)
254100 (Brown)

Decoration Frame Assembley
Stock Ref
442551

Dimensions (mm)

A	B	C	D	E	FØ
231	261	140	79	58	98

Weight 1.75kg

Performance @ 0 pa

Model	High speed		Med speed		Low speed		Power (W)			Sound dB(A) @3m		
	m³/h	l/s	m³/h	l/s	m³/h	l/s	Kitchen	Utility	Trickle	Kitchen	Utility	Trickle
Centrif Duo P/T	220	61	130	36	-	-	60	41	N/A	51.8	38	N/A
Centrif Duo DP/HTP	220	61	130	36	90	25	60	41	9	51.8	38	21.5

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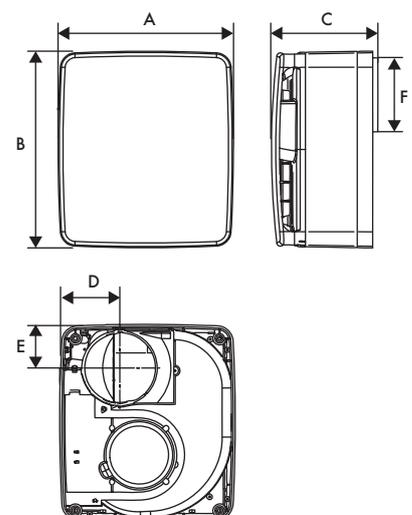
Duet® Twin Fans

Bathroom/Toilet
Run & Standby Fans

Features & Benefits

- Designed to meet Local Authority run and standby specifications
- Quiet operation
- Meets current Building Regulations Approved Document F
- Run and standby facility
- Self diagnostic check of controls
- Overrun timer as standard
- Remote PIR's or humidistat can be installed

Bathroom ventilation

Duet is a range of run and standby fans designed to provide extraction levels that **comply with Building Regulations Approved Document F** for bathrooms and toilets and incorporates a run on timer. All models offer automatic change over on fan failure. Ultra quiet and particularly suitable for areas where unobtrusive sound levels are essential. Duet meets the requirement of Health Technical Memorandum 2025, foul extract ventilation systems 2.8. Ideal for new build and refurbishment installations.

Duet features include LED indicators showing the status of the unit, self diagnostic check of controls before the fan will start, run and standby facility, 5-25 minute run on timer and 24 hour auto fan change over. Suitable for ambient temperatures of up to +40˚C, built-in dust filters.

Double insulated appliance.

Supply voltage 220-240V/1/50Hz.

Duet is suitable for use with either 100mm diameter ducting or flat ducting, for installations that need concealed ducting, with a minimal ceiling void of only 90mm required.

Models

Duet Surface
Requires 100mm circular hole in wall. Fan 1/Fan 2 running indicators, fault indicator.
Stock Ref
180510

Duet Recessed
Flush-mounted model with 100mm discharge spigot. Two flush-mounted washable filter panels, Fan 1/Fan 2 running indicators, fault indicator.
Stock Ref
180610

Duet Duct
Sheet metal construction. Up to 2 inlets can be connected. 100mm discharge spigots.
Stock Ref
180710

Remote Indicator
The remote indicator unit provides fan status information at a convenient position.
Stock Ref
180010

Dual sized spigot
Stock Ref
GTFSP

Wall Kit
Stock Ref
254102 (White)
254100 (Brown)

Dimensions (mm)

	A	B	C	D	EØ	F	G
Surface	347	170	224	69	99	35	
Recessed	385	233	366	255	98	230	35
Duct	366	233	230	36	98		

Duet Surface
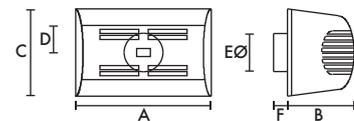
Duet Recessed
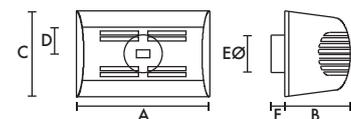
Duet Duct
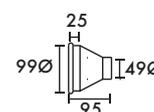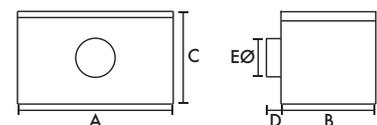
OPTIONAL DUAL SIZED SPIGOTS GIVE EITHER 50MM OR 100MM STANDARD PIPE PART NO. GTFSP

Performance

	Extract Performance - FID			Sound dB(A)	Amps
Model	m³/h	l/s	Watts	@ 3m	@ 240V
Surface/ Recessed/ Duct	122	33	35	One fan running 34	0.25

Gemini Twin Fans

Kitchen/Utility
Run & Standby Fans

Vent-Axia
Residential Fans

Features & Benefits

- Suitable for kitchen and utility room applications
- Comes complete with a plug in power pack
- Duty sharing features supplied as standard
- Meets current Building Regulations Approved Document F
- Surface, flush and duct mounting versions are available
- Overrun timer as standard
- Remote PIR's or humidity sensors can be installed

Ultra quiet ventilation

The Vent-Axia Gemini range of run and standby fans offers high performance double inlet forward curve fan motor impellers, typically suitable for high system resistance installation. In the event of failure the standby fan is operated, and visual fan failure indication (via integrated or optional remote indication light) is illuminated. The surface mounting model has a styled cover. For flush or duct mounting the power pack and back plate assembly is located within a galvanised steel casing and fitted with either a PVC cover for flush mounting or a galvanised steel cover for connection to ducts.

The Gemini range has an integrated overrun timer function fitted as standard, enabling versatile operation to **comply with the Building Regulations Approved Document F** for internal rooms and Local Authority specification. The overrun timer can be manually adjusted between 1 and 20 minutes. (Units are factory set with the timer set to approximately 20 minutes).

All models incorporate a basic power pack which includes the motor housing, power on, fan run and fan fail indication light, which allows you to install the back plate at the first fix stage and plug in the power pack when the unit is ready for use. The power pack is pre-wired and incorporates a plug in arrangement for fitting to the back plate.

Installation

The Vent-Axia Gemini range is designed for installation in kitchens and utility rooms. Surface, flush or duct mounting models are available. The units **meet current Building Regulations Approved Document F.**

Models

Gemini Surface
A surface mounted twin fan model with 100mm spigot.

Model	Stock Ref
GTFS	457479

Gemini Recessed
A flush mounted twin fan model for recessed applications.

Model	Stock Ref
GTFF	457480

Gemini Duct
A twin fan ducted model for in-line applications.

Model	Stock Ref
GTFD	457481

Remote Indicator
The remote indicator unit provides fan status information at a convenient position.
Stock Ref
180010

Dual sized spigot
Stock Ref
GTFSP

Wall Kit
Stock Ref
254102 (White)
254100 (Brown)

Dimensions (mm)

	A	B	C	D	EØ	F	G
Surface	347	170	224	69	99	35	
Recessed	385	233	366	255	98	230	35
Duct	366	233	230	36	98		

Gemini Surface
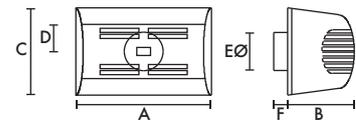
Gemini Recessed
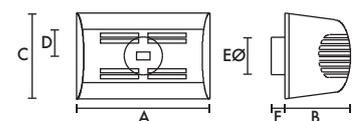
Gemini Duct
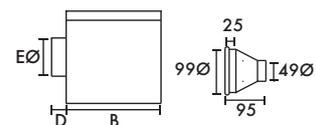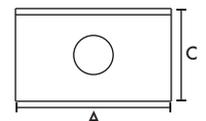
OPTIONAL DUAL SIZED SPIGOTS GIVE EITHER 50MM OR 100MM STANDARD PIPE PART NO. GTFSP

Performance

	Extract Performance - FID	Sound dB(A)	Speed	Max	Max
Model	m³/h	@ 3m	RPM	Watts	Amps
Surface	216	43	1370	57	0.19
Recessed	205	44	1370	57	0.19
Duct	195	46	1370	57	0.19

Freshvent
Natural Vent

Features & Benefits

- Completely silent, all year round ventilation
- Complements existing ventilating fans
- Filtered, natural air without draughts
- Control of the indoor environment
- Helps prevent damaging condensation
- No energy consumption, no running costs

Natural Ventilation

Freshvent 100 is a range of passive ventilators that simply and naturally provide the effective ventilation needed by everyone working and living in an indoor environment. When used with positive pressure ventilation, Freshvent 100 provides an important outlet for air circulating around the house. Stale air is expelled through the unit to the outside without letting in noise and draughts.

This makes Freshvent 100 particularly suited to the 'tight' construction of new homes - and provides a stylish alternative to traditional slot/airbrick ventilators. In addition, Freshvent 100 is ideal for older properties that have been refurbished with double glazing and loft insulation. They require ventilation to combat the problems associated with condensation.

Kitchens, utility rooms, bathrooms and toilets are rooms where conventional domestic extract fans are normally found. The natural ventilation principle of Freshvent 100 is particularly suitable for 'clean' living spaces such as bedrooms, lounges and work rooms.

There are four Vent-Axia Freshvent 100 models and an extensive range of accessories available to customise the units to your exact requirements. All units are easily dismantled allowing quick access to the filter for cleaning or replacement. The high capacity of the filter results in fewer filter changes. The damper plate is insulated against condensation and noise penetration.

Acoustic Duct Versions

Acoustically damped pipe fitted around unit to reduce external sources of noise such as traffic.

Suitable for bedrooms and other rooms where low noise levels are a priority. Comes complete with Freshvent 100 db and Freshvent 100 Thermo db versions.

Models

Freshvent 100

Pullcord operated. Designed to provide filtered air from outdoors while mixing it efficiently with the air in the room. Adjustable to increase or reduce the free area and airflow to suit a particular environment.
Stock Ref
453200

Freshvent 100 dB

Pullcord operated. Adjustable to increase or reduce the free area and airflow to suit a particular environment. Supplied with acoustically damped pipe for applications requiring low noise levels.
Stock Ref
453208

Freshvent 100 Thermo

Thermostatically regulated, with the vent size automatically adjusting according to the temperature outside. As the temperature decreases the damper closes, opening again as the temperature rises. The built-in thermostat regulates the size of the damper opening so that it starts to close at 10°C and is completely closed at -5°C.
Stock Ref
453182

Freshvent 100 Thermo dB

Thermostatically regulated, with the vent size automatically adjusting according to the temperature outside. As the temperature decreases the damper closes, opening again as the temperature rises. The built-in thermostat regulates the size of the damper opening so that it starts to close at 10°C and is completely closed at -5°C. Supplied with acoustically damped pipe for applications requiring low noise levels.
Stock Ref
453253

All versions come with a standard general duty filter. Replacement filters are available.

Filter for Freshvent 100
Stock Ref
453188

Filter for Freshvent 100 Thermo
Stock Ref
453197

Storm Shield
May be fitted to any of the Freshvent range to prevent ingress of water and eliminate the risk of draughts and cold air surges. Closes entirely during storms. Particularly suitable for high-rise/coastal applications or anywhere exposed to high winds.
Stock Ref
453206

Not suitable for dB models.

Extension Bushing
Stock Ref
453275

Dimensions (mm)

Model	Wall fixing hole dia Ømm	Max Wall thickness mm
Freshvent 100	100	360
Freshvent dB 100	150	400
Freshvent 100 Thermo	100	320
Freshvent 100 Thermo dB	150	400

Cooker Hoods

Features & Benefits

- A choice of four styles for domestic applications
- Wall, ceiling or cabinet fixed
- Compatible with flat ducting or Vent-Axia aluminium flexible ducting
- All models are provided with a charcoal filter and washable grease filter as standard
- All models are fitted with mains lead, built-in lighting and choice of 3 speeds

Kitchen Ventilation

Vent-Axia offers a range of cooker hoods for the removal of cooking odours and steam at source in the domestic kitchen. Each model is designed to provide the extraction levels necessary **to comply with Building Regulation requirements** for kitchens with ducted outlets plus models that provide higher outputs for busier kitchens.

A choice of styles is available to include wall, or cabinet fixed models to provide integrated ventilation in any modular fitted kitchen from a terraced galley kitchen to the most extensive layouts. Models are available that can re-circulate or extract with the use of ducting.

The Building Regulations for the mechanical ventilation of kitchens with open-able windows in dwellings require that extractor hoods should be capable of extracting at a rate of 30 l/s (108m³/h).

When used with ducting, the resistance of the entire system should be considered so that the required performance is achieved. Extractor hoods should not be sited where ambient temperatures are likely to exceed +50˚C.

Models

Genova

An cooker hood with 'flip front' glass visor designed to be wall-mounted or mounted beneath a top cabinet. Offering three speeds with extract rates of 100/160/220m³/h.
Stock Ref
120801

Napoli

An integrated cooker hood designed to accept a kitchen cupboard door-panel in matching height and finish to existing units. Offering three speeds with extract rates of 120/170/220m³/h.
Stock Ref
120811 (White)
436084 (Silver)

Rimini/Milano/Roma

The Rimini (500mm width), Milano (600mm width) and Roma (900mm width) are stainless steel chimney cooker hoods with an extending chimney to fit varying ceiling heights. Offering three speeds with extract rates of 340/420/460m³/h.
Stock Ref
427166 - Rimini
120841 - Milano
120851 - Roma

Dimensions (mm)

Model	W	D	H
Genova	600	470	150
Napoli	600	275	450
Rimini	500	500	1115
Milano	600	500	1115
Roma	900	500	1115

Extractor hoods are not suitable for use above an eye level grill.

Must be mounted between 760mm and 900mm above the hob.

Vent-Axia®
basics

Basic, Simple, Solution

Bathroom/Toilet
BAS100B
Unshuttered axial fan for remote or light switch operation.
Stock Ref
436519

BAS100P
Unshuttered axial fan with integral pullcord.
Stock Ref
436520

BAS100T
Unshuttered axial fan with adjustable overrun timer.
Stock Ref
436521

Kitchen
BAS150B
Unshuttered axial fan designed for remote or light switch operation.
Stock Ref
436525

BAS150P
Unshuttered axial fan with integral pullcord.
Stock Ref
436526

BAS150T
Unshuttered axial fan with adjustable overrun timer.
Stock Ref
436527

Shower Fan & Kit
Minivent SK
Single speed 100mm in-line axial fan.
Stock Ref
248710

Minivent SKT
Single speed 100mm in-line axial fan with integral adjustable overrun timer - 5-30 minutes.
Stock Ref
248810

The kit consists of a IP44 In-Line fan, a white ceiling grille and spigot, 3 meters of flexible duct and an external louvre for soffit or wall mounting.

BAS100SLB
Single speed axial fan with integral back draught shutter for remote or light switch operation.
Stock Ref
436530

BAS100SLT
Single speed axial fan with electronic overrun timer (5-30 minutes) and integral back draught shutter.
Stock Ref
436532

BAS150SLB
Single speed axial fan with integral back draught shutter for remote or light switch operation.
Stock Ref
436533

BAS150SLT
Single speed axial fan with electronic overrun timer (5-30 minutes) and integral back draught shutter.
Stock Ref
436535

Shower Fan & Light Kit
Basic
Stock Ref
432504

The kit consists of a 100mm axial in-line fan 3 meters of flexible ducting, an exterior grille, light transformer and 12V 35W dichroic halogen light assembly. IP44 rated.

Timer
Stock Ref
432505

Vent-Axia

Residential Fans

basics
Eclipse
Bathroom
& Kitchen Axial Fan

Features & Benefits

- Wall or Ceiling mountable
- Integral back draft shutter mechanism
- Meets current Building Regulations Approved Document F
- 100mm and 150mm size options
- Fixing kits available
- Fan IP44 rated -100mm
- Fan IPX4 rated -150mm

Bathroom ventilation

The Eclipse range of circular axial fans is designed to be installed in kitchens and bathrooms. Its simple design provides an unobtrusive fitting that is sympathetic with most interiors.

Models

ECLIPSE 100X
Single speed 100mm bathroom/toilet fan with back draught shutter.
Stock Ref
427310

ECLIPSE 100XP
Single speed 100mm bathroom/toilet fan with pullcord and back draught shutter.
Stock Ref
427281

ECLIPSE 100XT
Single speed 100mm bathroom toilet fan with integral adjustable overrun timer (5-30 minutes) and back draught shutter.
Stock Ref
427282

ECLIPSE 150X
Single speed 150mm kitchen fan with back draught shutter.
Stock Ref
427283

ECLIPSE 150XP
Single speed 150mm Kitchen fan with pullcord and shutter.
Stock Ref
427313

ECLIPSE Bezel

Stock Ref		Size
436480	Chrome	100mm
436483	Silver	150mm

Wall Kit
Wall fixing hole for 150mm Ø165mm.
Stock Ref
140902 (White)
140903 (Brown)

Wall fixing hole for 100mm Ø117mm.
Stock Ref
254102 (White)
254100 (Brown)

Dimensions (mm)

Model	AØ	BØ	C	D
Eclipse 100	157	99	107	19
Eclipse 150	201	144	123	19

Performance

	Extract Performance			dB(A)
Model	m³/h	l/s	Watts	@ 3m
Eclipse 100	90	25	14	38
Ecllipse 150	260	72	16	45

Tested at 240V 50Hz

dMEV, MEV & PIV Systems

What is MEV & dMEV?

The current Building Regulations Approved Document F gives examples of four main methods of ventilation. System 3, continuous mechanical extract ventilation can be achieved using a single centralised extract unit such as the Sentinel Multivent ducted from 'wet' rooms (kitchen, bathroom, en-suite and WC) or by decentralised individual fans (dMEV) in the 'wet' rooms. The fans run continuously at near silent levels providing a simple and effective form of ventilation.

The Centra meets the latest requirements of the current Building Regulations Approved Document F for wholehouse system ventilation.

Lo-Carbon Response

The continuous running, constant volume Response dMEV unit features an innovative digital display. The unique display (patent pending) provides the calibrated installed airflow and pressure of the installation meaning that there is no need to test the installation with an airflow measuring device.

Quiet running and with high pressure development, the Response is best in class.

Lo-Carbon Response
dMEV Unit

Features & Benefits

- Recognised in SAP Appendix Q
- Constant volume
- Display showing airflow and system pressure (Patent pending)
- Switched live connection for external switches/sensors
- 220-240V input
- 6l/s or 8l/s trickle speed selection
- 13l/s boost speed
- IPX4 rated
- Multi-orientation grille – grille can be rotated by 90/180 degrees to suit ceiling configuration requirements
- New comfort control option (patent pending)

Lo-Carbon Response

Continuous running, constant volume dMEV unit with switched live (LS) and innovative digital display. Quiet running and with high pressure development, the Response is best in class.

The New Response fan from Vent-Axia

Following the introduction of the new Domestic Ventilation Compliance Guide within Part F 2010, and the requirement to test the installed airflow of extract fans, the new Response fan from Vent-Axia provides the easiest install available.

The unique display (patent pending) provides the calibrated installed airflow and pressure of the installation meaning that there is no need to test the installation with an airflow measuring device.

The constant volume technology automatically adjusts the speed of the fan to ensure the desired airflow is delivered. With the new silent higher pressure axial impellor this can meet the requirements of many domestic installations without the need to use a centrifugal fan.

Axial, rather than centrifugal?

Using the new high pressure silent axial impellor has enabled the fan to not only develop great installed performance over duct runs, but to do it in the most energy efficient way. Response can provide excellent pressure whilst still maintaining the energy efficiency and not wasting energy on high pressure at low air volumes.

Configuration	Location	Alternative Centrifugal Fan SFP	Vent-Axia Response SFP	Saving
In room	Kitchen	0.38	0.17	55%
	Wet Room	0.29	0.18	38%
Through Wall	Kitchen	0.36	0.13	64%
	Wet Room	0.28	0.15	46%

Existing centrifugal fans often develop pressure but the actual installed air flows can mean that the pressure is of no use as the airflow falls below the requirement. This enables the fan to save up to 64% of the specific fan power (SFP) of the SAP Appendix Q data for existing centrifugal alternatives.
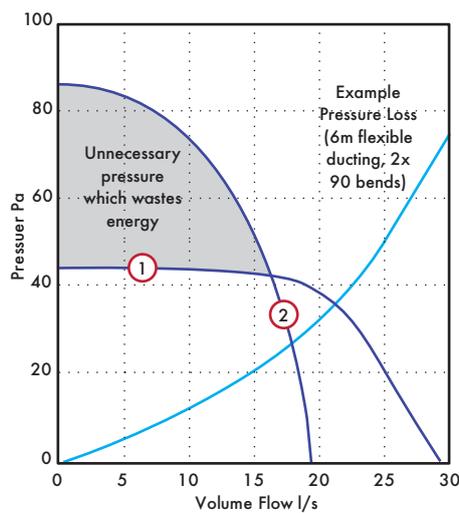
① Vent-Axia Lo-Carbon Response Fan

② Competitor Product

Side view of airflow display

Be confident that the Response is delivering the right performance with our innovative digital display showing the airflow and system pressure of the installed product.

SAP Appendix Q Performance

Unit

Configuration	Location	SFP (W/l/s)
In room (rigid duct)	Kitchen	0.17
In room (rigid duct)	Wet Room	0.18
In room (flex duct)	Kitchen	0.17
In room (flex duct)	Wet Room	0.16
Through wall	Kitchen	0.13
Through wall	Wet Room	0.15

Model

	Stock Ref
Response dMEV	404535
Response TP	404876
Response Fan HTP	404877
Response Fan SELV TP	404878
Response Fan SELV HTP	404879

Dimensions (mm)
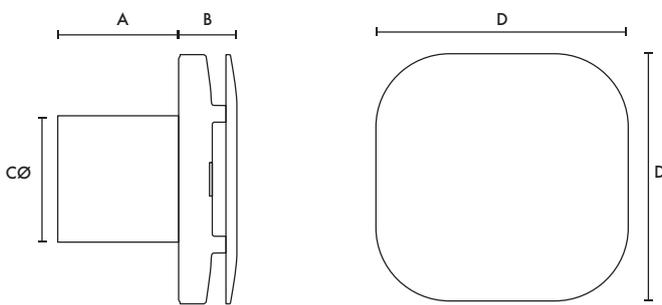
A	B	CØ	D
90	45	99	190

Performance Curve
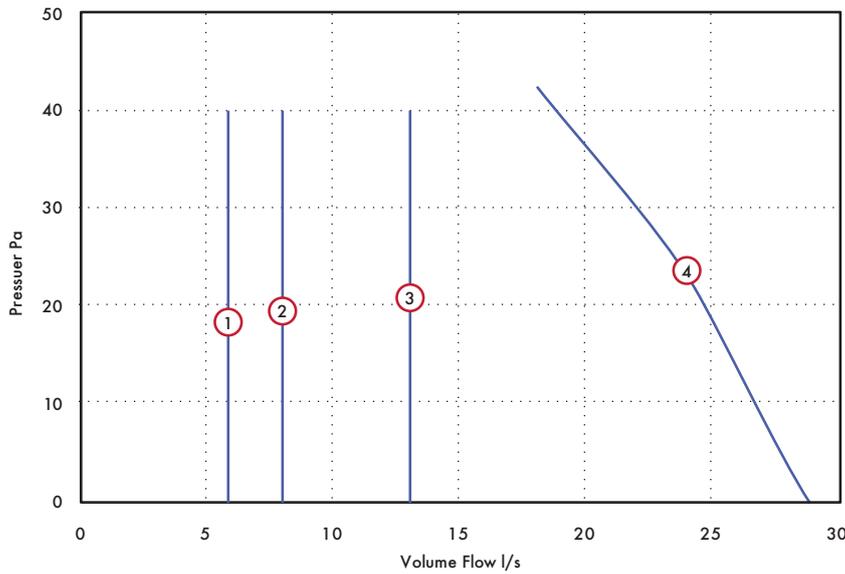
1. 6l/s Constant Volume
2. 8l/s Constant Volume
3. 13l/s Constant Volume
4. Maximum flow/pressure available to deliver 13l/s

Performance Curve

Model	Extract Performance l/s (m³/h) - FID				Watts				dB(A) @ 3m		
	Trickle Low	Trickle High	Boost	Max	Trickle Low	Trickle High	Boost	Max	Trickle Low	Trickle High	Boost
Lo-Carbon Response	6 (21)	8 (29)	13 (43)	29 (104)	1.0	1.2	1.7	6.2	12	17	32.5

Lo-Carbon
Centra®/SELV
dMEV Unit

Features & Benefits

- Building Regulations Approved Documents F and L compliant, System 3 Continuous mechanical extract
- Recognised in SAP Appendix Q - Low SFP on SAP Q
- Quietest dMEV available
- Discreet, tasteful styling
- Single fan for use in all applications
- IPX4 rated - IPX7 rated (SELV)
- Pressure detection device
- Normal and Boost speeds
- Lo-Carbon motor offering 90% energy savings and long life
- 5 Year Motor Guarantee
- Suitable for wall, ceiling, panel and window mounting
- SELV Models - Supplied with a remote transformer
- SELV Models Suitable for 'Zone 1' installation

What is de-centralised MEV (dMEV)

The Building Regulations Approved Document F gives examples of four main methods of ventilation. System 3, Continuous mechanical extract ventilation can be achieved using a single centralised extract unit such as the Sentinel Multivent ducted to 'wet' rooms (kitchen, bathroom, en-suite and WC) or by decentralised individual fans, such as the Lo-Carbon Centra in the 'wet' rooms. The fans run continuously at near silent levels providing a simple and effective form of ventilation.

SELV (Safety Extra Low Voltage) is designed for areas where a fan can be installed within Zone 1 in a room where there is a fixed bath or shower. Ingress Protected (IP) to IPX7 Lo-Carbon Centra SELV can be fitted safely within the spray area. The separate transformer can be mounted away from the spray zone and out of reach from the bath or shower.

The Lo-Carbon Centra meets the latest requirements of the Building Regulations Approved Document F for wholehouse system ventilation.

Selection of the two normal flow rates (6l/s or 9l/s) is via a simple 'jumper' on the control board. Different methods are available for operating boost speed from a simple switched live to integral humidistat. See individual models for further details.

The attractive and discreet styling of the Vent-Axia Lo-Carbon Centra will complement the décor of any new home while virtually silent operation ensures optimum ventilation is achieved without intrusive noise.

Lo-Carbon Centra

Recognised in SAP Appendix Q Lo-Carbon Centra has a specific fan power of only 0.18 W/l/s in through-the-wall kitchen applications.

Models

Lo-Carbon Centra
Auto speed selection at installation. The integral air pressure sensor checks the airflow when first installed and also helps the fan to compensate for external wind pressure.
Stock Ref
441782

Lo-Carbon Centra/SELV T (Timer)
Ideal for bathroom and toilet applications, this unit runs continuously on trickle setting and may be boosted by the switched live input which activates the adjustable timer (5-30 minutes).

Model	Stock Ref
T	442954
SELV T	443175

Lo-Carbon Centra/SELV TP (Pullcord/Timer)
For bathroom/toilet applications, the continuous running TP model is boosted by the pullcord which activates the adjustable timer (5-30 minutes).

Model	Stock Ref
TP	447127
SELV TP	447128

Lo-Carbon Centra/SELV HT (Humidistat/Timer)
For bathroom/toilet applications, the continuous running HT model is automatically boosted by the built-in humidistat or by a switched live input which activates the adjustable timer (5-30 minutes). Available from late 2013: Hour Run Meter as standard on all Lo-Carbon humidity controlled Centra fans.

Model	Stock Ref
HT	442955
SELV HT	443176

Lo-Carbon Centra/SELV HTP (Humidistat/Pullcord)
For bathroom/toilet applications, the continuous running HTP model is automatically boosted by the built-in humidistat or by the pullcord which activates the adjustable timer (5-30 minutes). Available from late 2013: Hour Run Meter as standard on all Lo-Carbon humidity controlled Centra fans.

Model	Stock Ref
HTP	443045
SELV HTP	443177

Lo-Carbon Centra CO_2 and Humidity
Continuous running, automatically boosted with integral CO_2 and humidistat sensor. This as ambient response feature - detects rapid change in %RH and boosts immediately, or will boost slowly and proportionally with %RH or CO_2.
Stock Ref
444672

150mm Conversion Kit
Stock Ref
443334

Wall Kit
Stock Ref
254102 (White)
254100 (Brown)

Window Kit
Stock Ref
442947

Ceiling Kit
Stock Ref
443800

Winners of the Energy Efficiency Initiative 2011 Award

with our Lo-Carbon Continuous Ventilation Product Range

QUIET MARK
2013

Validated mark of approval

noise abatement society

Dimensions (mm)

A	B	C	DØ
160	35	115	99

Transformer 87 x 87 x 33mm (W x H x D)
(SELV models only)

Performance Guide

Model	Extract Performance (l/s)			Power Consumption (Watts)			Sound dB(A)@ 3m		
	Trickle low	Trickle high	Boost	Trickle low	Trickle high	Boost	Trickle low	Trickle high	Boost
Lo-Carbon Centra/SELV T/TP/HT/HTP	6	9	15	1.4	1.6	2.4	10.8	15.5	25.2

SAP Appendix Q Performance

Systems With Rigid Ductwork Installation Only

Unit Configuration	Location	Fan Speed Setting	Flow Rate (l/s)	SFP (W/l/s)
In Room (Ducted)	Kitchen	High	13.2	0.32
In Room (Ducted)	Wet Room	9 l/s	8.4	0.28
Through Wall	Kitchen	High	13.5	0.18
Through Wall	Wet Room	9 l/s	8.6	0.20

Systems With Flexible Or Mixed Ductwork Installation Only

Unit Configuration	Location	Fan Speed Setting	Flow Rate (l/s)	SFP (W/l/s)
In Room (Ducted)	Kitchen	High	13.2	0.37
In Room (Ducted)	Wet Room	9 l/s	8.6	0.31
Through Wall	Kitchen	High	13.5	0.18
Through Wall	Wet Room	9 l/s	8.6	0.20

Lo-Carbon
Multivent
MEV Unit

Features & Benefits

- Fitted with four extract 100 or 125mm diameter spigots allowing quick connection to ducts
- Option of wall, ceiling and loft mounting
- Quiet operation suitable for continuous operation
- Can extract from a number of rooms, depending on the dwelling
- Wireless Controller available

The Lo-Carbon Multivent continuous mechanical extract ventilation range is designed for the simultaneous ventilation of separate areas in the home or as a multi-point extractor system for a wide range of commercial applications.

In the home the system is usually located in the loft or airing cupboard with ducts taken to the bathroom, kitchen and utility room to remove water vapour at source and from toilets to remove odours.

Lo-Carbon Multivent is ideal for a range of commercial multipoint extract applications such as toilets, fitting rooms, and kiosk's. The units can be installed at any angle and where the ambient air has a high humidity content condensate drains are provided.

The Lo-Carbon Multivent H version incorporates a built-in humidity sensor to switch between two of the three speeds. A Wireless Controller is available for use with the Lo-Carbon Multivent H with three speed options offering total control of the systems.

Lo-Carbon MVDC

The Lo-Carbon MVDC Multivent minimises running costs by incorporating the latest DC technology. DC efficiency means less wear and tear on the motor which guarantees longer life.

Extended motor guarantee to 5 years offered.

Acoustic Lining Kit

For reducing noise in sensitive installations
Stock Ref
438195

Models

Model	Stock Ref
MVDC	181520
MVDCH	183020

Multivent Wireless Controller
(for use with MVDCH only)
Stock Ref
426035

Sound Level

	Sound dB(A) @ 3m			
Model	FID Perf. m³/h (l/s)	Casing Breakout	Duct Inlet 100mmØ	Duct Inlet 125mmØ
MVDC				
low	232 (64)	33.3	36.5	36.5
medium	365 (100)	33.7	47.9	47
high	434 (120)	38.8	51.7	51.5
MVDCH				
low	232 (64)	33.3	36.3	36.5
medium	365 (100)	33.7	47.9	47
high	434 (120)	38.8	51.7	51.5

Performance Curve
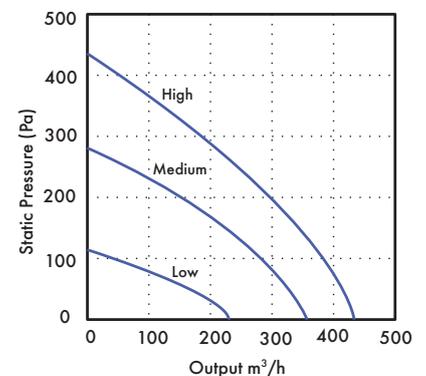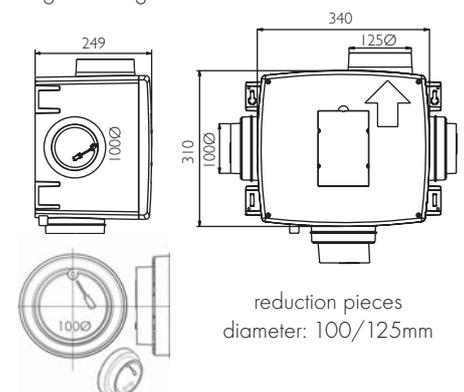
Dimensions (mm)
Weight: 5.50kg

reduction pieces
diameter: 100/125mm

Technical Data

Model	Low Current Amps	Low Power Watts	Medium Current Amps	Medium Power Watts	High Current Amps	High Power Watts
MVDC	0.1	9	0.23	20	0.39	45
MVDCH	0.1	9	0.23	20	0.39	44

Vent-Axia

Multivent
MEV Unit

Features & Benefits

- Fitted with four extract 100 or 125mm diameter spigots allowing quick connection to ducts
- Option of wall, ceiling and loft mounting
- Quiet running suitable for continuous operation
- Can extract from a number of rooms, depending on the dwelling
- Wireless Controller available

The Multivent continuous mechanical extract ventilation range is designed for the simultaneous ventilation of separate areas in the home or as a multipoint extractor system for a wide range of commercial applications.

In the home the system is usually located in the loft or airing cupboard with ducts taken to the bathroom, kitchen and utility room to remove water vapour at source and from toilets to remove odours.

Multivent is ideal for a range of commercial multipoint extract applications such as toilets, fitting rooms, and kiosk's. The units can be installed at any angle and where the ambient air has a high humidity content condensate drains are provided.

The Multivent H version incorporates a built-in humidity sensor to switch between two of the three speeds. A Wireless Controller is available for use with the Multivent H with three speed options offering total control of the systems.

Acoustic Lining Kit
For reducing noise in sensitive installations
Stock Ref
438195

Models

Model	Stock Ref
MV250	181510
MV250H	183010

Multivent Wireless Controller
(for use with MV250H only)
Stock Ref
426035

Sound Level

		Sound dB(A) @ 3m		
Model	FID Perf. m³/h (l/s)	Casing Breakout	Duct Inlet 100mmØ	Duct Inlet 125mmØ
MV 250				
low	161 (45)	22.4	27.9	27.8
medium	305 (85)	31.0	42.9	43.2
high	443 (123)	35.4	48.6	48.0
MV 250H				
low	175 (48)	22.4	27.9	27.6
medium	344 (95)	31.0	42.9	43.2
high	443 (123)	35.4	48.6	48.0

Performance Curve

Dimensions (mm)
Weight: 5.50kg

reduction pieces
diameter: 100/125mm
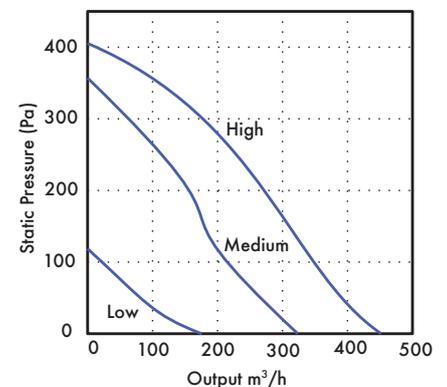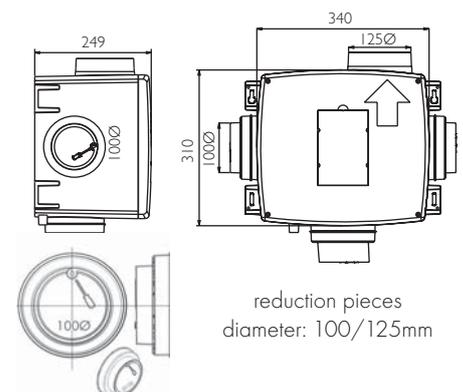
Technical Data

	Low		Medium		High	
	Current	Power	Current	Power	Current	Power
Model	Amps	Watts	Amps	Watts	Amps	Watts
MV250	0.2	25	0.30	54	0.34	81
MV250H	0.2	25	0.30	54	0.34	81

Lo-Carbon
Sentinel® Multivent
MEV Unit

Features & Benefits

- Reduces your carbon footprint
- Recognised in SAP Appendix Q
- Specific fan power 0.16 W/l/s (K+1)
- Suitable for use with external sensors and controllers
- Wireless control option
- Ultra quiet - acoustically lined for low noise levels
- Complies with Building Regulations ADF and ADL
- Manufactured in the UK from re-cyclable materials

Sentinel Multivent continuous mechanical extract ventilation, C-MEV is designed for the simultaneous ventilation of separate areas in the home or as a multipoint extraction system for a wide range of commercial applications. The units can be installed at any angle. Where the ambient air has a high humidity content condensate drains are provided.

In support of Sentinel Multivent, Vent-Axia offers:

- Practical advice on product selection and installation
- Guidance on solutions to meet legislation requirements
- Project management and site deliveries
- After sales support and maintenance information

The need to improve efficiency

Sentinel Multivent has been designed to meet the exacting demands of developers, installers and users offering advanced control options and easier installation and commissioning.

- Demand Control - enables precise ventilation rate, is set in 1% increments based on property size
- Integral LCD display allows the installer to select appropriate low, normal and boost speeds to meet demand
- Manual and automatic control options

- Integral adjustable overrun timer and delay on timer
- Plug-n-Play automatic sensor detection
- Switched live and SELV connections
- Dry Out setting – Option set at installation, Sentinel Multivent will run on boost for 1 week to assist in removing moisture
- Optional Wireless Control – up to 4 controllers on any one system
- Energy efficient EC/DC motors - 1/3 less energy lost to heat than a conventional AC motor
- Low Specific Fan Power (SFP) making it one of the most efficient products on the market

Legislation

- Meets Building Regulations Approved Document F (System 3)
- Recognised in SAP Appendix Q up to kitchen + 6 wet rooms
- Meets carbon footprint reduction targets
- Lowest SFP figures of any demand control MEV system

The need for better health

Removal of pollutants, such as moisture, carbon dioxide and external fumes are all important factors in maintaining indoor air quality, helping to create a healthier living environment.

- The integral humidity sensor (Sentinel Multivent H) increases fan speed in proportion to relative humidity levels, saving energy and reducing noise
- The sensor also reacts to small but rapid increases in humidity, even if the normal trigger threshold is not reached. This unique feature ensures adequate ventilation, even for the smallest wet room
- Night time relative humidity increment setback feature suppresses nuisance tripping as humidity gradually increases with falling temperature
- Acoustically lined - low noise levels only 18.1 dB(A) @ 3m

Model

	Stock Ref
Sentinel Multivent	437601
Sentinel Multivent H	445655

SAP Appendix Q

In order to make the right choice, developers and contractors should refer to Building Regulations ADL1a, SAP 2009 and Appendix Q.

SAP Appendix Q was launched in June 2006 to reward innovative ventilation manufacturers by testing and listing energy efficient products that assist in helping developers meet their Target Emission Rates (TER).

SAP is the underpinning methodology behind the Energy Performance Certificates and is used to demonstrate compliance with Building Regulations for Dwellings - Approved Document L (England and Wales), Section 6 (Scotland) and Approved Document F (Northern Ireland). Appendix Q specifically relates to wholehouse ventilation systems and lists a number of Vent-Axia Mechanical Ventilation solutions which offer an improved SAP rating over and above the default for these product types.

SAP Appendix Q Test Results

Exhaust Terminal Configuration	Fan speed setting	Total flow rate	SFP (W/l/s)
K + 1	32%	21	0.16
K + 2	39%	29	0.16
K + 3	49%	37	0.17
K + 4	59%	45	0.21
K + 5	68%	53	0.24
K + 6	77%	61	0.29

To assist developers and contractors Vent-Axia can provide detailed scheme designs together with installation guidance and training.

Sentinel

Your Carbon Footprint

The Carbon Footprint is a measure of the amount of carbon dioxide (CO_2) emitted through the burning of fossil fuels. From a residential and commercial building perspective, it is the amount of carbon generated when you consume a kilowatt of electricity. Reducing a building's carbon footprint will ultimately reduce electricity bills and save money for every individual household or business. It will also help meet the UK target for the reduction of emissions, as well as allowing you to help the environment.

Dimensions (mm)
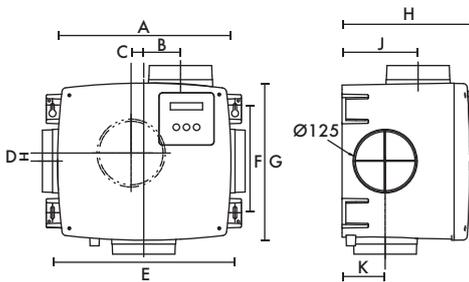
Reduction Pieces
Diameter: 100/125mm
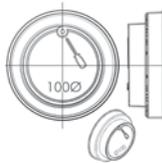
A	B	C	D	E	F	G	H	I	J
340	72.5	25	15	360	214	310	260	150	85

Performance Curve
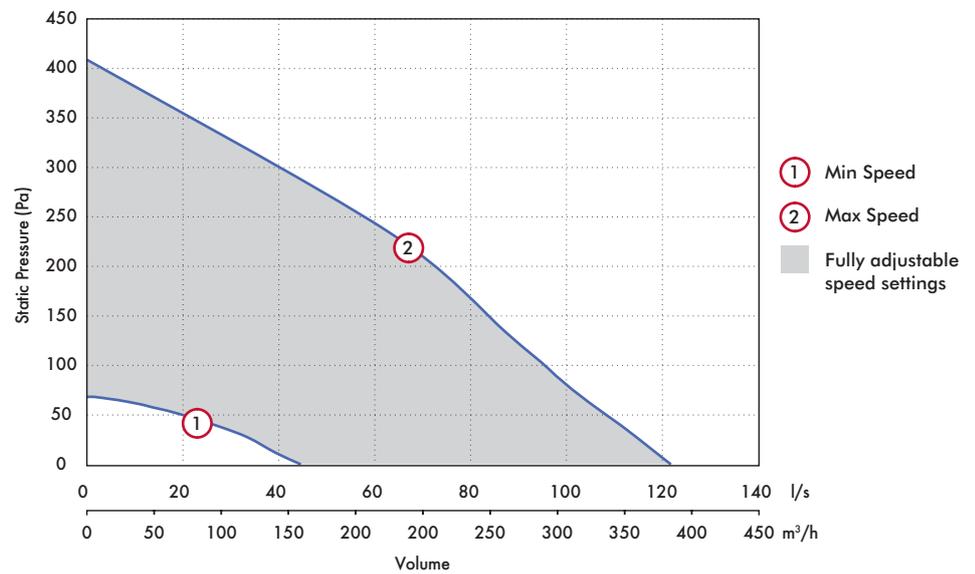
1 Min Speed

2 Max Speed

Fully adjustable speed settings

Performance Guide

	Min			Max		
	Inlet Duct	FID	Power	Inlet Duct	FID	Power
Stock Ref	dB(A)	l/s	Watts	dB(A)	l/s	Watts
437601 / 445655	18	43	6	38	121	45

Sound Data

Speed		Induct sound power levels dB								dB(A) @ 3m
		63	125	250	500	1K	2K	4K	8K	
10%	Breakout	43.6	37	36.9	30.6	26.2	22.8	23.6	30.4	18.1
10%	Extract	43.8	39.9	36.1	30.4	24.6	21.8	22.	30.3	17.8
28%	Breakout	44	44.4	43.3	39	31.1	26.1	24.3	30.1	22
28%	Extract	42.2	40.1	42.2	40.5	32	23.3	23.4	30.5	22
46%	Breakout	45	42.8	46.7	44.1	38.8	35.6	26.7	30.6	25.8
46%	Extract	40.8	42.5	46.4	44.4	41	31.1	25.3	30.3	26
82%	Breakout	46.3	48.3	50	52.1	48.4	47.7	37.8	32.4	33.7
82%	Extract	46.7	49.6	48.9	54.3	51.8	42.7	38.1	34.2	36.1

Controllers and Sensors

Sentinel Multivent can be used with a wide range of Vent-Axia controllers and sensors. Ranging from integral humidistats, through to wireless controllers to wired remote sensors.

Integral Humidistat
- Simple Plug-n-Play installation
- Eliminates the need for additional controllers or sensors
- Reacts to any rapid increases in relative humidity or relative humidity above 60%
- Future proof – can be fitted after installation
- Self programming

Stock Ref
437598

Ambient Response Humidity Sensor
- Pullcord override and indication light
- Changeover relay switch
- Operating range: 30% - 90%RH
- Ambient operating temp. 5°C to 40°C
- 220-240V AC
- Will fit single gang box for surface mounting

Stock Ref
563550

Visonex PIR Sensor
- Fits any UK single gang mounting box
- Adjustable timer overrun (5-25 mins)
- Range of detection up to 10 metres
- Designed to meet IP43
- Ambient operating temp. range 0°C to 50°C

Stock Ref
459623

Wireless Transmitter Controller Receiver Kit
- Manual boost
- Adjustable overrun timer
- Easy wireless installation
- Reduces installation time
- Future proof - add more controllers at any time

Stock Ref
439352

Ecotronic Humidity Sensor
- Set point adjustable
- Maximum switching load 1 Amp inductive
- Pullcord override indicator
- Ambient operating temp. 0°C to 40°C
- Supply voltage 220-240V

Stock Ref
563532

CO_2 + Temp Room Sensor
- 240V DC
- 0 - 2000ppm CO_2 working range
- 0 - 50°C working range
- Auto-calibrating NDIR CO_2 absorption sensor
- Thin film platinum temperature sensor for high accuracy

Stock Ref
433257

Wireless Transmitter Controller
- Additional controller for 439352
- A maximum of 4 controllers can be used per system
- Can be connected to other accessories (eg Humidistat) to send a boost signal wirelessly

Stock Ref
437827

Air Quality Sensor
- Ambient operating temp. 0°C to 50°C
- DEMKO approved
- Surface mounted
- 1 - 25 min O/R timer
- Supply voltage 220-240V

Stock Ref
563506

Ventwise
- Automatically boosts fan when temperature of the supply pipe to a shower or bath increases
- Automatically boosts fan when electric hob is switched on
- Can be used in conjunction with manual override input
- Adjustable overrun timer
- Two sensor options available

Stock Ref
435960

Lo-Carbon
Multivent
MVDC-MS/MSH
MEV Unit

Features & Benefits

- Best in class Specific Fan Power
- Reduces your carbon footprint
- Recognised in SAP Appendix Q
- Fitted with four extract 125 or 100mm diameter spigots allowing quick connection to ducts
- Complies with Building ADF (System 3)
- Option of wall, ceiling and loft mounting
- Improved controllability
- Switched Live Boost connection
- Fully variable normal and boost speeds
- Ultra quiet - acoustically lined for low noise levels
- Integral humidistat (H version)

With growing concerns about accurate ventilation of properties, the Lo-Carbon Multivent MVDC range offers the option of 'Close Control' both in the residential and the commercial sectors. With a DC motor the multi speed Lo-Carbon Multivent is one of the most efficient central extract units in the UK.

The units have two fully variable speeds for trickle and boost, with a switched live (LS) activation for the boost speed. An additional third speed (purge) is available using a second switched live connection.

An acoustic lining is included as standard, ensuring minimum noise levels.

The potentiometer controlled speed selector allows accurate setting of airflow, ensuring exactly the right ventilation rate. This feature also reduces noise, and energy consumption.

Models

	Stock Ref
MVDC-MS	437634
MVDC-MSH	443298

SAP Appendix Q Test Results

Exhaust Terminal Configuration	Total Flow Rate	SFP (W/l/s)
K + 1	21	0.16
K + 2	29	0.15
K + 3	37	0.17
K + 4	45	0.20
K + 5	53	0.24
K + 6	61	0.28

Dimensions (mm)

Weight: 5.50kg

reduction pieces
diameter: 100/125mm

A	B	C	D	E	F
310	100Ø	340	125Ø	249	100Ø
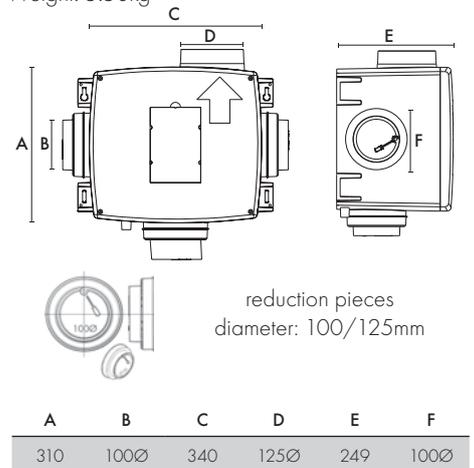
Performance

MVDC-MSH features an integral humidistat which triggers the unit to boost when humidity levels in the duct system exceed 70%.

① Min Speed
② Max Speed
▨ Fully adjustable speed settings
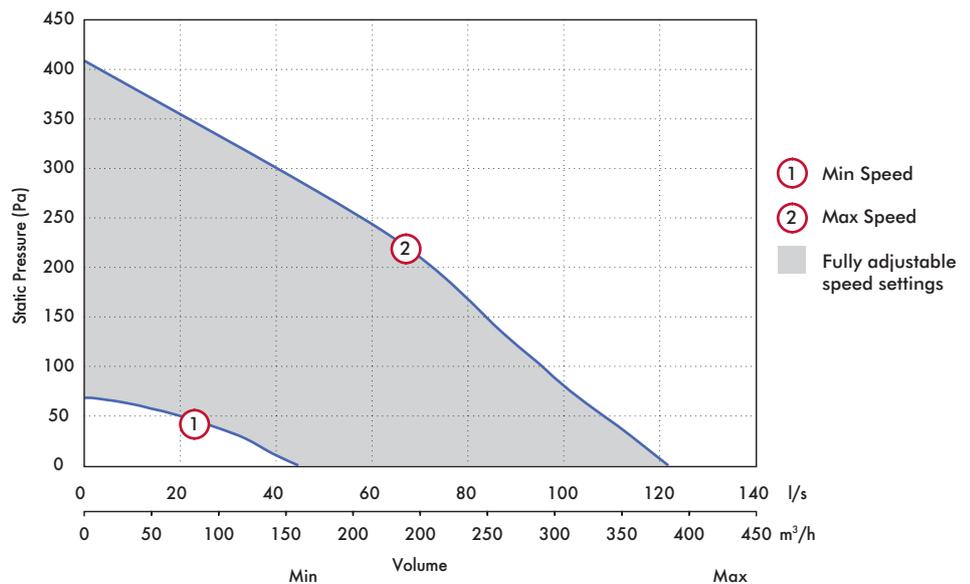
Model	Min				Max			
	Casing Breakout dB(A) @ 3m	Inlet Duct dB(A)	FID l/s	Power Watts	Casing Breakout dB(A) @ 3m	Inlet Duct dB(A)	FID l/s	Power Watts
MVDC-MS	19	18	43	6	37	38	121	45
MCDC-MSH	19	18	43	6	37	38	121	45

Lo-Carbon
PoziDry
Positive Pressure Unit

Features & Benefits

- Selectable air capacities to suit floor area up to 150m²
- Uses latest Lo-Carbon technology motor for low running costs
- Ultra low sound level
- Lo-Carbon PoziDry comes complete with ceiling diffuser, flexible duct and worm drive clips
- Standard 5 year guarantee
- Up to 5 year maintenance free G4 filter
- IPX2
- SFP of 0.22W/l/s

Positive Pressure Ventilation

For controlling condensation particularly in the refurbishment sector, the Vent-Axia Lo-Carbon PoziDry offers a quick and simple solution. A loft mounted positive input fan draws fresh air from atmosphere, filters it and pushes it into the dwelling via a ceiling mounted diffuser. Stale air in the property is forced out through the natural forms of ventilation, such as window mounted trickle vents.

Without heater
Stock Ref
444075

With integral heater
Stock Ref
444766

Installation

It is simply installed out of sight in the loft space. It can be suspended from a roof beam or be floor mounted, with a purpose-designed diffuser normally located over the stairwell of a conventional two storey dwelling or in the main hall of a bungalow. The Lo-Carbon PoziDry is set to the appropriate speed at installation based on the size of the dwelling, providing positive pressure input ventilation. Background ventilation openings provide the exhaust points.

Performance

The robust construction of the Lo-Carbon PoziDry features a specially developed Lo-Carbon DC fan/motor arrangement which runs quietly and delivers incredibly low running costs. The Lo-Carbon PoziDry uses a sensor to monitor the temperature in the loft, automatically adjusting the air volume when necessary. 'Trickle' speed is automatically selected when the ambient loft temperature is up to 18°C. 'Normal' is automatically selected when the ambient loft temperature is between 18 and 27°C.

If the ambient loft temperature exceeds 27°C, the Lo-Carbon PoziDry will automatically switch to standby (no airflow). The standby power consumption is 2W.

In the case of the integral 500W heater version, the heater element is automatically activated when necessary and tempers the supply air to 10°C. Can be used for air replacement in conjunction with an extract fan.

Filter

The unit includes a filter with up to 5 years maintenance intervals to reduce the number of call outs needed throughout its life span.

Time Elapsed Meter

The unit includes a time elapsed meter to enable precise running information.

Speed Control

With selection of 2 of 6 speeds available up to 50l/s, the unit is suitable for houses up to 360m³.

Heater

An optional comfort heater is available for operation when the incoming air temperature becomes low.

Typical Specification

The unit should be mounted in the loft space with a diffuser in self-extinguishing ABS positioned at the top of the stairwell. The unit meets the EMC and low voltage directives.

Motor

The electronically controlled DC motor is manufactured with long life ball bearings and is fitted with Standard Thermal Overload Protection (S.T.O.P.). Suitable for ambient operating temperatures of -25°C to +40°C. For complete peace of mind, the Vent-Axia Lo-Carbon PoziDry is backed by a 5 year guarantee.

Twin Spigot Kit

An additional kit to allow an extra circular diffuser to be installed near the PoziDry unit.

Stock Ref
449071

Includes:
1 x 436592 (200mm Duct)
2 x 561707 (Worm Clips)
1 x 452085 (200mm equal Y Piece)
1 x 10544200 (Diffuser)

T: 0844 856 0590

Dimensions (mm)
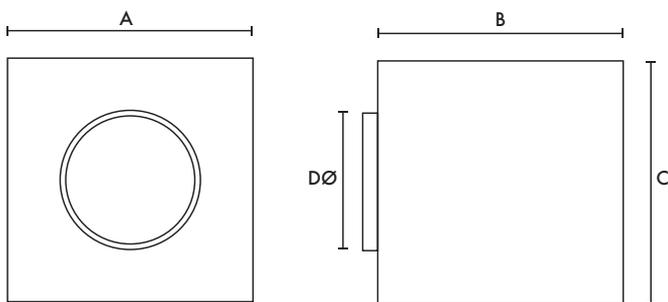
A	B (depth)	C	DØ	Weight
438	411	379	100	11.5kg

Performance

Speed	FID (l/s)	Power (W)*	Floor Area up to (m²)
1	10	2.5	30
2	18	3	54
3	26	4	78
4	34	5	102
5	42	7	126
6	50	13	150

*add 500W for heater version

Sound Data

| Setting | Test mode | Octave band, Hz, dB SWL | | | | | | | | SPL dB(A) |
		63	125	250	500	1k	2k	4k	8k	at 3m
Speed 1	Supply	33.2	28.3	25.4	15.3	17.2	12.6	16.4	22.7	8.5
	Breakout/Intake	36.7	25.3	26.9	16.1	28.6	30.4	18.4	23.8	13.5
Speed 6	Supply	65.2	57.2	60.8	67.6	62.2	59.7	50.8	41.2	19.0
	Breakout/Intake	39.7	37.0	43.9	41.1	37.6	32.5	27.1	26.1	22.0

Lo-Carbon
PoziDry Compact
Positive Pressure Unit

Features & Benefits

- Ultra low sound level
- Selectable air capacities to suit volumes of up to 34 l/s or floor area up to 100m^2
- Extremely low running costs - from less than one pence per day
- Washable, high capacity filter
- Round to rectangular duct adaptor included
- 5 Year Guarantee
- Ideal for flats

Positive Pressure Ventilation

For those properties that do not have a loft, Lo-Carbon PoziDry Compact provides an easy to install solution. A duct mounted unit that can be fitted in a number of locations around a single floor flat or apartment.

Air is drawn into the Lo-Carbon PoziDry Compact unit via an external inlet and through a short length of duct. The specially developed fan/motor assembly (using the Lo-Carbon DC motor technology) draws the air through an integral, high capacity, washable filter. The backward curved impeller guarantees increased efficiency, lower sound levels and better performance.

The fresh, filtered airflow passes along the ducting and terminates on an internal wall with a discreet grille. This directs the airflow upwards where the incoming air mixes with the warm air that gathers at ceiling height.

The system automatically provides fresh, tempered airflow into the home. Creating an environment where the damaging effects of condensation find it hard to exist benefits both the occupants and the structure of the home.

Can be used for air replacement in conjunction with an extract fan. G4 filter as standard.

Model

Without heater
Stock Ref
444076

With integral heater
Stock Ref
444767

Performance

The Lo-Carbon PoziDry uses a sensor to monitor the ambient temperature, automatically adjusting the air volume when necessary.

'Trickle' speed is automatically selected when the ambient temperature is up to 18°C.

'Normal' is automatically selected when the ambient temperature is between 18 and 27°C.

If the ambient temperature exceeds 27°C, the Lo-Carbon PoziDry will automatically switch to standby (no airflow). The standby power consumption is 2W.
In the case of the integral 300W heater version, the heater element is automatically activated when necessary and tempers the supply air to 10°C.

Air Replacement Grille Set

For air replacement through doors. Consists of a two-piece telescopic set, which fits unobtrusively on either side of the door panel. Minimum fixing thickness 30mm. Plastic. Dimensions: 454 x 90mm.

Installation Packs

Stock Ref	453546	453547	453548
Quick Fit Grille (White)	1	1	1
Wall fitting kit (Brown)	1	1	1
Round to Rectangle Adaptor	1	3	3
Vertical 90° bend	2	2	2
Elbow/Spigot	1	1	1
1m Flat Channel	1	2	2
1.5m Flat Channel	1	2	2
Connector	1	4	4
Horizontal 90° Bend	-	-	2
Channel Clip	4	6	2

T: 0844 856 0590

Dimensions (mm)
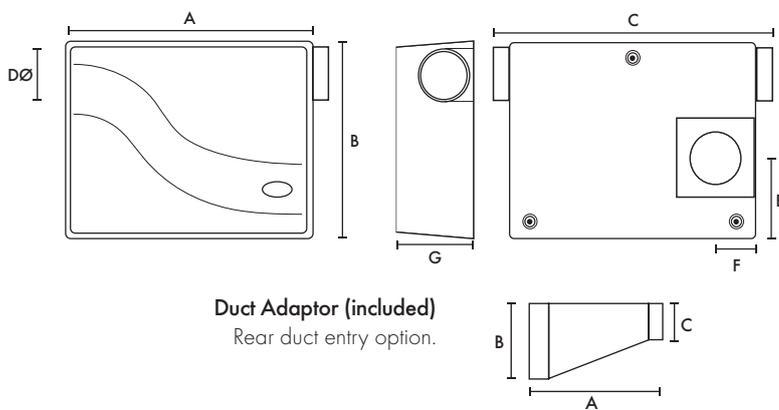
A	B	C	DØ	E	F	G	Weight
435	365	490	100	160	58	160	7kg

Duct Adaptor (included)
Rear duct entry option.

A	B Ø	C
180	105	55 x 110

Performance

Speed	FID (l/s)	Power (W)*	Floor Area (m^2)
1	10	5.7	30
2	18	12.2	54
3	26	24.6	78
4	34	49.8	100

*add 300W for heater version

Sound Data

Setting	Test mode	63	125	250	500	1k	2k	4k	8k	@ 3m
					Octave band, Hz, dB SWL					SPL dB(A)
Speed 1	Supply	37.6	32.7	33.4	35.0	29.8	27.5	18.2	22.6	18.0
	Extract	37.0	32.3	32.5	32.4	21.9	25.3	16.8	22.6	15.5
	Breakout	35.3	46.9	38.8	33.1	22.9	22.2	17.8	23.3	15.0
Speed 4	Supply	65.2	57.2	60.8	67.6	62.2	59.7	50.8	41.2	50.0
	Extract	60.8	51.7	58.5	62.1	56.1	56.4	45.2	37.9	45.5
	Breakout	57.2	55.2	55.5	63.3	55.1	52.2	44.1	32.9	41.5

Residential & Commercial
Single Room dMVHR

Improving air quality on a room-by-room basis, the Vent-Axia through-the-wall mounted range of heat recovery ventilation units simultaneously extract stale air and introduce fresh air – warming the incoming air flow with heat recovered from the exhaust stream.

Lo-Carbon Tempra

The Vent-Axia Lo-Carbon Tempra through-the-wall heat recovery units provide a flexible solution to the need for high efficiency ventilation. They are ideal for refurbishment and are designed for use in bathrooms, toilets, utility rooms and kitchens. Meets current Building Regulations Approved Documents F and L.

Lo-Carbon
Tempra/SELV
Single Room Heat Recovery Unit

Features & Benefits
- Fits in 100mm diameter hole – ideal for refurbishments
- Up to 84% heat recovery
- Available in 2 wall depths: 320mm and 460mm
- Reduces the home's carbon footprint
- Choice of control options
- Summer setting
- Helps prevent noise ingress
- Continuous running or intermittent extract
- Meets current Building Regulations Approved Documents F and L
- Low SFP of 0.3W/l/s
- IPX4 rated

Through-The-Wall Mounted Heat Recovery Unit
The Vent-Axia Lo-Carbon Tempra is designed to fit in 100mm diameter hole and is suitable for refurbishment, kitchen, bathroom, toilet or utility applications. The unit meets the performance requirements for continuous extract fans under the current Building Regulations Approved Document F.

The Tempra is available in three models, a P version with pullcord control, a T version with overrun timer and an HTP version with built-in pullcord, overrun timer and humidistat. Two spigot lengths are available; 320mm and 460mm.

The manual summer setting allows the unit to be set to extract only, helping to prevent a dwelling becoming too warm in hot summer conditions.

Performance
Tempra can be set to run continuously at 6 l/s or 9 l/s, boosting up to 15 l/s, recovering heat from extracted air and returning it to the dwelling. The unique, compact heat exchanger has a temperature efficiency up to 84%, saving energy and reducing your carbon footprint. For intermittent extract the Tempra is set to 15 l/s.

The Tempra is also designed so that the replacement air being introduced is at a reduced rate ensuring that the room being ventilated is still under a slight negative pressure. This ensures that fresh air is bought into the room from the rest of the house preventing humid air migrating to the rest of the house.

The Lo-Carbon ECDC motor with twin impellers consumes as little as 3.2 Watts on trickle rate and runs almost silently at only 20dB(A).

Typical Installation
The unique heat exchanger design allows the Tempra to be fitted in a 100mm diameter hole, allowing it to replace standard 100mm extract fans while giving all the benefits of heat recovery. Maximum wall thickness is 460mm.

A longer version of the Tempra is available, designed for installations where the wall thickness is between 321mm and 460mm. 460mm models are identified by an 'L'.

Models

Lo-Carbon Tempra P (Pullcord)
Constant trickle speed with pullcord to boost or intermittent operation by pullcord.

Model	Stock Ref
320mm P	443312
320mm SELV P	444368
460mm LP	403832
460mm SELV LP	403833

Lo-Carbon Tempra T (Timer)
Constant trickle speed with switch live to boost or intermittent operation by switch live.

Model	Stock Ref
320mm T	443310
320mm SELV T	444369
460mm LT	403834
460mm SELV LT	403835

Lo-Carbon Tempra HTP (Humidistat/Timer/Pullcord)
Constant trickle speed with humidistat and linked overrun timer to boost or intermittent operation by switch live.

Model	Stock Ref
320mm HTP	443311
320mm SELV HTP	444370
460mm LHTP	403836
460mm SELV LHTP	403837

Accessories
100mm High Rise Kit - 320mm white duct with black seal

Stock Ref
449011

Dimensions (mm)

	A	B	C	D	E	F	G
Standard	266	190	262	117	496	99	321
Long	266	190	262	117	636	99	461
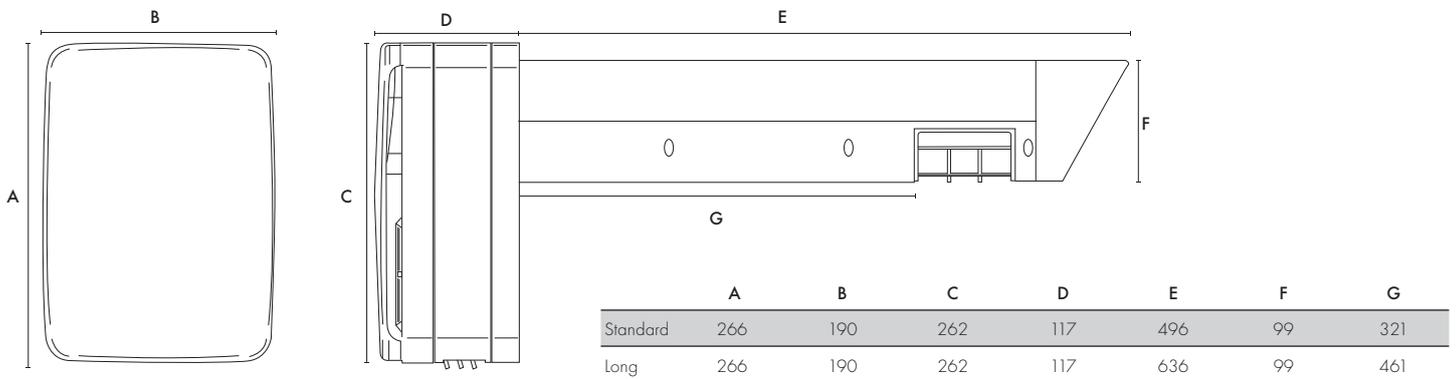
Performance

Model	Extract Performance l/s			Power Consumption Watts			Sound @dB(A)		
	Trickle Low	Trickle High	Boost	Trickle Low	Trickle High	Boost	Trickle Low	Trickle High	Boost
Lo-Carbon Tempra (All Models)	6	9	15	3.2	5.7	26.6	20	22	36

*Octave band frequency range of 250Hz to 4KHz at 3m. Unit mounted on a reflective surface.

Heat Exchange (what is heat recovery?)

Stale Warm air from dwelling

Fresh Warmed air returned to dwelling

Stale Cool air out

Fresh Cold air in
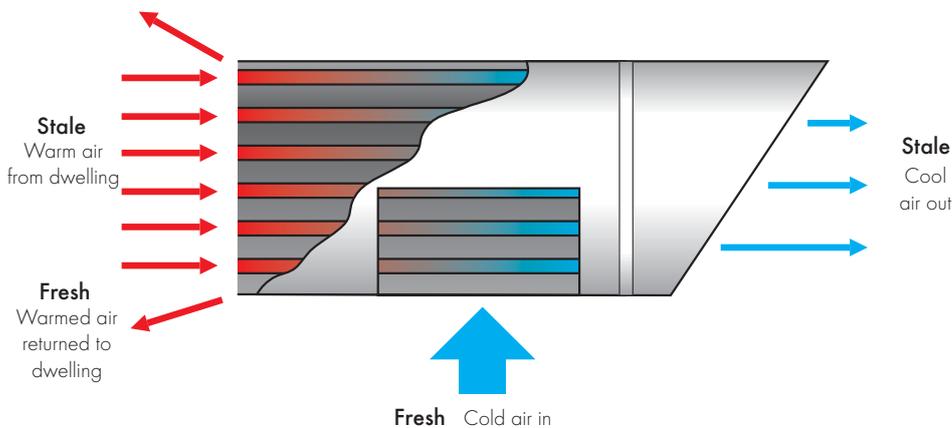
Lo-Carbon HR25

Single Room Heat Recovery Unit

Features & Benefits
- Reduces the home's carbon footprint
- Designed for installations in bathrooms, toilets and utility areas
- 84% temperature based heat recovery
- Up to 90% energy saving
- Controls condensation and eliminates mould
- Choice of control options
- Long life DC motors
- IP24 rated

Long Life Ventilation

The Vent-Axia Lo-Carbon HR25 range of through-the-wall heat recovery units are suitable for fitting through a 152mm (6") circular hole and are designed for use in bathrooms. Available in 2 lengths, a standard version suitable for wall thicknesses of up to 310mm and an extended version suitable for wall thicknesses of up to 425mm. The Vent-Axia Lo-Carbon HR25 is available in 2 models, a standard version with pullcord control and a H version with an integral humidity sensor.

Performance

The units are fitted with a 24V DC motor and are supplied with a state of the art Switch Mode Power Supply (S.M.P.S.). This has the ability to operate at only 2 Watts power consumption on normal setting. A 5m cable is provided for fixed wiring of the unit to the S.M.P.S.

Maintenance

Apart from removing odours, providing fresh air and recovering heat, this appliance extracts airborne impurities such as dust, dirt and grease. Filters should be replaced every six months or as conditions necessitate.

Models

Lo-Carbon HR25

The HR25 is fitted with a pullcord switch which operates the twin speed control function.
Stock Ref
372261

Lo-Carbon HR25H

The HR25H is fitted with an adjustable humidity sensor which automatically switches between its high and low settings depending on the relative humidity in the room.
Stock Ref
372262

Lo-Carbon HR25L

An extended version of the HR25 is available, designed for installations where the wall thickness is between 311mm and 425mm.
Stock Ref
372264

Lo-Carbon HR25LH

An extended version of the HR25H is available, designed for installations where the wall thickness is between 311mm and 425mm.
Stock Ref
372265

Dimensions (mm)

	A	B	C	D	E	F
Standard	508	451	318	147	204	54
Long	666	548	433	147	204	54
Standard - Weight 3.4kg						
Long - Weight 3.5kg						

Fixing hole Ø 152mm
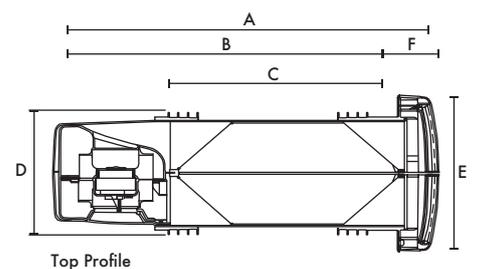
Top Profile
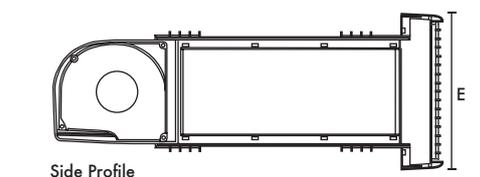
Side Profile

Performance

Model	Extract Performance m³/h (l/s)		Intake Performance m³/h (l/s)		Watts		Sound dB(A) @ 3m*	
	Boost	Trickle	Boost	Trickle	Boost	Trickle	Boost	Trickle
HR25	55 (15)	20 (5)	36 (10)	8 (2)	23	2	49.2	16.8
HR25H	55 (15)	20 (5)	36 (10)	8 (2)	23	2	49.2	16.8
HR25L	55 (15)	20 (5)	36 (10)	8 (2)	23	2	49.2	16.8
HR25LH	55 (15)	20 (5)	36 (10)	8 (2)	23	2	49.2	16.8

*Octave band frequency range of 250Hz to 4KHz at 3m. Unit mounted on a reflective surface.

HR200WK
Single Room Heat Recovery Unit

Features & Benefits
- Single room domestic heat recovery ventilation unit
- 3 speed motor
- Integral washable filter
- Up to 75% heat recovery
- Saves energy - controls condensation
- Low noise

Heat Recovery Ventilation
The Vent-Axia HR200WK is a heat recovery ventilation unit specifically designed for use in domestic kitchens and utility rooms to meet the Building Regulations. The unit is also suitable for light commercial requirements up to 220m³/h (50l/s). The compact, self contained unit is designed for through-the-wall mounting.

The three speed, external rotor motor has two matched impellers to ensure a controlled air flow through the unit, with exceptionally economical 25 Watt low speed power consumption.

Easy Installation
The HR200WK fits through walls up to 335mm thick requiring a fixing hole 250mm square. The internal grille has washable, polymeric foam supply and extract filters. Only the neat internal twin grille visible from the room. A wall extension sleeve is available for walls up to 550mm thick.

Heat Exchanger
The highly efficient, polymeric heat exchanger cube is washable. The compact cube interleaves outgoing moist warm air with incoming fresh air and allows the heat from one to warm the other without the two air streams mixing. Up to 75% of the heat, which would otherwise be lost, is transferred to the intake air, ensuring energy saving ventilation.

Electrical
HR200WK 220-240V/1/50Hz Class 1 earthed appliance. The 3 speed motor, can be wired to operate On/Off for any one of the three speeds. Alternatively, an Ambient Response Humidity Sensor or simple changeover switch can be used to provide switching between any two speeds, giving permanent trickle ventilation and automatic changeover to a higher speed during periods of high moisture generation. Also the 3 speed controller enables the unit to be switched from permanent trickle to either medium or boost speed.

Extension Wall Sleeve
Stock Ref
370421

Electronic Controller
Stock Ref
W300310

Models
HR200WK
A heat recovery unit specifically designed for use in domestic kitchens and utility rooms to meet the latest building regulations. 3 speed motor, trickle ventilation mode, optional range of switches available.
Stock Ref
14120020

HR200WK Controller
A three position rotary control which enables the unit to be switched from permanent trickle ventilation to either medium or boost speed.
Stock Ref
563533

Dimensions (mm)

A	B	C	D	E	F
270	270	245	85	68min	335max

Weight 9.7kg
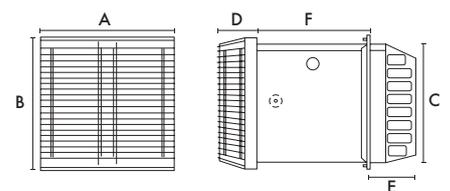
Wall fixing hole 250mm x 250mm sq.

Performance

	Performance m³/h (l/s)			%	Sound dB(A)
	Extract	Intake	Watts	Heat Recovery	@ 3m
Speed 1	60 (16)	50 (13)	25	75	19
Speed 2	110 (30)	100 (27)	60	70	33
Speed 3	220 (61)	200 (55)	140	65	46

Vent-Axia

Single Room dMVHR

HR300
Single Room Heat Recovery Unit

Features & Benefits
- Designed for continuous operation, providing up to 70% heat recovery
- Controls condensation and eliminates mould
- Speed controllable
- Quiet operation
- Washable filters

Heat Recovery Ventilation
The HR300 provides ventilation with heat recovery. It is ideal for light commercial applications including function rooms, offices, classrooms etc. The HR300 unit comes complete with an integral shutter.

Performance
The HR300 unit is designed for continuous operation providing up to 70% heat recovery. Effectively lowering internal relative humidity the HR300 unit controls condensation and eliminates mould.

Fresh, pre-warmed air from outside is continually provided to the room with simultaneous extraction of stale moist air and smells. Heat is transferred via a unique plastic heat exchanger from outgoing air to the fresh air supply with no cross contamination, maintaining internal temperatures and providing a fresh environment.

The unit is fully controllable for speed using a small dedicated speed controller. Automatic ON/OFF control or switching to boost is easily achieved using sensors/timers e.g. humidistat. For summer operation the heat exchanger can be removed and replaced with a plastic divider board to provide positive cooling to rooms.

Installation
The HR300 unit requires a 380mm x 280mm hole. Units should be level and square in the wall. The unit should be fitted so that it overhangs by minimum of 50mm on the inside, and a minimum of 70mm on the outside. An extension sleeve is available for walls up to 650mm thick.

Maintenance
Filters should be cleaned by washing every six months or as conditions necessitate. Replacement filters can be purchased in packs of two

Filters
Stock Ref
370402

Extension Sleeve
Stock Ref
370422

Electronic Controller
Stock Ref
W300310

VCON6 Controller
Stock Ref
370356

The heat exchanger should be washed in warm soapy water every twelve months, or as conditions necessitate. Access to the filter and heat exchanger is via two screws on the internal grille.

Models
HR300
Stock Ref
370394

Dimensions (mm)

A	B	C
370	270	400

Weight 11kg
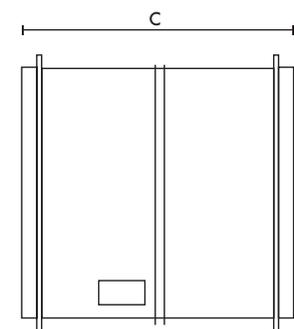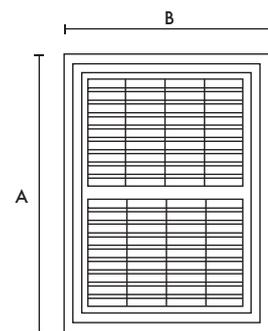
Performance

	Extract Performance m³/h (l/s)			Intake Performance m³/h (l/s)			Max	Sound dB(A) @ 3m		
Model	Low	Normal	Boost	Low	Normal	Boost	Watts	Low	Normal	Boost
HR300	75 (20)	210 (58)	300 (83)	70 (19)	190 (52)	270 (75)	108	37	40	44

T: 0844 856 0590

MVHR units for residential & commercial

A complete range of Mechanical Ventilation with Heat Recovery (MVHR) units for residen tial and commercial applications, including many that are recognised in SAP Appendix Q.

Sentinel Kinetic ®

The first of our new generation of MVHR systems incorporating a range of features. Small enough to fit into a kitchen cupboard with integrated digital controls for easy installation it is designed with developers, specifiers and installers in mind. With 90% efficiency and low specific fan powers designers will also see a reduction in their dwelling emission rate.

Lo-Carbon Sentinel Kinetic®
Range Overview
Mechanical Ventilation with Heat Recovery

Features & Benefits

- Manufactured in the UK
- Building Regulations ADF and ADL compliant
- Recognised in SAP Appendix Q. Specific Fan Power down to 0.4 W/l/s
- Up to 94% heat recovery whilst controlling condensation
- Programmable Summer bypass
- Horizontal and/or vertical duct outlets
- Integrated digital controller for simple and accurate commissioning
- Lightweight for easy installation
- External condensate connection
- Plug and play controls; Humidistat, Ventwise, Wireless remote
- BMS connectivity
- LS inputs/(Light Switch)
- Volt-free inputs
- Self diagnosis for simplified fault finding
- Adjustable delay On/delay Off timer

The Sentinel Kinetic Range incorporates:

- A wholehouse heat recovery system with up to 94% energy efficiency
- An easily accessible heat recovery cube protected by two removable G3 filters
- Two Lo-Carbon energy saving EC/DC fans which ensure long life (typically over double the life of AC motors) and lowest possible energy use
- Fully insulated construction with built in condensation drain
- Specifically designed for new build constructions with a high level of insulation

The Lo-Carbon Sentinel Kinetic meets the latest requirements of the Building Regulations ADF and ADL for wholehouse system ventilation: System 4. Continuous mechanical supply and extract with heat recovery. The Lo-Carbon Sentinel Kinetic models have three fully adjustable speeds and a purge setting (maximum flow). Provided with the unit is a digital controller that can be used to preset the speeds to any required airflow within the performance range.

Integral Humidity sensor

The integral humidity (models with H suffix) sensor increases speed in proportion to relative humidity levels, saving energy and reducing noise. The sensor also reacts to small but rapid increases in humidity, even if the normal trigger threshold is not reached. This unique feature ensures adequate ventilation, even for the smallest wet room. The night time relative humidity setback feature suppresses nuisance tripping as humidity gradually increases with falling temperature.

Optional F5 supply filters

Kinetic B, BH & Cooker Hoods Filter
Stock Ref
444200
Kinetic V Filter
Stock Ref
444199
Kinetic Plus range Filter
Stock Ref
444201
For sensors see Accessories & Controllers section.

Sentinel Control

The Sentinel controller is the most advanced system available, providing Demand Control Ventilation (DCV), minimising energy consumption and noise levels, and optimising ventilation performance. Sentinel controlled units may be set to operate fully automatically or with varying levels of manual intervention.

BMS (Building Management System) Options

There are two levels of BMS available: Basic Output and full Electronic BMS.

Basic Output provides a 5 volt output from the LED terminals on the controller. This output occurs whenever a message appears on the digital display, for example; 'Check Filters' or a fault code. The output can also be converted to volt-free with the addition of an optional Opto-Coupler.

Electronic BMS: A full range of two-way digital signals are available through the RJ11 connector on the control board. The BMS system provider will translate this signal to extract the desired data. Contact Vent-Axia to discuss your specific requirements.

LED Alarm

MVHR units are often installed in lofts or other locations where they are difficult to monitor. The optional remote LED alarm illuminates when any message is visible on the MVHR unit display panel. The LED alarm can be installed in any convenient location within the dwelling allowing end users to see that the unit requires attention.

Control Inputs

Five volt-free pairs of switch terminals for sensor inputs allow boosting from a full range of Vent-Axia controllers – humidistats, PIR, timers.

Two terminals with 0-24V outputs allow 0V to 10V proportional control by sophisticated controllers such as CO_2 sensors and proportional humidistats.

The optional Ventwise controller senses a temperature rise in a bath/shower hot water supply and/or current in a cooker/hob electrical circuit to activate boost, ensuring additional ventilation when needed.

Switched-live for boosting via light switches (220-240 V AC) or manual Normal/Boost switches. This connection has the advantage of Delay-On and Delay-Off facility. Delay-On enables you to prevent the Boost airflow between 0 and 10 minutes, after a light switch has been activated. Delay-Off allows the Boost airflow to continue after a light switch is turned off to ensure rapid clearance of humidity. This timer is adjustable between 0 and 25 minutes.

The units can be boosted incrementally via the on board controller or the Wired Remote Controller: One press = 30 minutes, two presses = 60 minutes, three presses = continuous.

Optional Controls

LED Alarm with 15 metre cable
Stock Ref
448356

Wired Remote Controller with 15 metre cable
Stock Ref
443283

Wireless enable kit (includes one switch)
Stock Ref
441865

Additional wireless boost switch (max 3 switches)
Stock Ref
437827

Ventwise Controller (also requires sensors, see Accessories & Controllers section)
Stock Ref
441780

Purge setting

The unit can be set to maximum flow (100%) by pressing and holding the Boost button on the unit itself or optional wired controller for five seconds. Purge will continue for two hours unless cancelled by pressing the Boost button again.

Summer Bypass

An internal damper is activated when the outside temperature is less than the room temperature. The damper opens allowing cooler fresh air to bypass the Heat Recovery Cell and reduce the internal temperature towards the preset 'Comfort Temperature'. When the inside air temperature reaches the preset 'Comfort Temperature' the bypass damper closes.

Frost Protection

In order to prevent frost forming inside the unit in winter conditions, the Kinetic range employs a sophisticated frost protection strategy that modifies the airflows ensuring heat recovery continues down to -20°C. Below this temperature, the units will operate as 'extract only' fans. If balanced ventilation is required at low temperatures, a duct pre-heater should be used.

System Cooker Hood Range

System canopy hoods are a motorless hood with extract being provided by the MVHR unit. When the Boost button on the canopy is activated, the MVHR unit goes to boost setting and the summer bypass opens preventing cooking by-products entering the heat exchanger cell.

Wired Remote Controller

Standard with horizontal units, optional extra with vertical units. Supplied with 15 metres of cable (max length), the Wired Remote Controller duplicates all the features of the on-board control panel, allowing commissioning, diagnosis and user control. Flush mounting, suitable for a single gang pattress box 16mm deep.

Lo-Carbon
Kinetic® Range Overview
Mechanical Ventilation with Heat Recovery

Model Range Overview

Model Ranges	Lo-Carbon Sentinel Kinetic Plus	Lo-Carbon Sentinel Kinetic Cooker Hood		Lo-Carbon Sentinel Kinetic			Lo-Carbon Sentinel Kinetic Horizontal				Lo-Carbon Kinetic Plus E	Lo-Carbon Kinetic E
	Sentinel Kinetic Range										*Kinetic E Range*	
Models	Plus	C	CH	V	B	BH	300Z	300ZH	200Z	200ZH	Plus E	E
Auto Summer Bypass	✓				✓	✓	✓	✓	✓	✓		
Easy Access Filters	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Very Low Noise Levels	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Integral Cooker Hood		✓	✓									
Built-In Humidistat	✓		✓			✓		✓		✓		
Kitchen Cupboard Inst'n				✓	✓	✓						✓
Max Airflow @ 100Pa	117	68	68	68	68	68	81	81	51	51	117	36
Frost Protection	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Delay-On	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Wired Remote Control	O	O	O	O	O	O	✓	✓	✓	✓		
Wireless Boost	O	O	O	O	O	O	O	O	O	O		
Clean Filter Indicator (Time)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Fault Code Indicator	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Potentiometer Control											✓	✓
Sentinel Control	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Switched Live	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
No Volt Contact	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
0V - 10V Proportional Control	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
BMS Input/Output	✓*	✓*	✓*	✓*	✓*	✓*	✓*	✓*	✓*	✓*		
Lightweight	✓			✓	✓	✓					✓	✓
External Condensate	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Horizontal Duct Option	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Horizontal (Slab) Installation							✓	✓	✓	✓		
Left/Right Orientation	✓	✓	✓	✓	✓	✓					✓	✓
Ventwise Control	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
PIN Number Lock	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Running time indicator	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Mounting Options	Wall Surface	Wall		Wall Surface			Slab				Wall Surface	Wall Surface
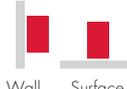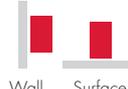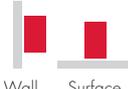
O - Denote Optional, *Seek technical advice from Vent-Axia

T: 0844 856 0590

Wired Remote Controller
- Standard with horizontal units, optional extra with vertical units
- Supplied with 15 metres of cable (max length), the Wired Remote Controller duplicates all the features of the on-board control panel, allowing commissioning, diagnosis and user control
- Flush mounting, suitable for a single gang pattress box 16mm deep

Stock Ref
443283

Wireless Transmitter Controller Receiver Kit
- Manual boost
- Adjustable overrun timer
- Easy wireless installation
- Reduces installation time
- Future proof - add more controllers at any time

Stock Ref
439352

Wireless Transmitter Controller
- Additional controller for 439352
- A maximum of 4 controllers can be used per system
- Can be connected to other accessories (eg Humidistat) to send a boost signal wirelessly

Stock Ref
437827

Ambient Response Humidity Sensor
- Pullcord override and neon indicator
- Changeover relay switch
- Operating range: 30% - 90%RH
- Ambient operating temp. 5°C to 40°C
- 220-240V AC
- Will fit single gang box for surface mounting

Stock Ref
563550

Ecotronic Humidity Sensor
- Set Point adjustable
- Maximum switching load 1 amp inductive
- Pullcord override indicator
- Ambient operating temp. 0°C to 40°C
- Supply voltage 220-240V

Stock Ref
563532

Air Quality Sensor
- Ambient operating temp. 0°C to 50°C
- Min - Max mode or direct damper control
- Surface mounted
- 1 - 25 min O/R timer
- Supply voltage 220-240V

Stock Ref
563506

Normal Boost Switch
- A single gang switch to boost from low to high speeds on heat recovery systems
- 85 x 85 x 10mm (H x W x D)

Stock Ref
455213

Visonex PIR Sensor
- Fits any UK single gang mounting box
- Adjustable timer overrun (5-25 mins)
- Range of detection up to 10 metres
- Designed to meet IP43
- Ambient operating temp. range 0°C to 50°C

Stock Ref
459623

CO_2 + Temp Room Sensor
- 240V DC
- 0 - 2000ppm CO_2 working range
- 0 - 50°C working range
- Auto-calibrating NDIR CO_2
- Thin film platinum temperature sensor for high accuracy

Stock Ref
433257

Ventwise
- Automatically boosts fan when temperature of the supply pipe to a shower or bath increases
- Automatically boosts fan when electric hob is switched on
- Can be used in conjunction with manual override input
- Adjustable overrun timer
- 3 sensor inputs

Stock Ref
441780

Momentary Push Switch
- Compatible with Sentinel Kinetic range, the momentary switch boosts the unit for 30 minutes
- 85 x 85 x 10mm (H x W x D)

Stock Ref
448929

Normal Boost Switch with Light Indicator
- Single gang switch with LED illumination when in the Boost condition
- 85 x 85 x 10mm (H x W x D)

Stock Ref
449060

Normal Boost Switch - Stainless Steel
- A single gang switch to operate normal/boost functions on MVHR systems
- Brushed stainless steel finish
- 90 x 90 x 18 (H x W x D)

Stock Ref
437320

Isolator Relay Controller
- Allows fan unit to be isolated from other mains circuit when used with TIM2 trickle/boost switch or light switch control

Stock Ref
442030

Lo-Carbon
Sentinel Kinetic®
MVHR Unit

Features & Benefits

- Recognised in SAP Appendix Q
- Ultra quiet
- Lightweight for easier installation
- Horizontal duct option for space-saving installations
- Fits within a 290mm deep kitchen cupboard
- Integrated digital controller for simple and accurate commissioning
- Plug and play controls; Humidistat, Ventwise, Wireless remote
- BMS connectivity
- LS inputs/(Light Switch)
- Volt-free inputs
- Self diagnosis for simplified fault finding
- Adjustable delay On/delay Off timer

Easy Installation

The Sentinel Kinetic models can be mounted vertically in a roof space, hallway cupboard or kitchen or within a kitchen cupboard. When mounted in an unheated area ducting should be insulated. Ducting can be attached to the unit horizontally, vertically or both. Minimum internal depth of kitchen cupboard: V, B & BH models 290mm.

V&B/BH Models

Left (L) or right (R) hand installation. The unit is supplied with duct spigots to outside on the right hand side. These can be reversed on site by simply removing the control panel, rotating the unit 180 degrees and re-attaching the control panel. **Horizontal and vertical spigots:** The combination of spigot options allows installation in confined locations. If vertical and horizontal connection is required on the same outlet/inlet, additional spigots can be supplied.

The condensate drain can be taken out through the back, side or bottom of the unit. Using the fittings supplied, the final condensate connection is made outside the unit and can be completed after installation.

Integral Humidity Sensor

The integral humidity sensor increases speed in proportion to relative humidity levels, saving energy and reducing noise. The sensor also reacts to small but rapid increases in humidity, even if the normal trigger threshold is not reached. This unique feature ensures adequate ventilation, even for the smallest wet room. The night time relative humidity setback feature suppresses nuisance tripping as humidity gradually increases with falling temperature.

Models

Model	Stock Ref
Kinetic V	438342
(non-summer bypass)	
Kinetic B	438222
(with summer bypass)	
Kinetic BH	443319
(with summer bypass & humidity sensor)	

Accessories

Model	Stock Ref
Wired remote controller	443283
Wireless enable kit	441865
Ventwise Controller	441780
LED alarm with 15m cable	448356

Model B & BH	Stock Ref
Kinetic spare filters 2 pk	441774
F 5 pollen filter	444200

Model V	Stock Ref
Kinetic spare filter 2 pk	442356
F5 pollen filter	444199

Dimensions (mm)

A	B	C	D	EØ	F	G
550	550	285	140	125	360	90

Weight: 15kg

SAP Appendix Q Performance

	Thermal Efficiency %	SFP (W/l/s)
K+1	90	0.60
K+2	90	0.59
K+3	90	0.68
K+4	89	0.79
K+5	90	0.97

Sentinel

Performance

Fan speeds are fully adjustable within the performance range

(x) figure relates to Wattage (both motors)

Example system curves - vertical spigots

(x) figure relates to Wattage (both motors)

Example system curves - horizontal spigots

Sound Data

		Octave band, Hz, dB SWL							
Flow, l/s	Test mode	63	125	250	500	1K	4K	8K	SPL dB(A) @ 3m
10	Supply	47.8	40.2	38	31.1	28.2	23.6	30.9	21.4
	Extract	47	38.7	36	29.9	25	23.3	30.8	20.6
	Breakout	43.6	36.2	37.4	30.9	27.4	24.2	31.4	18.6
20	Supply	54	46.6	50.2	44.5	44.4	28.8	31.9	31.2
	Extract	46.8	40.5	34.6	34.2	34.6	23.7	30.3	22.9
	Breakout	45.9	39.9	40.6	35.7	33.5	25.3	31.2	21.3
30	Supply	58.1	54.5	57.6	52.2	51.7	38.6	35.8	38.5
	Extract	47.6	46.2	38.7	41.3	42.8	26.4	30.5	28.4
	Breakout	45.2	42.4	48.2	40.8	37.7	30	31.1	25.2
40	Supply	65.2	58.4	62.3	58	56.5	44.1	41.4	43.6
	Extract	53.5	53	44	47.7	48.1	31.5	31.5	33.5
	Breakout	50.9	47.6	47.4	48.1	42.5	36.3	34.4	29.3
50	Supply	66.4	63.2	66.3	62.5	61.7	50	47.8	48.3
	Extract	64.2	55.2	48	50.9	52.1	35.9	35	37.2
	Breakout	55	51	51.3	51.6	46.9	42	38.3	33.2

Tested according to BS848. Breakout quoted spherical. Supply and Extract quoted hemispherical.

Lo-Carbon Sentinel® Kinetic

Consultants Specification

Operation

The supply and extract ventilation unit shall be a Sentinel Kinetic as manufactured by Vent-Axia and shall be sized as indicated on the drawings and shall be in accordance with the particular specification.

Supply air to the room shall be pre-heated by the extract air via the integrated composite plastic counterflow heat recovery cell. The Sentinel Kinetic shall automatically vary the ventilation rate via EC/DC motors, as it receives signals from one of the optional interconnected sensors. When a signal is received, the fans shall either vary their speed proportionally or on a trickle and boost principle.

The unit shall have the facility to commission the supply and extract fans individually via in-built minimum and maximum speed adjustment, or alternative wired remote control unit. The fans themselves shall have independent, infinitely variable speed control.

Unit specification

The unit shall be manufactured with an ABS Outer case construction, and incorporate a reversible core to allow for left or right hand mounting.

The unit shall have a high efficiency composite plastic counterflow heat exchanger, supply and extract filters, automatic summer bypass, (B/BH) integral minimum and maximum infinitely variable speed controls with facia mounted failure indication. The unit shall have low energy, high efficiency EC/DC fan/motor assemblies with sealed for life bearings. The impellers shall be high efficiency forward curved centrifugal type.

The unit shall have a heat exchanger cell with a thermal efficiency of up to 92% when tested to EN 308. This shall be protected by G3 grade synthetic filters on supply and extract. Complete with a condensate drip tray and drain connection.

The unit shall be constructed with a removable Core allowing full maintenance access. The removable Core shall provide access to the following:
- ✓ Supply and extract filter
- ✓ Heat exchanger
- ✓ Access to the electrical connections

Access shall be provided for wiring termination and setup/ commissioning. The backlit LCD user interface therein shall be removable for remote mounting if required.

Units shall be as manufactured by Vent-Axia Ltd.

Standard controls

All Sentinel Kinetic units shall incorporate the following functions integrally mounted, pre-wired and factory fitted by the manufacturer:
- ✓ Integral infinitely variable fan speed control on supply and extract
- ✓ Integral min/max ventilation control/set point
- ✓ Integral BMS interfaces – control and status indication
- ✓ Heating interlocks
- ✓ 0-10V proportional speed adjustment
- ✓ Volt free contacts
- ✓ 24V sensor supply
- ✓ Integral on/off or trickle boost function from remote switch e.g. PIR occupancy detector
- ✓ The unit shall be controlled by the 'Sentinel' control devices (enablers and sensors) as detailed in the schedule or on the drawings
- ✓ Fully automatic summer bypass
- ✓ Switched Live input with adjustable 'delay-on' feature
- ✓ Fan failure or component failure indicated via individual fault code display
- ✓ Running time counter
- ✓ Control panel PIN number lock
- ✓ Automatic frost protection effective to -20°C
- ✓ The unit shall incorporate ('H' models) an integral humidity sensor with the following features:

- • Ambient Response; Raises the humidity trigger point as dwelling temperature reduces
- • Rapid Response; Monitors the rate of change in humidity and triggers increased airflow even if the humidity trigger threshold is not reached
- • Proportional Response; Incrementally increases the fan speed to reduce noise and reduce energy consumption
- ✓ Tool free filter access

Airflow Direction & Condensate Connection (RH Supplied)

LH

RH (supplied)

T: 0844 856 0590

Electrical Connection

Please note: Electrical connection should be carried out by an appropriately qualified person and in accordance with current wiring regulations.

Trickle to Boost by Trickle/Boost switch
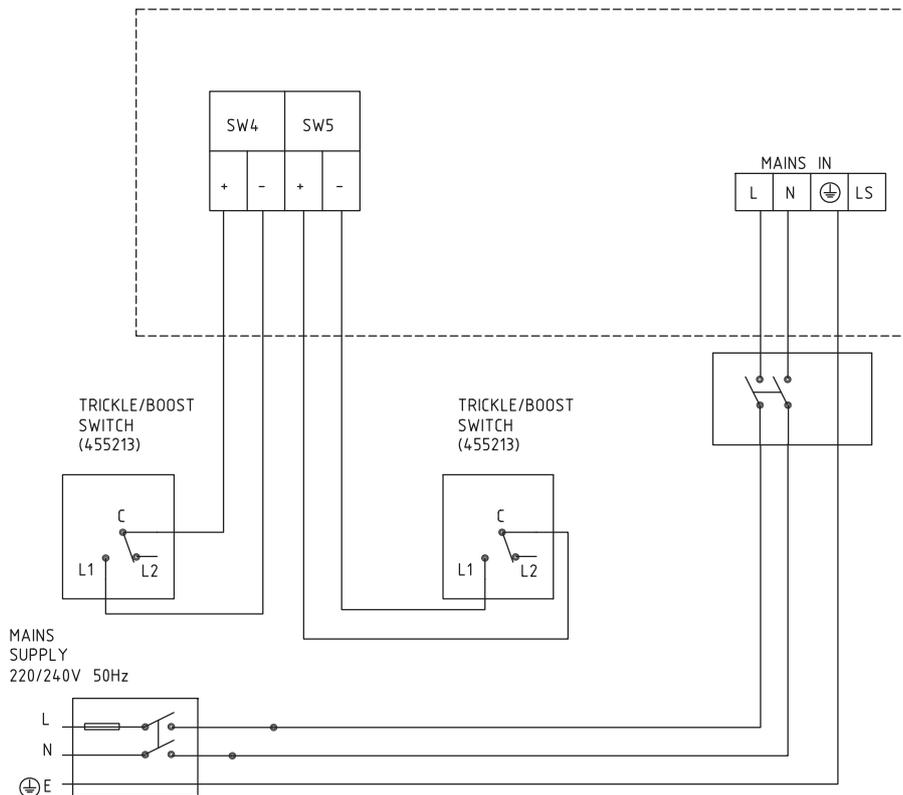
Lo-Carbon
Sentinel Kinetic® Plus
MVHR Unit

Features & Benefits

- Recognised in SAP Appendix Q
- Ultra quiet
- Horizontal duct option for space-saving installations
- High airflow and ideal for student accommodation clusters
- Unique folding filter for removal when access is restricted
- Integrated digital controller for simple and accurate commissioning
- Lightweight for easy installation
- Plug and play controls; Humidistat, Ventwise, Wireless remote
- BMS connectivity
- LS inputs/(Light Switch)
- Volt-free inputs
- Self diagnosis for simplified fault finding
- Adjustable delay On/delay Off timer
- Summer bypass and frost protection

Increased Performance

The Kinetic Plus benefits from the latest high efficiency, backward curved impeller design, ensuring the lowest possible energy consumption, ultra quiet operation and an exceptional performance range covering small one bed apartments to the largest of houses.

Care Homes & Student Accommodation

The Kinetic Plus is ideal for larger homes and multiple occupancy units such as nursing homes and student accommodation. Capable of 400m³/hr at 150Pa, the unit can extract from up to ten bathrooms and a communal kitchen while still achieving almost 90% heat recovery. The fully automatic capability of the Kinetic range means that adequate ventilation is always achieved.

The Kinetic's BMS capability is also ideal for those commercial applications where landlords or property managers want to monitor and optimise building performance and maintenance. The Kinetic BMS can provide status information and its self diagnostics can report if any fault is found.

Spigot Options

Spigots may be re-positioned to give horizontal connection or a combination of vertical and horizontal connection.

Optional 180mm/200mm spigots can simplify connection in commercial installations where larger diameter duct work has been used.

Quick Change Filter

As many systems are placed within cupboards the unique filter design folds as you remove it to ensure easy access in restricted spaces.

Integral Humidity Sensor

The integral humidity sensor increases speed in proportion to relative humidity levels, saving energy and reducing noise. The sensor also reacts to small but rapid increases in humidity, even if the normal trigger threshold is not reached. This unique feature ensures adequate ventilation, even for the smallest wet room. The night time relative humidity setback feature suppresses nuisance tripping as humidity gradually increases with falling temperature.
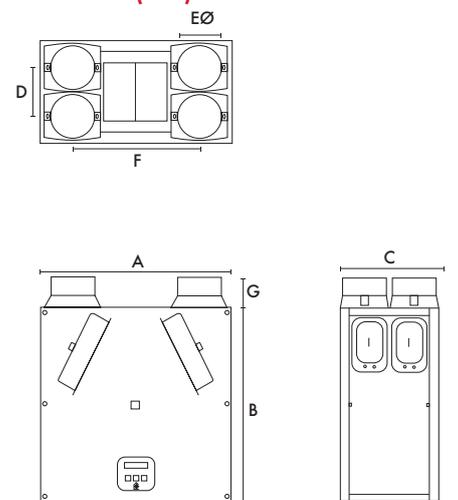
Models

	Stock Ref
Kinetic Plus B	443028

Accessories

Model	Stock Ref
Wired remote controller	443283
Wireless enable kit	441865
Ventwise controller	441780
LED alarm with 15m cable	448356
Opto-coupler	447340
For volt-free bms connection	
Kinetic spare filters 2 pk.	443351
F5 pollen filter	444201
180Mm/200mm spigot kit	446523
(One per pack)	

Dimensions (mm)

A	B	C	D	EØ	F	G
785	635	722	550	150	520	275

Weight: 24kg
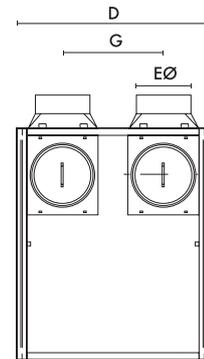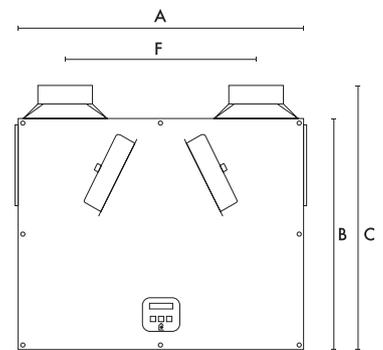
SAP Appendix Q Performance

	Thermal Efficiency %	SFP (W/l/s)
K+1	91	0.51
K+2	91	0.40
K+3	90	0.41
K+4	90	0.45
K+5	90	0.53
K+6	90	0.60
K+7	90	0.70

Vent·Axia

Sentinel

BEAB Approved

Performance

Fan speeds are fully adjustable within the performance range
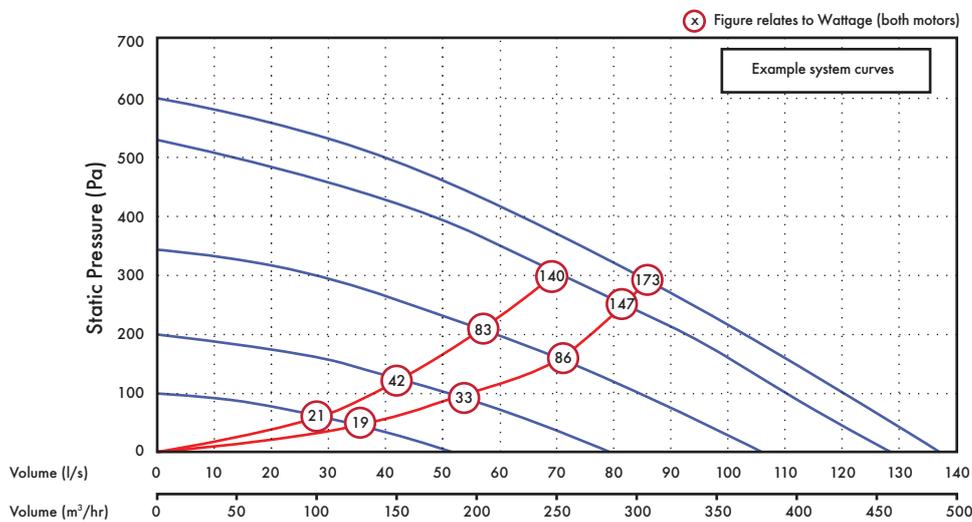
Sound Data

Flow, l/s	Unit setting	Test mode	Octave band, Hz, dB SWL								SPL dB(A) at 3m
			63	125	250	500	1k	2k	4k	8k	
50	20%	Supply	46.5	54.3	46.4	44.8	36.2	28.5	24.5	31.2	28.5
		Extract	46	52.2	42.3	38.7	27.6	24.2	24	31.7	25
		Breakout	48.5	42.6	43.3	38.9	35.8	29.3	23.8	30.7	22.8
78	40%	Supply	50.3	59.1	54.5	56.5	47	39.9	26.3	31.7	38
		Extract	46.8	51.6	47.8	44.4	32.7	27.4	24.4	31.7	28
		Breakout	48.4	51.2	53.4	46	41	34.6	25	30.3	28.5
104	60%	Supply	52.4	57.2	60.4	60.9	55.8	50.3	33.1	33.9	43.6
		Extract	50	49.8	56.8	52.4	40.2	35.9	33.4	39.8	35.2
		Breakout	55	49.6	59.7	54.5	46.9	39.9	33.6	39.2	34.9
127	80%	Supply	54.9	60.7	67.4	66.6	61.8	56	39.6	37.7	49.5
		Extract	50.4	52	61.2	56.6	45.1	39.6	34.2	40.2	39.1
		Breakout	53.5	53.4	60.8	59.1	53	45.3	36	40.1	38.7
137	100%	Supply	54.7	61.7	70.5	69.9	62.7	57.5	42.1	38.3	52
		Extract	54.4	55.1	65.8	57.5	46.9	40.6	33.7	40	41.8
		Breakout	56.6	54.6	60.5	60.7	54.7	45.9	36.5	39.6	40

Lo-Carbon Sentinel® Kinetic Plus

Consultants Specification

Operation

The supply and extract ventilation unit shall be as Sentinel Kinetic Plus as manufactured by Vent-Axia and shall be sized as indicated on the drawings and shall be in accordance with the particular specification.

Supply air to the room shall be pre-heated by the extract air via the integrated composite plastic counterflow heat recovery cell. The Sentinel Kinetic Plus shall automatically vary the ventilation rate via EC/DC motors, as it receives signals from one of the optional interconnected sensors.

When a signal is received, the fans shall either vary their speed proportionally or on a trickle and boost principle.

The unit shall have the facility to commission the supply and extract fans individually via in-built minimum and maximum speed adjustment, or alternative wired remote control unit. The fans themselves shall have independent, infinitely variable speed control.

Unit specification

The unit shall be manufactured with an ABS outer case construction, and incorporate a reversible core to allow for left or right hand mounting.

The unit shall have a high efficiency composite plastic counterflow heat exchanger, supply and extract filters, automatic summer bypass, integral minimum and maximum infinitely variable speed controls with facia mounted failure indication.

The unit shall have low energy, high efficiency EC/DC fan/motor assemblies with sealed for life bearings. The impellers shall be high efficiency backward curved centrifugal type.

The unit shall have a heat exchanger cell with a thermal efficiency of up to 92% when tested to EN 308. This shall be protected by G3 grade synthetic filters on supply and extract. Complete with a condensate drip tray and drain connection.

The unit shall be constructed with a removable Core allowing full maintenance access. The removable Core shall provide access to the following:

✓ Supply and extract filter

✓ Heat exchanger

✓ Access to the electrical connections

Access shall be provided for wiring termination and setup/ commissioning. The backlit LCD user interface therein may be duplicated for remote mounting if required. Units shall be as manufactured by Vent-Axia Ltd.
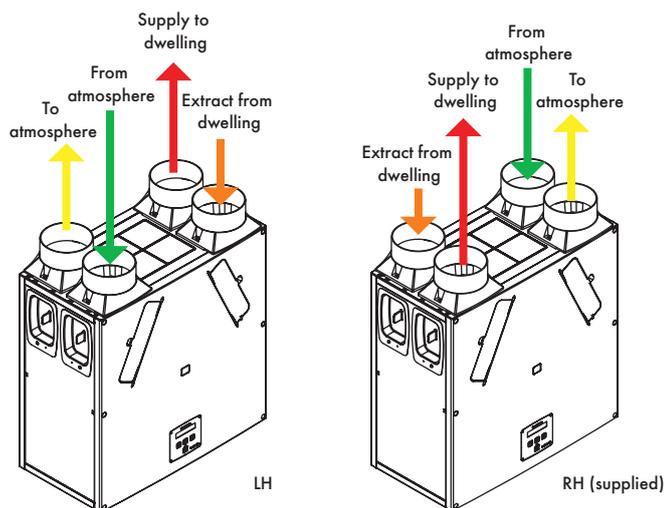
Standard controls

All Sentinel Kinetic units shall incorporate the following functions integrally mounted, pre-wired and factory fitted by the manufacturer:

✓ Integral infinitely variable fan speed control on supply and extract

✓ Integral min/max ventilation control/set point

✓ Integral BMS input/output interfaces – control and status indication

✓ Heating interlocks

✓ 0-10V proportional speed adjustment

✓ Volt free contacts

✓ 24V sensor supply

✓ Integral on/off or trickle boost function from remote switch, e.g. PIR occupancy detector

✓ Fully automatic summer bypass

✓ Switched Live input with adjustable 'delay-on' feature

✓ Fan failure or component failure indicated via individual fault code display

✓ Running time counter

✓ Control panel PIN number lock

✓ Automatic frost protection effective to -20°C

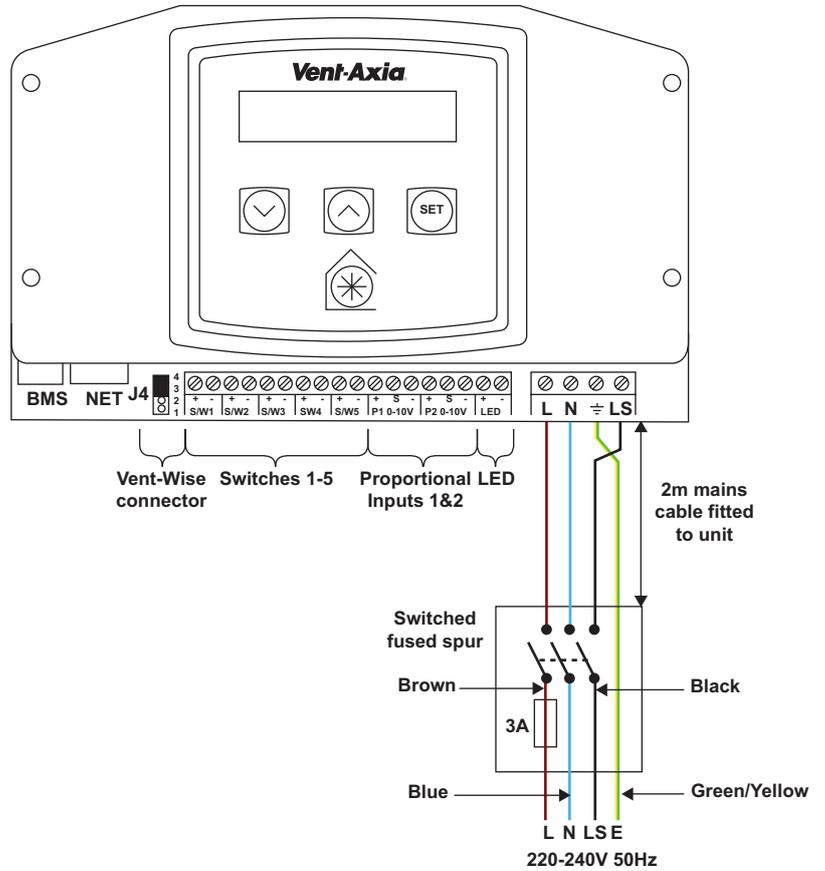✓ The unit shall incorporate an integral humidity sensor with the following features:

  • Ambient Response; Raises the humidity trigger point as dwelling temperature reduces

  • Rapid Response: Monitors the rate of change in humidity and triggers increased airflow even if the humidity trigger threshold is not reached

  • Proportional Response; Incrementally increases the fan speed to reduce noise and reduce energy consumption

✓ The unit shall be controlled by the 'Sentinel' control devices (enablers and sensors) as detailed in the schedule or on the drawings.

✓ Tool free filter access

Airflow Direction & Condensate Connection (RH Supplied)

Extract from dwelling

Supply to dwelling

From atmosphere

To atmosphere

Spigot

Filter Access Panels

Alternative Spigot Locations

Normal Condensate Connection

Alternative Condensate Connections

Control Unit

T: 0844 856 0590

Electrical Connection

Please note: Electrical connection should be carried out by an appropriately qualified person and in accordance with current wiring regulations.

Vent-Wise connector Switches 1-5 Proportional Inputs 1&2 LED

2m mains cable fitted to unit

Switched fused spur

Brown — — Black

3A

Blue — — Green/Yellow

L N LS E
220-240V 50Hz

Trickle to Boost by two lighting circuits or Trickle/Boost switch

Lo-Carbon
Sentinel Kinetic® Cooker Hood
MVHR Unit

Features & Benefits

- Recognised in SAP Appendix Q
- Includes Cooker Hood Canopy
- Ultra quiet
- Horizontal duct option for space-saving installations
- Fits within a 600mm wide aperture (300mm deep)
- Integrated digital controller for simple and accurate commissioning
- Plug and play controls; Humidistat, Ventwise, Wireless remote
- BMS connectivity
- LS inputs/(Light Switch)
- Volt-free inputs
- Self diagnosis for simplified fault finding
- Adjustable delay On/delay Off timer
- Summer bypass and frost protection

Easy Installation

Ducting can be attached to the unit horizontally, vertically or both. Minimum internal depth of kitchen cupboard: 300mm.

Horizontal and vertical spigots: The combination of spigot options allows installation in confined locations. If vertical and horizontal connection is required on the same outlet/inlet, additional spigots can be supplied.

The condensate connection can be taken through the rear of the unit or through the side of the unit into an adjacent cupboard prior to connection into pre-installed domestic waste water system.

Cooker Hood Unit

The Sentinel Kinetic Cooker Hood is designed to fit in a 600mm aperture above a hob. The telescopic hood incorporates two flat removable metal grease filters, low energy light bulbs and is available with a White or Brushed Aluminium front trim.

The hood contains an integral fire damper in accordance with BRE Digest 398 and is connected to the heat recovery unit by a galvanised steel duct with access for cleaning. When the hood is opened,

the heat recovery unit goes to boost speed and the summer bypass automatically opens to prevent cooking by-products entering the heat recovery cell. As an additional safety feature, the duct also contains a thermal cut-out fuse which turns off the MVHR unit in the event of excessive temperature in the airway. Cooker Hood units cannot be handed on-site and must be purchased as left hand (L) or right hand (R) models.

Models

Lo-Carbon Sentinel Kinetic with summer bypass and humidity sensor.

Model	Stock Ref
Kinetic CWH L	**446756**
(with White Cooker Hood)	
Kinetic CSH L	**446757**
(with Brushed Aluminium Cooker Hood)	
Kinetic CWH R	**446758**
(with White Cooker Hood)	
Kinetic CSH R	**446759**
(with Brushed Aluminium Cooker Hood)	

Lo-Carbon Sentinel Kinetic with summer bypass.

Model	Stock Ref
Kinetic CW L	**441483**
(with White Cooker Hood)	
Kinetic CS L	**441484**
(with Brushed Aluminium Cooker Hood)	
Kinetic CW R	**441485**
(with White Cooker Hood)	
Kinetic CS R	**441486**
(with Brushed Aluminium Cooker Hood)	

Integral Humidity sensor

The integral humidity (models with H suffix) sensor increases speed in proportion to relative humidity levels, saving energy and reducing noise. The sensor also reacts to small but rapid increases in humidity, even if the normal trigger threshold is not reached. This unique feature ensures adequate ventilation, even for the smallest wet room. The night time relative humidity setback feature suppresses nuisance tripping as humidity gradually increases with falling temperature.

Accessories

Model	Stock Ref
Wired remote controller	443283
Wireless enable kit	441865
Ventwise controller	441780
LED alarm with 15m cable	448356
Opto-coupler	447340
For volt-free bms connection	

Model	stock ref
Kinetic spare filters 2 pk.	441774
F5 pollen filter	444200

Dimensions (mm)
Weight : 27kg

Minimum clearance from the bottom of this unit to the top of the hob must be:
Gas: 750mm
Electric: 650mm

A	B	C	D	E	F
590	710	295	316	598	90

G	H	JØ	K	L
140	360	125	550	550

SAP Appendix Q Performance

	Thermal Efficiency %	SFP (W/l/s)
K+1	90	0.60
K+2	90	0.59
K+3	90	0.68
K+4	89	0.79
K+5	90	0.97

T: 0844 856 0590

Sentinel

Performance

Fan speeds are fully adjustable within the performance range

(x) figure relates to Wattage (both motors)

Example system curves - vertical spigots

(x) figure relates to Wattage (both motors)

Example system curves - horizontal spigots

Sound Data

Octave band, Hz, dB SWL

Flow, l/s	Test mode	63	125	250	500	1K	4K	8K	SPL dB(A) @ 3m
10	Supply	47.8	40.2	38	31.1	28.2	23.6	30.9	21.4
	Extract	47	38.7	36	29.9	25	23.3	30.8	20.6
	Breakout	43.6	36.2	37.4	30.9	27.4	24.2	31.4	18.6
20	Supply	54	46.6	50.2	44.5	44.4	28.8	31.9	31.2
	Extract	46.8	40.5	34.6	34.2	34.6	23.7	30.3	22.9
	Breakout	45.9	39.9	40.6	35.7	33.5	25.3	31.2	21.3
30	Supply	58.1	54.5	57.6	52.2	51.7	38.6	35.8	38.5
	Extract	47.6	46.2	38.7	41.3	42.8	26.4	30.5	28.4
	Breakout	45.2	42.4	48.2	40.8	37.7	30	31.1	25.2
40	Supply	65.2	58.4	62.3	58	56.5	44.1	41.4	43.6
	Extract	53.5	53	44	47.7	48.1	31.5	31.5	33.5
	Breakout	50.9	47.6	47.4	48.1	42.5	36.3	34.4	29.3
50	Supply	66.4	63.2	66.3	62.5	61.7	50	47.8	48.3
	Extract	64.2	55.2	48	50.9	52.1	35.9	35	37.2
	Breakout	55	51	51.3	51.6	46.9	42	38.3	33.2

Tested according to BS848. Breakout quoted spherical. Supply and Extract quoted hemispherical.

Lo-Carbon Sentinel® Kinetic Cooker Hood

Consultants Specification

Operation

The supply and extract ventilation unit shall be a Sentinel Kinetic as manufactured by Vent-Axia and shall be sized as indicated on the drawings and shall be in accordance with the particular specification.

Supply air to the room shall be pre-heated by the extract air via the integrated composite plastic counterflow heat recovery cell. The Sentinel Kinetic shall automatically vary the ventilation rate via EC/DC motors, as it receives signals from one of the optional interconnected sensors. When a signal is received, the fans shall either vary their speed proportionally or on a trickle and boost principle.

The unit shall have the facility to commission the supply and extract fans individually via in-built minimum and maximum speed adjustment, or alternative wired remote control unit. The fans themselves shall have independent, infinitely variable speed control.

Unit specification

The unit shall be manufactured with an ABS Outer case construction, and incorporate a metal duct to the cooker hood, intumescent fire damper and thermal switch, in accordance with BRE Digest 398.

The unit shall have a high efficiency composite plastic counterflow heat exchanger, supply and extract filters, automatic summer bypass, integral minimum and maximum infinitely variable speed controls with facia mounted failure indication. The unit shall have low energy, high efficiency EC/DC fan/motor assemblies with sealed for life bearings. The impellers shall be high efficiency forward curved centrifugal type.

The unit shall have a heat exchanger cell with a thermal efficiency of up to 92% when tested to EN 308. This shall be protected by G3 grade synthetic filters on supply and extract. Complete with a condensate drip tray and drain connection.

The unit shall be constructed with a removable Core allowing full maintenance access. The removable Core shall provide access to the following:
- ✓ Supply and extract filter
- ✓ Heat exchanger
- ✓ Access to the electrical connections

Access shall be provided for wiring termination and setup/ commissioning. The backlit LCD user interface therein shall be removable for remote mounting if required.
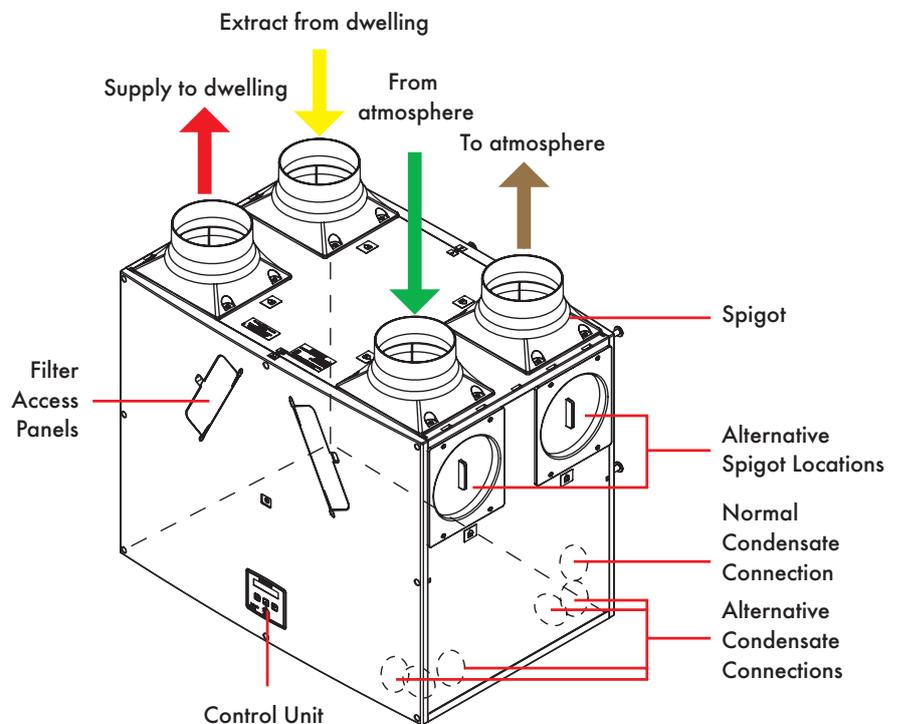
Units shall be as manufactured by Vent-Axia Ltd.

Standard controls

All Sentinel Kinetic units shall incorporate the following functions integrally mounted, pre-wired and factory fitted by the manufacturer:
- ✓ Integral infinitely variable fan speed control on supply and extract
- ✓ Integral min/max ventilation control/set point
- ✓ Integral BMS interfaces – control and status indication
- ✓ Heating interlocks
- ✓ 0-10V proportional speed adjustment
- ✓ Volt free contacts
- ✓ 24V sensor supply
- ✓ Integral on/off or trickle boost function from remote switch e.g. PIR occupancy detector
- ✓ The unit shall be controlled by the 'Sentinel' control devices (enablers and sensors) as detailed in the schedule or on the drawings
- ✓ Fully automatic summer bypass
- ✓ Switched Live input with adjustable 'Delay-On' feature
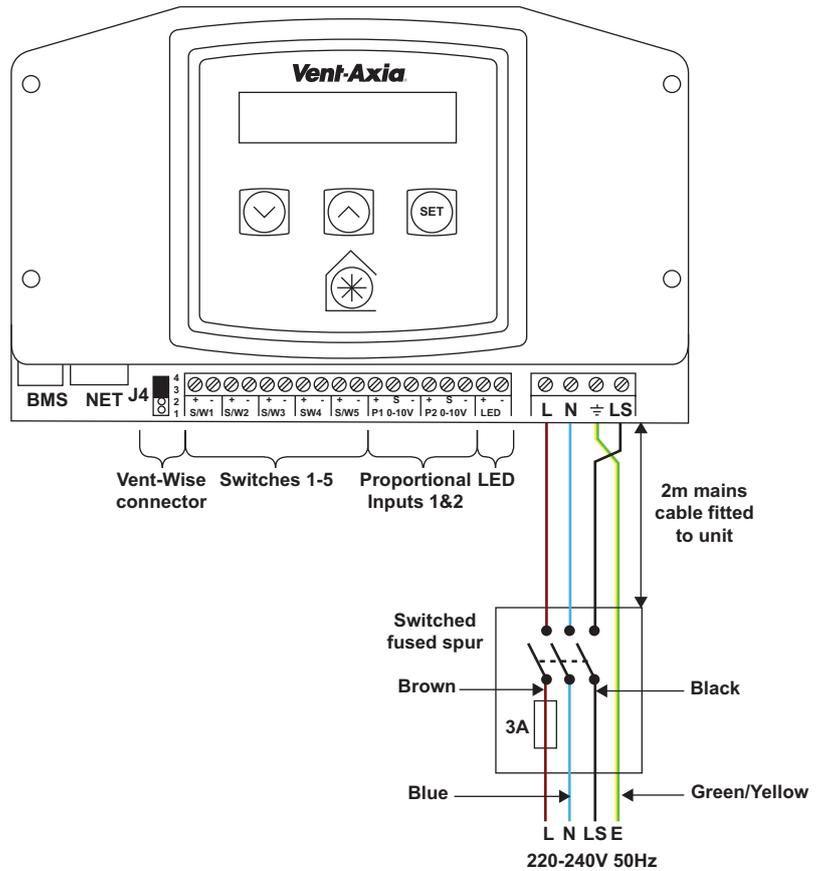- ✓ Fan failure or component failure indicated via individual fault code display
- ✓ Running time counter
- ✓ Control panel PIN number lock
- ✓ Automatic frost protection effective to -20°C
- ✓ The unit shall incorporate ('H' models) an integral humidity sensor with the following features:
  - • Ambient Response; Raises the humidity trigger point as dwelling temperature reduces
  - • Rapid Response; Monitors the rate of change in humidity and triggers increased airflow even if the humidity trigger threshold is not reached

- • Proportional Response; Incrementally increases the fan speed to reduce noise and reduce energy consumption
- ✓ Tool free filter access

Integral Cooker Hood Specification

The Sentinel Kinetic Cooker Hood shall consist of a telescopic Hood and galvanised steel duct connection to the MVHR Unit.

The Hood construction shall be of grey powder coated steel with Brushed Aluminium or White painted fascia.

The Hood shall trigger the MVHR unit to a pre-defined boost speed and open the summer bypass when opened, and shall have two low-energy lamps illuminating the hob top.

Filter shall be a flat metal grease filter, removable for cleaning.

The galvanised steel ductwork shall provide a continuous fire barrier between the Hood and the MVHR unit. It shall contain an Intumescent fire damper, thermal cut-out and volume balancing damper. The thermal cut-out shall switch off the MVHR unit at a pre-defined safety temperature.

The duct shall have an access panel for cleaning by the end-user.
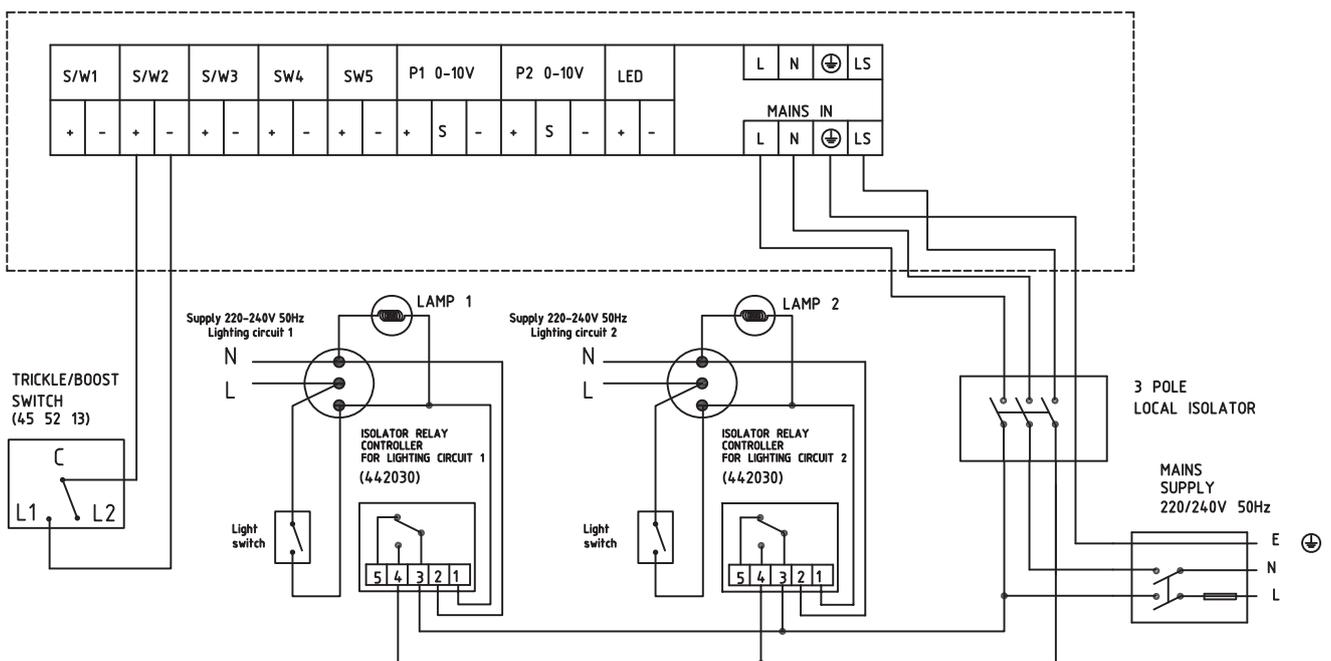
Airflow Direction
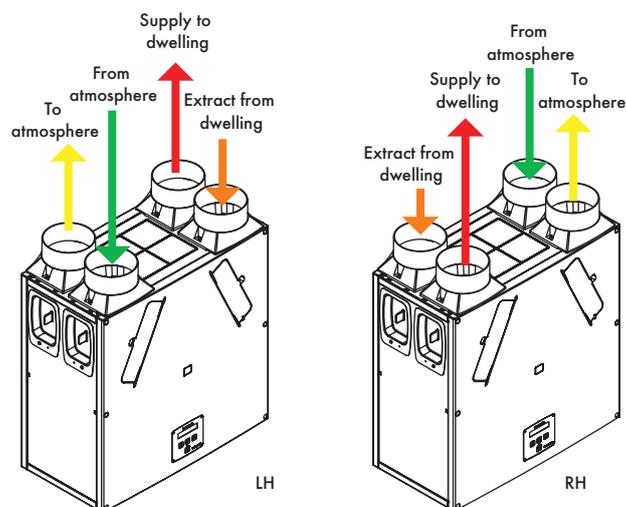
LH

RH

Electrical Connection

Please note: Electrical connection should be carried out by an appropriately qualified person and in accordance with current wiring regulations.

Vent-Wise connector **Switches 1-5** **Proportional Inputs 1&2** **LED**

2m mains cable fitted to unit

Switched fused spur

Brown **Black**

3A

Blue **Green/Yellow**

L N LS E
220-240V 50Hz
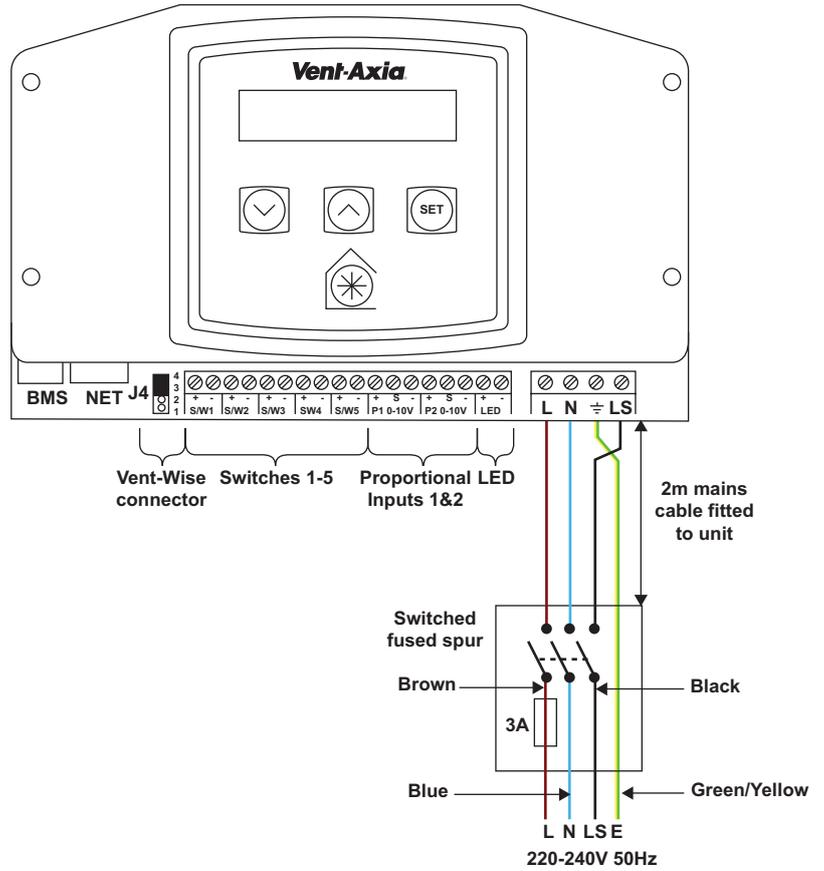
Trickle to Boost by a light circuit

SENTINEL KINETIC

LOGIC BOARD   CONTACT

S/W1	S/W2	S/W3	SW4	SW5	P1 0-10V	P2 0-10V	LED
+ -	+ -	+ -	+ -	+ -	+ S -	+ S -	+ -

L N ⏚ LS

MAINS IN

L N ⏚ LS

J12   LS ⏚ N L

POWER BOARD

N.B.
PURGE VIA CONTROL ON FAN UNIT OR OPTIONAL WIRELESS CONTROLLER

INTEGRAL PLUG & PLAY HUMIDISTAT FACTORY FITTED

LAMP 1
Supply 220-240V 50Hz Lighting circuit 1
N
L

LAMP 2
Supply 220-240V 50Hz Lighting circuit 2
N
L

3 POLE LOCAL ISOLATOR

TRICKLE/BOOST SWITCH
(45 52 13)

C
L1   L2

ISOLATOR RELAY CONTROLLER FOR LIGHTING CIRCUIT 1
(442030)

Light switch

5 4 3 2 1

ISOLATOR RELAY CONTROLLER FOR LIGHTING CIRCUIT 2
(442030)

Light switch

5 4 3 2 1

MAINS SUPPLY 220/240V 50Hz

E
N
L

Lo-Carbon
Kinetic® E
MVHR Unit

Features & Benefits

- Compact and quiet
- Lightweight for easy installation
- Easy access filters
- External condensate connection
- Compatible with a range of controls: PIR, Humidistat
- Horizontal spigot option
- Energy saving EC/DC motors
- Quiet operation
- Manufactured in the UK
- Switched live inputs (Light switch control)

A wholehouse heat recovery system with 91% energy efficiency. An easily accessible heat recovery cube protected by two removable EU3 filters. Two Lo-Carbon Energy Saving EC/DC fans ensure long life (typically over double the life of AC motors) and lowest possible energy use. Fully insulated construction with built in condensation drain.

Lo-Carbon Kinetic E meets the latest requirements of the Building Regulations Approved Document F and L for wholehouse system ventilation.

The Lo-Carbon Kinetic E model has two adjustable speeds, normal and boost. On the front of the unit is the controller that can be used to preset the speeds to any required performance, up to 38l/s (135m³/hr) 100Pa. Offering 'Close Control' to prevent over ventilating. Acoustically lined - low noise levels from only 20dB(A) @3m.

Left or right hand installation

Units are supplied as RH version with duct spigots to outside on the right hand side. These can be reversed onsite by simply removing the control panel, rotating the unit 180 degrees and re-attaching the control panel.

Horizontal and vertical spigots

The combination of spigot options allows installation in confined locations. If vertical and horizontal connection is required on the same outlet/inlet, additional spigots can be supplied.

Filter Check

An LED on the control panel illuminates at six month intervals to remind users to check and clean the filters.

Frost Protection

The Kinetic E range benefits from an automatic frost protection system which manages the airflows to prevent the heat recovery cell freezing in very cold weather, while at the same time maintaining ventilation down to -20°C.

Control options

There are two LS (Switched Live) inputs allowing the unit to be connected to a number of sensors and controllers such as Ventwise, Timespan, Ambient Response Humidistat. One of the LS connections also benefits from a 'Delay On' feature which prevents the unit boosting unnecessarily.

Model

Model	Stock Ref
Kinetic E	443303

Accessories

Model	Stock Ref
Kinetic spare Filters 2 pack	442356
Optional F5 Pollen filter	444199

SAP Appendix Q Test Results

Exhaust Terminal Configuration	Thermal Efficiency %	SFP (W/l/s)
K + 1	91%	0.51
K + 2	90%	0.58
K + 3	89%	0.71

Dimensions (mm)
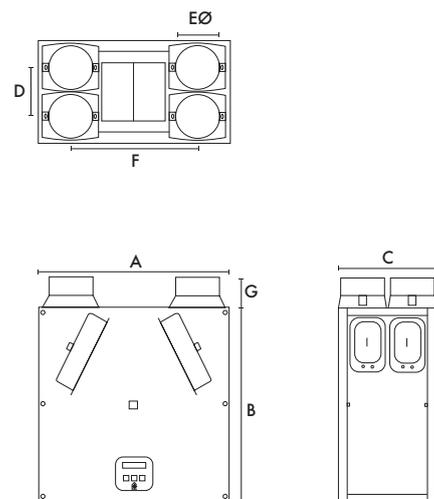
A	B	C	D	EØ	F	G
550	550	285	140	125	360	90
Weight: 15kg						

Performance

Fan speeds are fully adjustable within the performance range
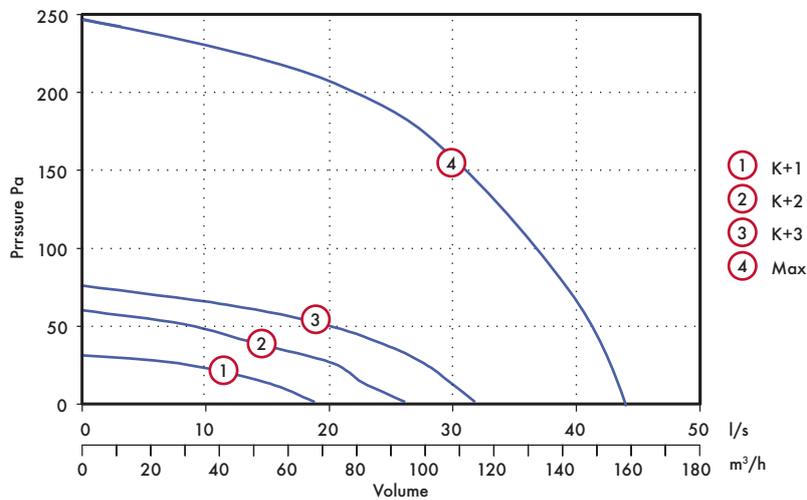
Sound Data

| Flow l/s | Test mode | Octave band, Hz, dB SWL | | | | | | | | SPL |
		63	125	250	500	1k	2k	4k	8k	dB(A) at 3m
15	Supply	43.5	44.7	40.4	38.9	35.7	27.1	24.8	29.5	28.3
	Extract	45.0	42.1	34.5	32.4	32.7	24.1	24.5	30.7	22.2
	Breakout	53.6	52.6	47.7	47.2	43.1	35.3	24.1	30.0	28.3
21	Supply	43.4	49.2	45.9	42.8	42.1	35.2	27.7	30.6	32.2
	Extract	45.4	42.6	37.1	33.8	35.5	28.2	23.8	30.3	23.5
	Breakout	48.9	42.9	49.4	47.9	44.2	39.8	26.4	30.6	29.2
27	Supply	47.0	52.1	49.3	46.3	46.1	39.6	31.3	31.2	35.4
	Extract	45.7	43.9	37.6	37.8	40.3	31.5	25.6	31.0	26.3
	Breakout	48.0	45.6	48.0	48.2	47.4	39.1	28.8	29.8	30.3
31	Supply	46.8	57.7	53.8	51.2	50.0	44.2	37.5	33.2	40.1
	Extract	47.1	45.2	40.6	40.8	44.2	35.1	28.7	31.3	29.3
	Breakout	50.2	46.9	48.2	50.0	47.7	41.7	31.4	30.3	31.3
MAX	Supply	48.0	58.9	57.8	54.4	53.2	49.0	42.1	36.0	42.6
	Extract	46.1	45.4	41.2	42.1	43.4	35.8	29.6	31.0	29.1
	Breakout	51.9	48.0	51.1	52.0	47.0	44.5	34.1	31.7	32.5

Tested according to BS848. Breakout quoted spherical. Supply and Extract quoted hemispherical.

Lo-Carbon Kinetic® E

Consultants Specification

Operation

The supply and extract ventilation unit shall be as Kinetic E as manufactured by Vent-Axia and shall be sized as indicated on the drawings and shall be in accordance with the particular specification. Supply air to the room shall be pre-heated by the extract air via the integrated composite plastic counterflow heat recovery cell. The Kinetic E shall automatically vary the ventilation rate via EC/DC motors, as it receives signals from one of the optional interconnected sensors. When a signal is received, the fans shall vary their speed on a trickle and boost principle. The unit shall have the facility to commission the supply and extract fans individually via in-built minimum and maximum speed adjustment. The fans themselves shall have independent, infinitely variable speed control.

Unit specification

The unit shall be manufactured with an ABS outer case construction, and incorporate a reversible core to allow for left or right hand mounting. The unit shall have a high efficiency composite plastic counterflow heat exchanger, supply and extract filters, integral minimum and maximum infinitely variable speed controls with facia mounted failure indication.

The unit shall have low energy, high efficiency EC/DC fan/motor assemblies with sealed for life bearings. The impellers shall be high efficiency forward curved centrifugal type. The unit shall have a heat exchanger cell with a thermal efficiency of up to 91% when tested to EN 308. This shall be protected by G3 grade synthetic filters on supply and extract. Complete with a condensate drip tray and drain connection.

The unit shall be constructed with a removable Core allowing full maintenance access. The removable Core shall provide access to the following:

✓ Supply and extract filter

✓ Heat exchanger

✓ Access to the electrical connections

Access shall be provided for wiring termination and setup/ commissioning.

Standard controls

All Kinetic E units shall incorporate the following functions integrally mounted, pre-wired and factory fitted by the manufacturer:

✓ Integral infinitely variable fan speed control on supply and extract

✓ Integral min/max ventilation control/set point

✓ Integral on/off or trickle boost function from remote switch, e.g. PIR occupancy detector

✓ Switched Live input with adjustable 'Delay-On' feature

✓ Tool free filter access

✓ Frost protection down to -20°C degrees

✓ LED 'filter check' indicator

Airflow Direction & Condensate Connection (RH Supplied)

LH

RH (supplied)

Electrical Connection

The unit can be switched to boost by applying 230 V to the LS1 or LS2 inputs. Alternatively, the boost button on the control unit may be used.

Mains Cable Connections

Terminal No.	Name	Description
L	Mains Live	220-240 V AC, 50 Hz input
N	Mains Neutral	220-240 V AC, 50 Hz input
EARTH	Mains Earth	Earthing connector
LS1	Switched Live 1	220-240 V AC, 50 Hz input
LS2	Switched Live 2	220-240 V AC, 50 Hz input

Trickle to Boost by Two Light Switches using Relay
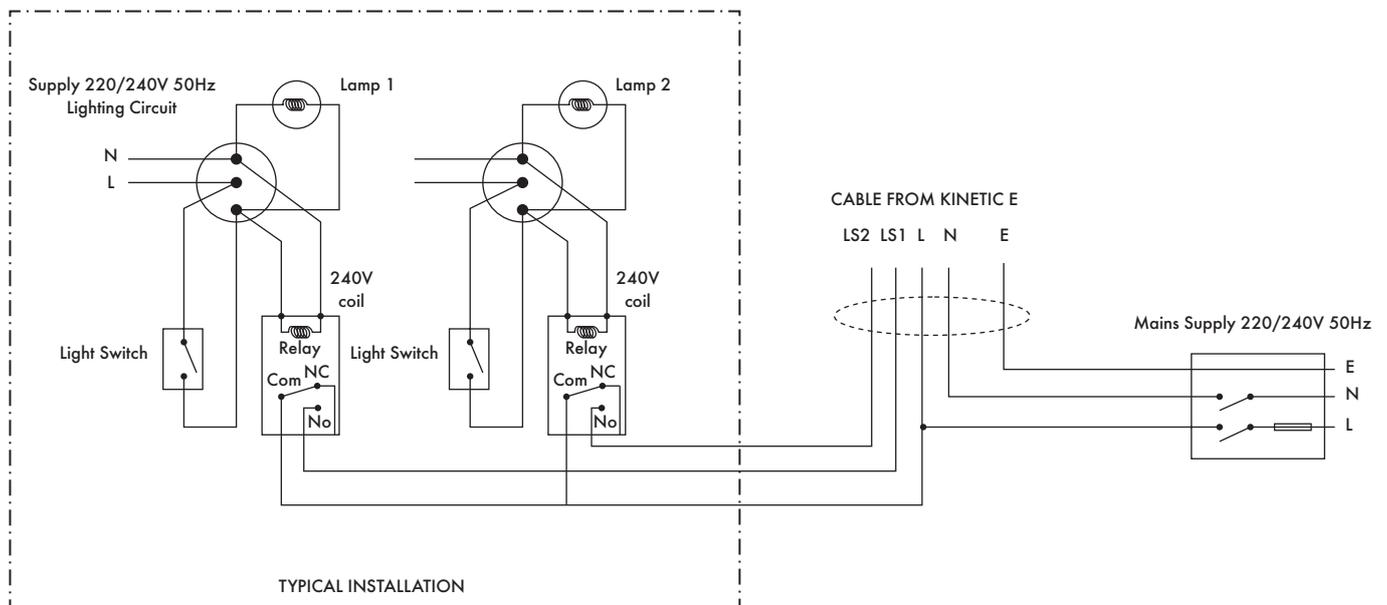
Lo-Carbon
Kinetic® Plus E
MVHR Unit

Features & Benefits

- Lightweight for easy installation
- Easy access filters
- External condensate connection
- Compatible with a range of controls: PIR, Humidistat
- Horizontal spigot option
- Up to 94% heat recovery
- Quiet operation
- Manufactured in the UK
- Switched live inputs (Light switch control)

A wholehouse heat recovery system with 94% energy efficiency. An easily accessible heat recovery cube protected by two removable EU3 filters. Two Lo-Carbon Energy Saving EC/DC fans ensure long life (typically over double the life of AC motors) and lowest possible energy use. Fully insulated construction with built in condensation drain.

Lo-Carbon Kinetic Plus E meets the latest requirements of the Building Regulations Approved Document F for wholehouse system ventilation.

The Lo-Carbon Kinetic Plus E model has two adjustable speeds, normal and boost. On the front of the unit is the controller that can be used to preset the speeds to any required performance, up to 111l/s (400m³/hr) 150Pa. Offering 'Close Control' to prevent over ventilating. Acoustically lined - low noise levels from only 20dB(A) @ 3m.

Left or right hand installation

Units are supplied as RH version with duct spigots to outside on the right hand side. These can be reversed onsite by simply removing the control panel, rotating the unit 180 degrees and reattaching the control panel.

Horizontal and vertical spigots

The combination of spigot options allows installation in confined locations. If vertical and horizontal connection is required on the same outlet/inlet, additional spigots can be supplied.

Filter Check

An LED on the control panel illuminates at 6 month intervals to remind users to check and clean the filters.

Frost Protection

The Kinetic E range benefits from an automatic frost protection system, effective down to -20°C, which manages the airflows to prevent the heat recovery cell freezing in very cold weather, while at the same time maintaining ventilation.

Control options

There are two LS (Switched Live) inputs allowing the unit to be connected to a number of sensors and controllers such as Ventwise, Timespan, Ambient Response Humidistat. One of the LS connections also benefits from a 'Delay-On' feature which prevents the unit boosting unnecessarily.

Model

Model	Stock Ref
Kinetic Plus E	449059

Accessories

Model	Stock Ref
Kinetic spare Filters 2 pack	443351
Optional F5 Pollen filter	444201
Isolator relay controller	442030

SAP Appendix Q Test Results

Exhaust Terminal Configuration	Thermal Efficiency %	SFP (W/l/s)
K + 1	94	0.41
K + 2	94	0.40
K + 3	94	0.43
K + 4	94	0.45
K + 5	93	0.52
K + 6	93	0.61
K + 7	93	0.73

Dimensions (mm)

A	B	C	D	EØ	F	G	H
785	635	722	550	150	520	275	135

Wieght: 24kg

BACK   FRONT

Performance

Fan speeds are fully adjustable within the performance range

Sound Data

| Flow l/s | Unit setting | Test mode | Octave band, Hz, dB SWL | | | | | | | | SPL dB(A) |
			63	125	250	500	1k	2k	4k	8k	at 3m
50	20%	Supply	46.5	54.3	46.4	44.8	36.2	28.5	24.5	31.2	28.5
		Extract	46	52.2	42.3	38.7	27.6	24.2	24	31.7	25
		Breakout	48.5	42.6	43.3	38.9	35.8	29.3	23.8	30.7	22.8
78	40%	Supply	50.3	59.1	54.5	56.5	47	39.9	26.3	31.7	38
		Extract	46.8	51.6	47.8	44.4	32.7	27.4	24.4	31.7	28
		Breakout	48.4	51.2	53.4	46	41	34.6	25	30.3	28.5
104	60%	Supply	52.4	57.2	60.4	60.9	55.8	50.3	33.1	33.9	43.6
		Extract	50	49.8	56.8	52.4	40.2	35.9	33.4	39.8	35.2
		Breakout	55	49.6	59.7	54.5	46.9	39.9	33.6	39.2	34.9
127	80%	Supply	54.9	60.7	67.4	66.6	61.8	56	39.6	37.7	49.5
		Extract	50.4	52	61.2	56.6	45.1	39.6	34.2	40.2	39.1
		Breakout	53.5	53.4	60.8	59.1	53	45.3	36	40.1	38.7
137	100%	Supply	54.7	61.7	70.5	69.9	62.7	57.5	42.1	38.3	52
		Extract	54.4	55.1	65.8	57.5	46.9	40.6	33.7	40	41.8
		Breakout	56.6	54.6	60.5	60.7	54.7	45.9	36.5	39.6	40

Tested according to BS848. Breakout quoted spherical. Supply and Extract quoted hemispherical.

Lo-Carbon Kinetic Plus E

Consultants Specification

Operation

The supply and extract ventilation unit shall be as Kinetic Plus E as manufactured by Vent-Axia and shall be sized as indicated on the drawings and shall be in accordance with the particular specification.

Supply air to the room shall be pre-heated by the extract air via the integrated composite plastic counterflow heat recovery cell. The Kinetic Plus E shall automatically vary the ventilation rate via EC/DC motors, as it receives signals from one of the optional interconnected sensors. When a signal is received, the fans shall vary their speed on a trickle and boost principle. The unit shall have the facility to commission the supply and extract fans individually via in-built minimum and maximum speed adjustment. The fans themselves shall have independent, infinitely variable speed control.

Unit specification

The unit shall be manufactured with an ABS outer case construction, and incorporate a reversible core to allow for left or right hand mounting. The unit shall have a high efficiency composite plastic counterflow heat exchanger, supply and extract filters, integral minimum and maximum infinitely variable speed controls with facia mounted failure indication.

The unit shall have low energy, high efficiency EC/DC fan/motor assemblies with sealed for life bearings. The impellers shall be high efficiency backward curved centrifugal type. The unit shall have a heat exchanger cell with a thermal efficiency of up to 94% when tested to EN 308. This shall be protected by G3 grade synthetic filters on supply and extract. Complete with a condensate drip tray and drain connection.

The unit shall be constructed with a removable Core allowing full maintenance access. The removable Core shall provide access to the following:

✓ Supply and extract filter
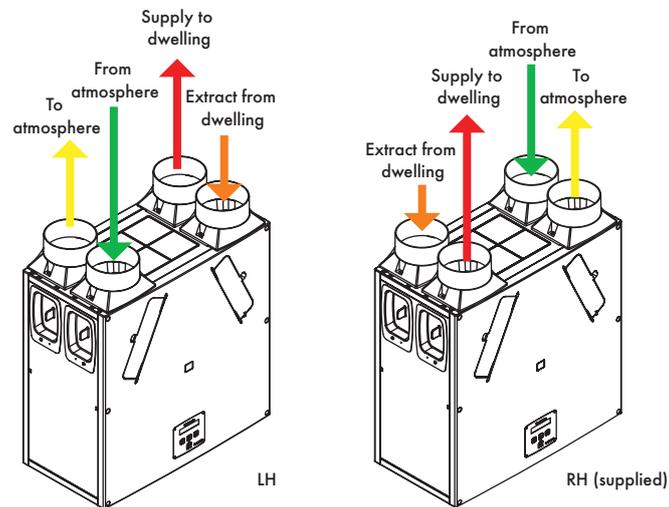✓ Heat exchanger
✓ Access to the electrical connections

Access shall be provided for wiring termination and setup/ commissioning.

Standard controls

All Kinetic Plus E units shall incorporate the following functions integrally mounted, pre-wired and factory fitted by the manufacturer:

✓ Integral infinitely variable fan speed control on supply and extract
✓ Integral min/max ventilation control/set point
✓ Integral on/off or trickle boost function from remote switch, e.g. PIR occupancy detector
✓ Switched Live input with adjustable 'delay-on' feature
✓ Tool free filter access
✓ Frost protection down to -20°C degrees
✓ LED 'filter check' indicator

### Airflow Direction & Condensate Connection (RH Supplied)

Electrical Connection

The unit can be switched to boost by applying 230 V to the LS1 or LS2 inputs. Alternatively, the boost button on the control unit may be used.

Mains Cable Connections

Terminal No.	Name	Description
L	Mains Live	220-240 V AC, 50 Hz input
N	Mains Neutral	220-240 V AC, 50 Hz input
EARTH	Mains Earth	Earthing connector
LS1	Switched Live 1	220-240 V AC, 50 Hz input
LS2	Switched Live 2	220-240 V AC, 50 Hz input

Lo-Carbon
Sentinel Kinetic® Horizontal
MVHR Unit

Features & Benefits

- Manufactured in the UK
- Building Regulations ADF compliant
- Recognised in SAP Appendix Q
- Energy Savings Trust best practice compliant
- Up to 81% heat recovery whilst controlling condensation
- Programmable Summer bypass
- Digital controller for simple and accurate commissioning
- External condensate connection
- Plug and play controls; Humidistat, Ventwise, Wireless remote
- LS inputs/(Light Switch)
- Volt-free inputs
- Self diagnosis for simplified fault finding
- Adjustable delay on/delay off timer

The Sentinel Kinetic Horizontal Range

A wholehouse heat recovery system with up to 81% heat exchange efficiency. An easily accessible heat recovery cube protected by two removable EU3 filters. Two Lo-Carbon Energy Saving EC/DC fans ensure long life (typically over double the life of AC motors) and lowest possible energy use. Fully insulated construction with built in condensation drain. Specifically designed for new build constructions with a high level of insulation.

Lo-Carbon Sentinel Kinetic meets the latest requirements of the Building Regulations ADF for wholehouse system ventilation: System 4. Continuous mechanical supply and extract with heat recovery. The Lo-Carbon Sentinel Kinetic models have three fully adjustable speeds and a purge setting (maximum flow). Supplied with the unit is a digital controller that can be used to pre-set the speeds to any required air-flow within the performance range.

Integral Humidity Sensor

The integral humidity sensor ('H' models) increases speed in proportion to relative humidity levels, saving energy and reducing noise. The sensor also reacts to small but rapid increases in humidity, even if the normal trigger threshold is not reached. This unique feature ensures adequate ventilation, even for the smallest wet room. The night time relative humidity setback feature suppresses nuisance tripping as humidity gradually increases with falling temperature. Acoustically lined - low noise levels from only 20dB(A) @ 3m.

Models

Model	Stock Ref
Kinetic 200Z	448733
Kinetic 200ZH	449540
(humidity sensor)	
Kinetic 300Z	447801
Kinetic 300ZH	449536
(humidity sensor)	

Optional Controls

Model	Stock Ref
Wireless enable kit	441865
(includes one switch)	
Wireless boost switch	437827
(max 3 switches)	
Ventwise Controller	441780

(also requires sensors, see Accessories & Controllers section)

Multiple control options:

Five Volt-free pairs of switch terminals for sensor inputs allow boosting from a full range of Vent-Axia controllers – humidistats, PIR, timers.

Two terminals with 0-24V outputs allow 0V to 10V proportional control by sophisticated controllers such as CO_2 sensors and proportional humidistats.

The optional Ventwise controller senses temperature rise in a bath/shower hot water supply and/or current in a cooker/hob electrical circuit to activate boost, ensuring additional ventilation when needed. Switch-live for boosting via light switches (220-240V AC) or manual Normal/Boost switches. This connection has the advantage of Delay-On and Delay-Off facility. Delay-On enables you to prevent the Boost airflow between 0 and 10 minutes after a light switch has been activated. Delay-Off allows the Boost airflow to continue after a light switch is turned off to ensure effective clearance of humidity. This timer is adjustable between 0 and 25 minutes.

Summer Bypass

An internal damper is activated when the outside temperature is less than the room temperature. The damper opens allowing cooler fresh air to bypass the Heat Recovery Cell and reduce the internal temperature towards the pre-set 'Comfort Temperature'. When the inside air temperature reaches the pre set 'Comfort Temperature' the bypass damper closes.

Frost Protection

In cold climates there is a possibility of frost building up on the intake side of the heat exchanger. In order to prevent damage, the Kinetic reduces supply flow while maintaining extract flow at temperatures down to -20°C.

Specific Fan Power

200 Hz

	Thermal Efficiency %	SFP (W/l/s)
K+1	80	0.69
K+2	81	0.70
K+3	80	0.80
K+4	80	0.97
K+5	79	1.14

300 Hz

	Thermal Efficiency %	SFP (W/l/s)
K+1	77	0.59
K+2	78	0.51
K+3	78	0.57
K+4	78	0.66
K+5	78	0.76
K+6	78	0.88
K+7	77	1.05

Dimensions (mm)

SIDE

FRONT

BACK
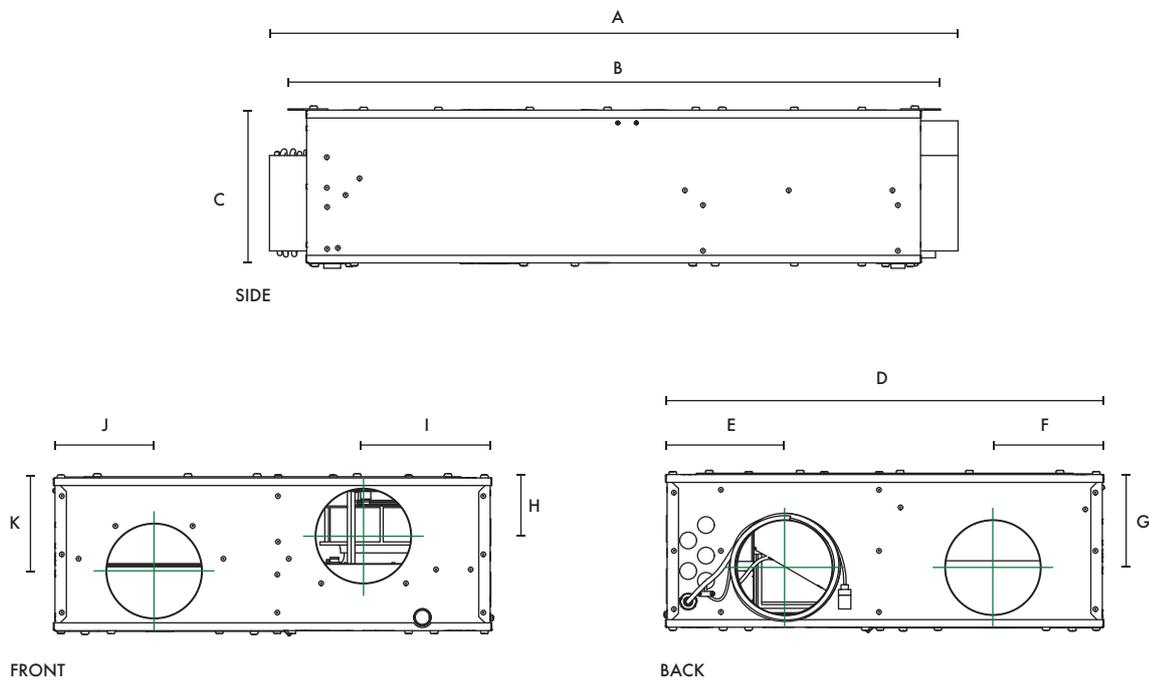
Model	A	B	C	D	E	F	G	H	I	J	K	Dia Ø
200Z	895	849	200	570	155	144	122	76	167	131	122	125
300Z	985	940	301	720	184	179	187	102	279	174	187	150
Weight: 200Z - 26kg, 300Z - 38kg												

Lo-Carbon Sentinel® Kinetic Horizontal

Performance - 200Z Model

Fan speeds are fully adjustable within the performance range
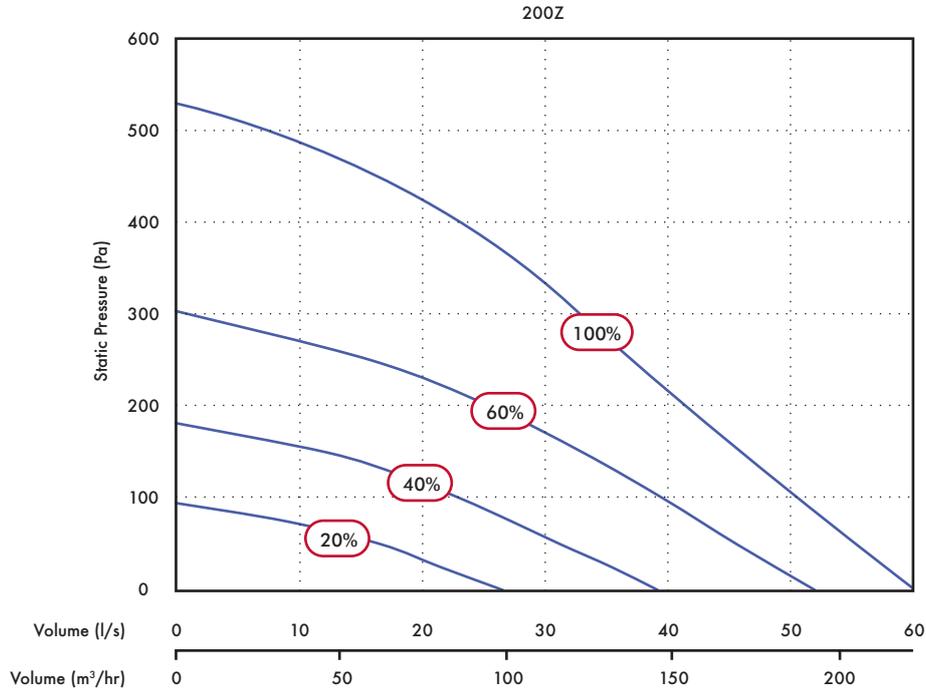
200Z

Sound Data - 200Z Model

Flow l/s	Flow %	Test mode	63	125	250	500	1k	2k	4k	8k	dB(A) at 3m
26	20	Supply	50.3	54	50.1	45.5	37	36	27.5	31.1	30.0
		Extract	47.2	47.7	46.6	41.8	30.7	27.9	24.6	30.5	26.3
		Breakout	48.8	55.8	51.2	43.8	32.4	29.0	25.4	30.8	26.8
44	40	Supply	52.7	61.7	60.1	61.8	47.4	45.1	38.1	40.1	42.7
		Extract	50.7	55.4	55.0	51.5	37.5	34.6	25.9	30.7	33.9
		Breakout	53.7	60.1	61.1	50.7	40.2	35.8	27.1	30.3	34.0
64	60	Supply	52.8	64.5	66.7	59.4	51.1	51.1	42.9	39.3	44.0
		Extract	50.6	59.0	62.1	57.1	43.7	40.0	29.0	31.6	39.7
		Breakout	55.1	64.4	66.8	57.5	47.0	41.4	32.0	32.0	39.7
78	100	Supply	58.3	69.2	68.6	64.6	56.9	56.1	47.9	45.6	48.1
		Extract	51.8	63.1	64.9	63.9	52.4	45.9	34.8	34.8	45.2
		Breakout	59.4	68.1	69.7	68.3	53.1	47.1	36.5	34.3	46.5

Tested according to BS848. Breakout quoted spherical. Supply and Extract quoted hemispherical.

Performance - 300Z Model

Fan speeds are fully adjustable within the performance range
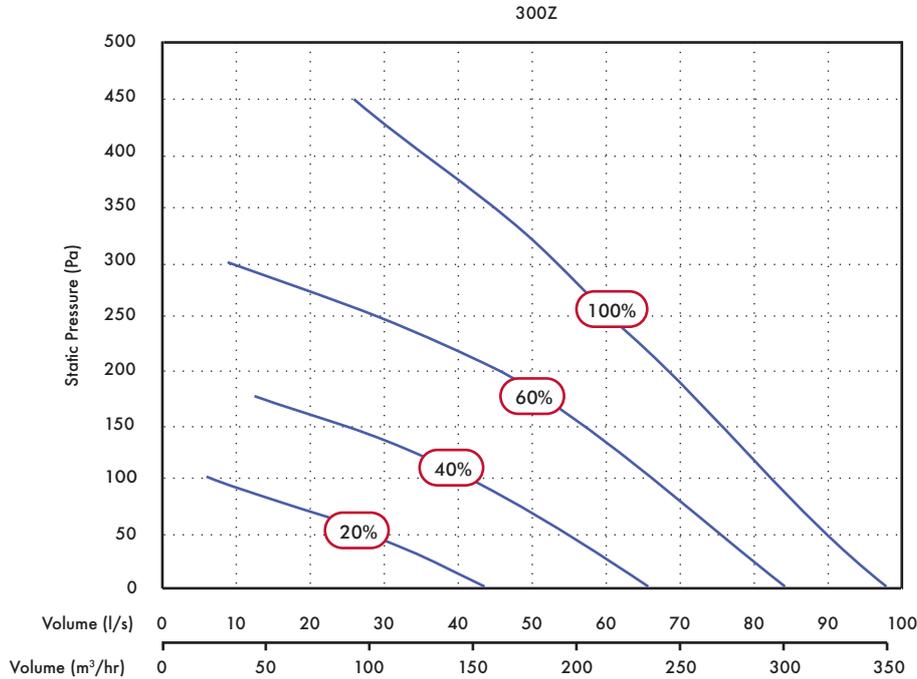
Sound Data - 300Z Model

Flow l/s	Flow %	Test mode	63	125	250	500	1k	2k	4k	8k	dB(A) at 3m
26	10	Supply	42.5	42.8	38.3	32.9	28	24.6	25.5	30.3	26.3
		Extract	46.9	45	40.3	34.4	27.4	23	24.3	30.1	22.5
		Breakout	48.7	52.1	47.7	40.5	32.9	27.3	25.1	31.6	24.4
44	20	Supply	45.6	47	41.7	35.7	31.7	26.7	24.8	30	29.9
		Extract	46.9	48.6	47	38.2	29.5	25.3	23.8	29.9	25.3
		Breakout	50.2	56.4	53.9	46.3	37.5	32.5	25.2	31.4	28.8
55	30	Supply	44.4	46	52.9	39.4	35.1	31.9	25.5	30.5	33.9
		Extract	47	48	55.5	42.5	32.2	29.9	25.7	30.6	30.6
		Breakout	52.2	59.6	62	51.4	41.9	37.4	28.1	31.4	34.7
66	40	Supply	43.1	44.4	54.3	43.5	39.2	35.7	27.7	29.9	35.0
		Extract	48.9	49	58.4	45.9	35.7	33.4	25.3	29.9	33.4
		Breakout	54.6	58.3	66.1	52.6	39.3	36.5	31.1	35.3	37.7
85	60	Supply	44.7	49.8	58	50.4	45	41.9	30.6	30.3	39.1
		Extract	51	53.6	61.2	50.1	41.6	40.1	30.7	31.1	36.7
		Breakout	57.5	62.6	68.7	57.5	45.9	41	36.3	34	40.7
96	80	Supply	46	52.2	57.1	56.5	47.2	44.2	32.3	30.5	40.5
		Extract	55.5	55	63.1	53.4	44.3	41	33.5	31.4	38.8
		Breakout	62.2	65.7	68.8	63	50.8	43.8	38.8	35.4	42.9
98	100	Supply	46.6	52.3	57	55.4	47.1	43.7	32.1	30.3	40.1
		Extract	53.7	55.2	63.3	53.3	44.1	41.2	33.2	31.5	38.9
		Breakout	62.2	73.8	77.4	74.1	67.4	61	53.6	45.4	53.9

Tested according to BS848. Breakout quoted spherical. Supply and Extract quoted hemispherical.

Lo-Carbon Sentinel® Kinetic Horizontal

Consultants Specification

Operation

The supply and extract ventilation unit shall be as Sentinel Kinetic Z as manufactured by Vent-Axia and shall be sized as indicated on the drawings and shall be in accordance with the particular specification; 200Z – 200mm deep, 300Z – 300mm deep.

Supply air to the room shall be pre-heated by the extract air via the integrated aluminium counterflow heat recovery cell. The Sentinel Kinetic Z shall automatically vary the ventilation rate via EC/DC motors, as it receives signals from one of the optional interconnected sensors. When a signal is received, the fans shall either vary their speed proportionally or on a trickle and boost principle.

The unit shall have the facility to commission the supply and extract fans individually via the wired remote control unit. The fans themselves shall have independent, infinitely variable speed control.

Unit specification

The unit shall be manufactured with a galvanized steel outer case construction and shall be suitable for horizontal ceiling void/slab mounting.

The unit shall have a high efficiency aluminium counterflow heat exchanger, supply and extract filters, automatic summer bypass, integral minimum and maximum infinitely variable speed controls with failure indication via the wired remote controller.

The unit shall have low energy, high efficiency EC/DC fan/motor assemblies with sealed for life bearings. The impellers shall be high efficiency backward curved centrifugal type.

The unit shall have a heat exchanger cell with a thermal efficiency of up to 81% when tested to EN 308. This shall be protected by G3 grade synthetic filters on supply and extract. Complete with a condensate drip tray and drain connection.

The unit shall be constructed with a removable access panel allowing full maintenance access from below. The removable panel shall provide access to the following:
✓ Supply or extract fan
✓ Supply and extract filter
✓ Heat exchanger
✓ Access to the electrical connections

Access shall be provided for wiring termination and setup/ commissioning.

Standard controls

All Sentinel Kinetic Z units shall incorporate the following functions integrally mounted, pre-wired and factory fitted by the manufacturer:
✓ Infinitely variable fan speed control on supply and extract
✓ Min/max ventilation control/set point
✓ Heating interlocks
✓ 0-10V proportional speed adjustment
✓ Volt free contacts
✓ 24V sensor supply
✓ On/off or trickle boost function from remote switch, e.g. PIR occupancy detector
✓ The unit shall be controlled by the 'Sentinel' control devices (enablers and sensors) as detailed in the schedule or on the drawings
✓ Fully automatic summer bypass
✓ Switched Live input with adjustable 'Delay-On' feature
✓ Fan failure or component failure indicated via individual fault code display
✓ Running time counter
✓ Control panel PIN number lock
✓ Automatic frost protection effective to -20°C
✓ The unit shall incorporate ('H' models) an integral humidity sensor with the following features:
  • Ambient Response: Raises the humidity trigger point as dwelling temperature reduces
  • Rapid Response: Monitors the rate of change in humidity and triggers increased airflow even if the humidity trigger threshold is not reached
  • Proportional Response: Incrementally increases the fan speed to reduce noise and reduce energy consumption

The unit shall be controlled by the 'Sentinel' control devices (enablers and sensors) as detailed in the schedule or on the drawings.

Airflow Direction & Condensate Connection

View from beneath

Note: Postion of power supply in relation to ducting

Exhaust to Atmosphere (Brown)

From Atmosphere (Green)

Supply to Dwelling (Red)

Extract from Dwelling (Yellow)

Electrical Connection

Please note: Electrical connection should be carried out by an appropriately qualified person and in accordance with current wiring regulations.

Wired Remote Controller

NET **J4**	4 3 2 1	+ - S/W1	+ - S/W2	+ - S/W3	SW4	+ - S/W5	+ S - P1 0-10V	+ S - P2 0-10V	+ - LED		L N ⏚ LS

Vent-Wise connector — Switches 1-5 — Proportional Inputs 1&2 — LED

2m mains cable fitted to unit

Switched fused spur

Brown — Black

3A

Blue — Green/Yellow

L N LS E
220-240V 50Hz

Trickle to Boost by two lighting circuits or Trickle/Boost switch

S/W2
+ −

MAINS IN
L N ⏚ LS
L N ⏚ LS

TRICKLE/BOOST SWITCH
(45 52 13)

C
L1   L2

Supply 220-240V 50Hz
Lighting circuit 1
N
L
LAMP 1

ISOLATOR RELAY CONTROLLER FOR LIGHTING CIRCUIT 1
(442030)

Light switch

5 4 3 2 1

Supply 220-240V 50Hz
Lighting circuit 2
N
L
LAMP 2

ISOLATOR RELAY CONTROLLER FOR LIGHTING CIRCUIT 2
(442030)

Light switch

5 4 3 2 1

3 POLE LOCAL ISOLATOR

MAINS SUPPLY
220/240V 50Hz

E ⏚
N
L

Integra®
Ducted MVHR Unit

Features & Benefits

- Powered heat recovery unit for smaller residential or commercial applications up to 180m²
- Up to 70% heat recovery
- Low power consumption
- Effective condensation control

The Integra heat recovery unit has been specially designed to provide ventilation for flats or rooms in residential, commercial, educational or leisure applications. Balanced ventilation is achieved by using nominal 100mm diameter rigid ducting.

Using a high performance, polymeric heat exchange cube, together with two powerful fans, the Vent-Axia Integra achieves efficiencies of up to 70%.

The compact cube interleaves outgoing moist air with incoming fresh air, allowing the heat from one to warm the other without the two air streams mixing. Energy is saved on room heating, with no power being used by the cube itself.

Performance of Integra: Up to 49l/s FID. Ideal for installation in the ceilings voids or cupboards.

The 150VA Transformer enables the selection of trickle settings to match dwelling volume.

Models

Integra
Stock Ref
456864

Controller 150VA
Stock Ref
563538

Dimensions (mm)

Weight: 6.5kg

A	B	C	D	E	F	G	H	J
400	98	50	400	65	85	230	85	210

Horizontal mounting

Extract from dwelling

Supply to dwelling

From atmosphere

To atmosphere
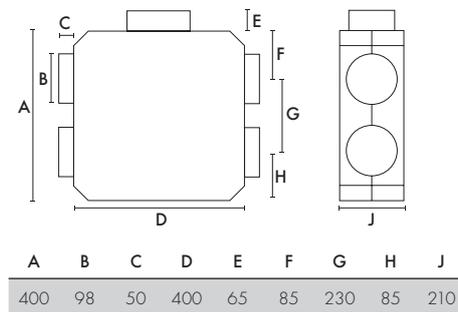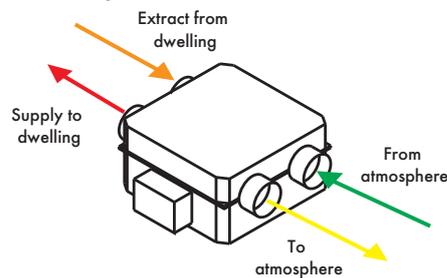
Performance

Motor Speed/ Curve	Volume (l/s) (FID)	Voltage (V)	Wattage (W)
1	15	80	32
2	21	100	47
3	27	120	64
4	32	140	81
5	37	160	99
6	49	240	182

Integra to be used with a 150VA Transformer for maximum controllability.

Integra® Plus
Ducted MVHR Unit

Features & Benefits

- Powered heat recovery unit for larger residential or commercial applications
- Up to 70% heat recovery
- Low power consumption
- Effective condensation control
- 3 speed control

Easy Installation

The Vent-Axia Integra Plus is designed for mounting in ceiling voids, lofts and above a suspended ceiling mounting. Four 150mm spigots are provided for simple connection to insulated flexible or rigid ventilation ducting. The unit comes complete with a 22mm condensate outlet.

Model

Integra Plus
Stock Ref
437666

Dimensions (mm)

A	B	C	D	E	F	G	H	J	K
603	150	100	580	125	350	125	355	125	305

Weight : 15.5kg fan box, 5kg controller

Performance

Controllers & Sensors
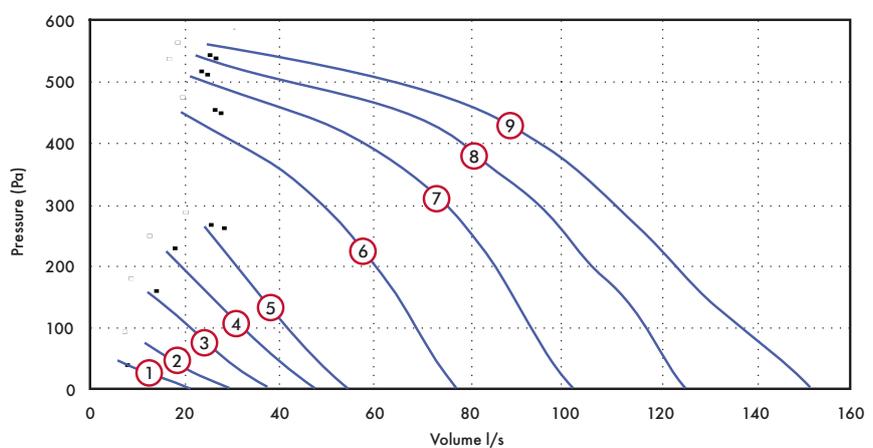
Motor Speed/ Curve	Volume (l/s) (FID)	Wattage (W)	Voltage (V)	dB(A) @ 3m
1	22	30	50	19.2
2	30	45	62	19.5
3	38	66	74	20.9
4	48	85	86	21.9
5	55	115	98	24.5
6	78	188	130	30.8
7	102	262	160	34.3
8	128	330	190	36.9
9	154	425	230	39.2

Units supplied complete with transformer

From atmosphere
To atmosphere
Extract from dwelling
Supply to dwelling

Trickle Boost Switch	Ambient Response Humidistat	Visionex PIR
455213	563550	459623

TIM2	7 Day TimeSwitch	3 Position Switch
370346	563515	5108454
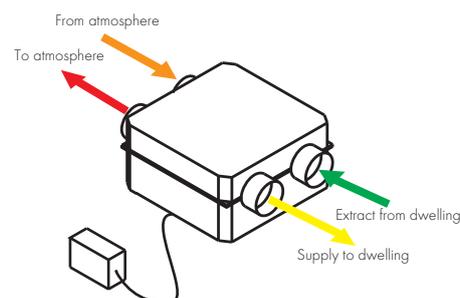
HR100R/RS
Ducted MVHR Unit

Features & Benefits

- Controls condensation and odours - saves energy
- Eliminates mould growth
- Up to 70% Heat Recovery
- Extremely quiet operation
- Two speed settings

The HR100R and HR100RS are ideal for single bedrooms/bathroom applications situated in hotel rooms, nursing homes and residential care homes.

The HR100R features top access and is ideal for loft installations.

The HR100RS features bottom access and is ideal for installation on the ceiling slab above a suspended ceiling.

The HR100R/RS is a self-contained heat recovery unit for mounting in lofts and suspended ceilings. The unit is supplied without controls to allow for the unit to be tailored to suit the individual requirements.

Compatible with standard 100mm ducting for connection to internal grilles and external cowl.

The unit comes fitted with a single 2-speed motor, and provides continuous low volume ventilation with a boost option. A variety of control devices are available for manual or automatic speed control.

An integral heat exchanger transfers heat from the outgoing stale air to the fresh air supply, raising the supply air temperature whilst at the same time reducing its relative humidity.

Up to 18l/s FID capacity. The unit provides superior control of condensation and odours, ideal for bathrooms or small internal rooms.

Models

HR100R
Top access - ideal in loft installations.
Stock Ref
370377

HR100RS
Bottom access - ideal for suspended ceilings.
Stock Ref
435004

Performance
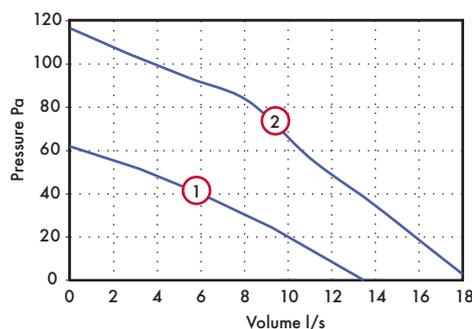
| 1 | Trickle | 2 | Boost |

HR100RS version

Performance

Dimensions (mm)

A	B	C	D	E	F	G	H
305	240	50	60	120	70	160	98

Normal 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
455213
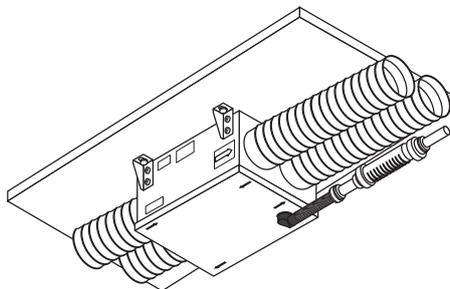
	Weight	Extract Perf. l/s		Watts		dB(A) @ 3m*	
Model	Kg	Boost	Trickle	Boost	Trickle	Boost	Trickle
HR100R	5.6	18.3	13.6	29	19	30	20
HR100RS	5.6	18.3	13.6	29	19	30	20
Mains electrical supply: 230V/50Hz							
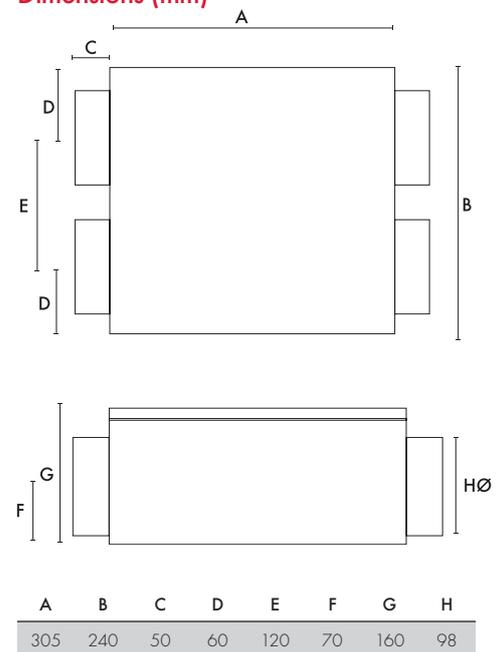
HR200V
Ducted MVHR Unit

Features & Benefits

- Powered heat recovery module for smaller commercial applications
- Up to 70% heat recovery
- With 150mm duct connection
- Extremely quiet on low speeds
- Low power consumption
- Washable heat exchanger
- Pre-wired to a flexible cable

A ducted heat recovery unit for rooms in residential or commercial applications. Self-contained and includes two mixed flow speed controllable fans. Using a high performance, polymeric heat exchange cube together with two power fans, the HR200V can boast a temperature efficiency of up to 70%. Low speed for trickle ventilation mode.

Specially designed to provide ventilation for small internal rooms in commercial, educational and leisure applications. Ventilation is achieved by using nominal 150mm diameter ducting. The unit includes two mixed flow speed controllable fans plus a high efficiency polymeric heat exchanger.

Models

HR200V
Stock Ref
14120010

Transformer 150VA
Stock Ref
563538

Performance

Static Pressure (Pa) vs Volume (l/s)
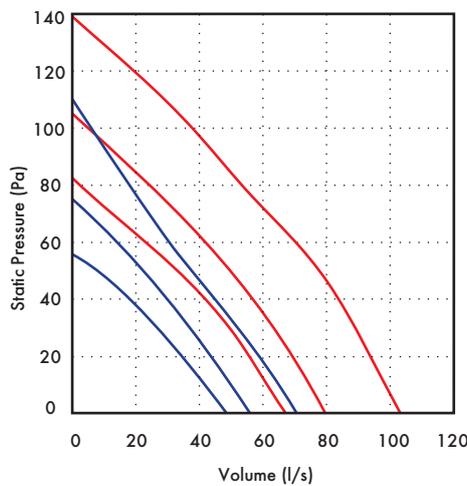
- 240V Supply
- 160V Supply
- 140V Supply
- 240V Extract
- 160V Extract
- 140V Extract

Motor Speed	1	2	3
Voltage	140	160	240
Watts	51.5	60	110
Volume l/s (FID) Supply	48.3	55.8	70.3
Extract	241	286	371

HR200V to be used with a 150VA Transformer for maximum controllability.

Dimensions (mm)
Weight : 15.5kg fan box, 5kg controller

373
30
435
30
275
Fan End
95
4 - 148Ø Spigots
183
95
95

Supply to dwelling
Extract from dwelling
To atmosphere
From atmosphere
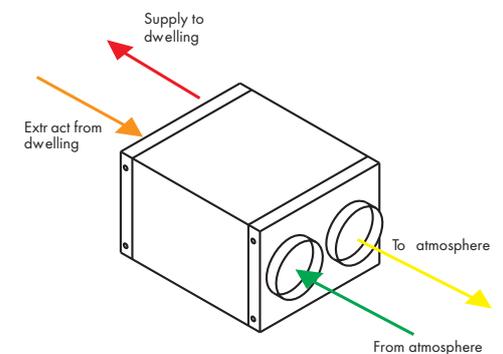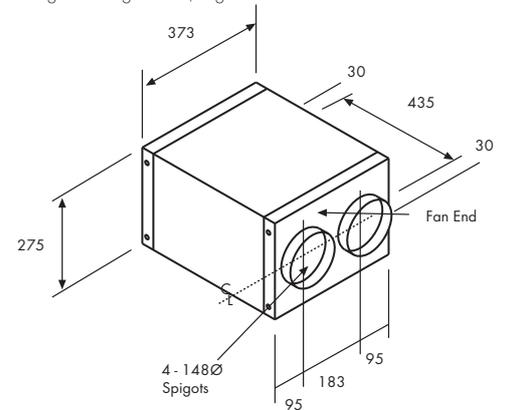
HR500
Single Room Heat Recovery Unit

Features & Benefits

- Efficient 550m³/h heat recovery ventilation unit or high performance 900m³/h extract fan
- Lightweight, compact and easy to install
- Integral shutters on X type model
- Easy to clean
- 70% heat recovery
- Controller with sensor mode, allows a range of sensors to be used in conjunction with the HR500 and HR500X units
- IPX5 rated

Heat Recovery Ventilation

HR500 heat recovery ventilation units for through wall installation, which exhaust stale air whilst introducing warmed fresh air from the outside.

Ideal for computer rooms, classrooms, offices and the health and leisure industries. The Vent-Axia HR500 unit is the perfect solution to commercial areas that require a high performance balanced intake/extract scheme. As a heat recovery ventilation unit it moves a useful 153l/s of air.

The compact heat recovery cube interleaves outgoing warm air with incoming fresh air and allows the heat from one to warm the other without the two streams mixing. Energy is saved on room heating with no power being used by the cube itself.

The HR500 and HR500X consist of a tough telescopic wall sleeve into which the main body of the unit is housed. Walls of up to 670mm thick can be easily accommodated. Behind the neat deflecting fascia grilles are the filters, the heat exchange cube and fan units. All wall sleeve components, the heat exchange cube and the fascia grilles are made of tough polymeric materials.

Electrical

Maximum ambient temperature +40°C. Supply Voltage 220-240V/1/50Hz.

Models

HR500 Commercial
Wall-mounted intake/extract ventilation unit with built-in heat recovery facility. For commercial and leisure areas. Lightweight, compact and easy to install.
Stock Ref
14101010

HR500X
As HR500 with shutters.
Stock Ref
14101070

HR500 Controller
Surface mounting. On/Off remote sensor mode. Heat exchange, single fan extract or twin fan extract modes. Infinitely variable speed. Minimum speed setting. Suitable for controlling up to 2x HR500.
Stock Ref
W14301010

Performance

Model	Airflow performance (l/s)		Watts	Sound
	Heat recovery mode	Extract mode (max)	(max)	dB(A) @ 3m (max)
HR500	153l/s	250l/s	200	53
HR500X	153l/s	250l/s	220	53

HR500 & HR500X

103
min 450
max 670
110

605

375

Inner louvre
Lintels
Fans (2)
380
3° angle for condensate drainage
Heat exchanger
Outer grille

Hole opening 610 x 380mm
Weight 19.5 kg
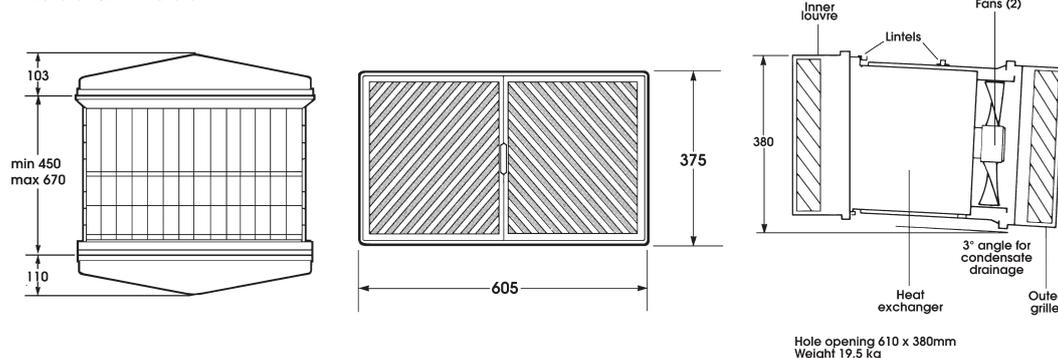
HR500D
Ducted MVHR Unit

Features & Benefits

- Self-contained unit with integral fans
- Up to 70% heat recovery
- Compatible with 315, 250 and 200mm Ø, ducting and accessories
- External wall mounting
- Speed Controller W14301010

The HR500D is a self-contained unit with integral extract and supply fans to provide balanced ventilation and heat recovery via supply diffusers and extraction grilles. The unit is fully speed controllable.

The compact heat recovery cube interleaves outgoing warm air with incoming fresh air and allows the heat from one to warm the other without the two streams mixing.

Performance

Heat Exchanger Efficiency

Model

Surface mounting. On/Off remote sensor mode. Heat exchange, single fan extract or twin fan extract modes. Infinitely variable speed. Minimum speed setting. Suitable for controlling up to 2x HR500.

HR500D
Stock Ref
370450

Speed Controller
Stock Ref
W14301010

Spigot Sets

200mm Spigot set
Stock Ref
+ 434806
+ 434805

250mm Spigot set
Stock Ref
+ 434806
+ 434805

315mm Spigot
Stock Ref
+ 434806

Energy is saved on room heating with no power being used by the cube itself.

Performance of HR500D: Supply and extract up to 174l/s FID capacity on heat recovery mode. Ideal for offices, computer rooms, pubs and clubs, etc.

Dimensions (mm)

Hole opening: 610 x 381mm

FROM ATMOSPHERE   TO ATMOSPHERE

Additional Spigots 434806 (Set of 2)

Additional Spigots 434805 (Set of 2)

EXTRACT FROM DWELLING

SUPPLY TO DWELLING

A	B	C	D	E	F	G
480-750	120	70	30	220	155	90

H	J	K	L	M	N
Ø200	Ø250	Ø300	Ø315	600	340

Airflow performance l/s	Watts	dB(A) @ 3m	
(max)	(max)	(max)	Weight kg
174 l/s	210	53	19
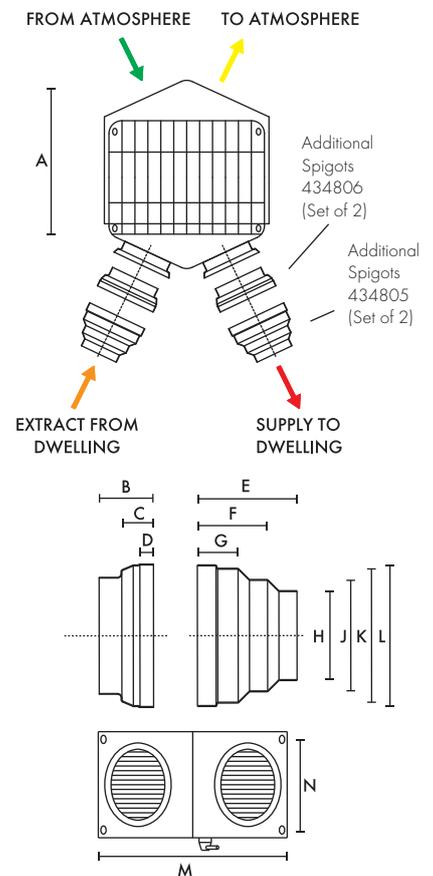
HR500EP/IP
Passive MVHR Unit

Features & Benefits
- Passive - no fans
- Lightweight - easy installation
- Compatible with 315, 250 and 200mm Ø ducting and accessories
- Saves Heat - 70% heat recovery
- Internal wall mounting
- HR500IP
- External wall mounting HR500EP

Performance
Pressure Drop over Heat Exchange Unit
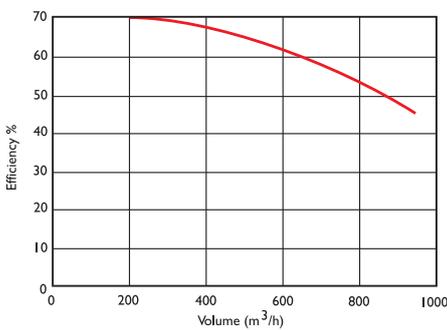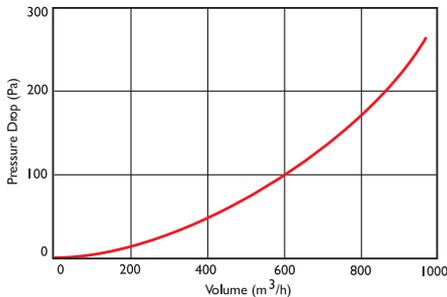
Thermal Efficiency Graph

The unit is a semi-remote heat exchange unit with 70% heat recovery, designed for mounting in internal walls (HR500IP) and external walls (HR500EP) for installations using ducted extraction and fresh air supply. The HR500 units provides air movement via two independent in-line duct fans to suit length and configuration of ducting systems. The unit is ideal for use with in-line centrifugal type fans and compatible accessories. Performance of HR500EP and HR500IP: Up to 244 l/s FID capacity (balanced airflow Ideal for computer rooms, classrooms, offices and the health & leisure industries.

EP Unit
Hole opening: 610 x 381mm

FROM ATMOSPHERE   TO ATMOSPHERE

A

EXTRACT FROM DWELLING   SUPPLY TO DWELLING

IP Unit

SUPPLY TO DWELLING   EXTRACT FROM DWELLING

Additional Spigots 434806 (Set of 2)

A

Additional Spigots 434805 (Set of 2)

TO ATMOSPHERE   FROM ATMOSPHERE
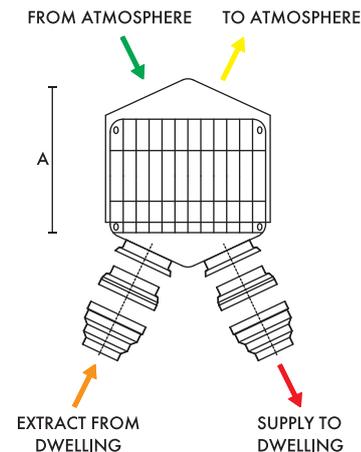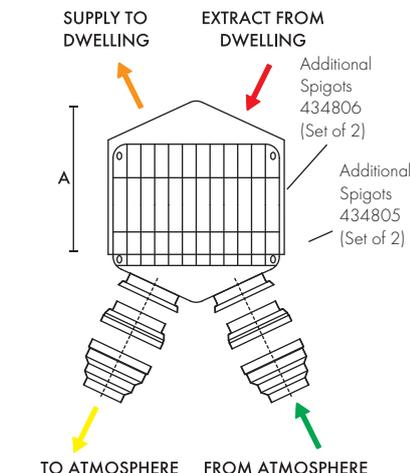
Model

Model	Stock Ref
HR500IP	370447
HR500EP	370451

Spigot Sets
200mm Spigot set
Stock Ref
+ 434806
+ 434805

250mm Spigot set
Stock Ref
+ 434806
+ 434805

315mm Spigot
Stock Ref
+ 434806

Dimensions (mm)
EP & IP Unit
Hole opening: 610 x 381mm
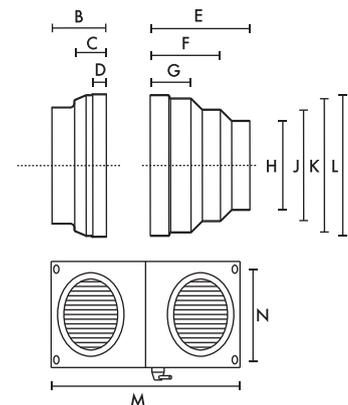
A	B	C	D	E	F	G
480-750	120	70	30	220	155	90

H	J	K	L	M	N
Ø200	Ø250	Ø300	Ø315	600	340

Weight 9kg

HR500DP
Passive MVHR Unit
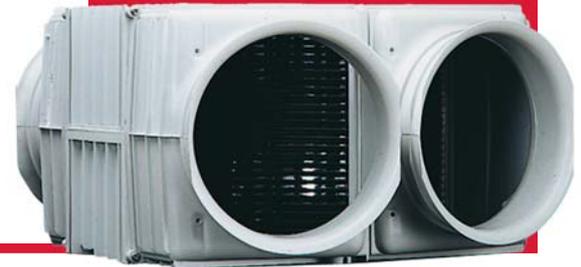
Features & Benefits

- Passive - no fans
- Lightweight, compact and easy to install
- Up to 70% heat recovery
- Easy to clean

A 'stand alone' heat exchange module which will transfer up to 70% of the outgoing heat to incoming air. Polymeric construction with spigots to suit 200, 250 and 315mm Ø flexible ductwork.

Module accessible for routine cleaning. Condensate outlet provided. Ideal for use in air conditioned environments.

Performance

Heat Exchange Resistance Graph
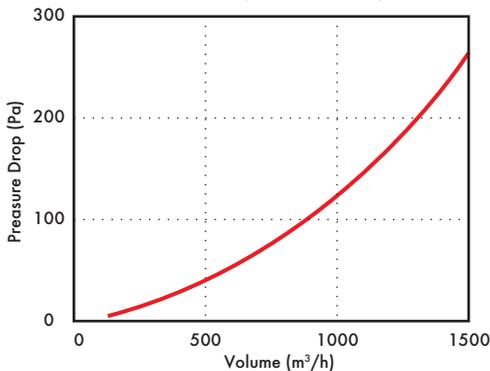
Thermal Efficiency Graph
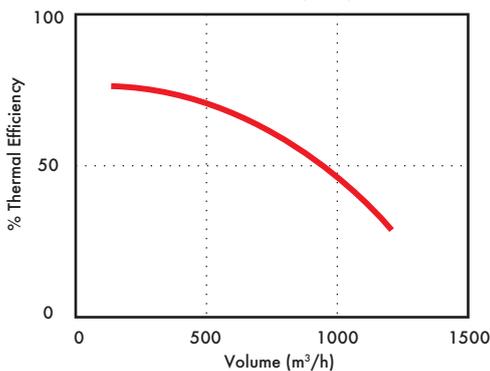
The heat exchanger works at the same high efficiency, automatically keeping a cool room cool. Performance of the Heat Exchange Unit: At 180l/s achieves 70% temperature efficiency (balanced airflow). Ideal for schools, pubs, offices and leisure industries.

Model

HR500DP
Stock Ref
10538290

200mm Spigot sets
Stock Ref
+10577315
+10578315

250mm Spigot sets
Stock Ref
+10577315
+10578315

315mm Spigot sets
Stock Ref
+10577315

Dimensions (mm)

ADDITIONAL SPIGOTS
105 78 315
(SET OF 4)

ADDITIONAL SPIGOTS
105 77 315
(SET OF 4)

HEAT EXCHANGE UNIT
105 38 290

PLAN

105 77 315
(SET OF 4)

105 78 315
(SET OF 4)
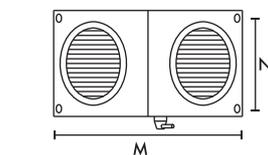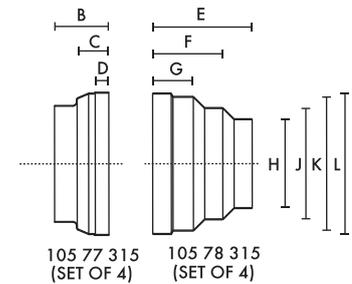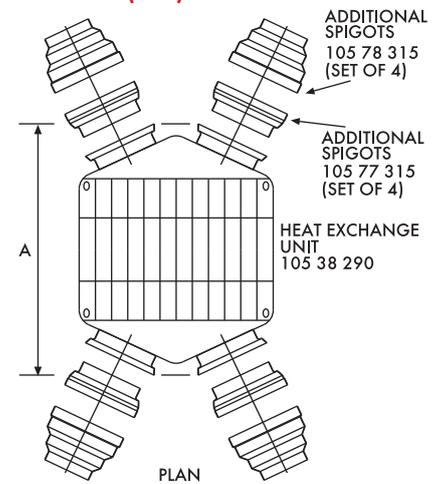
A	B	C	D	E	F	G
700	120	70	30	220	155	90
H	J	K	L	M	N	
Ø200	Ø250	Ø300	Ø315	600	340	

Weight 9kg

Ducting
& Fittings

Since 1936, Vent-Axia have been known for providing a complete ventilation solution. To ensure all of our systems reach their maximum levels of efficiency, Vent-Axia now offer one of the widest ranges of ventilation ancillaries available today.

Regardless of the size or shape of your project, we will be able to advise you on all of the ducting and fittings required to optimise the performance of your ventilation system.

Vent-Axia
Ducting & fittings
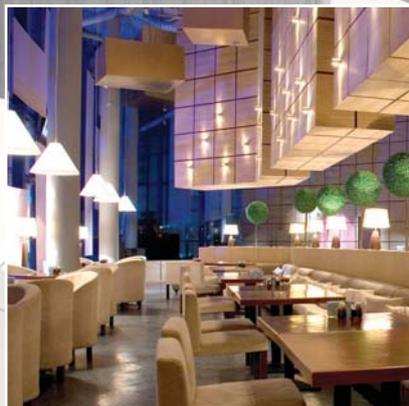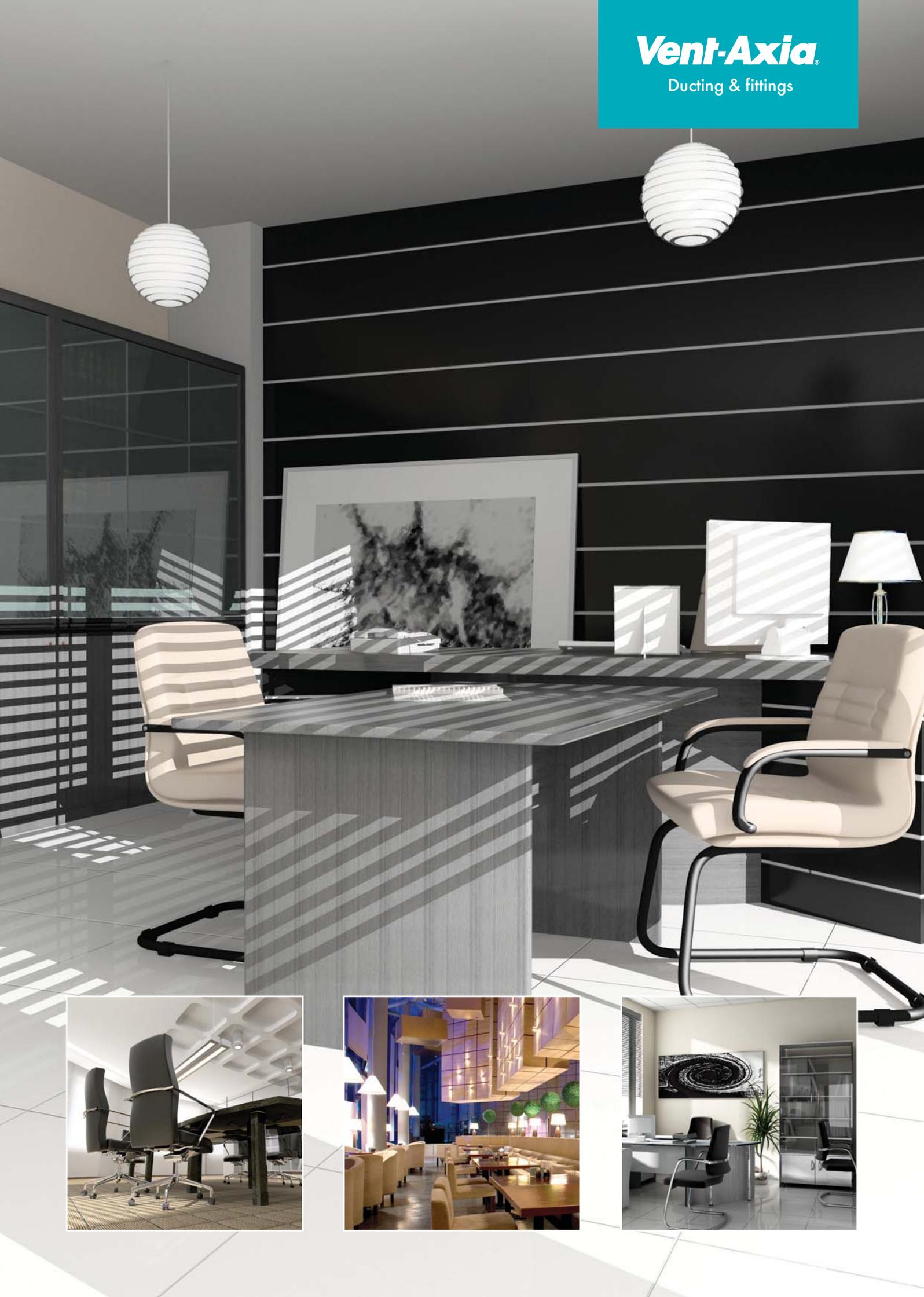
Rigid Duct Attenuator
Suitable for 204mm x 60mm duct

Vent-Axia
Ducting & fittings
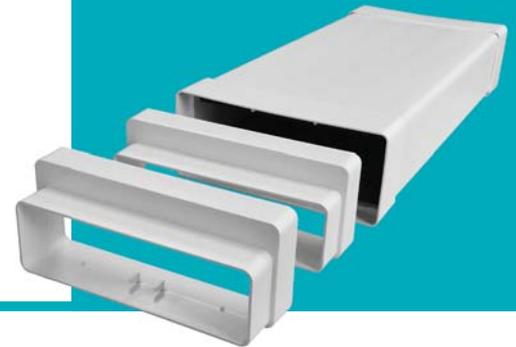
Features & Benefits

- Reduces noise levels within rigid ducting
- Tested up to 150l/s (540m³/hr)
- Reduces noise level by up to 55%
- Sturdy lightweight construction
- Easy installation
- Closed cell, Class O fire rated acoustic material
- Microban anti-microbial protection
- Corrosion proof
- Suitable for most installations
- Available in two lengths; 600mm and 1000mm
- Compatible with 204x60mm ducting

The Product

The Vent-Axia Rigid Duct Attenuator has been developed as a cost effective and compact way of reducing noise within a ventilation system. The light weight, low profile construction also provides corrosion resistance over metal silencers.

Technical Details

The acoustic lining of the attenuator contains Microban anti-microbial protection, offering enhanced resistance against mould growth and also dust, fibre and formaldehyde free.

The Vent-Axia Rigid Duct Attenuator is suitable for residential and commercial applications including schools and offices.

Noise Reduction

The Vent-Axia Rigid Duct Attenuator offers excellent sound reduction over a range of frequencies and is available in two lengths depending on the noise suppression requirements. For MVHR systems the Attenuator can be fitted on the supply side to habitable rooms, reducing airborne in-duct noise. For MVHR and extract-only systems, the Attenuator may be placed on the extract side to limit 'cross-talk' through ductwork between rooms.

Model

	Stock Ref
600mm	447335
1000mm	447336

Additional pressure drop compared to straight duct (Pa)

l/s	600mm Silencer (Pa)	1000mm Silencer (Pa)
13	0.2	
15	0.4	0.3
30	2.0	2.1
60	4.5	7.2
90	10.0	20.2
120	13.6	22.2
150	16.3	20.4

Dimensions (mm)
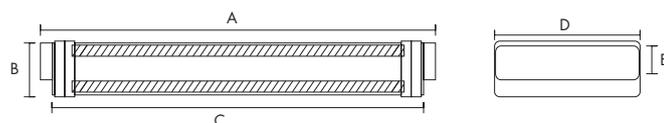
Stock Ref	A	B	C	D	E
447335	600	95	540	225	65
447336	1000	95	940	225	65

Sound Reduction

Stock Ref	63	125	250	500	1k	2k	4k	8k	dB(A) @3m
447335	0	0.2	0	2.6	6	5.3	11.4	13.3	5
447336	0	0	2.4	4.4	7	6.2	11.9	13.4	5.8

T: 0844 856 0591

Low Resistance Inlet/Outlet Air Brick

Features & Benefits

- Provides over 90% free area of duct
- Easier to install than a double air brick
- UV stabilised polymer
- Guide vanes for improved duct connection
- Optional first fix duct section

Available in five colours, this low resistance air brick has been designed to comply with the latest Building Regulations Approved Document F, which requires a ventilation outlet to achieve a minimum of 90% of the cross sectional area of the ductwork. Installing a single air brick is much simpler than a double air brick and offers more versatility for locations.

Suitable for 100mm and 125mm, dia', and 204 x 60 ducting.

Attaching duct to the air brick is simplified by the use of guide vanes which help locate the duct onto the spigot.

A 500mm section of 204 x 60 duct is available for first fix which ensures that connections are accessible after completion of building works.

Five colour options ensure that the low resistance air brick will be a match for almost any application.

Model

Model	Stock Ref
White	449223
Brown	449224
Cotswold Stone	449225
Grey	449226
Terracotta	449227
1st Fix duct section 500 x 204 x 60	403255

Available Colours

White RAL 9003	Brown RAL 8017	Cotswold Stone RAL 1001	Grey RAL 7037	Terracotta RAL 8004

Performance Curve

Pressure Loss (Pa) vs Volume l/s
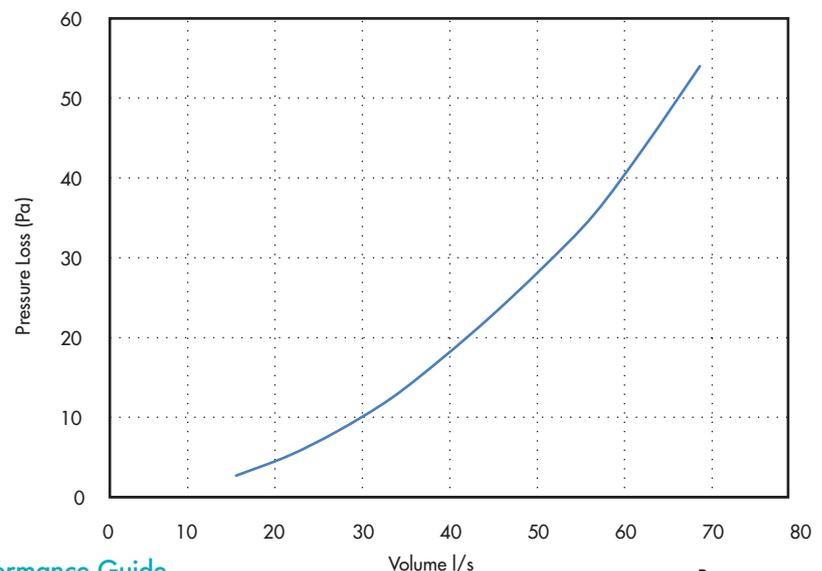
Performance Guide

Pressure (Pa)	Volume (m³/h)	Volume (l/s)	Pressure Differential (Pa)
19	53.7	14.9	2.7
38	75.9	21.1	5.2
62	97.0	26.9	8.3
94	119.4	33.2	12.4
131	141.0	39.2	17.4
173	162.0	45.0	22.7
71	183.7	51.0	28.7
89	205.6	57.1	35.4
109	227.6	63.2	44.1
132	250.4	69.6	54

Dimensions (mm)
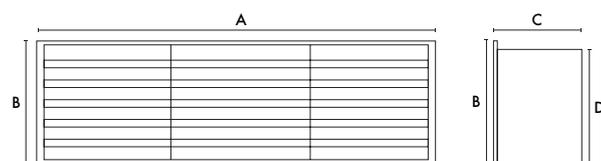
A	B	C	D
212	67	58	65

Ducting & Accessories

Flat Channel 1.5 metre length

Stock Ref	Duct Size	A	B	C	8 l/s	13 l/s	21 l/s	29 l/s	37 l/s	45 l/s	53 l/s	61 l/s
		External Dimensions			Resistance (Pa) at flow rate							
436617	204 x 60	60	204	1500	<1	<1	1.3	2.2	3.3	4.5	5.9	7.8
436599	110 x 54	54	110	1500	1.2	2.4	5.3	9.1	13.9	19.8	25.9	32

Stock Ref	Duct Size	A	B	C	60 l/s	120 l/s	180 l/s
403025	220 x 90	90	220	1500	1.4	4.9	10.2

Flat Channel Connector. F to F
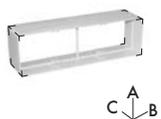
Stock Ref	Duct Size	A	B	C	8 l/s	13 l/s	21 l/s	29 l/s	37 l/s	45 l/s	53 l/s	61 l/s
		External Dimensions			Resistance (Pa) at flow rate							
436623	204 x 60	64	212	100	<1	<1	<1	<1	<1	<1	1.2	1.5
436605	110 x 54	54	114	100	<1	<1	1.1	1.4	2.2	3.4	4.8	6.4

Stock Ref	Duct Size	A	B	C	60 l/s	120 l/s	180 l/s
403026	220 x 90	95	224	52	<1	<1	<1

Channel Fixing Clip (Pack of 10)

Stock Ref	Duct Size	A	B	C	60 l/s	120 l/s	180 l/s
		External Dimensions			Resistance (Pa) at flow rate		
403030	220 x 90	97	44	19	N/A	N/A	N/A

Horizontal 90 Bend. F to F

Stock Ref	Duct Size	A	B	C	8 l/s	13 l/s	21 l/s	29 l/s	37 l/s	45 l/s	53 l/s	61 l/s
		External Dimensions			Resistance (Pa) at flow rate							
436620	204 x 60	65	260	260	0.7	1.7	4.1	8.4	13	18	25	34
436602	110 x 54	60	152	152	2.3	9.9	21	38	64	93	124	162

Stock Ref	Duct Size	A	B	C	60 l/s	120 l/s	180 l/s
403028	220 x 90	95	250	250	9	36	80

Horizontal 45 Bend. F to F

Stock Ref	Duct Size	A	B	C	8 l/s	13 l/s	21 l/s	29 l/s	37 l/s	45 l/s	53 l/s	61 l/s
		External Dimensions			Resistance (Pa) at flow rate							
249944A	204 x 60	65	240	260	0.2	0.7	1.2	2.1	3.8	6.1	9.2	13

Stock Ref	Duct Size	A	B	C	60 l/s	120 l/s	180 l/s
449363	220 x 90	95	240	200	5	20	46

Horizontal T. F to F to F

Stock Ref	Duct Size	A	B	C	8 l/s	13 l/s	21 l/s	29 l/s	37 l/s	45 l/s	53 l/s	61 l/s
		External Dimensions			Resistance (Pa) at flow rate							
436551	204 x 60	65	310	255				vary on installation				
436614	110 x 54	60	185	150				vary on installation				

Stock Ref	Duct Size	A	B	C	60 l/s	120 l/s	180 l/s
449365	220 x 90	95	275	250		vary on installation	

Vertical 90 Bend. F to F

Stock Ref	Duct Size	A	B	C	8 l/s	13 l/s	21 l/s	29 l/s	37 l/s	45 l/s	53 l/s	61 l/s
		External Dimensions			Resistance (Pa) at flow rate							
436621	204 x 60	115	210	115	1.1	2.5	5.2	9.8	16.1	24	33.6	45
436603	110 x 54	95	115	95	3.3	15.5	36	61	96	138	190	253

Stock Ref	Duct Size	A	B	C	60 l/s	120 l/s	180 l/s
403029	220 x 90	117	224	120	7	28	66

Vertical 45 Bend. F to F

Stock Ref	Duct Size	A	B	C	8 l/s	13 l/s	21 l/s	29 l/s	37 l/s	45 l/s	53 l/s	61 l/s
		External Dimensions			Resistance (Pa) at flow rate							
445196	204 x 60	100	210	115	0.1	0.5	1.3	2.5	4.4	6.9	10	13.3
441655	110 x 54	115	115	70	1	2.4	6.6	12.9	23.1	35.1	48	64

Stock Ref	Duct Size	A	B	C	60 l/s	120 l/s	180 l/s
449364	220 x 90	110	225	115	6	27	65
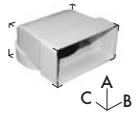
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Elbow Bend. 100mm to Rectangular. M to F

Stock Ref	Duct Size	External Dimensions			Resistance (Pa) at flow rate							
		A	B	C	8 l/s	13 l/s	21 l/s	29 l/s	37 l/s	45 l/s	53 l/s	61 l/s
436624	204 x 60	80	215	195	2.9	7.1	15.1	28	45.1	68.1	92.2	118
436607	110 x 54	90	115	140	3	8	17.7	33	49.9	74.5	101	137

Stock Ref	Duct Size	A	B	C	60 l/s	120 l/s	180 l/s
403027	220 x 90	118	226	240	N/A	N/A	N/A

Elbow Bend. 125mm to Rectangular. M to F

Stock Ref	Duct Size	External Dimensions			Resistance (Pa) at flow rate							
		A	B	C	8 l/s	13 l/s	21 l/s	29 l/s	37 l/s	45 l/s	53 l/s	61 l/s
436625	204 x 60	80	215	195	3.1	5.9	12.2	25	43.6	62.2	86	111

Stock Ref	Duct Size	A	B	C	60 l/s	120 l/s	180 l/s
449361	220 x 90	118	226	240	N/A	N/A	N/A

Elbow Bend. 150mm to Rectangular. M to F

Stock Ref	Duct Size	External Dimensions			Resistance (Pa) at flow rate							
		A	B	C	8 l/s	13 l/s	21 l/s	29 l/s	37 l/s	45 l/s	53 l/s	61 l/s
436626	204 x 60	80	215	195	2.8	4.9	11.6	21	31	41	53	67

Stock Ref	Duct Size	A	B	C	60 l/s	120 l/s	180 l/s
449362	220 x 90	118	226	240	N/A	N/A	N/A

Elbow Bend. 100mm to Rectangular. F to F

Stock Ref	Duct Size	External Dimensions			Resistance (Pa) at flow rate							
		A	B	C	8 l/s	13 l/s	21 l/s	29 l/s	37 l/s	45 l/s	53 l/s	61 l/s
436608	110 x 54	90	115	140	2.1	5.5	14.3	27.2	44.3	69	93	118

Flat Channel connector with Damper

Stock Ref	Duct Size	External Dimensions			Resistance (Pa) at flow rate							
		A	B	C	8 l/s	13 l/s	21 l/s	29 l/s	37 l/s	45 l/s	53 l/s	61 l/s
400735	110 x 54	60	115	75	16	17.5	19.5	22	25.5	30.5	36	42

Drop down section F to F

Stock Ref	Duct Size	External Dimensions			Resistance (Pa) at flow rate							
		A	B	C	8 l/s	13 l/s	21 l/s	29 l/s	37 l/s	45 l/s	53 l/s	61 l/s
442273	204 x 60	120	220	210	0.2	0.5	1.7	3.6	6.0	9.1	12.4	16.6

Single Air Brick Horizontal (System 60 Air Grille Adaptor is supplied with the Single Air Bricks)

Stock Ref	Duct Size	External Dimensions			Resistance (Pa) at flow rate							
		A	B	C	8 l/s	13 l/s	21 l/s	29 l/s	37 l/s	45 l/s	53 l/s	61 l/s
370336	204 x 60 (White)	65	210	65	3.2	7.8	20.9	39	65	96	128	176
5107197	204 x 60 (Terracotta)	65	210	65	3.2	7.8	20.9	39	65	96	128	176
372210	204 x 60 (Brown)	65	210	65	3.2	7.8	20.9	39	65	96	128	176
372101	204 x 60 (Beige)	65	210	65	3.2	7.8	20.9	39	65	96	128	176
436610	110 x 54 (White)	65	210	85	3.2	7.8	20.9	39	65	96	128	176
436612	110 x 54 (Terracotta)	65	210	85	3.2	7.8	20.9	39	65	96	128	176
436611	110 x 54 (Brown)	65	210	85	3.2	7.8	20.9	39	65	96	128	176
436613	110 x 54 (Beige)	65	210	85	3.2	7.8	20.9	39	65	96	128	176

Single Air Grille Soldier

Stock Ref	Duct Size	External Dimensions			Resistance (Pa) at flow rate							
		A	B	C	8 l/s	13 l/s	21 l/s	29 l/s	37 l/s	45 l/s	53 l/s	61 l/s
438594	204 x 60 (White)	210	65	15	3.3	10	20.6	40	63	92.8	128	168
468728	204 x 60 (Terracotta)	210	65	15	3.3	10	20.6	40	63	92.8	128	168
468730	204 x 60 (Brown)	210	65	15	3.3	10	20.6	40	63	92.8	128	168
468729	204 x 60 (Beige)	210	65	15	3.3	10	20.6	40	63	92.8	128	168

Ducting & Accessories

Double Air Brick

Stock Ref	Duct Size	External Dimensions			Resistance (Pa) at flow rate							
		A	B	C	8 l/s	13 l/s	21 l/s	29 l/s	37 l/s	45 l/s	53 l/s	61 l/s
438604	204 x 60 (White)	145	245	80	0.2	1.6	4.3	8.7	13.9	21.1	27.5	37.4
438607	204 x 60 (Terracotta)	145	245	80	0.2	1.6	4.3	8.7	13.9	21.1	27.5	37.4
438605	204 x 60 (Brown)	145	245	80	0.2	1.6	4.3	8.7	13.9	21.1	27.5	37.4
438606	204 x 60 (Beige)	145	245	80	0.2	1.6	4.3	8.7	13.9	21.1	27.5	37.4

Double Air Brick Adaptor
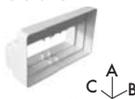
Stock Ref	Duct Size	External Dimensions			Resistance (Pa) at flow rate							
		A	B	C	8 l/s	13 l/s	21 l/s	29 l/s	37 l/s	45 l/s	53 l/s	61 l/s
438608	204 x 60	135	220	85	-	-	-	-	-	-	-	-

Air Grille Adaptor

Stock Ref	Duct Size	External Dimensions			Resistance (Pa) at flow rate							
		A	B	C	8 l/s	13 l/s	21 l/s	29 l/s	37 l/s	45 l/s	53 l/s	61 l/s
436609	110 x 54	65	210	85	0.2	1.2	2.5	4.7	7.8	11	14	18

Flexible Ducting

Stock Ref	Duct Size	External Dimensions			Resistance (Pa) at flow rate							
		A	B	C	8 l/s	13 l/s	21 l/s	29 l/s	37 l/s	45 l/s	53 l/s	61 l/s
5109662	204 x 60	-	-	-	0.2	0.6	1.5	2.6	4.1	6.0	8.2	11.5

Stock Ref	Duct Size	A	B	C	60 l/s	120 l/s	180 l/s
449366	220 x 90	-	-	-	N/A	N/A	N/A

Flat Channel End Cap

Stock Ref	Duct Size	External Dimensions			Resistance (Pa) at flow rate							
		A	B	C	8 l/s	13 l/s	21 l/s	29 l/s	37 l/s	45 l/s	53 l/s	61 l/s
400733	110 x 54	60	15	110	-	-	-	-	-	-	-	-

Louvred Grille with Flyscreen fitting

Stock Ref	Duct Size	External Dimensions			Resistance (Pa) at flow rate							
		A	B	C	8 l/s	13 l/s	21 l/s	29 l/s	37 l/s	45 l/s	53 l/s	61 l/s
400743	110 x 54	140	140	50	5.7	14.5	37	75	120	-	-	-

Flat Channel Wall Plate

Stock Ref	Duct Size	External Dimensions			Resistance (Pa) at flow rate							
		A	B	C	8 l/s	13 l/s	21 l/s	29 l/s	37 l/s	45 l/s	53 l/s	61 l/s
436606	110 x 54	155	155	-	-	-	-	-	-	-	-	-

Round (M) 100mm to Rectangular (F/M) Adaptor
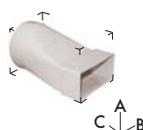
Stock Ref	Duct Size	External Dimensions			Resistance (Pa) at flow rate							
		A	B	C	8 l/s	13 l/s	21 l/s	29 l/s	37 l/s	45 l/s	53 l/s	61 l/s
441654	M to F 204 x 60	140	210	215	1.0	1.96	3.2	4.9	6.7	8.7	11.2	14.5
400740	M to M 110 x 54	100	115	180	1.2	4.2	8.3	19.8	29.9	42	60	86

Round (F) 125mm to Rectangular (F) Adaptor

Stock Ref	Duct Size	External Dimensions			Resistance (Pa) at flow rate							
		A	B	C	8 l/s	13 l/s	21 l/s	29 l/s	37 l/s	45 l/s	53 l/s	61 l/s
370127	F to F 204 x 60	140	210	213	<1	<1	1.5	2.8	4.5	6.7	9	11.5

Round (F) 150mm to Rectangular (F) Adaptor

Stock Ref	Duct Size	External Dimensions			Resistance (Pa) at flow rate		
		A	B	C	60 l/s	120 l/s	180 l/s
403031	F to F 220 x 90	160	225	203	N/A	N/A	N/A

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Short Round (M) 100mm to 110 x 54 (F) Adaptor

Stock Ref	Duct Size	External Dimensions			Resistance (Pa) at flow rate							
		A	B	C	8 l/s	13 l/s	21 l/s	29 l/s	37 l/s	45 l/s	53 l/s	61 l/s
455035	M to F 110 x 54	60	110	105	1.2	4.3	8.4	20	30.2	43	62	88

Round 2m Ducting length Insulated/Uninsulated
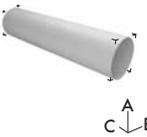
Stock Ref	Duct Size	External Dimensions			Resistance (Pa) at flow rate							
		A	B	C	8 l/s	13 l/s	21 l/s	29 l/s	37 l/s	45 l/s	53 l/s	61 l/s
5108249	Insulated 100 Ø	115	115	2000	<1	<1	1.7	2.8	3.6	4.5	5.3	6.2
5108250	Uninsulated 100 Ø	100	100	2000	<1	<1	1.7	2.8	3.6	4.5	5.3	6.2
428630	Insulated 125 Ø	140	140	2000	<1	<1	<1	1.3	1.8	2.4	3.1	3.8
434715*	Uninsulated 125 Ø	125	125	2000	<1	<1	<1	1.3	1.8	2.4	3.1	3.8
5108251	Insulated 150 Ø	165	165	2000	<1	<1	<1	<1	1.2	1.6	2	2.5
5108248	Uninsulated 150 Ø	150	150	2000	<1	<1	<1	<	1.2	1.6	2	2.5

*1.5 metres

Equal Tee Insulated/Uninsulated MMM
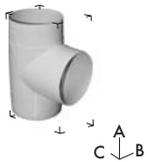
Stock Ref	Duct Size	External Dimensions			Resistance (Pa) at flow rate							
		A	B	C	8 l/s	13 l/s	21 l/s	29 l/s	37 l/s	45 l/s	53 l/s	61 l/s
372012	Insulated 100 Ø	190	125	143				vary on installation				
372007	Uninsulated 100 Ø	190	110	135				vary on installation				
428631	Insulated 125 Ø	210	130	168				vary on installation				
428636	Uninsulated 125 Ø	210	115	160				vary on installation				
372075	Insulated 150 Ø	235	145	185				vary on installation				
370237	Uninsulated 150 Ø	235	130	177				vary on installation				

90° Bend Insulated/Uninsulated MM

Stock Ref	Duct Size	External Dimensions			Resistance (Pa) at flow rate							
		A	B	C	8 l/s	13 l/s	21 l/s	29 l/s	37 l/s	45 l/s	53 l/s	61 l/s
372010	Insulated 100 Ø	130	115	100	2.8	5.5	11	20.3	33	45	60	79
372004	Uninsulated 100 Ø	130	100	100	2.8	5.5	11	20.3	33	45	60	79
428635	Insulated 125 Ø	160	140	130	<1	1.8	5	8.2	11.8	18	26	35
427360	Uninsulated 125 Ø	160	130	130	<1	1.8	5	8.2	11.8	18	26	35
372076	Insulated 150 Ø	190	165	155	<1	1.0	2.5	4.1	6.4	9.6	13.5	18
370295	Uninsulated 150 Ø	190	155	155	<1	1.0	2.5	4.1	6.4	9.6	13.5	18

45° Bend Insulated/Uninsulated MM

Stock Ref	Duct Size	External Dimensions			Resistance (Pa) at flow rate							
		A	B	C	8 l/s	13 l/s	21 l/s	29 l/s	37 l/s	45 l/s	53 l/s	61 l/s
372011	Insulated 100 Ø	180	115	130	<1	1.9	8.1	11.7	17.5	24.6	31.4	-
372005	Uninsulated 100 Ø	180	100	130	<1	1.9	8.1	11.7	17.5	24.6	31.4	-
431590	Insulated 125 Ø	200	140	150	<1	<1	1.8	2.9	4.6	6.6	9	12.2
441657	Uninsulated 125 Ø	200	130	150	<1	<1	1.8	2.9	4.6	6.6	9	12.2

Connector MM
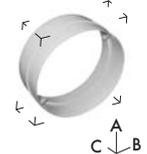
Stock Ref	Duct Size	External Dimensions			Resistance (Pa) at flow rate							
		A	B	C	8 l/s	13 l/s	21 l/s	29 l/s	37 l/s	45 l/s	53 l/s	61 l/s
372006	100 Ø	100	60	-	-	-	-	-	-	-	-	-
428633	125 Ø	125	60	-	-	-	-	-	-	-	-	-
370299	150 Ø	150	60	-	-	-	-	-	-	-	-	-

Reducer

Stock Ref	Duct Size	External Dimensions			Resistance (Pa) at flow rate							
		A	B	C	8 l/s	13 l/s	21 l/s	29 l/s	37 l/s	45 l/s	53 l/s	61 l/s
VA54119	125mm to 100mm	130	57	-	-	-	-	-	-	-	-	-
428632	150mm to 125mm	155	57	-	-	-	-	-	-	-	-	-

PVC Flexible Ducting

PVC with wire helix. Used with Single Spigots, and in multi-duct schemes.

6 metre lengths

Duct Dia	Stock Ref
100mm	436580
125mm	436584
150mm	436588
200mm	436592

T-Series Flexible Ducting

PVC with wire helix. For use with T-Series.

6m lengths

Size	Duct Dia	Stock Ref
Size 6	175mm	566607
Size 7	225mm	566609
Size 9	300mm	566612
Size 12	400mm	566616

Aluminium Flexible Ducting

Lightweight, easy to install ducting made of 5 layer aluminium foil/ polyester on a steel wire helix. The strength of the helix resists distortion and damage due to rough handling.

10 metre lengths

Duct Dia	Stock Ref
100mm	10539100
125mm	10539125
150mm	10539150
200mm	10539200
250mm	10539250
315mm	10539315
400mm	10539400

Insulated Flexible Ducting

Insulated ducting should be used when duct passes through an unheated area. Minimised heat loss when used with heat recovery fans. Available in 6 diameters. An additional benefit is that thermally insulated duct offers some measure of acoustic attenuation.

Fire Rating: When assessed against the integrity criterion of BS476: Part 20; 1987, the ducting is capable of providing in excess of 25 minutes integrity from inside to outside.

10 metre lengths

Duct Dia	Stock Ref
100mm	561654
125mm	561655
150mm	561656
200mm	561658
250mm	561660
315mm	561662

Duct Y Pieces

For dividing a ventilation system, providing ducting to multiple supply or extract grilles using only a single fan source.

2x Into	1x	Stock Ref
100mm	100mm	452081
100mm	150mm	452082
125mm	125mm	455211
125mm	150mm	455212
150mm	150mm	452083
150mm	200mm	452084
200mm	200mm	452085
200mm	250mm	452078
200mm	350mm	452080
250mm	250mm	452076
250mm	300mm	452079
300mm	300mm	452077

Acoustic Insulated Ducting

Multiple layer aluminium/polyester laminate with micro perforated flexible core to enhance acoustic performance. Core surrounded by 25mm fibreglass insulation with outer vapour barrier.

10 metre lengths

Duct Size	Stock Ref
100mm	370172
125mm	370173
150mm	370174
200mm	370175
250mm	370176
315mm	370178

Flanged Spigot

Duct Size	Stock Ref
100 ∅	400761

Reducer

Duct Size	Stock Ref
R125/100	370302
R150/100	370303
R150/125	370304
R200/150	370307
R250/200	370309
R300/100	370310
R300/200	370312

Circular Exhaust Diffusers

Manufactured from powder coated steel. Suitable for exhausting air and can be fitted directly to the duct or in the ceiling.

Duct Size	Stock Ref
100 Ø	10544100
125 Ø	10544125
150 Ø	10544150
200 Ø	10544200

Circular Supply Diffusers

Manufactured from powder coated steel. Suitable for supplying air and can be fitted directly to the duct or in the ceiling.

Duct Size	Stock Ref
100 Ø	10543100
125 Ø	10543125
150 Ø	10543150
200 Ø	10544200

Diffuser with Integral Fire Damper (Extract)

Duct Size	Stock Ref
150 Ø	VHD150

Aircheck A15/40 - WC

Electrically operated extract grille. Constant airflow of 15m^3/h, opening to 40m^3/h when electrically operated.
Stock Ref
455207

Aircheck A65/120 - Kitchen

Electrically operated extract grille. Constant airflow of 65m^3/h, opening to 120m^3/h when electrically operated.
Stock Ref
455208

Collar for Exhaust & Supply Diffusers

Stock Ref
371301

Aircheck H40/70 - Bathroom

An auto humidity operated extract grille. Constant airflow of 40m^3/h, opening to 70m^3/h when operated.
Stock Ref
455204

Aircheck H65/120 - Kitchen/Utility

An auto humidity operated extract grille. Constant airflow of 65m^3/h, opening to 120m^3/h when operated.
Stock Ref
455206

Aircheck Ceiling adaptor (CA125)

A ceiling adaptor for connection between Aircheck grilles and ducting.

	Stock Ref
CA125	455219

External Terminations louvre Grilles with Spigot

Plastic louvre grilles with either 100mm or 150mm diameter spigots.

100mm Ø	Stock Ref
RD104TC	370328
RD104BR	370329
RD104WH	370330

150mm Ø	Stock Ref
RD604BR	370337
RD604TC	370338
RD604WH	400742

Resettable Fire Dampers

Duct Size	Stock Ref
100 Ø	400788
125 Ø	400789
150 Ø	400790

Acoustic Mat

25mm thick foam mat for use as a resilient mounting for wholehouse units.

	Stock Ref
ACM/House	370179

Vent-Axia does not guarantee compliance with Building Regulations Part B, Fire Spread or other regulations that relate to fire planning. Suitability to comply with these regulations should be determined prior to installation and in conjunction with Building Control Officers. Compliance with the Regulations is specifically excluded from quotations and designs.

Spiral Ductwork - 3 m length

Duct Size	Stock Ref
100 ∅	400900
125 ∅	400901
150 ∅	400902
200 ∅	410922
250 ∅	410923
315 ∅	410924

Equal Tee

Duct Size	Stock Ref
100 ∅	400749
125 ∅	400750
150 ∅	400751
200 ∅	370238
250 ∅	370239
315 ∅	410925

90° Bend

Duct Size	Stock Ref
100 ∅	400752
125 ∅	400753
150 ∅	400754
200 ∅	370202
250 ∅	370203
315 ∅	410926

Female Coupler

Duct Size	Stock Ref
100 ∅	400755
125 ∅	400756
150 ∅	400757
200 ∅	410927
250 ∅	410928
315 ∅	410929

Joining Piece

In sheet metal. For joining lengths of flexible ducting to give long lasting airtight connection.

Duct Size	Stock Ref
100 ∅	561804
125 ∅	561805
150 ∅	561806
200 ∅	561808
250 ∅	561810
315 ∅	561813

Rectangular Balancing Damper

Duct Size	Stock Ref
110 x 54	405156
204 x 60	403698
220 x 90	403699

Circular Balancing Damper

Duct Size	Stock Ref
100 ∅	400758
125 ∅	400759
150 ∅	400760
200 ∅	410930
250 ∅	410931
315 ∅	410932

Vent-Axia provides a complete range of fire stopping solutions specifically tested with ventilation ducting. The versatile selection allows for stacking and parallel installation in certain circumstances, along with creative solutions for partition walls and slab mounting.

The table highlights the type of Fire Stop required for most common applications.

	Minutes	Fire Valves		Round Fire Sleeve			Rectangular Fire Sleeve		Rectangular Fire Wrap	
	Protection	100mm	125mm	100mm	125mm	150mm	110 x 54	204 x 60	110 x 54	204 x 60
72mm Stud Partition	30									
	60						#446113	445319		
	120									
100mm Stud Partition	30						#446113			
	60						446113	445319		
	120									
130mm Stud Partition	30				403428		#446113			
	60			403428	403429	403430	446113	445319	404275	404274
	120									
130mm Masonary	30				403428					
	60			403428	403429	403430	446113	445319	435137	435138
	120									
140mm Masonary	30				403428					
	60			403428	403429	403430	446113	445319	435137	435138
	120									
Ceilings	30									
	60	403431	403432							
	120									

\# Fire Test Assessment also covers multiple ducts to be installed in series / side by side, max. 3No., 30, 60 & 120 Minute Partitions, Single & Double Boards

Note: For a copy of the Fire Certificates for the product(s) above, visit our webpage www.vent-axia.com/range/ventilation-fire-stopping

Circular Fire Valve
Duct Size	Stock Ref
100mm	**403431**
125mm	**403432**

Round Fire Sleeve
Duct Size	Stock Ref
100mm	**403428**
125mm	**403429**

Rectangular Fire Sleeve - 4 sided
Duct Size	Stock Ref
110x54mm	**446113**
204x60mm	**445319**

Rectangular Fire Wrap
Duct Size	Stock Ref
110x54mm	**435137**
204x60mm	**435138**

Round Fire Sleeve with Duct Insert
Duct Size	Stock Ref
150mm	**403430**

Rectangular Fire Sleeve - 3 sided
Duct Size	Stock Ref
204x60mm	**403498**

Rectangular Fire Wrap & Cage
Duct Size	Stock Ref
110x54mm	**404276**
204x60mm	**404274**

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Wall Fitting Kit

A range of VA100mm and VA150mm wall kits. For installing into most walls using the telescopic liners supplied.

White

Model	Stock Ref
VA100	254102
VA140/150	140902
Silhouette 150	140902

Brown

Model	Stock Ref
VA100	254100
VA140/150	140903
Silhouette 150	140903

Window Fitting Kit

For use in single or sealed double glazing and most materials up to 40mm thick.

White

Model	Stock Ref
VA100 (105Ø)	254101
VA100 (110Ø)	443234
Centra/Sil 100	442947
VA140/150	140901
Solo	11461685

Air Grille

Louvre grille for external termination of 100mm diameter rigid ducting. Consists of wall mounting piece and grille with 2 fixing screws.

Colour:	White or Brown
Dimensions:	155 x 155 x 32mm
Material:	ABS plastic

Colour	Stock Ref
White	563511
Brown	563500

Termination Set

Used as a decorative inlet grille or soffit termination set in conjunction with 100mm or 125mm diameter ducting. Two fixing screws supplied to secure grille to the spigot through material up to 25mm thick. Dimension 155mm x155mm.

Colour:	White
Material:	ABS plastic

Stock Ref
563513

Decoration Frame

A decoration frame that converts old Centrif to new Centrif Duo without the need to redecorate. The frame can be used with Quadra and Centrif Duo Plus.

The frame is simply installed using two wall fixing screws, allowing the fan to be mounted via its standard mountings. Finished in a high moulded material plastic colour matched to the fan.

Color:	White
Size:	386mm x 296 x 32 mm deep

Stock Ref
442551

Quick Fit 100mm Airflow Shutter

Shutter with gravity flaps to protect against backdraught. The spigot connects to 100mm rigid ducting using quick fix grips provided.

Dimensions:	155 x 155 x 20mm
Material:	Plastic

Colour	Stock Ref
White	563522
Brown	563542

Terminal Connector & Grille

Used for the termination of 100mm flexible ducting to the ceiling or wall of small areas, such as internal toilets.

Connector:	Manufactured in flame-retardant high impact thermoplastic
Colour:	Grey
Grille:	ABS plastic eggcrate, white finish

Description	Stock Ref
Grille	560846
Connector	560856
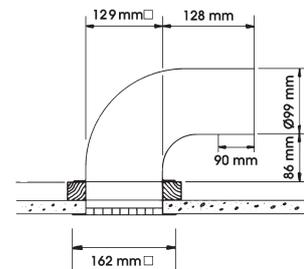
100mm Wind Cowl

Wind baffle for high rise, coastal or exposed areas.

Colour	Stock Ref
White	457845

Quick Fit 100mm Grille

Terminates a rigid duct on an outside wall using the 'quick fix' side grips without the need for additional fixings.

Colour	Stock Ref
White	563521
Brown	563541

Vent Cowl

External termination for 100mm diameter rigid ducting through roofs and walls in exposed situations. Overall diameter 200mm. Not suitable for use with flexible ducting.

Material	Stock Ref
Grey PVCu	561403

VA140/150 Window wind cowl

Wind baffle for exposed areas.

Stock Ref
455262

Ducting Pack

Consists of 1 x 3 metre length aluminium foil flexible ducting of 100mm diameter, 2 x cable ties and 1 x 100 diameter spigoted fixed grille with built-in screen.

Stock Ref
563517

Air replacement Set

Bathroom and toilet ventilation is only effective when there is adequate air replacement into the room. This is often most effectively achieved by fitting a pair of air replacement grilles at low level in a door. Consists of a two piece telescopic set which fits unobtrusively on either side of the door panel.

Minimum fixing thickness:	30mm.
Dimensions:	454 x 90mm.
Hole size:	435 x 76mm.
Material:	High impact thermoplastic.
Free area.	115cm^2

Colour	Stock Ref
Ivory	561401
Brown	561400

Quick Fix Termination

The quick fix termination is designed to be installed from inside the building to a nominal 117mm or 165mm diameter core-cut hole, saving time and cost. Four sealing rings ensures a weather tight fit to the wall external leaf. Effective length 370mm.

Duct Size	Stock Ref
100mm	563535
150mm	434656

Condensation Trap

Condensation trap, for fitting in vertical rigid PVCu pipe ducting. Must be used where pipe ducts pass through unheated roof voids. Fitted with 20mm pipe connection for running off condensate. Not suitable for use with flexible ducting.

Length	85mm
Material:	Grey PVCu.

Size	Stock Ref
100mm	563516
125mm	455191
150mm	455190

Commercial Range

Lo-Carbon T-Series®

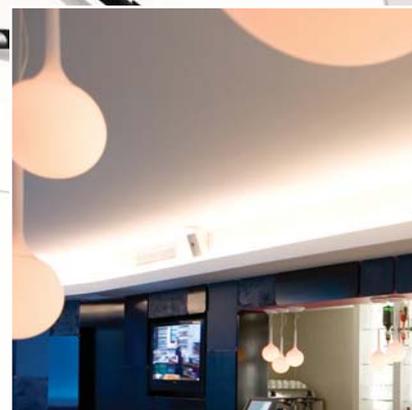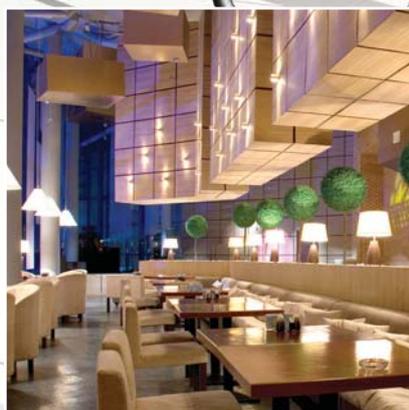The UK's No. 1 Commercial Fan is available with a low energy DC motor providing up to 65% energy saving. The motor is designed to provide longer life, improved performance, lower running costs and maintain the T-Series rugged reliability.

ACM® 100-200
In-Line Mixed Flow Fans Models

Features & Benefits

- Quietest on the market
- Designed and manufactured in UK
- Two speed selectable motor
- Timer versions available
- Removable motor core assembly
- Rotating motor chassis assembly
- Supplied complete for installation
- IP44 rated
- Aesthetically pleasing with wipe clean polymer casing

Ducted Ventilation

Vent Axia has designed a complete range of energy efficient Mixed Flow In-Line fans that are now quieter, offer two and half times the pressure of conventional axial fans and are dimensionally more compact making them ideal for many ducted applications.

The ACM Mixed Flow In-Line fan can operate in both horizontal and vertical positions.

Motor

All motors are fitted with Standard Thermal Overload Protection (S.T.O.P.). Designed for ambient temperatures up to +50°C. All sizes with capacitor run motors. All sizes are Class II appliances. Supply voltage 220-240V/1/50Hz.

These units have a separate footplate for simple location mounting and detachable spigots for simple connection to ducting. The motor body chassis now rotates to provide connection in acute spaces. Cleaning the product has also become simple as all parts can be removed without removing the ducting.

Controller

For optimum performance use a Vent-Axia 1.5 Amp electronic controller. Surface mounted providing variable speed control with an On/Off/sensor slider with indication light. There is an adjustable minimum speed setting. The controller has electrical connections for use with suitable external sensors. Cannot be used with timer models.

1.5 Amp Controller (Suitable for 100mm – 200mm models) Dimensions: 86 x 156 x 53mm (H x W x D).
Stock Ref
W300310

For flush fitting a metal wall box accessory is available.
Stock Ref
400144

Hole for wall box: 80 x 150 x 150mm (H x W x D).

Models

Model	Stock Ref
ACM100	17104010
ACM100T	17104020
ACM125	17105010
ACM125T	17105020
ACM150	17106010
ACM150T	17106020
ACM200	17108010
ACM200T	17108020

Dimensions (mm)

Size	100	125	150	200
AØ	97	122	147	199.5
B	178	178	200	223
C	124	124	138	146
D	298	259	350	300
E	96	96	118	130
F	168	168	192	195
G	120	120	162	100
H	153.5	153.5	178	180
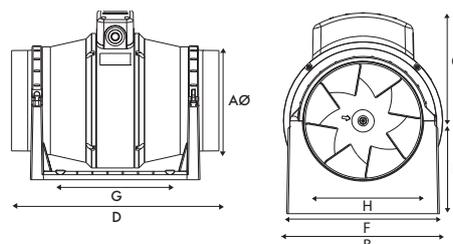
Performance
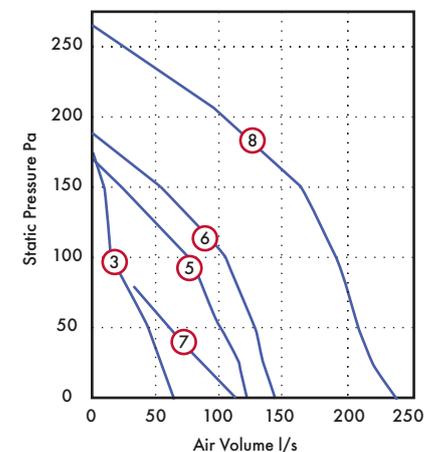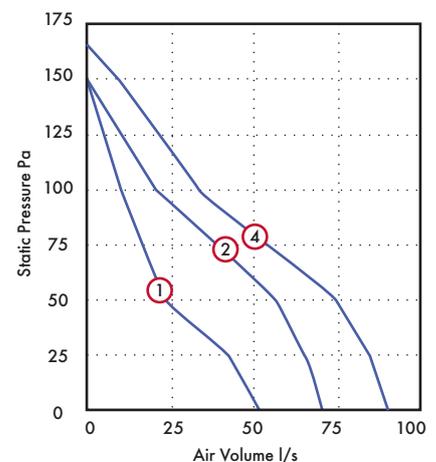
Size	Curve	Nominal				dB(A)
		r.p.m	l/s @ 0Pa	Watts	Amps	at 3m
100	1	L 1670	52	18	0.09	20
	2	H 2200	71	23	0.1	23
125	3	L 1800	65	25	0.12	20
	4	H 2400	91	30	0.13	24
150	5	L 1870	123	42	0.19	31
	6	H 2350	145	48	0.21	35
200	7	L 1411	111	114	0.51	32
	8	H 2250	240	107	0.48	38

T: 0844 856 0590

ACM® 250-315
In-Line Mixed Flow Fans Models

Features & Benefits
- Available in two sizes
- Simple Installation
- Supplied complete for installation
- Optimise fan performance by using an approved Vent Axia controller
- Diagonal impeller with stator
- Galvanized metal housing
- Integrated thermal switch
- Includes a mounting bracket
- Designed to meet IP54

Ducted Ventilation
Vent Axia has designed a complete range of energy efficient Mixed Flow In-Line fans that are now quieter than any other product on the market. The ACM range of six products have been designed for use with rigid and flexible ducting.

In-line Mixed Flow fans offer two and half times the pressure of conventional axial fans and are dimensionally more compact making them ideal for many ducted applications.

The ACM Mixed Flow In-Line fan can operate in both horizontal and vertical positions and can be mounted to meet its optimum performance.

Motor
All motors are fitted with Standard Thermal Overload Protection (S.T.O.P.). Designed for ambient temperatures up to +50°C. All sizes with capacitor run motors. ACM 250 and 315 are Class I appliances. Supply voltage 220-240V/1/50Hz.

Models

Model	Stock Ref
ACM250	17110010
ACM315	17112010

Controller
For optimum performance use a Vent-Axia electronic controller. Surface mounted providing variable speed control with an On/Off/sensor slider with indication light. 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.

1.5 Amp Controller – Suitable for 250mm model Dimensions: 86 x 156 x 53mm (H x W x D).

Stock Ref
W300310

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: 3.0amp. 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.

Dimensions: 135 x 170 x 117mm (H x W x D).

Stock Ref
10314103

Dimensions (mm)

296 †2   258.8 †2   278 †1   Ø250 †1

ACM250

335.5 †2   318.5 †2   307.6 †2   Ø315
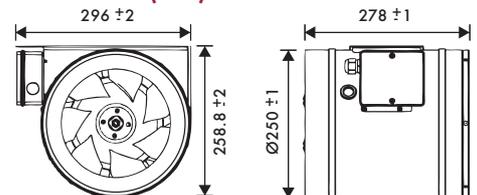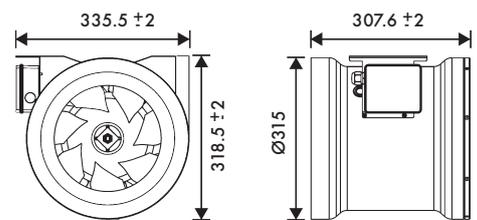
ACM315

Performance

ACM200 - 315
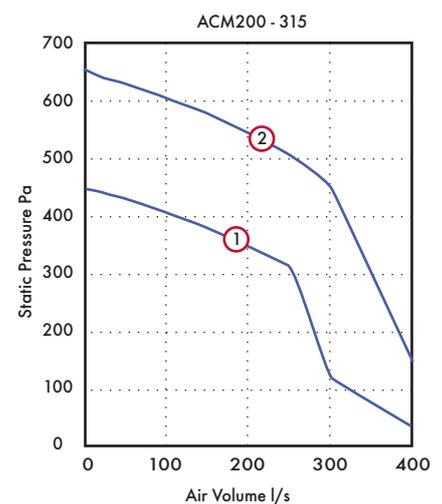
Size		Curve	r.p.m	l/s @ 0Pa	Watts	Amps	at 3m
			Nominal				dB(A)
250	1		H 2720	450	145	0.8	52
315	2		H 2840	653	270	1.2	56

Powerflow
In-Line Duct Fans Models

Features & Benefits

- Tough plastic in-line range in eight models
- 50-80mm long ribbed spigots
- Flame retardant casing
- All models speed controllable
- Fitted with Standard Thermal Overload Protection (S.T.O.P.)
- For the best performance from your fan, use a Vent-Axia controller
- IP44 Rated

Ducted Ventilation

Powerflow models provide a compact yet versatile range designed with the installer in mind, combining the acoustic benefits of a tough plastic casing with the pressure characteristics of a centrifugal fan.

A range of eight models from 100 to 315mm dia. duct sizes. The 315mm dia. model has been specifically developed for use with rigid ductwork. Air volumes from 59l/s to 420l/s in free air and capable of pressure development up to 550 Pa.

Powerflow has 50-80mm long inlet and discharge spigots allowing easy installation and fixing. The adjustable mounting foot allows the terminal box to be rotated to any angle and allows plenty of space and adjustment for screw fixing. The robust fire retardant polymeric casing combined with internal guide vanes ensures optimum airflow management through the unit.

Electrical

Motors are 220-240V single phase 50Hz. Capacitor start and run. The terminal box is integral with the case moulding. All motors are fitted with Standard Thermal Overload Protection (S.T.O.P.).

Motor/Impeller

All models are fitted with an external rotor motor and backward curved impeller assembly for long life and reliability.

All sizes are IP44 according to BS EN 60529. Ball bearings are greased for life and designed to run at any angle. Insulation is Class 'B' (from -30°C to +40°C). Manufacture is controlled to BS EN ISO 9001.

Models

2 Pole In-Line Duct Fan - Single Phase
Stock Ref
ACP10012
ACP12512A
ACP15012
ACP16012
ACP20012
ACP25012
ACP31512
ACP31512HP

2.5A Electronic Controller

On/Off indication light. Infinitely variable speed control. Adjustable minimum speed setting and optional sensor mode. The controller is radio-suppressed to BS800 and rated at 2.5 Amps.
Stock Ref
W10303102M

Dimensions (mm)

Dia	Øa	b	c	d	e	Øf	g	h	Weight
100	100	146	287	52	52	254	110	270*	2.2
125	125	146	287	60	60	254	110	270*	2.2
150	149	175	287	52	52	301	110	270*	3.1
160	160	175	287	52	52	301	110	270*	3.1
200	200	193	290	47	47	344	92	130	4.3
250	250	218	312	65	65	367	92	130	4.6
315	315	250	366	76	76	405	92	130	5.9
315HP	315	250	366	76	76	405	92	130	6.1

*Sizes 100, 125, 150 & 160 have a flat mounting foot
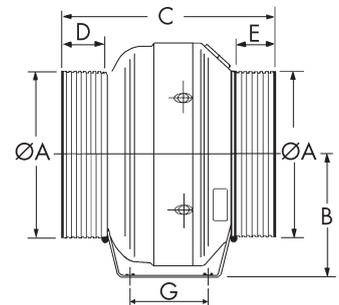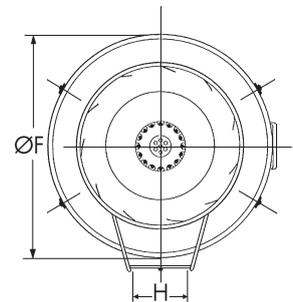
Performance Curve
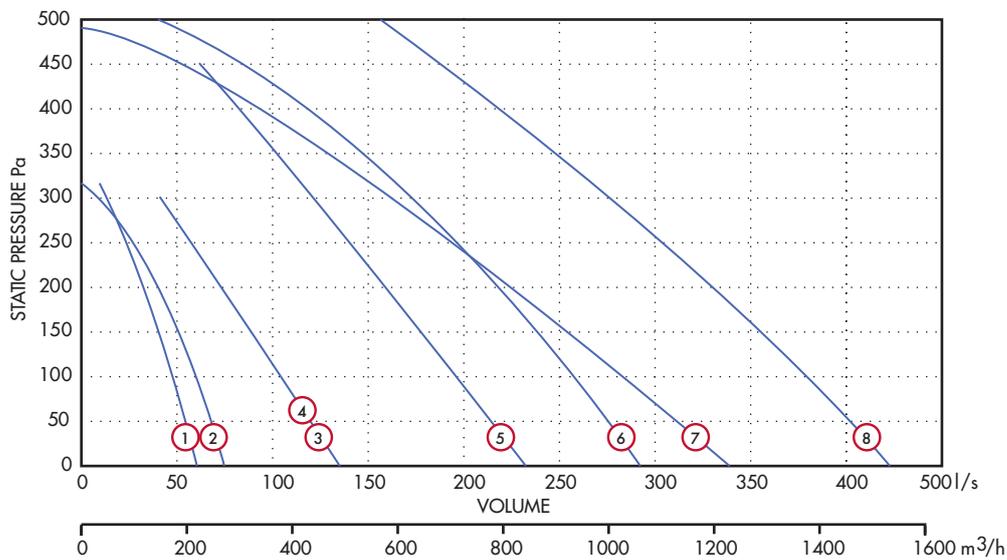
Performance Data

Dia.	Curve Ref.	Nominal r.p.m	0	25	50	100	150	200	250	300	350	400	Watts	S.C. Amps	F.L.C. Amps	dB(A) at 3m
100	①	2740	59	56	52	46	39	31	21				83	0.85	0.34	35
125	②	2410	78	73	69	60	50	39	27				86	0.85	0.34	35
150	③	2520	137	130	122	106	89	73	57	39			100	1.10	0.43	45
160	④	2520	137	130	122	106	89	73	57	39			100	1.10	0.43	45
200	⑤	2620	234	224	214	194	177	159	138	119	100	82	150	1.52	0.68	47
250	⑥	2720	290	283	270	250	234	216	197	177	156	124	185	1.60	0.77	48
315	⑦	2720	339	329	313	274	244	218	191	161	131	98	182	1.57	0.75	51
315HP	⑧	2667	420	410	400	380	350	330	300	270	247	222	300	4.00	1.30	52

Acoustic Sound Power Level

Stock Ref.		63	125	250	500	1K	2K	4K	8K	dB(A) @3m
ACP10012	INLET	81	84	75	68	61	52	46	40	51
ACP10012	OUTLET	82	84	77	68	61	52	49	43	52
ACP10012	BREAKOUT	52	48	57	53	53	48	40	38	35
ACP12512	INLET	80	79	76	70	61	57	51	45	51
ACP12512	OUTLET	82	80	76	71	61	54	51	43	52
ACP12512	BREAKOUT	52	48	57	53	53	48	40	38	35
ACP15012	INLET	79	84	84	76	69	65	61	52	59
ACP15012	OUTLET	78	84	83	74	69	65	60	50	58
ACP15012	BREAKOUT	59	62	66	62	62	58	51	43	45
ACP16012	INLET	81	81	79	76	66	61	58	49	55
ACP16012	OUTLET	80	82	81	73	67	62	57	49	54
ACP16012	BREAKOUT	59	62	66	62	62	58	51	43	45

Stock Ref.		63	125	250	500	1K	2K	4K	8K	dB(A) @3m
ACP20012	INLET	80	79	74	76	67	65	66	60	57
ACP20012	OUTLET	79	79	74	71	69	69	65	59	55
ACP20012	BREAKOUT	54	70	67	66	62	59	53	43	47
ACP25012	INLET	84	80	74	74	69	69	67	63	57
ACP25012	OUTLET	75	79	73	72	72	73	68	64	59
ACP25012	BREAKOUT	60	71	70	66	65	62	55	44	48
ACP31512	INLET	84	80	74	74	69	69	67	63	56
ACP31512	OUTLET	75	79	73	72	72	73	68	64	59
ACP31512	BREAKOUT	72	71	73	71	66	63	55	45	51
ACP31512/HP	INLET	63	72	75	77	79	75	74	67	63
ACP31512/HP	OUTLET	65	73	76	79	76	80	74	68	64
ACP31512/HP	BREAKOUT	61	68	69	71	68	67	58	51	52

![Vent-Axia logo]

Commercial Range

Lo-Carbon
T-Series®
Window Models

Features & Benefits

- Reduces your carbon footprint
- Extract/intake model in 2 sizes: 9" and 12"
- Long life Lo-Carbon motor lasts twice as long as conventional motors
- Up to 70% energy saving
- Wired or Wireless fan models available
- Easy fit connector Top Socket, standard on all models

UK's No. 1 Commercial Fan

The Lo-Carbon T-Series range is fitted with a low energy DC motor, developed to improve performance, lower running costs and maintain T-Series' rugged reliability.

Designed for installation through single or double glazing and material up to 32mm thick. Greater thicknesses can be accommodated using extended fixing rod sets. Alternatively, the Lo-Carbon T-Series range can be used in conjunction with Vent-Axia ventilation accessories in flexible and rigid ducting systems to suit individual requirements. The fan can also be mounted in a fixing plate on walls or above ceilings.

Instantaneous Shutter

With energy saving in mind, units are supplied complete with an integral instantaneous automatic louvre shutter concealed behind the interior grille. It operates on both extract and intake and at any angle of mounting.

The shutter is electronically controlled by an actuator with a damped action giving quiet operation during instant opening and closing. The interlocking edges of the shutter blades provide maximum back draught protection. When the ventilating unit is used with the Lo-Carbon T-Series controller, the shutter can be set open with the fan motor switched Off to provide natural ventilation without the security risk of an open window.

Models
Wired Model
Size	Stock Ref
9" Window	456165
12" Window	456173

Wireless Model
Size	Stock Ref
9" Window	456169
12" Window	456177

Designed for use in single or double glazing, most types of glass and materials up to 32mm thick. Greater thicknesses can be accommodated using Extended Fixing Rod Sets. Can also be mounted in a fixing plate or wall, in ducts or above ceilings.

Extended Fitting Rod set
Size	Stock Ref
9"	568104
12"	568106

Top Socket

A connector Top Socket is now standard on all T-Series fans. Allowing fast and trouble-free mains connection.

Controllers

Models	Stock Ref
Wireless	455874
Wired	455873

Dimensions (mm)

Size Dim.	9 in	12 in
A	39	41
B	150	177
C	304	381
D	302	378
E	19	19
F	54	54
Fixing hole Ø	260	337
Weight kg	5.35	7.7

Controller (W x H x D) 97 x 99 x 32

Performance Graph

![Performance graph showing Static Pressure Pa vs Air Volume m³/h with curves 1 and 2]

Performance

Model	Curve	Extract performance m³/h (l/s)			Watts (high)	Sound dB(A) (med) @ 3m	Amps @ 240V
		low	medium	high			
Lo-Carbon TX9WW - Wireless/Wired	1	332 (90)	571 (160)	761 (210)	30.8	40	0.35
Lo-Carbon TX12WW - Wireless/Wired	2	660 (185)	1295 (360)	1550 (430)	68.6	46	0.73

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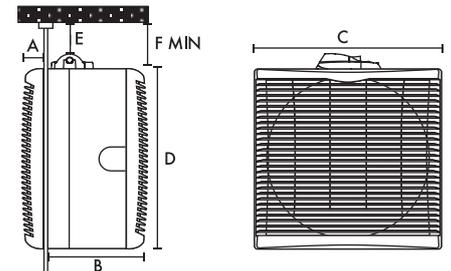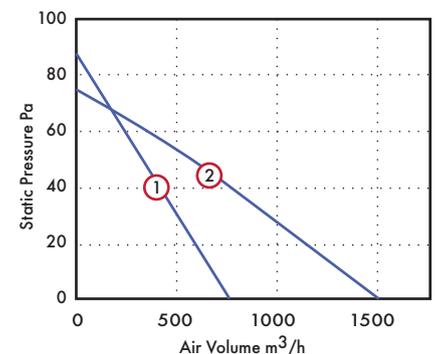
Lo-Carbon
T-Series®
Wall Models

Features & Benefits

- Long life Lo-Carbon motor lasts twice as long as conventional motors
- Reduces your carbon footprint
- Extract/intake model in 2 sizes: 9" and 12"
- Up to 70% energy saving
- Wired or Wireless fan models available
- Easy fit connector Top Socket, standard on all models

UK's No. 1 Commercial Fan

Behind the grille of the Lo-Carbon T-Series Wall model is a high performance extract/intake ventilating unit designed to fit through most wall thicknesses using the telescopic liner supplied. For walls of exceptional thickness additional liners can be used. Conduit entry is provided for concealed wiring.

External Brick Walls

Lo-Carbon T-Series wall models are designed to fit directly into double brick, solid and cavity walls. The two part telescopic liner accommodates wall thicknesses from 240 to 315mm. For thicker walls additional liner sections are available. Lo-Carbon T-Series wall models are provided with internal and external wall frames which fit flush with both faces of the wall.

Instantaneous Shutter

Lo-Carbon T-Series models are supplied complete with an integral instantaneous automatic louvre shutter which will operate on both intake and extract and at any angle of mounting.

When the ventilating unit is used with a Lo-Carbon T-Series controller, the shutter can be set open with the fan motor switched Off to provide natural ventilation without the security risk of an open window.

Electrical

Motor purpose-designed. Suitable for running at any angle. Quiet running. Suitable for operation in ambient temperatures from -40°C to +50°C.

Fitted with self resetting Standard Thermal Overload Protection (S.T.O.P.).

Supply voltage 220-240V/1/50Hz.

Top Socket

A connector Top Socket is now standard on all T-Series fans. Allowing fast and trouble-free mains connection.

Models

Wired Model
Size	Stock Ref
9" Wall	456166
12" Wall	456174

Wireless Model
Size	Stock Ref
9" Wall	456170
12" Wall	456178

Wall Liner Section
Size	Stock Ref
6"	460094
7"	460095
9"	460096
12"	460086

Controllers

Models	Stock Ref
Wireless	455874
Wired	455873

Dimensions (mm)

Size Dim.	9 in	12 in
A	391	470
B	388	467
C	365	442
D	375	450
E	143	182
F	25	25
Weight kg	7.77	10.86

Controller (W x H x D) 97 x 99 x 32
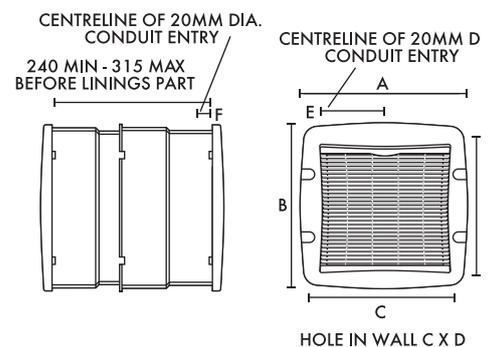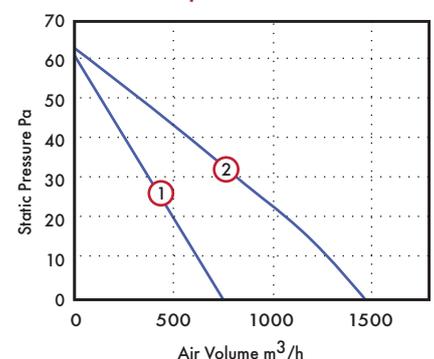
CENTRELINE OF 20MM DIA. CONDUIT ENTRY

240 MIN - 315 MAX BEFORE LININGS PART

CENTRELINE OF 20MM D CONDUIT ENTRY

HOLE IN WALL C X D

Performance Graph

Performance

Model	Curve	Extract performance m³/h (l/s)			Watts (high)	Sound dB(A) (med) @ 3m	Amps @ 240V
		low	medium	high			
Lo-Carbon TX9WL - Wireless/Wired	1	326 (90)	562 (160)	732 (210)	27	39	0.31
Lo-Carbon TX12WL - Wireless/Wired	2	660 (185)	1355 (360)	1650 (430)	68	48	0.70

Lo-Carbon T-Series®
Roof Models

Features & Benefits

- Reduces your carbon footprint
- Extract / intake model in 2 sizes: 9" and 12"
- Long life Lo-Carbon motor lasts twice as long as other conventional motors
- Up to 70% energy saving
- Wired or Wireless fan models available
- New easy fit connector Top Socket, standard on all models

UK's No. 1 Commercial Fan

Designing ventilation systems with the fan mounted in a skylight or a flat roof is easy. With a low profile cowl, the Lo-Carbon T-Series Roof model is suitable for installation in horizontal, angled and vertical glass and for fixing plates in roofs. For vertical windows or walls in exposed areas and single and double glazing including most types of glass up to 32mm thick. Greater thicknesses can be accommodated using extended fixing rod sets. Both sizes of Vent-Axia roof plate assemblies can be fitted easily into flat roofs.

Instantaneous Shutter

With energy saving in mind, Lo-Carbon T-Series models are supplied complete with an integral, instantaneous, automatic louvre shutter concealed behind the interior grille.

It will operate on both intake and extract and at any angle of mounting. The shutter is electronically controlled by an actuator with a damped action giving quiet operation during instant opening and closing.

When the ventilating unit is used with a Lo-Carbon T-Series controller, the shutter can be set open with the fan motor switched off to provide natural ventilation without the security risk of an open window.

Top Socket

A connector Top Socket is now standard on all T-Series fans. Allowing fast and trouble-free mains connection.

Electrical

Motor purpose-designed. Suitable for running at any angle. Quiet running, enclosed. Suitable for operation in ambient temperatures from -40°C to +50°C.

Fitted with self resetting Standard Thermal Overload Protection (S.T.O.P.).

Supply voltage 220-240V/1/50Hz.

Models

Wired Model	Stock Ref
9" Roof	456168
12" Roof	456176

Wireless Model	Stock Ref
9" Roof	456172
12" Roof	456180

Controllers	Stock Ref
Wireless	455874
Wired	455873

Dimensions (mm)

Size Dim.	9 in	12 in
A	136	171
B	150	177
C	304	381
D	302	378
E	54	54
FØ	400	500
Fixing Hole	260	337
Weight kg	6.22	9.28

Controller (W x H x D) 97 x 99 x 32
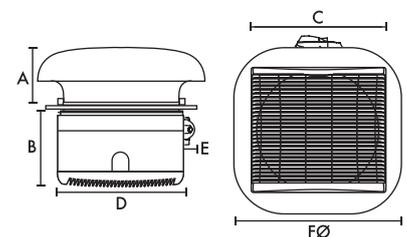
Performance Graph

Performance

Model	Curve	Extract performance m³/h (l/s)			Watts (high)	Sound dB(A) (med) @ 3m	Amps @ 240V
		low	medium	high			
Lo-Carbon TX9RF - Wireless/Wired	1	313 (85)	562 (155)	693 (190)	27	40	0.34
Lo-Carbon TX12RF - Wireless/Wired	2	518 (143)	1017 (282)	1194 (330)	67	48	0.69

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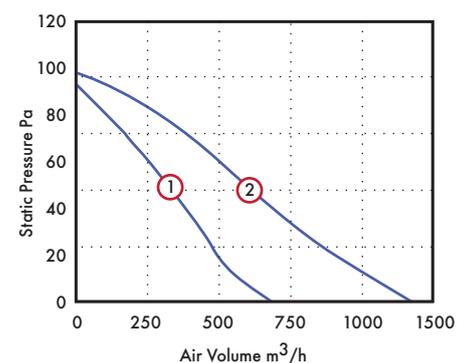
Lo-Carbon
T-Series®
Panel Models

Features & Benefits

- Reduces your carbon footprint
- Extract / intake model in 2 sizes: 9" and 12"
- Long life Lo-Carbon motor last twice as long as other conventional motors
- Up to 70% energy saving
- Wired or Wireless fan models available
- New easy fit connector Top Socket, standard on all models

UK's No. 1 Commercial Fan

Lo-Carbon T-Series panel/ceiling models are suitable for mounting at any angle in internal partitions, ceilings, ducts and, with louvre grilles, through external walls. When installed only the louvre grille is visible.

Instantaneous Shutter

With energy saving in mind, Lo-Carbon T-Series models are supplied complete with an integral instantaneous automatic louvre shutter concealed behind the interior grille. With a Lo-Carbon T-Series Controller the fan will operate on both extract and intake, suitable for any angle of mounting. When the ventilating unit is used with a Lo-Carbon T-Series controller, the shutter can be set open with the fan motor switched off to provide natural ventilation without the security risk of an open window.

Wireless Control

Every Lo-Carbon T-Series Wireless FM Controller uses unique digital signals to ensure trouble free operation. The controller will transmit through walls and floors allowing complete flexibility of design to control fans up to 30m away.

Top Socket

A connector Top Socket is now standard on all T-Series fans. Allowing fast and trouble-free mains connection.

Electrical

Suitable for operation in ambient temperatures from -40°C to +50°C.

Fitted with self resetting Standard Thermal Overload Protection (S.T.O.P).

Supply voltage: 220-240V/1/50Hz.

Easy Cleaning

Integrated component design allows all parts to be dismantled for cleaning without the use of specialist tools.

Models

Wired	Stock Ref
9" Panel	456167
12" Panel	456175

Wireless	Stock Ref
9" Panel	456171
12" Panel	456179

Controllers	Stock Ref
Wireless	455874
Wired	455873

Dimensions (mm)

Size	9 in	12 in	Size	9 in	12 in
A	391	470	J	345	422
B	388	467	K	19	19
C	129	152	L	22	22
D	39	41	M	180	180
E	302	378	N	309	386
F	304	381	O	326	402
GØ	255	334	P	126	164
HØ	247	325	Q	55	55
Weight kg: 9mm - 5.13, 12mm - 7.44					

Controller (W x H x D) 97 x 99 x 32
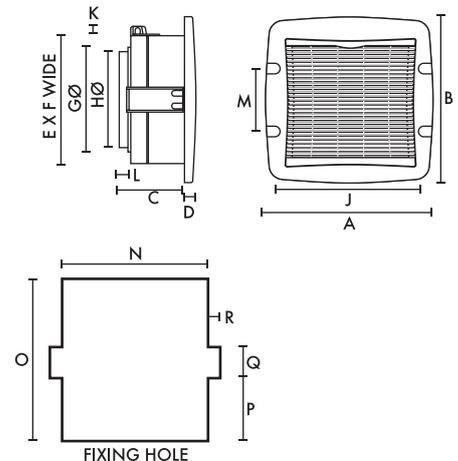
FIXING HOLE

Performance

Model	Curve	Extract performance m³/h (l/s)			Watts	Sound dB(A)	Amps
		low	medium	high	(high)	(med) @ 3m	@ 240V
Lo-Carbon TX9PL - Wireless/Wired	1	357 (100)	601 (166)	799 (221)	30	41	0.33
Lo-Carbon TX12PL - Wireless/Wired	2	737 (205)	1487 (413)	1761 (490)	67	48	0.70

Performance Graph

Static Pressure Pa vs Air Volume m³/h

Vent-Axia®
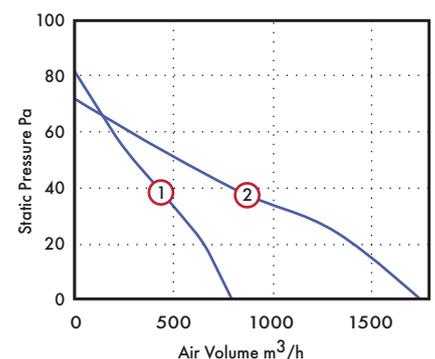
Traditional
T-Series®
Window Models

Features & Benefits

- Extract/intake fans in 4 sizes: 6", 7", 9" and 12"
- Patented electronic shutter system ensures quiet trouble free operation
- To obtain the best from your fan, use the Ecotronic controller
- Shutter open/fan off mode
- Low sound levels
- Easy fit connector Top Socket, standard on all models
- Designed for single or double glazing up to 32mm thick

UK's No. 1 Commercial Fan

T-Series range is fitted with a Vent-Axia M-Tech motor, developed to improve performance, lower running costs and maintain the T-Series' rugged reliability. A patented speed control pack is simply plugged in one of 3 positions to provide low, medium or boost speed matching the fan performance to the requirements of the installation.

Instantaneous Shutter

With energy saving in mind TX models are supplied complete with an integral instantaneous automatic louvre shutter concealed behind the interior grille. It operates on both extract and intake and at any angle of mounting.

When the ventilating unit is used with a T-Series controller, the shutter can be set open with the fan motor switched off to provide natural ventilation without the security risk of an open window.

Top Socket

A connector Top Socket is now standard on all T-Series fans. Allowing fast and trouble-free mains connection.

Easy Cleaning

Integrated component design allows all parts to be dismantled for cleaning without the use of specialist tools.

Electrical

Motor purpose-designed. Suitable for running at any angle. Quiet running. Suitable for operation in ambient temperatures from -40°C to +50°C.

Fitted with Standard Thermal Overload Protection (S.T.O.P.).

Supply voltage 220-240V/1/50Hz.

Models
Window Models

Designed for use in single or double glazing, most types of glass and materials up to 32mm thick. Greater thicknesses can be accommodated using Extended Fixing Rod Sets. Can also be mounted in a fixing plate or wall, in ducts or above ceilings.

Model	Stock Ref
TX6WW	W161110A
TX7WW	W162110A
TX9WW	W163110A
TX12WW	W164110A

Extended Fitting Rod set

Size	Stock Ref
6/7/9"	568104
12"	568106

Dimensions (mm)

Size Dim.	6 in	7 in	9 in	12 in
A	31	31	39	41
B	130	130	150	177
C	226	265	304	381
D	220	258	302	378
E	19	19	19	19
F	54	54	54	54
Fixing hole Ø	184	222	260	337
Weight kg	3.57	3.93	5.35	7.7

Performance

Model	Extract performance m³/h (l/s) low	medium	high	Watts (high)	Sound dB(A) (med) @ 3m	Amps @ 240V
TX6WW	245 (68)	315 (88)	360 (100)	30	41	0.24
TX7WW	305 (85)	395 (110)	485 (135)	40	37	0.24
TX9WW	465 (130)	685 (190)	795 (220)	85	43	0.42
TX12WW	1095 (305)	1415 (393)	1615 (449)	105	48	0.51

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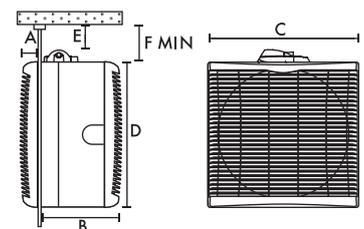
Traditional T-Series®
Wall Models

Features & Benefits

- Extract/intake model in 4 sizes: 6", 7", 9" and 12"
- Patented electronic shutter system ensures quiet, trouble free operation
- For the very best from your fan use the Ecotronic controller
- Easy fit connector Top Socket, standard on all models

UK's No. 1 Commercial Fan

Behind the grille of the Vent-Axia T-Series Wall model is a range of high performance extract/intake ventilating units designed to fit through most wall thicknesses using telescopic liners supplied.

T-Series also features a unique speed control pack which enables high, medium or low speed to be preset to suit room size or required duty.

T-Series controllers may be used with this model to obtain a choice of speeds, reversible airflow direction and automatic sensor operation. The Vent-Axia Ecotronic controller gives even greater running economy with its minimum speed setting and 'E' mode.

Top Socket

A connector Top Socket is now standard on all T-Series fans. Allowing fast and trouble-free mains connection.

Shutter

TX models are supplied complete with an integral instantaneous automatic louvre shutter which will operate on both intake and extract and at any angle of mounting.

When the ventilating unit is used with a T-Series controller, the shutter can be set open with the fan motor switched off to provide natural ventilation without the security risk of an open window.

Electrical

Motor purpose-designed. Suitable for running at any angle. Quiet running, enclosed. Suitable for operation in ambient temperatures from -40°C to +50°C.

Fitted with Standard Thermal Overload Protection (S.T.O.P.).

Supply voltage 220-240V/1/50Hz.

Models
Wall Models

Designed to fit into most double brick walls using the telescopic liners, supplied. Additional liners are available to accommodate exceptionally brick walls.

Model	Stock Ref
TX6WL	W161510A
TX7WL	W162510A
TX9WL	W163510A
TX12WL	W164510A

Wall Liner Section

Size	Stock Ref
6"	460094
7"	460095
9"	460096
12"	460086

Dimensions (mm)

Size Dim.	6 in	7 in	9 in	12 in
A	310	352	391	470
B	303	345	388	467
C	290	330	365	442
D	290	330	375	450
E	104	124	143	182
F	25	25	25	25
Weight kg	5.54	6.13	7.77	10.86

Performance

| Model | Extract performance m³/h (l/s) | | | Watts | Sound dB(A) | Amps |
	low	medium	high	(high)	(med) @ 3m	@ 240V
TX6WL	270 (75)	350 (97)	395 (110)	40	43	0.24
TX7WL	335 (93)	435 (120)	530 (147)	40	39	0.24
TX9WL	515 (143)	755 (210)	870 (241)	85	43	0.42
TX12WL	1185 (329)	1530 (425)	1745 (485)	105	49	0.51

CENTRELINE OF 20MM DIA. CONDUIT ENTRY
240 MIN - 315 MAX BEFORE LININGS PART

CENTRELINE OF 20MM D CONDUIT ENTRY

HOLE IN WALL C X D
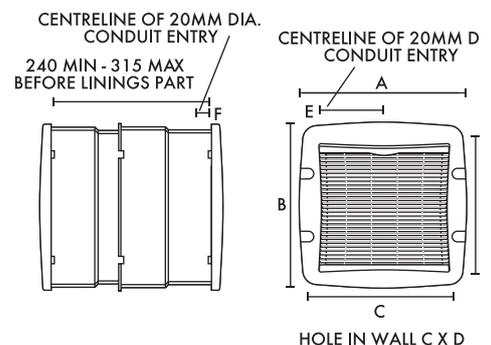
Traditional
T-Series®
Roof Models

Features & Benefits

- Extract/intake model in 4 sizes:
  6", 7", 9" and 12"
- Patented electronic shutter system ensures quiet, trouble free operation
- For the very best from your fan use the Ecotronic controller
- T-Series controllers and sensors save energy by only switching on the units when you want them to, either manually or automatically
- Easy fit connector Top Socket, standard on all models

UK's No. 1 Commercial Fan

With a low profile cowl, the T-Series Roof model is suitable for installation in horizontal, angled and vertical glass and for fixing plates in roofs. For vertical windows or walls in exposed areas and single or double glazing including most types of glass up to 32mm thick. Greater thicknesses can be accommodated using extended fixing rod sets. All four sizes of Vent-Axia roof plate assemblies can be fitted easily into flat roofs.

T-Series features a unique speed control pack which enables high, medium or low speed to be preset to suit room size or required duty. When used with a T-Series TSC controller, the speed control pack is removed from the T-Series ventilating unit and fitted into the 3-pin socket in the back of the controller. The Vent-Axia Ecotronic controller gives even greater running economy with its minimum speed setting and 'E' mode. When using the Ecotronic controller the speed control pack remains in the fan.

Shutter

With energy saving in mind, TX models are supplied complete with an integral instantaneous automatic louvre shutter concealed behind the interior grille. It will operate on both intake and extract and at any angle of mounting.

When the ventilating unit is used with a T-Series controller, the shutter can be set open with the fan motor switched off to provide natural ventilation without the security risk of an open window.

Electrical

Motor purpose-designed. Suitable for running at any angle. Quiet running, enclosed. Suitable for operation in ambient temperatures from -40°C to +50°C.

Fitted with Standard Thermal Overload Protection (S.T.O.P.).

Supply voltage 220-240V/1/50 Hz .

Top Socket

A connector Top Socket is now standard on all T-Series fans. Allowing fast and trouble-free mains connection.

Models

Model	Stock Ref
TX6RF	W161210A
TX7RF	W162210
TX9RF	W163210A
TX12RF	W164210A

Dimensions (mm)

Size Dim.	6 in	7 in	9 in	12 in
A	100	136	136	171
B	130	130	150	177
C	226	265	304	381
D	220	258	302	378
E	54	54	54	54
F Ø	285	400	400	500
Fixing Hole Ø	184	222	260	337
Weight kg	3.96	4.89	6.22	9.28
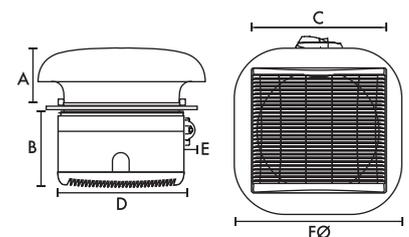
Performance

	Extract performance m³/h (l/s)			Watts	Sound dB(A)	Amps
Model	low	medium	high	(high)	(med) @ 3m	@ 240V
TX6RF	195 (55)	250 (70)	290 (80)	30	41	0.24
TX7RF	305 (85)	395 (110)	485 (135)	40	37	0.24
TX9RF	465 (130)	685 (190)	795 (220)	85	43	0.42
TX12RF	1010 (280)	1305 (362)	1485 (412)	105	48	0.51

T: 0844 856 0590

Traditional T-Series®
Panel/Ceiling Models

Features & Benefits

- Extract/intake model in 4 sizes: 6", 7", 9" and 12"
- Colour: soft tone grey
- Patented electronic shutter system ensures quiet trouble-free operation
- For the very best from your fan use the Ecotronic controller
- East fit connector Top Socket, standard on all models

UK's No. 1 Commercial Fan

Vent-Axia T-Series Panel/Ceiling models are suitable for mounting at any angle in internal partitions, ceilings, ducts and, with louvre grilles, through external walls. When installed only the louvre grille is visible. The range features a unique speed control pack which enables high, medium or low speed to be preset to suit a specific room size or required duty.

T-Series controllers may be used with this model to obtain a choice of speeds, reversible airflow direction and automatic sensor operation. When used with a controller, the speed control pack is removed from the T-Series ventilating unit and fitted into the 3-pin socket in the back of the controller. The Vent-Axia Ecotronic controller gives even greater running economy with its minimum speed setting on 'E' mode and infinitely variable speed control. For this controller the speed control pack remains in the fan.

Electrical

Suitable for operation in ambient temperatures from -40°C to +50°C.

Fitted with Standard Thermal Overload Protection (S.T.O.P).

Supply voltage: 220-240V/1/50Hz.

Top Socket

A connector Top Socket is now standard on all T-Series fans. Allowing fast and trouble-free mains connection.

Shutter

With energy saving in mind, TX models are supplied complete with an integral instantaneous automatic louvre shutter concealed behind the interior grille. It will operate on both intake and extract and at any angle of mounting.

When the ventilating unit is used with a T-Series controller, the shutter can be set open with the fan motor switched off to provide natural ventilation without the security risk of an open window.

Models

Model	Stock Ref
TX6PL	W161610A
TX7PL	W162610A
TX9PL	W163610A
TX12PL	W164610A

Dimensions (mm)

Size Dim.	6 in	7 in	9 in	12 in
A	310	352	391	470
B	303	345	388	467
C	117	117	129	152
D	32	32	39	41
E	220	258	302	378
F	226	265	304	381
GØ	180	218	255	334
HØ	171	210	247	325
J	267	306	345	422
K	19	19	19	19
L	22	22	22	22
M	180	180	180	180
N	231	270	309	386
O	244	282	326	402
P	85	104	126	164
Q	55	55	55	55
R	12	12	12	12
Weight kg	3.50	3.82	5.13	7.44

Performance

Model	Extract performance m³/h (l/s)			Watts	Sound dB(A)	Amps
	low	medium	high	(high)	(med) @ 3m	@ 240V
TX6PL	295 (81)	380 (105)	435 (120)	30	41	0.24
TX7PL	365 (101)	480 (133)	585 (162)	40	37	0.24
TX9PL	565 (157)	830 (230)	960 (267)	85	43	0.42
TX12PL	1270 (353)	1640 (456)	1885 (524)	105	44	0.51

FIXING HOLE
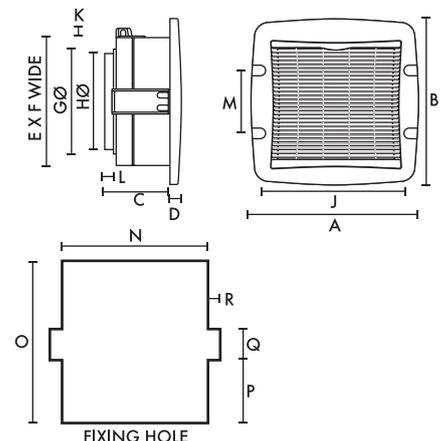
Traditional T-Series®
Darkroom Models

Features & Benefits

- Extract/intake models in 4 sizes: 6", 7", 9" and 12"
- Specially designed to provide extract/intake ventilation in darkrooms, X-ray areas, etc
- Patented electronic shutter system ensures quiet, trouble free operation
- For the very best from your fan use the Ecotronic controller
- Integrated component design allows all parts to be dismantled for cleaning without the use of specialist tools
- Easy fit connector Top Socket, standard on all models

UK's No. 1 Commercial Fan

A range designed for photographic, medical, dental and veterinarian applications - used also for opticians and other specialist applications. Most darkrooms need a minimum of ten air changes per hour for comfort and efficiency. For rooms containing heat producing equipment (eg: print glazers) a higher rate of air change may be desirable.

The Darkroom model has two cowls, the interior cowl being designed to give light protection. It can be installed in windows, partitions, external walls or roofs. Extended fixing rods for fixing thicknesses up to 370mm are supplied with the unit. Provision should be made for adequate air replacement through Vent-Axia non-vision grilles.

Shutter

With energy savings in mind TX models are supplied complete with an integral instantaneous automatic louvre shutter concealed behind the interior cowl. Operates on intake and extract at any angle of mounting.

When used with a T-Series controller, the shutter can be set open with the fan motor switched Off to provide natural ventilation without the security risk of an open window.

Top Socket

A connector Top Socket is now standard on all T-Series fans. Allowing fast and trouble-free mains connection.

Electrical

Suitable for running at any angle. Quiet running, enclosed. Fitted with Standard Thermal Overload Protection (S.T.O.P.).

Supply voltage: 220-240V/1/50Hz.

Suitable for operation in ambient temperatures from -40°C to +50°C.

Models

Model	Stock Ref
TX6DR	W161240
TX7DR	W162240A
TX9DR	W163240
TX12DR	W164240A

Dimensions (mm)

Size Dim.	6 in	7 in	9 in	12 in
A	100	136	136	171
B	196	206	229	308
C	285	400	400	500
D	220	258	302	378
E	226	265	304	381
F	19	19	19	19
Fixing Hole Ø	184	222	260	337
Weight kg	4.13	5.33	6.60	10.05

Performance

Model	Extract performance m³/h (l/s) low	medium	high	Watts (high)	Sound dB(A) (med) @ 3m	Amps @ 240V
TX6DR	200 (55)	240 (67)	265 (74)	30	43	0.24
TX7DR	330 (92)	415 (115)	530 (147)	40	42	0.24
TX9DR	455 (126)	630 (175)	725 (201)	85	45	0.42
TX12DR	870 (242)	1040 (289)	1130 (314)	100	42	0.51

T: 0844 856 0590
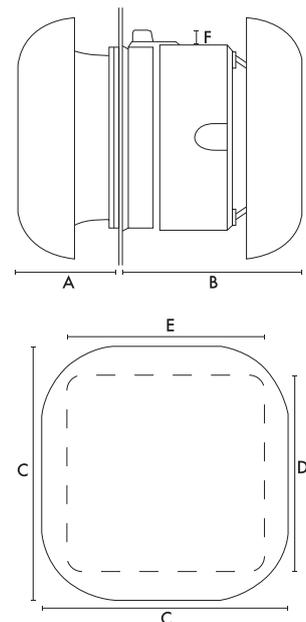
Traditional T-Series®
In-Line Models

Features & Benefits

- Extract/intake model in 3 sizes: 6", 9" and 12"
- Patented instantaneous electronic shutter system ensures quiet, trouble free operation
- For the best from your fan use the Ecotronic controller
- T-Series controllers and sensor save energy by only switching on the units when you want them to, either manually or automatically
- Easy fit connector Top Socket, standard on all models

UK's No. 1 Commercial Fan

No other range of high performance in-line duct fan offers a combination of 3 impeller diameters, reversibility, low sound level, speed control and built-in electric shutter. T-Series features a unique speed control pack which enables high, medium or low speed to be preset to suit room size or required duty. Designed for use with rigid or flexible ducting, T-Series In-Line models can be plate mounted or fixed through partitions and in ceiling voids.

T-Series controllers may be used with this model to obtain a choice of speeds, extract/intake airflow direction and automatic sensor operation. The Vent-Axia Ecotronic controller gives even greater running economy with its minimum speed setting and 'E' mode.

Top Socket

A connector Top Socket is now standard on all T-Series fans. Allowing fast and trouble-free mains connection.

Shutter

The shutter is electronically controlled by an actuator with a damped action giving quiet operation during instant opening and closing. The interlocking edges of the shutter blades provide maximum back draught protection.

When the ventilating unit is used with a T-Series controller, the shutter can be set open with the fan motor switched off to provide natural ventilation without the security risk of an open window.

Arrangements

Where ducts pass through an unheated roof void, the duct should be insulated. Horizontal ducts should fall away from the fan unit. In circumstances where an excessive amount of moisture is present, a condensation trap should be installed in the exhaust duct. The fan unit should be accessible for regular maintenance.

Electrical

Suitable for operation in ambient temperatures from -40°C to +50°C.

Fitted with Standard Thermal Overload Protection (S.T.O.P.).

Supply voltage 220-240V/1/50 Hz.

Models

Model	Stock Ref
TX6IL	W161710
TX9IL	W163710
TX12IL	W164710

For use with rigid and flexible ducting. Can be plate-mounted or fixed to partitions and in ceiling voids.

Dimensions (mm)

Size Dim.	6 in	9 in	12 in
A	75	71	200
B	175	183	337
C	45	41	45
DØ	175	300	400
E	220	302	378
F	226	304	381
Fixing Hole Ø	184	260	337

Sizes 6 & 9

Sizes 12

Performance

	Extract performance m³/h (l/s)			Watts	Sound dB(A)	Amps
Model	low	medium	high	(high)	(med) @ 3m	@ 240V
TX6IL	318 (88)	398 (110)	444 (123)	30	45	0.24
TX9IL	703 (195)	966 (268)	1050 (292)	85	47	0.42
TX12IL	1674 (465)	2000 (556)	2230 (620)	100	51	0.51
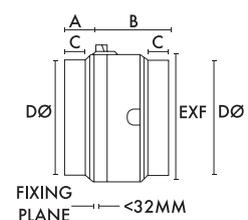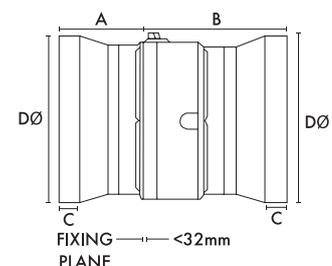
Super T-Series®
Powerful Heavy Duty Wall Fans

Features & Benefits

- 4 impeller diameters 355, 400, 450, 500mm
- Complete with telescopic wall sleeve and shutter, ready for installation
- IP54 motor and terminal box
- Smart internal grille and external shutter with flange trim
- Super quiet operation
- For the very best performance from your fan, use the Vent-Axia 25 Amp electronic controller

Powerful Ventilation

Vent-Axia's Super T-Series 355, 400, 450 and 500mm fans provide efficient, quiet powerful ventilation with performances up to 4940m³/h. Tough heavy duty internal grilles and external weather shutters ensure longevity, performance and peace of mind.

Construction

The axial fan at the heart of the Super T range is based on an integrated impeller and internal rotor motor design which produces a very compact unit. A specially designed bellmouth inlet and mounting plate ensures an excellent performance to sound level ratio.

Electrical

Single phase 220-240V 50Hz. Capacitor start and run. An IP54 terminal box is supplied with all models with conduit entry from the side of the wall liner. All motors are fitted with Standard Thermal Overload Protection (S.T.O.P.), which should be wired via the controller.

Models

Super T - Gravity shutter
When installed, only the room side aluminium fascia grille is visible. The outside is finished with an external gravity shutter and frame.

Model	Stock Ref
ST355-16-WL	165510
ST400-16-WL	166510
ST450-16-WL	167510
ST500-16-WL	168510

Super T TX - Electric shutter
Super T TX extract or intake models with powerful, quiet, smooth-operation electric shutters.

Model	Stock Ref
STX355	165710
STX400	166710
STX450	167710
STX500	168710

Super T Filtered Air Input
Super T ARX and AR filtered air replacement input unit. Consisting of a wall liner with high capacity high disposable EU4 pleated filter which fits inside the wall liner.

ARX Models
With electronically controlled integral shutter AR Models - external louvre fixed blade.

Model	Stock Ref
Units with integral shutter	
STARX355	165810
STARX450	167810
Units with louvre fixed blades	
STAR355	165910
STAR450	167910

Filtered Kitchen Extract - Super T GF
Super T GF extract unit without internal grille, but with matching stainless steel filter housing and tray kit ready for assembly on site and 50mm stainless steel framed mesh grease filter with handles.

Model	Stock Ref
STGF355	165620
STGF400	166620

Replacement Grease Filters
Super T replacement grease filters 50mm stainless steel mesh filter with handles. Supplied in packs of two.

Model	Stock Ref
355	452550
400	452551

Replacement Air Filters
High capacity EU4 pleated filter which fits inside wall liner. Supplied in packs of five.

Model	Stock Ref
355	452814
450	452815

Electronic 2.5A Controller
Provides variable motor speed control. On/Off with indication light. Infinitely variable speed slider control. Presettable minimum speed and sensor mode option: can be connected to a range of Vent-Axia sensors. Radio suppressed to BS 800. Includes electric shutter output.

Stock Ref
W10303102M

Performance

Model	Extract Performance m³/h (l/s) F.I.D.	Watts	S.C. Amps	F.L.C. Amps	Sound dB(A) @ 3m
355-16	1735 (482)	94	1.25	0.5	40
400-16	2165 (601)	110	1.4	0.56	45
450-16	3550 (986)	225	2.58	1.15	48
500-16	4940 (1372)	295	4.0	1.6	51
355-14	2150 (597)	203	2.40	0.96	56
400-14	3500 (972)	340	4.10	1.64	59

Dimensions (mm)

Impeller dia.	355	400	450	500
A	550	597	657	727
B	550	597	657	727
C	470	520	580	650
D	470	520	580	650
Weight kg	17	22	28	33

280 MIN
312 MIN

C A

D
B
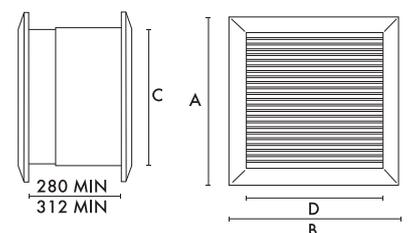
CxD SQ. HOLE THROUGH WALL

T: 0844 856 0590

Traditional Standard Range®
Window Models

Features & Benefits

- Extract / intake model in 4 sizes: 6", 7", 9" and 12"
- IPX4 Rated
- Colour: White
- Manufactured in weather-resistant polymeric materials
- For the best performance from your fan, use an Ecotronic controller
- Suitable for glass or panels up to 10mm thick

Classic Retro-Style Ventilation

This ever popular range of extract/intake ventilating units continues to satisfy the most demanding requirements for efficient ventilation. The Vent-Axia Standard Range unit is supplied without a shutter. The shutter is available as an accessory, which can be easily fitted within the unit.

Standard Range Window fans are suitable for most forms of single glazing or can be wall mounted in a Vent-Axia fixing plate. Vent-Axia's patented spigot and ring method of fixing ensures easy installation and weather proof joint. The simple integrated component design makes installation and servicing easy.

Performance

Model	Extract Performance m³/h (l/s) F.I.D.	Watts MAX.	Sound dB(A) @ 3m	Amps @ 240V
S6WW	285 (79)	32	35	0.16
S7WW	425 (118)	34	31	0.16
S9WW	710 (197)	53	39	0.24
S12WW	1560 (433)	84	42	0.36

Motor

Purpose designed enclosed motor. Suitable for running at any angle. Quiet running, enclosed.

Supply voltage 220-240V/1/50 Hz. Suitable for operation in ambient temperatures from -40° to +50°C. Fitted with Standard Thermal Overload Protection (S.T.O.P.).

Shutter Type SD/R

This extract/intake shutter fits inside the Vent-Axia unit and closes against unwanted back draughts. It can be fitted at the same time as the unit or at a later date if required.

Airflow operated for extract use, cord operated lock for intake use. For all models mounted in vertical surfaces only.

Controller

The Ecotronic controller is recommended for use with this model to provide full function control of the fan plus the option of sensor mode using a selection of electro-mechanical switches to provide automatic switching of the fan.

Alternatively, single speed extract is achieved using a normal On/Off switch.

Easy Cleaning

Integrated component design allows all parts to be dismantled for cleaning without the use of specialist tools.

Protective Grilles

Where Standard Range units are installed in low positions, finger guards provide extra protection to VDE, DIN 31001.

Models

Size	Stock Ref
S6WW	131310
S7WW	132310
S9WW	133310
S12WW	134310

Shutters

Size	Stock Ref
S6SD/R	231710
S7SD/R	232710
S9SD/R	233710
S12SD/R	234710

Dimensions (mm)

Size	6 in	7 in	9 in	12 in
A	140	147	166	201
B Ø	216	254	295	381
C	21	21	21	21
D	83	83	92	105
E (max)	10	10	10	13
Fixing hole Ø	184	222	260	337
Weight kg	2.9	3.2	4.6	7.0
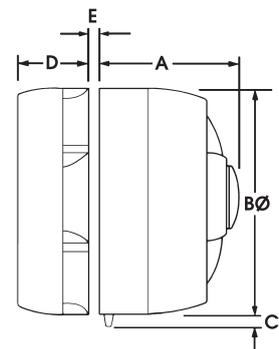
Traditional Standard Range®
Roof Models

Features & Benefits

- Extract model in 4 sizes: 6", 7", 9" and 12"
- IPX4 Rated
- Colour: White
- Wide range of sensors available
- Manufactured in weather-resistant polymeric materials
- For the best performance from your fan, use an Ecotronic controller

Classic Retro-Styled Ventilation

A versatile and robust range of roof extract ventilating units designed to satisfy the requirements of efficient ventilation in commercial and industrial applications. The simple, proven design of Standard Range makes installation and routine cleaning easy.

Featuring a low profile cowl, the unit is ready for fitting into horizontal, angled and vertical glass, fixing plates on roofs and in vertical windows or walls in exposed areas. With Vent-Axia roof plate assemblies, all four sizes can be fitted easily into flat roofs. Suitable for roof installation plus window and wall installation in exposed areas (eg: coastal positions). Vent-Axia's spigot and ring method of fixing ensures easy installation and weather proof joint. We recommend the use of sealing compound under the upper part of the unit when fitted in roofs.

Motor

Purpose designed enclosed motor. Suitable for running at any angle. Quiet running, continuous rated motor with sealed for life ball bearings.

Suitable for operation in ambient temperatures from -40°C to +50°C. Fitted with Standard Thermal Overload Protection (S.T.O.P.).

Supply voltage 220-240V/1/50Hz.

All Standard Range roof models are designed to fit directly into horizontal and sloping windows including wired cast, up to 10mm thick.

In solid roofs, install using a roof plate assembly and, if required, and eggcrate grille in the ceiling below. A suitable sealing compound should be used between the glass/roof plate and the exterior seal.

Models

Size	Stock Ref
S6RF	131410
S7RF	132410
S9RF	133410
S12RF	134410

Dimensions (mm)

Size	6 in	7 in	9 in	12 in
A	140	147	166	201
B Ø	216	254	295	381
C	21	21	21	21
D	95	108	121	146
E Ø	267	330	394	508
Fixing hole Ø	184	222	260	337
Weight kg	3.2	3.9	5.5	8.5
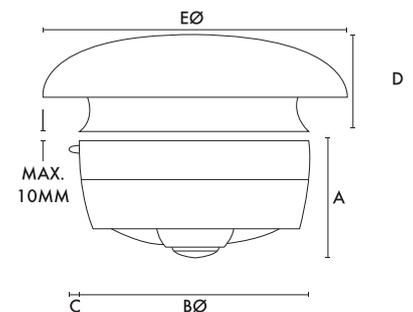
Performance

Model	Extract Performance m³/h (l/s) F.I.D.	Watts MAX.	Sound dB(A) @ 3m	Amps @ 240V
S6RF	240 (67)	32	36	0.16
S7RF	350 (97)	34	31	0.16
S9RF	625 (174)	53	39	0.24
S12RF	1130 (314)	84	42	0.36

T: 0844 856 0590

Traditional Standard Range®
Wall Models

Features & Benefits

- Extract/intake models in 4 sizes: 6", 7", 9" and 12"
- IPX4 Rated
- White fascia, wall sleeve and black external weather louvre
- Optional shutter available
- Manufactured in weather-resistant polymeric materials
- For the best performance from your fan, use an Ecotronic controller

Classic Retro-Styled Ventilation

The proven Standard Range Wall models are designed to fit flush into most double brick walls using the rigid wall liner supplied with the unit. Provision is made within the liner for conduit entry. When installed, only the ivory fascia is visible on the internal wall face. The external weather louvre fits flush to the outside. A shutter is available as an accessory which can be easily fitted within the unit.

On new building work the installation and wiring of the wall liner can be completed prior to the final installation of the unit and controller. Fully shrouded connectors on the fascia automatically connect the wiring to the motor when fitted to the wall liner.

Motor

The motor is purpose-designed. Suitable for running at any angle. Quiet running, enclosed, sealed for life ball bearings.

Supply voltage: 220-240V/1/50Hz.

Suitable for operation in ambient temperatures from -40°C to +50°C.

Fitted with Standard Thermal Overload Protection (S.T.O.P.).

Shutter
Type SD/R

This extract/intake shutter fits inside the Vent-Axia unit and closes against unwanted back draughts. It can be fitted at the same time as the unit or at a later date if required. Airflow operated for extract use, cord operated lock for intake use.

Controller

The Ecotronic controller is recommended for use with this model to give full function control of the fan including auto mode using an electro-mechanical sensor from Vent-Axia's sensor range. Alternatively, single speed extract is achieved using a normal On/Off switch.

Models

Size	Stock Ref
S6WL	131510
S7WL	132510
S9WL	133510
S12WL	134510

Shutters

Size	Stock Ref
S6SD/R	231710
S7SD/R	232710
S9SD/R	233710
S12SD/R	234710

Dimensions (mm)

Size	6 in	7 in	9 in	12 in
A	279	279	279	279
B	203	279	279	356
C	279	362	362	448
Fixing hole Ø	235	311	311	400
Weight kg	4.1	5.7	6.7	10.1

Performance

Model	Extract Performance m³/h (l/s) F.I.D.	Watts MAX.	Sound dB(A) @ 3m	Amps @ 240V
S6/WL	340 (94)	32	39	0.16
S7/WL	544 (151)	34	35	0.16
S9/WL	856 (238)	53	43	0.24
S12/WL	1767 (491)	84	46	0.36
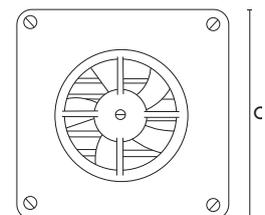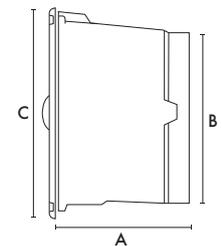
Traditional Standard Range®

Panel Models

Features & Benefits

- Extract / intake model in 4 sizes: 6", 7", 9" and 12"
- IPX4 Rated
- Built-in shutter available
- Colour: White Fascia
- Pre-wired lead for easy installation
- Manufactured in weather-resistant polymeric materials
- For the best performance from your fan, use a Ecotronic controller

Classic Retro-Styled Ventilation

A versatile range of extract/intake ventilating units designed to satisfy the most demanding requirements of efficient ventilation. Available in four sizes, the Standard Range units can be supplied without a shutter for vertical installations. The shutter is available as an accessory which can be easily fitted within the unit.

Suitable for mounting at any angle, this range may be installed in internal partitions, ceilings, ducts, and (with external louvres) through external walls.

The outer spigot may be connected directly to flexible ducting and other Vent-Axia ventilation accessories to suit individual applications. When installed, only the white fascia is visible.

Shutter

Type SD/R

This vertical extract/intake shutter fits inside the Vent-Axia unit and closes against unwanted back draughts. It can be fitted at the same time as the unit or at a later date if required.

Airflow operated for extract use, cord operated for intake use.

For all models mounted in vertical surfaces.

Motor

Purpose-designed enclosed ball bearing motor. Suitable for running at any angle. Quiet running.

Supply voltage 220-240V/1/50 Hz.

Suitable for operation in ambient temperatures from -40°C to +50°C.

Fitted with Standard Thermal Overload Protection. (S.T.O.P.).

Controller

The Ecotronic Controller is recommended for use with this model to provide full function control of the fan plus the option of sensor mode using a selection of electro-mechanical switches to provide automatic switching of the fan. Alternatively, single speed extract is achieved using a normal On/Off switch.

Model

Size	Stock Ref
S6PL	131610
S7PL	132610
S9PL	133610
S12PL	134610

Shutters

Size	Stock Ref
S6SD/R	231710
S7SD/R	232710
S9SD/R	233710
S12SD/R	234710

Dimensions (mm)

Size	6 in	7 in	9 in	12 in
A	127	137	156	197
BØ	171	210	248	324
CØ	219	250	302	387
D	226	311	311	397
E	254	337	337	419
Fixing Hole Ø	254	337	337	419
Weight kg	2.5	3.0	3.5	5.8

Performance

Model	Extract Performance m³/h (l/s) F.I.D.	Watts MAX.	Sound dB(A) @ 3m	Amps @ 240V
S6/PL	354 (98)	32	41	0.16
S7/PL	561 (156)	34	37	0.16
S9/PL	927 (258)	53	45	0.24
S12/PL	1910 (531)	84	48	0.36
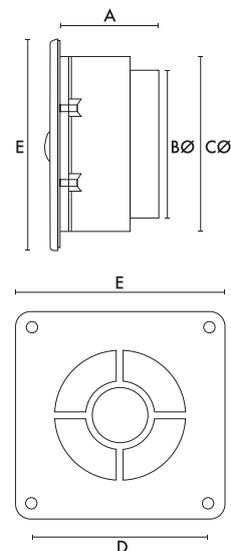
Hygiene

New Ergonomic JetDry3 Hand Dryer

The innovative new hand dryer JetDry3®, features the latest drying technology. The patented ergonomic hand dryer boasts a unique ceramic plate that absorbs water then evaporates it, as well as an impressive 10-second dry time.

A cost effective alternative to conventional hand dryers and paper towels, the ergonomic Jet Dry3® has been designed to allow users to dry their hands in a more comfortable way – horizontally, just like they wash them. At the same time users will be able to watch while the water disappears from their hands into the unique ceramic plate.

Anti-bacterial Properties

The JetDry3® also cleans up when it comes to hygiene. The combination of a built-in NSF certified anti-bacterial protection on its surface as well as a HEPA filter, eliminates over 99% of any present bacteria. By hygienically drying hands the JetDry3® will help to protect users against winter colds and flu.

Maintenance

The fast-speed hand dryer is easy to maintain and service. The absorbent ceramic plate has the capacity to take a continuous full load approximately 280 times – that's with no break in use! The ceramic plate evaporates water meaning the drip tray will need emptying less often. During normal use, water will be evaporated continuously and the ceramic plate will keep absorbing the excess water. Maintenance simply requires clearing its surface and replacement of the HEPA filter.

NEW Jet Dry3™
Automatic triple sided high speed jet hand dryer with unique absorbent plate.

- Unique ceramic water absorbing plate
- 10 second dry time
- DC Motor 400 - 750W
- Air speed 65 - 100m/s
- NSF Certified antibacterial coating
- Heater Element On/Off 300 - 450W, adjustable
- Super Filter Assembly: Antibacterial HEPA Filter + Carbon
- 322x560x185mm (WxHxD)
- Weight 12.8kg
- **IP23** Rated

Stock Ref
403606

Jet Dry®
Automatic double sided high speed jet hand dryer.

- 10 second dry time
- Lo-Carbon DC Motor, 750W
- Air speed 95m/s
- Unique blue dry zone indicator
- Antibacterial coating
- Heater Element 900-1300W, adjustable/ On/Off
- Antibacterial dust filter
- 300 x 685 x 220mm (W x H x D)
- Weight 11kg
- **IPX4** Rated

Stock Ref
447425

Tempest®
Automatic hand dryer for heavy duty applications.

- 10 second drying time
- Unique blue dry zone indicator
- Cover: Steel. Finish: porcelain enamel coating
- Insulation Earthed Class 1
- 201 x 277 x 175mm (W x H x D)
- Weight 6.6kg (packaged)
- Airflow 116m^3/h
- Heater Element 450 - 900W, adjustable/On/Off
- Infrared automatic operation
- 60 second auto shut off
- **IP23** Rated
- Motor speed adjustable
- Soft start
- GS Approved

Models	Stock Ref
Satin Stainless	439464
Polished Stainless	439463

Models	Stock Ref
Filter Assembly Pack	444959
Filter Replacement 2 pack	444960

Lo-Carbon eTempest
Automatic hand dryer for fast drying applications.

- 10 second drying time.
- Insulation Earthed Class 1
- Cover: Steel 1.2 mm thick, epoxy coated
- Dimensions: 250 x 180 x 138.5mm (W x H x D)
- Weight: 3.8Kg
- Heater element 500 Watts, adjustable/On/Off
- Unique blue dry zone indicator
- Infrared automatic operation
- Rated at 1K - 1.2 kW at 230V
- Airflow 113m^3/h
- 60 seconds auto shut off
- **IPX1** Rated
- Motor speed adjustable
- Soft start
- GS Approved

Stock Ref
444956

Tempest®
Automatic hand dryer for heavy duty applications.

- 10 second drying time
- Unique blue dry zone indicator
- Cover: Steel. Finish: porcelain enamel coating
- Insulation Earthed Class 1
- 201 x 277 x 175mm (W x H x D)
- Weight 6.6kg (packaged)
- Airflow 116m^3/h
- Heater Element 450-900W, adjustable/On/Off
- Infrared automatic operation
- 60 second auto shut off
- **IP23** Rated
- Motor speed adjustable
- Soft start
- GS Approved

Stock Ref
437231

Vent-Axia

Ultradry® SX
Automatic 'no-touch', vandal resistant hand and face dryer for offices, shops, restaurants, pubs, clubs and hospitals. Fast drying feature.

- Cover: LM24 pressure die cast aluminium
- Finish: epoxy/polyester powder coating
- Motor: 5,500rpm, suppressed brushed motor
- Insulation Earthed Class 1
- 264 x 275 x 177mm (H x W x D)
- Weight: 6.0kg (6.6kg packed)
- Sound level: 79 dB(A) at 1m
- Rated at: 2.4kW at 230V
- BEAB Approved
- **IP24** Rated

Stock Ref
20101800SX

Powerdry® SX
Push button operated hand and face dryer for heavy duty applications in public lavatories, factories, railway stations and schools, etc. Fast drying feature.

- Cover: LM24 pressure die cast aluminium Finish: epoxy/polyester powder coating
- Motor: 5,500rpm, suppressed brushed motor
- Insulation: Earthed, Class I
- 264 x 275 x 177mm (H x W x D)
- Weight: 6.0kg (6.6kg packed)
- Sound level: 79 dB(A) at 1m
- Rated at: 2.4kW at 230V
- BEAB Approved
- Supply voltage:220-240V/1/50-60Hz
- **IP24** Rated

Stock Ref
20101600SX

Dryline +
Automatic 'no-touch' operation compact hand dryer. Suitable for smaller office washrooms, kitchens and clinics.

- Cover: ABS. Motor: 2450rpm shaded pole induction
- Double insulated appliance
- BEAB approved
- 280 x 275 x 143mm (H x W x D)
- Weight: 2.97kg (3.3kg packed)
- Sound level: 46 dB(A) at 3m
- Rated at: 1.7kW at 230V
- Supply voltage: 220-240V/1/50Hz
- **IP21** Rated

Stock Ref
453915

Ultradry® SX Stainless Steel
Automatic 'no-touch' hand dryer specially designed for high performance hand drying in food preparation areas and hospital applications and eminently suitable for prestige installations. Fast drying feature.

- Cover: Satin polished stainless steel
- 264 x 275 x 177mm (H x W x D)
- Weight: 6.0kg (6.6kg packed)
- Sound level: 79 dB(A) at 1m
- Rated at: 2.4kW at 230V
- BEAB Approved
- **IP24** Rated

Stock Ref
20101840SX

Prepdry-Stainless Steel
Designed for food preparation areas and hospital applications where the highest levels of hygiene have to be observed. Automatic 'no-touch' hand dryer.

- Cover: Satin polished stainless steel
- Motor: External Rotor Brushless Motor 2700 rpm
- Insulation Earthed Class 1
- 280 x 270 x 148mm (H x W x D)
- Weight: 4.0kg (4.5kg packed)
- Sound level: 65 dB(A) at 1m
- Rated at: 2.0 kW at 240V
- Supply voltage: 220-240V/1/50Hz
- BEAB Approved
- **IP24** Rated

Stock Ref
20101440

Professional E®
Automatic 'no-touch' hand dryer for smaller office washrooms, kitchens and clinics.

- Cover and base: high gloss, fire retardant ABS/polycarbonate alloy
- Motor: 2700rpm external rotor, brushless motor
- Double insulated appliance
- 262 x 261 x 141mm (H x W x D)
- Weight: 3.09kg (3.52kg packed)
- Sound level: 65 dB(A) at 1m
- Rated at: 2.0 kW at 240V
- BEAB Approved
- Supply voltage: 220-240V/1/50Hz
- **IP24** Rated

Stock Ref
20101402

Vent-Axia

Turbodry® White Auto

Automatic hand & face dryer for heavy duty applications where a robust secure design is required.

- Cover: Steel. Finish porcelain enamel coating
- Insulation Earthed Class 1
- 248 x 284 x 202mm (H x W x D)
- Weight 7.5kg
- Sound level 70 dB(A) @1m
- Rated at 2.4kW @ 230 V
- GS Approved
- Unique blue dry zone indicator
- **IP23** Rated

Stock Ref
435427

Turbodry® White Manual

Push button hand & face dryer for heavy duty applications where a robust secure design is required.

- Cover: Steel. Finish: porcelain enamel coating
- Insulation Earthed Class 1
- 248 x 284 x 202mm (H x W x D)
- Weight 7.5kg
- Sound level 70 dB(A) @1m
- Rated at 2.4kW @ 230 V
- GS Approved
- Unique blue dry zone indicator
- **IP23** Rated

Stock Ref
435424

Turbodry® Chrome Auto

Automatic hand & face dryer for heavy duty applications where a robust secure design is required.

- Cover: Steel. Chrome
- Insulation Earthed Class 1
- 248 x 284 x 202mm (H x W x D)
- Weight 7.5kg
- Sound level 70 dB(A) @1m
- Rated at 2.4kW @ 230 V
- GS Approved
- Unique blue dry zone indicator
- **IP23** Rated

Stock Ref
435430

Easy Dry Range

An economical ABS or Metal covered automatic dryer, designed for use in applications where good performance linked with price sensitivity is of paramount importance.

- 2500 - 4200rpm induction motor
- Insulation Earthed Class 1
- 225 x 275 x 160mm (H x W x D)
- Weight: ABS Models - 3.3kg (3.65kg packed), Metal Models - 4.7kg (5.5kg packed)
- Sound levels: 54 dB(A) at 1m
- Rated: 1.0kW, 1.5kW or 2kW at 240V
- Supply voltage: 220-240V/1/50Hz
- GS Approved
- **IP22** Rated

Models	RPM	Stock Ref
1.0kW ABS	2500	427935
1.5kW ABS	2500	436297
1.5kW+Metal	2500	431515
2.0kW+Metal	4200	427936

Insect Killers

Portable Insect Killer
- High efficiency long life (50,000 hrs) LED bulbs for attracting insects
- Power: 5.5W
- Coverage: 50m²
- ABS fire proof plastic for high safety
- Micro switch for high safety
- Extract fan for high efficiency
- Includes brush for cleaning and maintenance
- Approved to EN60335-2-59 CE/GS/ROHS

Stock Ref
446877

IK50
- Power: 2x8W
- Coverage: 50m²
- Durable ABS fire proof plastic on side panels
- Large removable collection tray for easy cleaning
- High quality aluminium, easy to clean. Crack, fade, scratch and oil resistant
- Fully protected outer mesh
- Energy efficient UV-A lamp
- Wall mountable, suspending or free standing
- Approved to EN60335-2-59 CE/GS/ROHS/REACH/PAH(TUV)

Stock Ref
446878

IK80
- Power: 2x10W
- Coverage: 80m²
- Durable ABS fire proof plastic on side panels
- Large removable collection tray for easy cleaning
- High quality aluminium, crack, fade, scratch and oil resistant
- Fully protected outer mesh
- Energy efficient UV-A lamp
- Wall mountable, suspending or free standing
- Approved to EN60335-2 59 CE/GS/ROHS/REACH/PAH(TUV)

Stock Ref
446879

IK150
- Power: 2x20W
- Coverage: 150m²
- Durable ABS fire proof plastic on side panels
- Large removable collection tray for easy cleaning
- High quality aluminium, easy to clean. Crack, fade, scratch and oil resistant
- Fully protected outer mesh
- Energy efficient UV-A lamp
- Wall mountable, suspending or free standing
- Approved to EN60335-2 59 CE/GS/ROHS/REACH/PAH(TUV)

Stock Ref
446880

| Model	Stock Ref	Size	Weight	Coverage	Watts	Spare Bulbs Stock Ref
Portable Insect Killer	446877	200 x 75 x 210mm	0.7kg	50m²	5.5	-
IK50	446878	340 x 100 x 260mm	1.83kg	50m²	2 x 8	446937
IK80	446879	388 x 100 x 310mm	2.6kg	80m²	2 x 10	446938
IK150	446880	646 x 100 x 360mm	3.60kg	150m²	2 x 20	446939

Cooling

12" Wall Fan

With 3 speeds and oscillation, this quiet fan comes with an infra-red remote control sensor, making it ideal for wall fixing applications.

Vent-Axia

Cooling
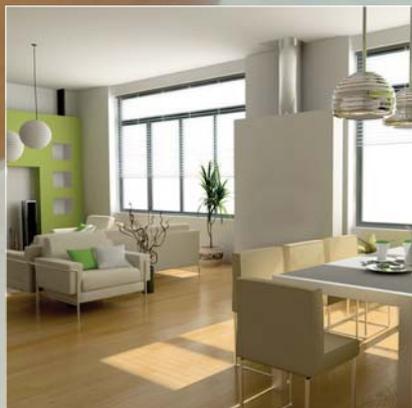
Jupiter
De-Stratification Unit

Features & Benefits

- Available in two sizes
- Speed controllable
- High velocity fans
- Supplied with a grey coated finish - other colours available to special order
- Available with built-in thermostat

Air Movement Fans

The Vent-Axia Jupiter range of de-stratification units is based on direct drive axial fans, housed in a neat and sturdy casing complete with eyebolts for suspension from chains or steel wires. Ideal for applications where the proposed mounting height requires higher velocity fans or where open bladed ceiling fans are considered unsuitable. Jupiter fans can be used in stores, warehouses, factories, workshops, as well as many other industrial applications. The unit provides effective and positive air movement to improve the working environment, particularly during summer months. In addition Jupiter fans can be used during the winter to re-circulate hot air from ceilings and roofs down to living and working areas.

Electrical

Supply voltage 220-240V/1/50Hz. Direct drive axials with speed controllable motors. The motor hub and impeller are statically and dynamically balanced for smooth operation and optimum performance. Class F insulation, suitable for operating in atmospheres of up to 95% RH and ambient temperature of up to +60°C.

General Installation

For cooling effect circulation of air is required in any given area. As a guide, mount Jupiter fans 4.5-6m apart, in tropical climates 3m apart. Fans should be mounted so that they do not interfere with lighting installations in any way. Mount fans away from walls or pillars where possible to avoid obstruction of airflow.

Heat Saving

Heat savings are largely dependent on the difference between the roof level and the working level temperatures, the ventilation rate and the geographical position.

Models

Model	Stock Ref
NJUP315	457485
NJUP315CTS	457486
NJUP400	457487
NJUP400CTS	457488

Accessories

Speed Controller
Stock Ref
RTRE20

ThermoSwitch
Stock Ref
563502

Suspension Pack
Stock Ref
457490

Dimensions (mm)

Size	A	B	C	D	Weight
315	500	380	200	84	11 kg
400	620	490	200	93	16 kg

AIRFLOW
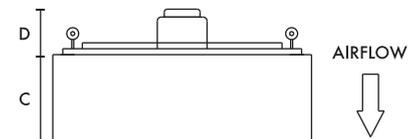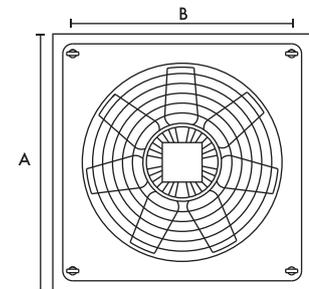
Performance

Models	Duty		Speed	dB(A)	220/240V/50Hz/1Ph			Max Mounting Height	
	CFM	m³/s	RPM	@3m	kW	FLC	SC	Feet	metres
NJUP315/CTS	1290	0.610	1380	45	0.15	0.70	2.50	44	13.4
NJUP400/CTS	3000	1.415	1320	51	0.35	1.60	5.50	72	22.0

T: 0844 856 0590

Vent-Axia
Hi-Line Plus®
Ceiling Sweep Fans

Vent-Axia®
Cooling

Features & Benefits

- Suitable for winter De-stratification applications or summer cooling
- Three sweep diameters: 900mm, 1200mm, and 1400mm
- Two down rod lengths included
- Easy to install
- Quiet running
- Can be installed for either upward or downward airflow
- Reversible electronic controller available

De-stratification Fans

Hi-Line Plus ceiling fans can be used in offices, stores, shops, foyers, schools, hospitals, kitchens, restaurants and many industrial applications such as warehouses, factories, tanneries, and workshops. Hi-Line Plus fans will provide effective and positive air movement to improve the working environment particularly during Summer months. In addition, Hi-Line Plus fans can be used during the Winter to re-circulate hot air from ceilings and roofs down to living and working areas thus helping to conserve energy.

An infinitely variable speed controller is available for use with one or a combination of models up to 5 units. Alternatively, Hi-Line Plus fans may be wired directly to a normal On/Off switch. For maximum benefit, good ventilation is vital, we advise that Hi-Line Plus fans are used in conjunction with Vent-Axia T-Series or Standard Range ventilation units.

Hi-Line Plus blades are produced from sheet steel and individually weighed to produce matched sets.

Motor

The motor is totally enclosed, capacitor start and run. Suitable for temperatures up to +40°C. Supply Voltage 220-240V/1/50Hz.

Fan Selection

For energy conservation fan selection is dependent upon area and mounting height. Estimate the height at which the fan can be mounted and then calculate the relevant fan size from the table below. Move to meet the diagonal line and then read down to find out how much floor area per fan is suitable.

Down Rods

The Hi-Line Plus fans include both a long and short down rod packaged as standard. The total drop length of the short down rod including motor is 360mm. The total drop length of the long down rod including motor is 610mm.
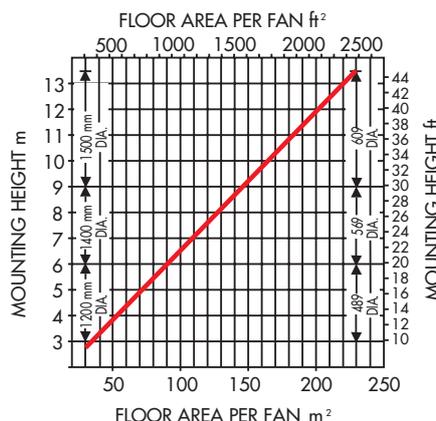
Models

Model	Stock Ref
HL 90	428049
HL 120	428050
HL 140	428051

Ceiling Fan Controller

SAC5 Reversible Controller

The Vent-Axia ceiling fan controller adds extra flexibility to all Hi-Line Plus installations. Fan speeds can be selected to suit varying conditions. This is of particular benefit where mounting height is low. The controller is designed to be used with a single fan or up to 5 Hi-Line fans.

The controller is infinitely variable, has solid state components, an insulated spindle, white cover plate and can be flush or surface mounted. Suitable for commercial environments.

Hi-Line Plus fans should be used only with a Vent-Axia ceiling fan controller or an On/Off switch.

Supply Voltage **220-240V/1/50Hz.**
Stock Ref
428238

For completely silent running we recommend the use of a 5 step transformer. Suitable for up to 9 ceiling sweep fans.
Stock Ref
10314103

FLOOR AREA PER FAN ft²

Performance

Model	Sweep dia.	Colour	Air displacement m³/h	Max. Watts	Amps @240V
HL 90	900 mm	White	8100	60	0.27
HL 120	1200 mm	White	12600	60	0.27
HL 140	1400 mm	White	15000	60	0.27

Weight approximately 7kg.

Portable Air Conditioner

Features & Benefits

- **Environmentally friendly, R410A refrigerant**
- **Does not require specialist installation**
- **Built-in 24 hour timer**
- **Effective cooling for homes and offices**
- **Double insulated cable with moulded UK plug**

Compact Cooling

Portable Air Conditioning units from Vent-Axia provide mobile comfort air-conditioning, dehumidifying or heating anywhere, anytime. Simply plug in and switch On. Perfect for domestic and light commercial use such as offices, shops and reception areas where permanently installed air conditioning systems may be too inflexible and expensive.

Model

3 in 1 Portable Air Conditioner

The 3 in 1 unit is a floor standing portable air conditioner, which is self contained. Does not require a separate outdoor unit or specialist installation.

- 3 in 1 - choose from cooling, dehumidifying and fan only options
- 16°C-30°C temperature setting
- 24 hour timer
- Micro-processor control
- R410A CFC free refrigerant
- 12,000 btu/h cooling
- Double insulated cable with moulded UK plug

Stock Ref
448919

Specifications

Model	3 in 1
Cooling capacity kW (btu/hr)	3.46 (12,000)
Dehumidification - litres/hr	0.95
Condensate disposal	Tank or Hose
Power Input - Watts	1340
Power supply - via 13 Amp plug & socket	230V, 1ph, 50Hz
Dimensions - (HxWxD) mm	765 x 345 x 300
Flexible hose length - mm/diameter - mm	1500/150
Refrigerant	R410A

T: 0844 856 0590

12" Wall Fan

Quiet motor operation, 3 speeds with oscillation and free neck. Ideal for wall fixing, 8 hour On/Off timer. Infra-red remote control sensor, double insulated cable with moulded UK plug.

Stock Ref
427583

Box Fan

Quiet motor operation, floor standing model, 3 speed options. 360° louvre rotating air circulation, upward or downward tilt adjustment. Double insulated cable with moulded UK plug.

Stock Ref
427584

Electric Heating

Vent-Axia heating is ideal for residential or commercial applications. So whether it's a bedroom or hallway, office or shop, we can provide the solution.

The simplicity of installing electric heating, particularly in high rise apartments means it is the natural choice for your project.

Comfort Heating products with innovative charge and zone control features can provide energy savings for the occupier and property owner, without compromising comfort in the home. This, coupled with low capital outlay ensures that Vent-Axia are able to offer a cost effective heating solution for both parties.

New Generation Heating from Vent-Axia

With a slim, stylish design our Opal Aluminium Radiator range offers households attractive, energy efficient comfort. Featuring an advanced digitally controlled thermostat, the Opal range gives you one of the most cost effective and energy efficient electric heating systems available.

Vent-Axia
Heating Range

bluethermal™

Underfloor Heating

Bluethermal™ Mat
Thin twin conductor heating mat

Renovating with Heating Mats

Minimum floor thickness can be important in renovation processes in order to avoid extra work on doors and thresholds. For these projects our Bluethermal™ Mat range is the ideal product. The heating mat consists of a thin twin conductor heating cable attached to an adhesive flexible glass fibre net. The thin heating cable has a total thickness of only 4mm, is delivered with a 2.5m cold lead and has a width of 0.5m.

The 100W/m² mat can be installed on any type of levelled and stable sub floor, and can also be used under parquet or other wooden floor coverings. The 150W/m² must be installed on a non-combustible levelled and stable sub floor. With all our products we recommend the use of a thermostat with a temperature limiting function such as our Bluethermal™ Thermostatic Controller.

Construction:

- Solid resistance wires
- FEP insulation
- Solid copper earth wire
- Fibre-glass net
- PVC outer jacket
- Aluminium sheath
- Total thickness is 4mm
- Width 0.5m (19.7")

Technical data:

- Area load 100 or 150W/m² (9.3 or 14.0W/sq.ft.)
- Loads from 100W to 180W
- Max. continuously operating temperature outer jacket: 65°C
- Tolerance on conductor resistance: -5 / + 10 %
- Rated voltage: 230V

Installation Detail
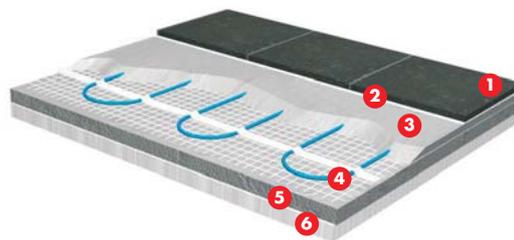
1. Tiles/floor covering
2. Tile adhesive
3. Thin screed/slab
4. Bluethermal™ Mat
5. Insulation
6. Non combustible sub floor

Performance Guide

Stock Ref	Model	Mat Area (m²)	Output (W)	Mat Length x Width (m)	Element Nom. Resistance
446175	VAUFHM 100	1.0	100	2 x 0.5	529.0
446176	VAUFHM 100	1.5	150	3 x 0.5	352.7
446177	VAUFHM 100	2.0	200	4 x 0.5	264.5
446178	VAUFHM 100	2.5	250	5 x 0.5	211.6
446179	VAUFHM 100	3.0	300	6 x 0.5	176.3
446180	VAUFHM 100/HS	3.5	350	7 x 0.5	151.1
446181	VAUFHM 100/HS	4.0	400	8 x 0.5	132.3
446182	VAUFHM 100/HS	5.0	500	10 x 0.5	105.8
446183	VAUFHM 100/HS	6.0	600	12 x 0.5	88.2
446184	VAUFHM 100/HS	7.0	700	14 x 0.5	75.6
446185	VAUFHM 100/HS	8.0	800	16 x 0.5	66.1
446186	VAUFHM 100/HS	10.0	1000	20 x 0.5	52.9
446187	VAUFHM 100/HS	12.0	1200	24 x 0.5	44.1
446188	VAUFHM 150	1.0	150	2 x 0.5	352.7
446189	VAUFHM 150	1.5	225	3 x 0.5	235.1
446190	VAUFHM 150	2.0	300	4 x 0.5	176.3
446191	VAUFHM 150/HS	2.5	375	5 x 0.5	141.1
446192	VAUFHM 150/HS	3.0	450	6 x 0.5	117.6
446193	VAUFHM 150/HS	3.5	525	7 x 0.5	100.8
446194	VAUFHM 150/HS	4.0	600	8 x 0.5	88,2
446195	VAUFHM 150/HS	5.0	750	10 x 0.5	70.5
446196	VAUFHM 150/HS	6.0	900	12 x 0.5	58.8
446197	VAUFHM 150/HS	7.0	1050	14 x 0.5	50.4
446198	VAUFHM 150/HS	8.0	1200	16 x 0.5	44.1
446199	VAUFHM 150/HS	10.0	1500	20 x 0.5	35.3
446200	VAUFHM 150/HS	12.0	1800	24 x 0.5	29.4

*HS = hidden splice.   The products are delivered with a 2.5m cold lead

Bluethermal™ Cable
Twin conductor cable for direct heating

Renovation with heating cables

When renovating with our Bluethermal™ Cable range, apply the cable to a non-combustible subfloor (minimum thickness 5mm) and take into consideration the placement of permanent installations such as showers, baths, toilets, cupboards etc. Place the end seal away from potentially wet areas of the floor. See picture illustrating the placement of a free laid heating cable. Note that the cable is not crossing or touching itself, this is to provide the best possible heat conductivity to the surroundings of the cable.

The heating cable is embedded in a screed/concrete with low overall construction height. After drying and hardening, the moisture barrier/membrane can be put on top of the screed/concrete before the floor covering is installed.

Construction:

- Solid resistance wire
- XLPE insulation
- Tinned copper drain wire
- Aluminium screen
- PVC outer jacket
- Overall diameter: approx 7mm (0.3")
- Width 40 and 80cm

Technical data:

- Series resistance, element values from 300 to 3300W
- Linear load: 17W/m (5.2W/ft)
- UV resistant
- Max. cont. operating temperature outer jacket: 65°C (149°F)
- Min. bending radius: 5 x cable diameter
- Tolerance on conductor resistance: - 5 / + 10 %
- Highest system voltage: 300/500V
- Rated voltage: 230V

Installation Detail
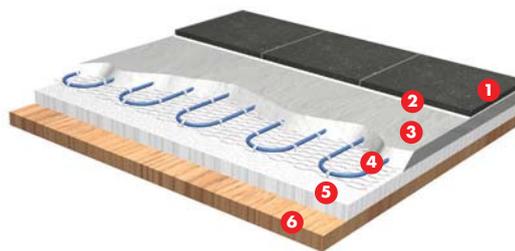
1 Ceramic tiles

2 Tile adhesive

3 40-60mm screed

4 Bluethermal™ Cable

5 Min 10mm solid subfloor.

6 Lower floor over well insulated wooden beams

Performance Guide

Stock Ref	Model	Load @ 230V (W)	Element length (m)	Element length (ft)	Element Nom Resistance	Outer diameter (mm)
446201	VAUFHC	300	17.6	58	176.30	7.0
446202	VAUFHC	400	23.5	77	132.30	7.0
446203	VAUFHC	500	29.3	96	105.80	7.0
446204	VAUFHC	600	35.2	115	88.20	7.0
446205	VAUFHC	700	41.0	135	75.60	7.0
446206	VAUFHC	840	49.7	162	63.00	7.0
446207	VAUFHC	1000	58.3	191	52.90	7.0
446208	VAUFHC	1250	72.4	237	42.30	7.0
446209	VAUFHC	1370	80.8	265	38.60	7.0
446210	VAUFHC	1700	150.0	328	31.10	7.0
446211	VAUFHC	2100	123.7	405	25.20	7.0
446212	VAUFHC	2600	154.5	507	20.30	7.0
446213	VAUFHC	3300	194.0	615	16.00	7.0

Installation Example
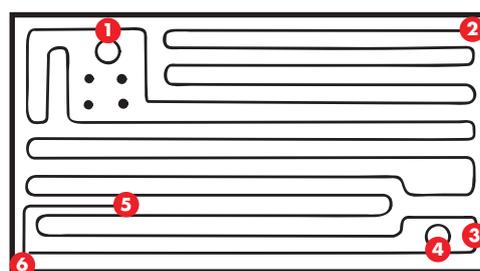
1 Cable laid behind the toilet to dry up condensation

2 End seal preferably placed in a dry zone of the floor

3 Put some distance between drain and cable to avoid excessive dryness of gully and odour problems

4 Drain/gully

5 Floor sensor

6 Transition between heating cable and cold end attachment

bluethermal™

Accessories

Bluethermal™ Thermostatic Controller

Applications

Precise and accurate temperature control is important to fully achieve the advantages of under floor heating, without using more electric energy than necessary. Heating cables in combination with an accurate thermostat is one of the most energy efficient heating systems one can have in a modern building.

The use of heating cables in combination with an accurate thermostat can provide an energy efficient and comfortable floor heating solution for most modern buildings.

Features

- Large screen with blue backlighting
- 4-event programme or constant temperature control
- Clock: 12 hours (am/pm) / 24 hours
- Day display: Monday - Sunday
- Celsius or Fahrenheit display selection
- Frost protection setting
- 5 to 40°C working range (default)

Specifications

- Accuracy: +0.5°C / 1°F
- Maximum load: 16A
- Power supply: 230V
- Dimensions: 86 x 86 x 13mm (WxHxD)
- IP21 rated

Model	Stock Ref
VAUFHTC	446174

Splicing Kit

In the unlikely event that you need to repair your heating cables, this kit provides you with the necessary joints to get your systems back running.

Model	Stock Ref
VAUFHS	446214

Recommended Application Guide

| Application	Output Max	Normal	VAUFHM 100	VAUFHM 150	VAUFHC
Entrance/Hall	150	80-150	X		X
Entrance/Porch	150	120-150		X	X
Hall/Corridor	150	80-100	X		X
Living Room	100	70-100	X		X
Kitchen	100	70-100	X		X
WC	150	120-150		X	X
Utility Room	150	120-150		X	X
Bedroom	100	70-100	X		X
Bathroom	150	120-150		X	X
Office	100	80-100	X		X
Storage Room	100	80-100	X		X
Shop	100	80-100	X		X
Workshop	100	80-100	X		X

T: 0844 856 0590

Bluethermal™ Insulation Boards

Applications

Our insulation boards limit the downward heat loss within the system directing the heat to where you need it.

Vent-Axia underfloor heating insulation boards are recommended for use with our products to increase the efficiency and minimise the warm up time of the system, saving both energy and money. They are available from 6mm to 70mm thick in packs as in the table.
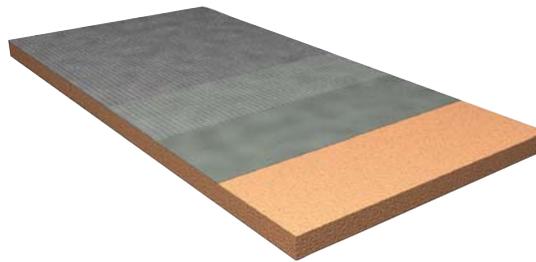
Fixing to Wooden Floors

By Adhesive - The boards must be laid onto a level floor, with a suitable flexible rapid set cementitious tile adhesive – solvent based or ready mixed adhesives MUST NOT be used.

By Mechanical Fixing - The boards (other than 6mm boards) can be installed with mechanical fixings only to flat and level timber floors using approximately 12 fixings per 1200mm x 600mm board, with suitable screws and a 35mm fixing washer under the head. Fixing kits are available as detailed in the table below.

Fixing to Concrete Floors

A suitable flexible rapid set cementitious tile adhesive should be used – solvent based adhesives or ready mixed adhesives MUST NOT be used.

Vent-Axia underfloor heating insulation boards

Stock Ref	Model	Thickness mm	Number of boards per box	Pack coverage m²	U-Value W/m²/K
447267	VAUFHIB6	6	8	5.76	4.5
447268	VAUFHIB10	10	6	4.32	2.7
447269	VAUFHIB12	12.5	6	4.32	2.16
447270	VAUFHIB20	20	6	4.32	1.35
447271	VAUFHIB30	30	4	2.88	0.9
447272	VAUFHIB40	40	3	2.16	0.67
447273	VAUFHIB50	50	2	1.44	0.54
447274	VAUFHIB60	60	2	1.44	0.45
447275	VAUFHIB70	70	2	1.44	0.39

Vent-Axia underfloor heating insulation board accessories

Stock Ref	Model	Type	To be used with Insulation board	Size
447277	VAUFHIB10S	Screws (50 per pack)	VAUFHIB6 -12	25mm (L)
447278	VAUFHIB20S	Screws (50 per pack)	VAUFHIB20	35mm (L)
447279	VAUFHIB30S	Screws (50 per pack)	VAUFHIB30	45mm (L)
447280	VAUFHIB40S	Screws (50 per pack)	VAUFHIB40	60mm (L)
447281	VAUFHIB50S	Screws (50 per pack)	VAUFHIB50	65mm (L)
447282	VAUFHIB60S	Screws (50 per pack)	VAUFHIB60	75mm (L)
447283	VAUFHIBW	Washers (50 per pack)	All	35mmØ
447276	VAUFHIBT	Tape	All	100mm (W) x 50m roll (L)

Heated Towel Rails

Features & Benefits

- IP55 rated
- Wall fixings included
- Plug and vent included
- Five year leakage warranty
- One year manufacturer's guarantee
- Heating element included
- Stylish designs
- One year surface and element warranty
- Steel construction with high quality white and chrome finishes
- Production is carried out using latest technology resulting in absolute consistency in quality
- Complete fitting set supplied
- Pressure tested to 13 bar
- Comprehensive step by step fitting instructions

Vent-Axia Heated Towel Rails quickly warm and dry towels. Their presence on the wall also adds to the overall style, temperature and comfort of the room.

This comprehensive range of white and chrome towel rails offers 10 different models across the flat, curved and designer ranges. The range offers sizes from 500 x 600mm to 500 x 1500mm available in four heat outputs of 100, 150, 250 and 400W matched to the size of the rail.

The range is complemented by an advanced controller available in white and chrome giving you control of five heat outputs. The controller also offers an eco mode ideal for use when drying your towels to ensure minimal energy use. This feature turns on the rail on full power for 30 minutes then reduces the output to the user setting for a further 90 minutes before turning the towel rail off.

Controller

- IPX4 rated
- White or chrome finish
- Five power settings
- Eco timed function
- Two year warranty

Specification

Stock Ref	Model	Description	Finish	Dimensions (W x H) / mm	Output / W
Towel Rails					
447854	VATRS100C	'S' Shape	Chrome	600 x 500	100
447855	VATRF150C	Flat	Chrome	400 x 700	150
447856	VATRF250W		White	500 x 1100	250
447857	VATRF250C		Chrome	500 x 1100	250
447858	VATRF400C		Chrome	500 x 1500	400
447859	VATRC250C	Curved	Chrome	500 x 1100	250
447860	VATRC400C		Chrome	500 x 1500	400
447861	Atacama LS	Designer	Chrome	400 x 700	150
447862	Atacama OS		Chrome	300 x 650	150
447863	Atacama SS		Chrome	500 x 1000	250
Accessories					
447864	VATRCW	Controller	White	single gang	n/a
447865	VATRCC		Chrome	single gang	n/a
447866	VATRDFK150	Replacement element / dual fuel kit	n/a	n/a	150
447867	VATRDFK250		n/a	n/a	250
447868	VATRDFK400		n/a	n/a	400

Heated Towel Rail Range

S-shaped chrome towel rail
VATRS100C
Stock Ref
447854

Flat chrome towel rail
VATRF150C
Stock Ref
447855

Flat white towel rail
VATRF250W
Stock Ref
447856

Flat chrome towel rail
VATRF250C
Stock Ref
447857

Flat chrome towel rail
VATRF400C
Stock Ref
447858

Curved chrome towel rail
VATRC250C
Stock Ref
447859

Curved chrome towel rail
VATRC400C
Stock Ref
447860

Flat designer towel rail
Atacama LS
Stock Ref
447861

Oval designer towel rail
Atacama OS
Stock Ref
447862

Flat designer towel rail
Atacama SS
Stock Ref
447863

Radiant Heaters

Features and Benefits

- Economical and easy to install
- Silent in operation
- No yearly maintenance cost
- Shortwave IR halogen lamp
- One second heat up time
- Precision heating directed where you need it
- Up to 5000 hours element life span
- IP65 rated (VARO model)

Profile

Our radiant heating product range gives the flexibility to deal with large and small unheated spaces which would be uneconomical to heat using traditional space heating.

Area such as bars, restaurants, terraces, delivery areas, warehouses and churches, are some examples where our radiant heating products can provide an economical heating solution.
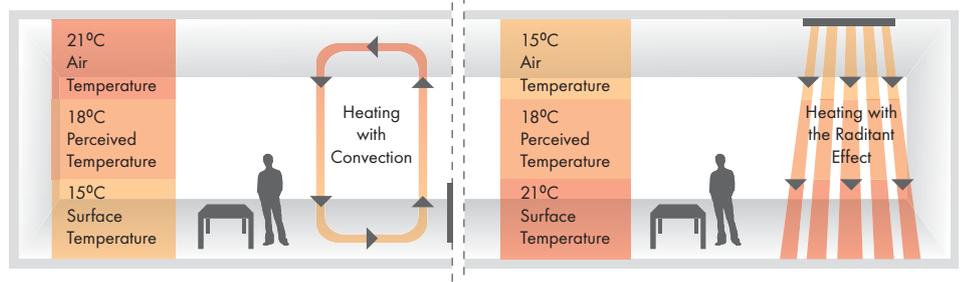
Radiant heat and its advantages

The heat we feel from the sun is called radiant heat and is part of the electromagnetic spectrum called infrared. Ultra violet and visible light also belong to the same family.

Visible light is the easiest part of this spectrum to understand, light travels in a straight line from the source is unaffected by air movement and is invisible until it hits a surface. Shadows are a good example of this and display the absence of light.
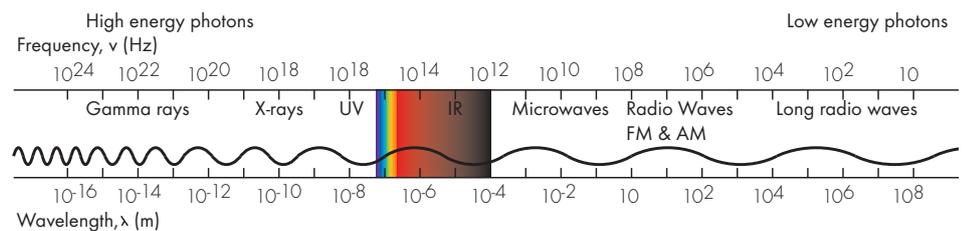
Infrared rays behave in the same way, we cannot see them but we can feel them as warmth. A good example of this is the effect created when you move from the shade into the sun, although the temperature is the same the perceived temperature when in direct sunlight is much higher. This phenomenon makes sunbathing possible during winter holidays. There are three categories of Infrared, short wave (IR A), medium wave (IR B) and long wave (IR C), the shorter the wave length the easier it travels through the air.

The advantage of using short wave infrared heating is that the rays cut through the air and are not affected by air movement, therefore only transmitting heat energy when the infrared rays collide with a solid object.

Convection Heating and Radiant Heating Comparison

Wave Spectrum

Wave Infrared Comparison

	Short Wave Infrared	Medium Wave Infrared	Long Wave Infrared
Typical Source	IR Halogen Lamp	Quartz Heat Source	Resistance
Materials	Tungsten Filament welded in a quartz tube	Filament in compound of Fe-Cr-Al in a quartz tube	Filament in compound of Fe-Cr-Al in a steel tube
Radiant efficiency	92%	60%	40%
Switch on/off times	1 second	30 second	5 minutes

Dimensions (mm)

FRONT   SIDE

TOP

Stock Ref	A	B	C
447600	83	836	112

FRONT   SIDE   TOP

Stock Ref	A	B	C
447602	235	313	486

FRONT   SIDE   TOP

Stock Ref	A	B	C
447603	376	313	496

FRONT   SIDE   TOP

Stock Ref	A	B	C
447604	515	313	496
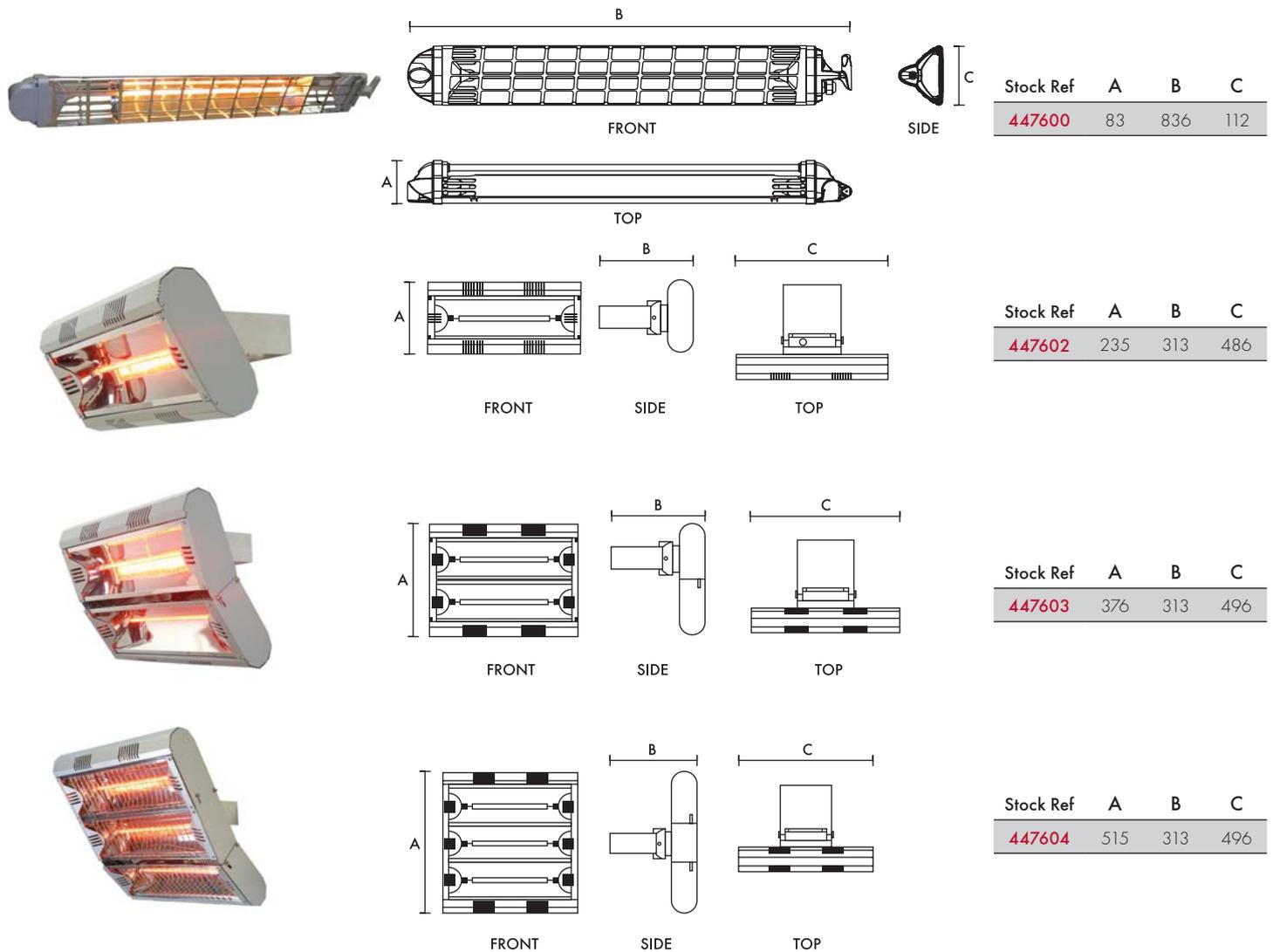
Specification

Stock Ref	Model	Weight	Voltage rating	Bulb	Luminous spectrum	Accessories	Power	Amps	Heating range	Replacement elements
447600	VARO 1800	1.0 kg	230V ~ 50-60Hz	gold x1	IR-A	wall bracket	1800W	8	8-10 m^2	VARO 447606
447602	VARI 2000	2.2kg	220-240V - 50-60Hz	gold x1	IR-A	wall bracket	2000W	9	9-12m^2	VARI 447605
447603	VARI 4000	3.0kg	220-240V - 50-60Hz	gold x1	IR-A	wall bracket	4000W	18	12-16m^2	VARI 447605
447604	VARI 6000	3.8 kg	380-415V - 50-60Hz	gold x1	IR-A	wall bracket	6000W	27	16-20m^2	VARI 447605

Opal
Aluminium Radiators

Features & Benefits

- Aluminium block with innovative curved elements
- Digitally controlled thermostat
- Dynamic fluid with high thermal inertia
- Temperature setting; Comfort, Economy, Anti-Freeze
- Seven pre-set lifestyle heating schedules, including two programmable options
- Outputs from 500W - 1500W
- Safety thermal regulator
- Ease of installation
- Safe, clean and easy to operate
- All radiators are powder coated externally in white (RAL 9016)
- No maintenance required
- These slim line radiators are 96mm deep
- All radiators are supplied with wall fixing brackets
- Each radiator is supplied with 1.6m length UK power cable

The Vent-Axia Opal range of Aluminium Radiators offers a slim stylish design with advanced digital thermostatic control giving you one of the most cost effective and energy efficient electric heating system you can have.

Popular with specifiers, contractors and home owners, the Opal range is ideal for new build and refurbishment.

Available in five sizes, our range provides a solution for any size room with outputs from 500W - 1500W.

All of the Opal Aluminium Radiators controllers are fully programmable offering closer management of energy control with resultant costs savings. This can be measured with the on board energy monitor allowing you to see how much energy you are using to heat your room. All standard units come with all the features and controls you would expect to see on an advanced heating system.

Energy Saving Electronic Control

Accurate, fast acting control is essential for reducing temperature overrun and minimising energy consumption.

The silent operating electronic thermostat is accurate to +/- 0.5°C and acts quickly to maintain consistent temperature levels.

Room Temperature ºC

— Mechanical thermostat
— Electronic thermostat
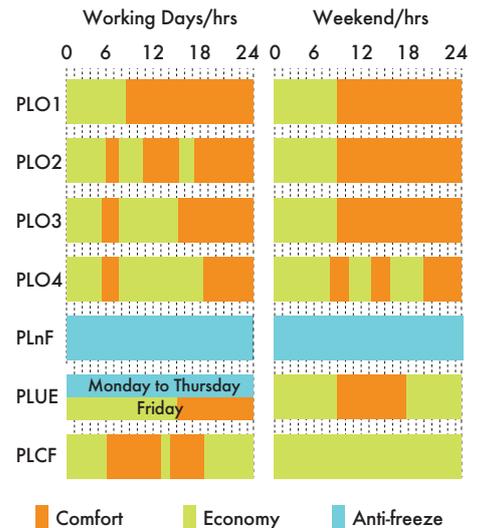■ Energy saved

Comfort Level

Time
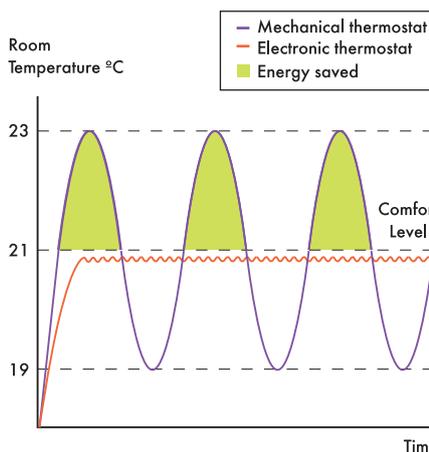
Seven Pre-set Lifestyle Heat Schedules

The heater is pre-programmed with seven plans during its manufacture, with two of them being configurable to meet your own needs. The five invariable programmes are adapted to most heating situations. The seven plans are described in the table on the right.

Heating schedule PLnF is pre-programmed for when you are away from your home for a long period of time and would like to protect it against freezing. The green economy LED will flash.

Heating schedule PLUE is designed for weekends. With this plan the heater is pre-programmed to work from Monday to Thursday in the antifreeze position. From Friday through to Sunday you can configure the programme according to your own needs.

Should the pre-set schedules not meet your heating requirements, the PLCF heating plan enables you to create your own heating schedule.

Working Days/hrs   Weekend/hrs

0 6 12 18 24   0 6 12 18 24

PLO1
PLO2
PLO3
PLO4
PLnF
PLUE   Monday to Thursday / Friday
PLCF

■ Comfort   ■ Economy   ■ Anti-freeze

Specification

Stock Ref	Model	Weight kg	Dimensions (mm) H	W	D	Output W	Amps
448469	VAAR500 500W	11	584	460	96	500	2.3
448470	VAAR750 750W	15	584	620	96	750	3.4
448471	VAAR1000 1000W	19	584	780	96	1000	4.5
448472	VAAR1250 1250W	23	584	940	96	1250	5.7
448473	VAAR1500 1500W	27	584	1100	96	1500	6.8

T: 0844 856 0590

Optimax Plus®
Panel Heater

Features & Benefits

- Integral adjustable thermostat
- Optional integral timer model
- Frost protection setting of 5°C
- BEAB approved
- Unique quick fix wall bracket
- Colour RAL 9001
- Ideal compliment to storage heaters
- Brackets for panel included

Comfort Heating

Vent-Axia's Optimax Plus Panel Heaters are perfect for smaller rooms such as bedrooms, studies, conservatories and loft conversions.

Vent-Axia's Panel Heaters offer a wide range of heat outputs from 750W to 2000W and every model is available with or without a timer. Vent-Axia Panel Heaters look as good as they perform. Stylish and slim, they occupy minimal wall space and are finished in an attractive white finish.

Vent-Axia Panel Heaters are wall mounted and connected to the permanent electrical supply via a fused connection switched outlet. Vent-Axia Panel Heaters are supplied with mounting brackets and one metre of cable connected to the bottom right hand side of the unit.

Adjustable Thermostat

All Vent-Axia Panel Heaters have a built-in adjustable thermostat offering a full temperature range, including a frost protection setting of 5°C.

For maximum safety there is a thermal cut-out on all models to prevent overheating, should the outlet grille be accidentally covered.

Models

Manual and Timer versions available.

Model	Stock Ref
VAPH 075	439034
VAPH 075T	439038
VAPH 125	439035
VAPH 125T	439039
VAPH 150	439036
VAPH 150T	439040
VAPH 200	439037
VAPH 200T	439041

Dimensions (mm)
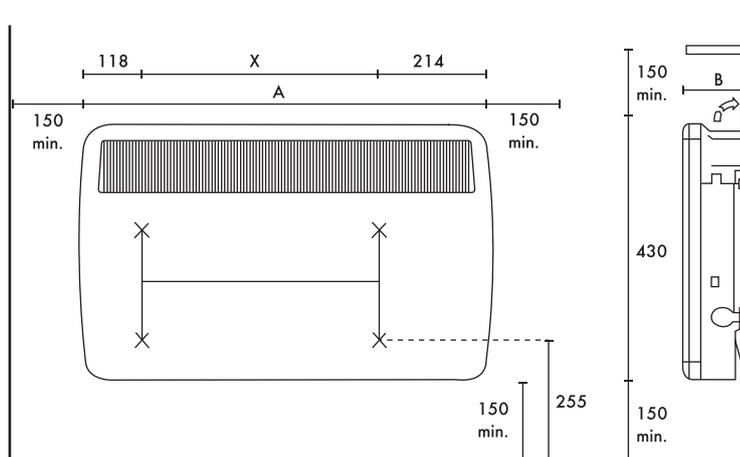
Specification

Stock Ref	Model	Output kW	A Width mm	B Depth mm	X Bracket mm	Weight kg
439034 / 439038	VAPH 075/T	0.75	620	108	288	6.2
439035 / 439039	VAPH 125/T	1.25	690	108	358	6.6
439036 / 439040	VAPH 150/T	1.5	690	108	358	6.6
439037 / 439041	VAPH 200/T	2	860	108	528	8.0

220-240V-50Hz. BEAB Approved.

Optimax Plus®
Combination
Storage Heater

Features & Benefits

- Optimised charge period offers 15% energy saving
- Reduced installation times
- Conveniently mounted controls
- Range of three heat outputs
- Colour RAL 9001
- IP20 rated
- BEAB approved

Comfort Heating

Vent-Axia Combination Storage Heaters take advantage of low tariff night-time electricity in the same way as our domestic storage heaters.

Vent-Axia Combination Heaters combine the benefit of a domestic storage heater and a convector heater in one casing. The storage heater offers comfortable heat around the clock taking advantage of low tariff electricity.

The convector heater can be switched on at any time to offer additional heat when required, or used outside the normal heating season for instant heating.

Combination Heaters require a permanent power supply for immediate convection heating when required. The storage heater section has a separate off-peak supply.

Features such as snap-on feet, simple wall fixings and quick assembly mean that new installations or replacement of existing units are completed with minimum disruption. The cable entry is located at the back of the unit on the bottom right hand side.

Automatic models incorporate an ambient thermostat which optimises the charge to suit room conditions, typically saving an additional 15% in energy costs.

Vent-Axia Combination Heaters are slim, compact and aesthetically pleasing. Their attractive neutral finish blends in with a variety of decors.

The controls are conveniently positioned on top of the heater for ease of use. Once the optimum settings are selected, no further adjustment is necessary. A separate convector heater On/Off switch is situated on the side of the casing together with a thermostat for temperature control.

Models

Combination Heaters

Model	Stock Ref
VACSH 12A	438919
VACSH 18A	438920
VACSH 24A	438921

(A = Automatic)

Dimensions (mm)
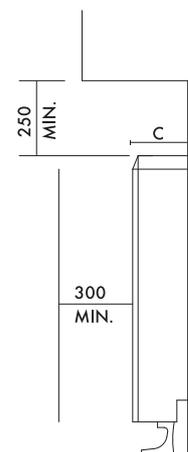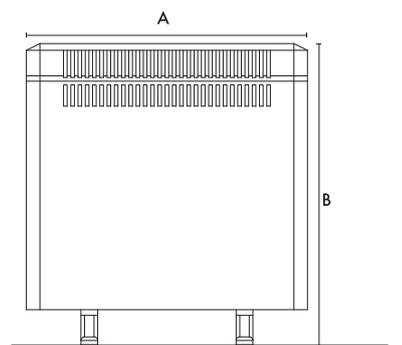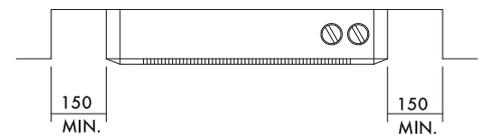
150 MIN.   150 MIN.

A

B

250 MIN.   C

300 MIN.

Specification

Stock Ref	Model	Input kW	Width (A) mm	Height (B) mm	Depth (C) mm	Weight kg	Number of Bricks
438919	VACSH 12A	1.70	540	730	185	79	8
438920	VACSH 18A	2.55	765	730	185	116	12
438921	VACSH 24A	3.40	990	730	185	152	16

220-240V-50Hz. BEAB Approved.

T: 0844 856 0590

Optimax Plus®
Storage Heater

Features & Benefits
- Perfect for offices and homes
- Optimised charge period offers 15% energy saving
- Reduced installation times
- Conveniently mounted controls
- Range of four heat outputs
- Colour RAL 9001
- IP20 rated
- BEAB approved

Comfort Heating

Vent-Axia Storage Heaters are often an economic alternative for new build or in existing properties, particularly where no other fuel source is available.

Vent-Axia Storage Heaters are simple to install, economical to run and virtually maintenance free. Ideal for use in living rooms, hallways and landings.

The range can be installed in bathrooms outside Zone 2, provided that the installation complies with IEE regulations.

Vent-Axia Storage Heaters offer comfortable warmth around the clock taking advantage of low-tariff electricity.

Ease of Installation

Simple to install wall fixings and quick assembly mean that new installations or replacement of existing units are completed with minimum disruption. The cable entry is located at the back of the unit on the bottom right hand side.

Manual models charge throughout the low-tariff period. Automatic models incorporate an ambient thermostat which optimises the charge to suit room conditions, typically saving an additional 15% in energy costs.

Vent-Axia Storage Heaters are slim, compact and aesthetically pleasing. Their attractive neutral finish blends in with furnishings.

The controls are conveniently positioned on top of the storage heater for ease of use. Once the optimum settings are selected, no further adjustment is necessary.

Models

Storage Heaters
Manual and Automatic versions available.

Model	Stock Ref
VASH 6	439355
VASH 12	439356
VASH 12A	439359
VASH 18	439357
VASH 18A	439360
VASH 24	439358
VASH 24A	439361

A=Automatic

Dimensions (mm)
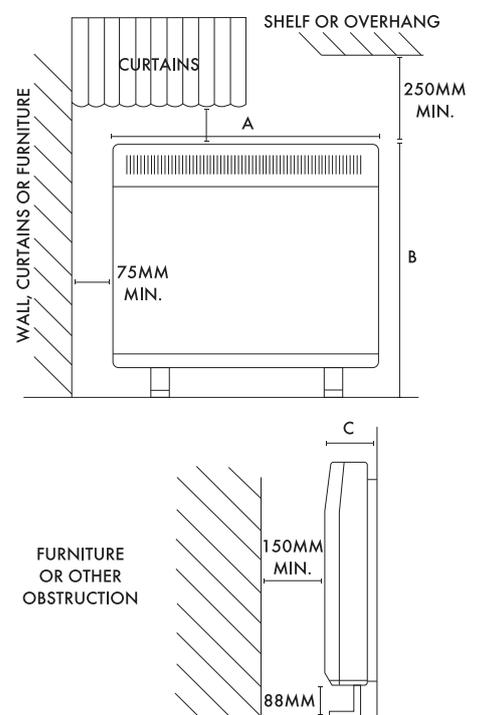
SHELF OR OVERHANG
CURTAINS
WALL, CURTAINS OR FURNITURE
250MM MIN.
A
B
75MM MIN.

C
FURNITURE OR OTHER OBSTRUCTION
150MM MIN.
88MM

Specification

Stock Ref	Model	Input kW	Width (A) mm	Height (B) mm	Depth (C) mm	Weight kg	Number of Bricks
439355	VASH 6	0.85	332	700	170	41	4
439356 / 439359	VASH 12/12A	1.70	560	700	170	77	8
439357 / 439360	VASH18/18A	2.55	788	700	170	110	12
439358 / 439361	VASH 24/24A	3.40	1016	700	170	145	16

220-240V-50Hz. BEAB Approved.

Plinth Heaters

Features & Benefits
- Ideal for where wall space is at a premium
- Fits neatly into plinths
- Finishes: W-White, B-Brown & S - Stainless Steel
- Optional thermostatic control
- 5-30°C
- Can be used with remote switch VARSU 436494
- Two heat settings 1kW & 2kW

Vent-Axia Plinth Heaters are designed for use in kitchens and bedrooms. They fit neatly into most types of fitted furniture, fascias, display units and false walls.

When installed in a corner with an adjacent cupboard to the right, a distance of at least 150mm must be maintained between the right hand end of the heater and the front of the adjacent cupboard door.

Vent-Axia Plinth Heaters are supplied with 1.5m of 1.5mm² 3 core cable, terminating on the right hand side of the unit.
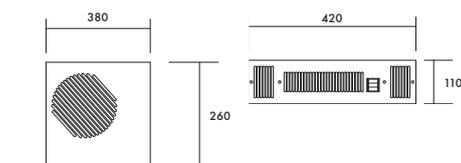
Models
Standard Models

Model	Stock Ref
VAPL2-S	459112
VAPL2-W	459113
VAPL2-B	459114

Thermostatic Models

Model	Stock Ref
VAPL2TC-S	459115
VAPL2TC-W	459116
VAPL2TC-B	459117

Dimensions (mm)

380 420 110 260

Cutout dimensions (mm) (W x H) 390 x 105
Weight 3kg

Warm Air Curtains

Features & Benefits
- Integral Switching for faster installation
- Three heat settings and fan only mode
- Models to suit single and double doorways
- Suitable for use as a high level fan heater

Vent-Axia Warmair Curtains provide a heated downflow of warm air in doorways of commercial premises such as shops, offices and schools.

The robust outer case is made from painted steel with an off white epoxy finish. Accommodating varying door widths is easily achieved by installing Warmair units 'Side by Side'.

Vent-Axia Warmair Curtains are supplied with 0.75m of 3 core cable, and mounting brackets.

Three Warmair models are available offering heat outputs & fan only :

Warmair 3 - 3 kW, 2 kW, 1 kW
Warmair 4.5 - 4.5 kW, 3 kW, 1.5 kW
Warmair 6 - 6kW,4 kW, 2 kW

Models
Warm Air Curtains

Model	Stock Ref
Warmair 3	456343
Warmair 4.5	456344
Warmair 6	456345

Remote Switch
Remote Switch unit to control warm air units. Switch allows for fan only & three heat settings.

Model	Stock Ref
VARSU	436494

Specification

Model	Rating kW	Width mm	Height mm	Depth mm
Warmair 3	3.0	650	103	210
Warmair 4.5	4.5	650	103	210
Warmair 6	6.0	900	103	210

220-240V-50Hz. BEAB Approved.

Downflow Heater

Features & Benefits
- Stylish compact design
- Two heat settings, 1kW and 2kW
- Pullcord operation
- Overheat protection
- Fan only option
- IP23 rated

The IP23 rated Downflow Heater operates via a pull cord and is suitable for use within Zone 2 of the bathroom. The Downflow Heater has two heat settings; 1kW/2kW plus a fan only option and is designed to be permanently wall mounted for use with an AC electrical supply.

Function	Indication
Off	0
Fan Only	(fan symbol)
Fan + Heat Setting 1	1
Fan + Heat Setting 2	2

For maximum safety the heater includes a thermal cut-out feature to prevent overheating.

Downflow Heater

Model	Stock Ref
VADH2	455834

Specification

Model	Rating kW	W mm	H mm	D mm	Weight kg
VADH 2	2	240	255	135	2

220-240V-50Hz.

Convector Heater

Features & Benefits

- Silent operation
- Ideal for use where occasional heating is required
- Three heat outputs
- Thermostatic control
- Safety thermal cutout
- BEAB Approval

The Vent-Axia Convector Heater is ideal for use in any domestic or commercial room where extra or occasional heating is required. The heater is suitable for use in the home, offices, shops and workshops, but is not recommended for use in bathrooms.

The unit offers three heat outputs; 0.75kW, 1.25kW and 2kW, and is supplied with a thermostatic control.

The Vent-Axia Convector Heater is lightweight, portable and is supplied with a cable and plug. Stylish and versatile, the heater may be wall mounted or installed as a floor standing unit using the feet included. This gives the benefit of moving the heater to an area where you want, when you want.

For maximum safety the heater includes a thermal cut-out feature to prevent overheating.

Model

Convector Heater

Model	Stock Ref
VACH2-TC	426250

Specification

	Rating	W	H	D	Weight
Model	kW	mm	mm	mm	kg
VACH2TC	2	530	370	110	2.3

220-240V-50Hz. BEAB Approved

Portable Fan Heater

Features & Benefits

- Thermostat control
- Fan only mode for summer cooling
- Two heat settings
- Safety cutout

The Vent-Axia Portable Fan Heater is a floor standing heater with three settings, fan only, 1kW and 2kW outputs. Variable thermostat. The unit comes complete with a 13amp plug.

	Rating	W	H	D	Weight
Model	kW	mm	mm	mm	kg
VAFH2TC	2	220	110	220	1.6

Model

Portable Fan Heater

Model	Stock Ref
VAFH2TC	426715

Accessories
& Controllers

Sentinel Controller

For ventilation systems to be truly efficient it is important for them to operate only when needed. Our range of Sentinel demand ventilation systems along with our controls and sensors help respond to the exact ventilation requirements of a room at any one time. Providing airflow only when it is required and at the level that it is required ensures that only the energy that is needed is used; no more, no less.

Approved Document L now recognises the value that controls can offer and you will find Vent-Axia offer a range of solutions to ensure that you can maximise the benefit of automation wherever you chose to use it.

Ecotronic Controller
Surface Mounting

An electronic controller for use with all T-Series and Standard Range models to give extract/intake and speed variation. Where a controller is used with T-Series, 5-core flexible cord is required.

- 'E' running position for optimum efficiency.
- Finger-tip sliders.
- Infinitely variable speed control.
- Double pole On/Off switching.
- Extract/intake airflow direction.
- Neon indicator.
- Sensor mode for use with suitable electromechanical switches, eg. ThermoSwitch, HumidiSwitch to give automatic fan operation.
- Adjustable minimum speed setting.
- Knockouts for recessed wiring.
- Ambient operating temperature range 0°C to +40°C.
- Dimensions: 86 x 156 x 53mm (H x W x D).
- Supply voltage 220-240V/1/50Hz.
- Maximum load: Ecotronic - 400 Watts.
- Designed to meet IP20.
- BEAB Approved.

Stock Ref
W362320

T-Series® Controller
Surface Mounting

A single unit controller for use with all T-Series ventilating units. With knockouts for recessed wiring. Where a controller is used with T-Series, 5-core flexible cord is required.

- 3-speed operation. High, medium or low.
- Finger-tip sliders.
- Double pole On/Off switching.
- Extract/intake airflow direction.
- Sensor mode for use with suitable electromechanical switches, eg. ThermoSwitch, HumidiSwitch to give automatic fan operation.
- Unique shutter open, fan Off setting.
- Neon indicator on controller.
- Knockouts for recessed wiring.
- Ambient operating temperature range 0°C to +40°C.
- Dimensions: 86 x 156 x 53mm (H x W x D).
- Supply voltage 220-240V/1/50Hz.
- Designed to meet IP20.
- BEAB approved.

Stock Ref
W361119

TimeSpan® Controller

Adjustable timer with overrun facility for fans ventilating WCs 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.

- 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 (H x W x D).
- Supply voltage 220-240V/1/50Hz.

Stock Ref
563519

Surface Mounting Box
A surface mounting back box is available.
Stock Ref
410020

Registered design numbers: 1 030 207 Surface Mounting Controller, 1 030 208 Flush Fitting Controller. Patented Remote Speed Control Circuit. European Patent number EP 0180311.

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.

Air Quality Sensor

Automatically reacts to the depletion of air quality, sensing unpleasant smells and toilet odours to regulate mechanically ventilated areas such as cinemas, pubs, clubs, restaurants, kitchens, toilets and conference rooms. This is not a CO_2 sensor.

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. When the atmosphere has returned to normal, the fan will continue to run for a pre-set period (adjustable between 1-25 minutes) and then switch Off.

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.

For use with various Vent-Axia fans within maximum rating below.

The AQS is also able to switch between trickle and boost speed on the appropriate ventilation units.

- Ambient operating temperature range 0°C to +50°C.

- Dimensions:
  87 x 157 x 47mm (H x W x D).

- Maximum switched load:
  2A inductive at 240V.

- Sensor consumption: 25mA at 240V.

- Supply voltage 240V/1/50Hz.

Stock Ref
563506

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:
80x150x150mm (H x W x D).

Stock Ref
W300310

Flush fitting box
Stock Ref
400144

Controllers & Sensors

Ambient Response Humidity Sensor

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.

- Pullcord override and neon indicator.
- Changeover relay switch.
- Operating range: 30%-90%RH.
- Ambient operating temperature +5°C to +40°C.
- Dimensions Controller only:
  87 x 87 x 33mm (H x W x D).
- Will fit single gang box for surface mounting.

Stock Ref
563550 240VAC 50Hz

European Patent No: 2298057

Ambient Response SELV 12 Humidity Sensor

12V Safety Extra Low Voltage version for use with VA100 SELV, Solo SELV, LuminAir SELV and HR100 SELV range.

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.

- Pullcord override and neon indicator.
- Changeover relay switch.
- Operating range: 30%-90%RH.
- Ambient operating temperature +5°C to +40°C.
- Dimensions Controller only:
  87 x 87 x 33mm (H x W x D).
- Will fit single gang box for surface mounting.

Stock Ref
563551 12VAC 50Hz

Lo-Carbon Ambient Response Humidity Sensor

Designed specifically for the Lo-Carbon product range. 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. Night time RH increment setback feature suppresses nuisance tripping when the humidity level gradually rises as the temperature falls.

- Pullcord override and neon indicator.
- Changeover relay switch.
- Operating range: 30%-90%RH.
- Ambient operating temperature +5°C to +40°C.
- Dimensions Controller only:
  87 x 87 x 33mm (H x W x D).
- Will fit single gang box for surface mounting.

Stock Ref
563552 12VDC

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

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.

Ecotronic Humidity Sensor Surface Mounting

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.

- Setting range 65% - 90%RH.
- Maximum switching load 1 Amp inductive.
- Pullcord override indicated by lamp.
- Ambient operating temperature 0°C to +40°C.
- Dimensions: 87 x 87 x 33mm. (H x W x D)
- Supply voltage 220-240V/1/50Hz.

Stock Ref
563532

Ecotronic® SELV 12 Humidity Sensor

12V Safety Extra Low Voltage version for use with VA100 SELV, Solo SELV, and LuminAir SELV range. Incorporates changeover switch to select low/high speed.

- Setting range 65% - 90%RH.
- Maximum switching load 5.6A @ 12V AC.
- Pullcord override indicated by lamp.
- Ambient operating temperature 0°C to +40°C.
- Dimensions: 87 x 87 x 33mm. (H x W x D).
- Supply voltage 12V AC.

Stock Ref
563531

Although suitable for siting within reach of a shower or bath we recommend this model is located out of the spray zone of a bath or shower.

Vent-Axia HumidiSwitch

Operates Vent-Axia ventilating units on either a rise or a fall in humidity to control the damaging effects of condensation.

- Concealed adjustment.
- Setting range 20% to 80% RH.
- Ambient operating temperature 0°C to +50°C.
- Dimensions: 82 x 132 x 40mm (H x W x D).
- Rating 2A (1A inductive).
- Switching range 120-240V.
- Designed for use with controllers with 'Auto' mode facility.
- Single pole changeover contacts.

Stock Ref
563501

The Ecotronic and Ecotronic SELV 12 Sensor can be wired for either On/Off or Trickle/Boost operation.

Controllers & Sensors

7 Day TimeSwitch

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.

- Analogue clock display and integral time switches for ease of setting.
- Manual override.
- Removable clear plastic cover protects TimeSwitch face.
- Volt free changeover contacts.
- 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.

Stock Ref
563515

Vent-Axia ThermoSwitch

Automatically switches On fans on either a rise or fall in air temperature. The ThermoSwitch can be used with all Vent-Axia fans (via switch gear 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.

- 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.
- Electrical connection to screw type terminals with rear or side cable entry.
- Dimensions:
  80 x 104 x 36mm (H x W x D).
- Contact rating: 1.5 Amp (inductive).
- 16 Amps (resistive).
- Maximum voltage 250V

Stock Ref
563502

Guardian Personnel Detector (PIR Sensor)

Suitable for controlling a range of Vent-Axia fans. Continuously monitors an area and activates when a moving body is detected.

- Supplied complete with wall mounting bracket.
- Adjustable timer overrun (5 seconds to 20 minutes).
- Supplied with lens to provide 15m (max) range, 200° detection area.
- Designed to meet IP55.
- Ambient operating temperature range -20°C to +50°C.
- Maximum load: 10 Amp resistive (5 Amp inductive).
- Suitable for use with fluorescent lighting up to 500W.
- Internal/External use.
- Supply voltage 220-240V/1/50Hz.

Stock Ref
563548

Vent-Axia Visionex PIR

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.

- 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: 2.5 Amps/600W inductive. Not suitable for use with lighting.
- Internal use only.
- No switched live required for internal rooms and toilets.
- Double insulated.
- Volt-free contacts.
- Supply voltage 220-240V/1/50Hz.

Stock Ref
459623

Surface fitting wall mounting box
Stock Ref
410020

Vent-Axia Visionex
SELV 12 PIR

A wall or ceiling mounted movement detector for use with any domestic Vent-Axia SELV 12 product.

- 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: 5.6 Amps inductive @ 12V.
- Internal use only.
- No switched live required for internal rooms and toilets.
- Class III product.
- Volt-free contacts.
- Supply voltage 12V/1/50Hz.

Stock Ref
459624

Surface fitting wall mounting box
Stock Ref
410020

3 Pole Isolator

Isolates Live, Neutral and Switched Live for integral timer fans. 6 Amp, 3 pole isolator complying to the 3mm contact separation requirement for routine maintenance repair.

Stock Ref
563518

Remote Delay Timer

A remote delay timer for use with all domestic products gives the option of offering a 2 minute delay before the fan starts. Once the fan has started the overrun timer is adjustable between 5-25 minutes.
Stock Ref
457986

Controllers & Sensors

Fan Speed Adjuster

5 step speed adjuster for domestic kitchen extract fans, that can reduce the speed to 40% of its maximum performance.

Stock Ref
458153

Push Button Timer

The Vent-Axia Push Button Timer is ideal for applications that require an accurate timing period. Pushing the button activates the circuit, and starts the timing period. The timer has been designed for general purpose loads, a neutral feed is required at the switch position. This will allow the timer to be used in various applications from incandescent, fluorescent and compact fluorescent lighting to heating and ventilation loads. Adjustable timing range between 1 second and 2 hours.

Three different modes of operation can be set on the timer to provide a variety of options to suit particular applications.

On/Off Mode: Operating the unit will start the timing sequence. Operating the unit again during operation will stop the sequence immediately. If the unit is not pressed again after initial operation, the timer will switch Off after the adjustable preset time period has elapsed.

Resetting Mode: Operating the unit will start the timing sequence. Operating the unit again during operation will restart the timing sequence.

Non-Resetting Mode: Operating the unit will start the timing sequence. Operating the unit again during operation will have no effect.

Stock Ref
426416

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.

91mm x 176mm x 85mm (WxHxD).

Dimensions	Stock Ref
135x170x117	10314103
167x219x108	10314105
200x253x170	10314107

PIR Timer Switch

The Vent-Axia PIR Timer has been designed to control heating and ventilation when body heat is no longer detected. Adjustable timing range between 10 seconds and 1 hours. As these timers have been designed for general purpose loads, a neutral feed is required at the switch position. Suitable for incandescent, fluorescent and compact fluorescent lighting, heating and ventilation loads. Electric heating can be controlled, either directly or via the heater control circuit. Several timers can be wired in parallel to control the same load if required.

Stock Ref
426418

Ventwise Controller

The award winning Ventwise controller has been designed to fully automate a ventilation system. The unit can be used on intermittent or continuous systems, switching a fan between Off and On or from trickle to boost speed. The controller saves energy by only switching when cooking is taking place or condensation is being generated. The current sensor detects when the power supply to an oven or hob is switched on. The temperature sensor detects the rise in temperature in the hot feed to a bath or shower. A combination of up to three sensors may be used with one controller. Suitable for 240V single phase, the Ventwise is capable of switching 2 Amps or 500 Watts. Ideal for student accommodation, social and sheltered housing, the Ventwise maintains indoor air quality without the need for manual switching.

160mm x 85mm x 45mm (WxHxD).

Stock Ref
435960

Current Sensors
4m cable
Stock Ref
435994

6m cable
Stock Ref
435956

12m cable
Stock Ref
435957

Temperature Sensors
4m cable
Stock Ref
435995

6m cable
Stock Ref
435958

12m cable
Stock Ref
435959

Weatherproof Touch Activated Timer

The Vent-Axia Weatherproof Touch Activated Timer is designed for outdoor applications, with a 103 x 103 x 65mm smooth wall enclosure. This timer can accommodate general purpose loads, and will require a Neutral feed at the switch position. This will allow the unit to be used on various applications from incandescent, fluorescent or compact fluorescent lighting to heating and ventilation loads.

The unit has two functions; it can either be used as a Timer, or as a conventional switch.

Two different modes of operation can be set on the unit:
- Timing Mode: Pressing the touch plate will start the timing sequence. Pressing the touch plate again during operation will stop the sequence immediately.
- Switch Mode: Pressing the touch plate will switch the unit on. Pressing the touch plate again will switch the unit off. The timer function is disabled in this mode.

Output is via a Single Pole Change Over Relay Contact, giving the option of a normally open or normally closed contact for switching purposes. The 'temporary' neon indicator is only illuminated when the unit is timing out. IP65 rated enclosure.

Stock Ref
434720

Controllers & Sensors

Normal 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
455213

VCON6

A double gang switch to boost from high to low speeds.
85 x 145 x 10mm (H x W x D).
Stock Ref
370356

Normal Boost Purge Switch

A single gang switch to operate between normal, boost and purge speeds.
85 x 85 x 10mm (H x W x D).
Stock Ref
5108454

Momentary Push Switch

Compatible with Sentinel Kinetic range, the momentary switch boosts the unit for 30 minutes.
85 x 85 x 10mm (H x W x D).
Stock Ref
448929

LED Indicator

Compatible with the Sentinel Kinetic range, the LED indicator illuminates when the MVHR unit requires a filter check or if the unit has a fault.
Supplied with 15 metres of cable.
85 x 85 x 10mm (H x W x D).
Stock Ref
448356

Normal Boost Switch - Stainless Steel

A single gang switch to operate normal/boost functions on MVHR systems. Brushed stainless steel finish.
90 x 90 x 18 (H x W x D).
Stock Ref
437320

Normal Boost Switch with Light Indicator

Single gang switch with LED illumination when in the Boost condition.
85 x 85 x 10mm (H x W x D).
Stock Ref
449060

2-Way Switch and Neons

A double gang switch to boost from high to low speeds on all heat recovery systems, incorporating neon lights to indicate speed settings. Suitable changeover relay required.
85 x 145 x 10mm (H x W x D).

Stock Ref
459746

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
563533

TIM2 Overrun Timer

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.
76 x 76 x 41mm. (H x W x D).
Stock Ref
370346

HR500 Controller

Surface mounting. On/Off remote sensor mode. Heat exchange, single fan extract or twin fan extract modes. Infinitely variable speed. Minimum speed setting.
Stock Ref
W14301010

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.
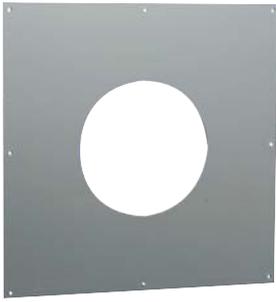95 x 225 x 75mm (H x W x D).
Stock Ref
563538

Isolator Relay Controller

Allows fan unit to be isolated from other mains circuit when used with TIM2, Trickle/boost switch or light switch control.
Stock Ref
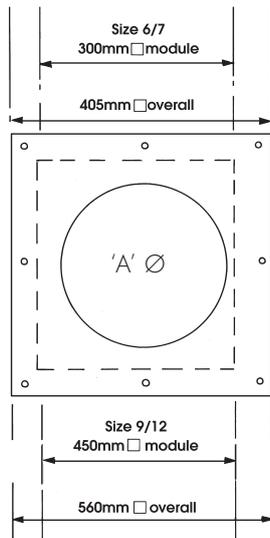442030

Ventilation Accessories

Fixing Plates

A single plate available in 300mm and 450mm square modular sizes for permanent fixing on walls or for use with other modular components.

Manufactured in high impact recyclable thermoplastic.

Unit Size	Stock Ref
6"	561136
7"	561137
9"	561139
12"	561142

Vent-Axia fixing plate

| Unit size	'A' Ø	Module Size
6"	184mm	300mm □
7"	222mm	300mm □
9"	260mm	450mm □
12"	337mm	450mm □

T-Series Adaptor Kits

Used for T-Series Window models in secondary double glazing, Roof models in secondary double glazing in exposed areas, Roof models through roofs and Darkroom models installed through either roof or walls. Adaptor kits allow units to be installed on two surfaces.

T-Series Adaptor kits consist of two Mounting plates with weather-tight seals and a set of fixing screws.

Unit Size	Stock Ref
6"	W561031
7"	W561032
9"	W561033
12"	W561034
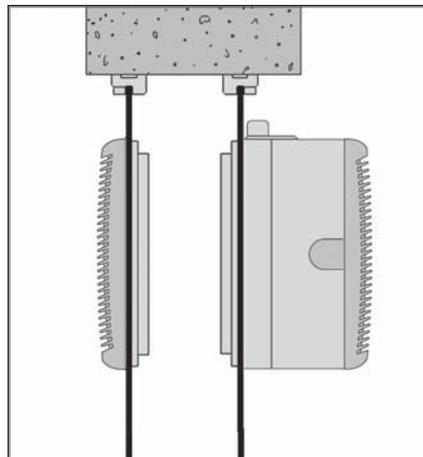
T-Series Extended Fixing Rod Sets

For use with T-Series Window and Roof models fitted through walls. Consists of a set of rods which are cut to suit the wall thickness.

Maximum thickness of wall 370mm.

Rod thread 3.5mm.

Unit Size	Stock Ref
6", 7" & 9"	568104
12"	568106
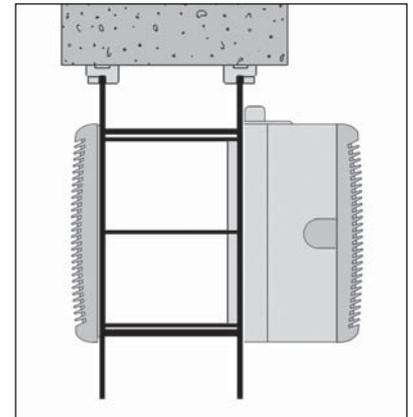
T-Series extended fixing rod set

Unit size	Ref of Rods
6"	4
7"	4
9"	4
12"	6

Wall Liner Section

Designed for T-Series units installed in walls thicker than 315mm, each liner section provides a maximum extension of 150mm. Wall liner section can also form a frame for Panel models in walls.

T-Series Wall Liners

Unit Size	Stock Ref
6″	460094
7″	460095
9″	460096
12″	460086

Mounting Boxes

A flanged sleeve in 300mm and 450mm square modular sizes used as an interconnecting sleeve between other modular accessories.

Mounting boxes will accept the depth of a unit and can be mounted in conjunction with a Fixing plate and Eggcrate grille for ventilation through ceilings.

Manufactured in flame retardant high impact recyclable thermoplastic.
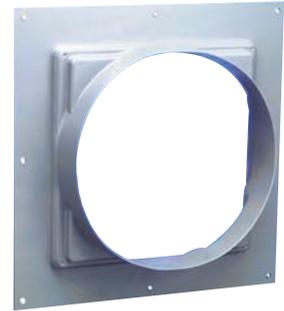
Duct length 200mm.

Unit Size	Stock Ref
6″/7″	560236
9″/12″	560239

Unit Size	Mounting box modular size
6″/7″	300mm☐
9″/12″	450mm☐

Joining Bolt Set

Set of 8 nuts, bolts and washers.

Stock Ref
563000

Single Spigots

Single spigots in 300mm and 450mm square modular sizes. Used to connect Flexible ducting to Mounting boxes and other modular accessories or can be fixed directly to walls.

Manufactured in flame retardant high impact thermoplastic.

Unit Size	Nom Dia	Stock Ref
6″	175mm(B)	560637
6″/7″	225mm(B)	560639
7″	250mm(A)	560640
9″	300mm(A)	560642
9″	300mm(B)	566142
12″	400mm(B)	566146

Vent-Axia single spigot

Unit Size	'A' Ø	Module Size
6″	B 175mm	300mm
6″	B 225mm	300mm
7″	B 225mm	300mm
7″	A 250mm	300mm
9″	A 300mm	300mm
9″	B 300mm	450mm
12″	B 400mm	450mm

Ventilation Accessories

Multi-Spigot Plates

Available with 2, 3, 4 or 5 circular spigots of 100mm diameter. Multi-spigot plates are used in conjunction with 100mm Flexible ducting and other modular accessories to ventilate several small areas especially internal lavatories. For use with Size 6 units only. Manufactured in flame retardant high impact recyclable thermoplastic.

Available in 300mm square modular size.

Description	Stock Ref
2-3-4 Spigots	560734
5 Spigots	560735

T-Series Direct Mount Spigots

Used to connect Flexible ducting directly to the inlet side of all T-Series models and the outlet side of T-Series Window models.

Manufactured in flame-retardant high impact recyclable thermoplastic.

Unit Size	Stock Ref
6" All models	560501
7" All models	560502
9" WW/RF	560503
9" WL/PL	560504
12" All models	560505

T-Series Darkroom Cowl Assembly

For use with all T-Series fans for Darkroom applications. Designed to give light protection.

Can also be used in other light sensitive areas such as medical, dental and veterinarian applications.

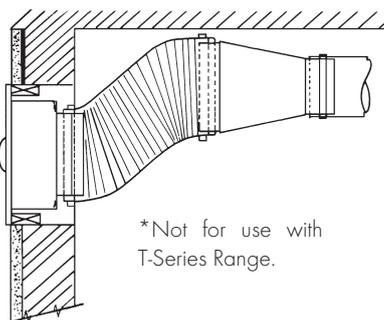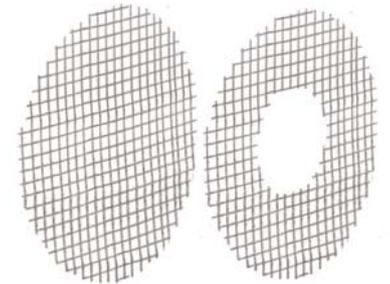| Unit Size	Stock Ref
6"	460585
7"	460586
9"	460587
12"	460588

Cone Connectors

Used in conjunction with a Size 6 *Standard Panel model to reduce the outlet spigot (175mm Ø) to 100mm Ø flexible or rigid ducting.

The Cone connector is 280mm long and incorporates a splitter for improved performance. Manufactured in flame retardant, high impact thermoplastic. Colour: Grey.

Unit Size	Stock Ref
6"	560936

*Not for use with T-Series Range.

Size 6   Size 7   Size 9 Window/Roof

175mmØ   225mmØ   300mmØ

Size 9 Wall/Panel   Size 12

300mmØ   400mmØ
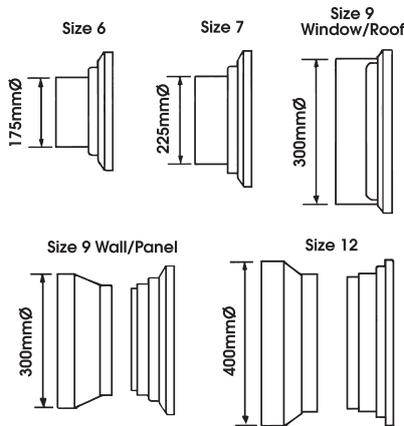
Standard Range Protective Grilles

Where Standard Range units are installed in low positions, finger guards provide extra protection to VDE, DIN 31001.

Standard Range internal grille (all models)

Unit Size	Stock Ref
6"	563106
7"	563107
9"	563109
12"	563112

Standard Range external grille (window models)

Unit Size	Stock Ref
6"	563406
7"	563407
9"	563409
12"	563412

Plenum Boxes

The Plenum box allows square grilles and diffusers to connect to circular duct. Each box size has a two diameter circular spigot for maximum versatility. The box is deep enough to accommodate both a double deflection grille and opposed blade damper.
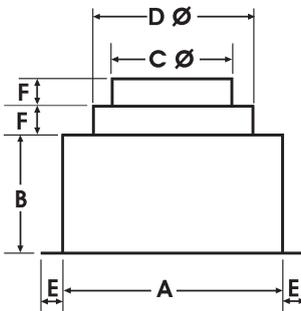
Manufactured in flame retardant high impact recyclable thermoplastic.

Size	Stock Ref	Nom. Ø
200	560601	125/150
250	560602	150/175
300	560603	200/225
300	560604	250/300
450	560605	315/400

Single Deflection Grilles

Single deflection grilles are suitable for either side wall or exposed duct applications.

The Single deflection grille has a single row of blades which permit up to 45° deflection of the air in one plane.

Satin silver finish.

Size 6/7 fits 300mm square modular size and size 9/12 fits 450mm square modular size.

Module size	Stock Ref
200mm sq	561370
250mm sq	561371
300mm sq	561372
450mm sq	561373

Double Deflection Grilles

Double deflection grilles are suitable for supply air for either side wall or exposed duct applications.

The Double deflection grille has two rows of blades set at 90° apart which permit up to 45° deflection of the air in two planes.

Satin silver finish.

Size 6/7 fits 300mm square modular size and size 9/12 fits 450mm square modular size.

Module size	Stock Ref
200mm sq	561380
250mm sq	561381
300mm sq	561382
450mm sq	561383

Dimensions (mm)

Stock Ref.	A	B	CØ	DØ	E	F
560601	200	130	125	150	25	25
560602	250	130	150	175	25	25
560603	300	130	200	225	25	25
560604	300	130	250	300	25	25
560605	450	130	315	400	25	25

Ventilation Accessories
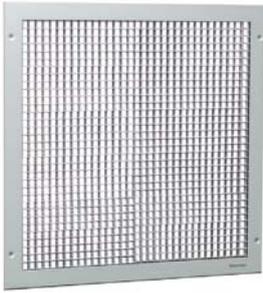
Eggcrate Grilles

Eggcrate grilles can be used for air replacement or air extract purposes.

Used underneath Roof plate assemblies with Roof models, underneath single spigots in ceilings, underneath mounting boxes and on the inside faces of walls that have units in fixed and removable wall plates on the outside of the wall.

Comprising a 13mm square by 13mm deep mesh eggcrate core housed in a frame which has a satin silver or white finish.

Size 6/7 fits 300mm square modular size and size 9/12 fits 450mm square modular size.

Size 6/7 - 785cm^2 free area
Size 9/12 - 1810cm^2 free area

200mm Sq - 340 cm^2
250mm Sq - 530 cm^2

Satin finish.

Module size	Stock Ref
200mm sq	561303
250mm sq	561305
300mm sq	561301
450mm sq	561302

White finish.

Module size	Stock Ref
125mm sq	560846
200mm sq	560847
250mm sq	560848
300mm sq	560849
450mm sq	560850

Opposed Blade Dampers

Opposed blade dampers are used to regulate air flow through all Vent-Axia grilles and diffusers. Key operated.

This action ensures that the downstream airflow is non-directional when the damper is in the partially closed position. Opposed blade dampers have aluminium blades and the frame is left in natural mill finish.

Can be used in conjunction with Eggcrate, Single deflection and Double deflection grilles.

Size 6/7 fits 300mm square modular size and size 9/12 fits 450mm square modular size.

Module size	Stock Ref
200mm sq	561341
250mm sq	561342
300mm sq	561343
450mm sq	561344

Filtered Inlet Grille

For ceiling, panel or glass mounting. Consists of a size 6 grille, washable filter, adaptor kit and a stepped spigot to suit 100, 125 or 150mm diameter ducting.

Grille size:	226mm x 220mm
Spigot depth:	100mm
Fixing hole diameter	184mm

Stock Ref
W563536

4-Way Diffusers

Manufactured in polypropylene plastic. Four diffuser cassettes can be set for downward or 45° discharge in any of sixteen directional combinations. Colour: Ivory

Neck Size	Stock Ref
225mm	10546230
300mm	10546300
350mm	10546350
400mm	10546400
450mm	10546450
500mm	10546500

500mm fits ceiling grid size 600mm ☐, 595mm ☐ overall diffuser size

Neck Adaptor

Used to connect Flexible ducting directly to 4-way diffusers. Integral volume control damper for duct sizes up to 300mm.

| Diffuser Duct Size	4-Way Neck Size	Stock Ref
150mm ∅	225mm	10547150
200mm ∅	225mm	10547200
250mm ∅	300mm	10547250
300mm ∅	350mm	10547300
400mm ∅	400mm	10547400
400mm ∅	450mm	10548400
400mm ∅	500mm	10548000

Window/Wall/Ceiling Termination Sets

Used to terminate Flexible ducting at windows. Can be used with the Extended fixing rod set or Fixing plates for termination at walls. Used with Flexible ducting and Worm drive clips.

Consists of: Direct mount spigot, Adaptor kit, Window grille and all screws.

Unit Size	Spigot DiaØ	Stock Ref
6	175mm	W560151
7	225mm	W560152
9	300mm	W560153
12	400mm	W560154

Other sizes

Spigot DiaØ	Stock Ref
125	W10554150
200	W10554200
250	W10554250
315	W10554315

Wall termination sets.
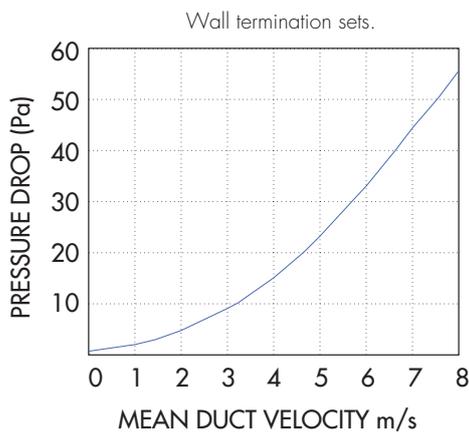
Air Replacement Non-Vision Grilles

Satin finish
Non-vision grilles consist of a single row of overlapping chevron vanes. Used as transfer grilles for doors or partitions, the overlapping vanes prevent through-vision.

Satin finish

Module size	Stock Ref
300mm sq	561311
450mm sq	561312

Black finish
In addition to preventing through-vision the black finish also limits light transference. Use two grilles back to back for darkroom applications.

Module size	Stock Ref
300mm sq	561321
450mm sq	561322

Fire Dampers

Available in 300mm and 450mm square modular sizes. For use with other modular accessories when a duct passes through a ceiling or wall requiring a damper to be fitted. 107mm deep.

Concertina type with 71°C fusible link 2 hour rated.

Manufactured in stainless steel.

Size	Stock Ref
6/7	561901
9/12	561902

Roof Termination Sets

Used to terminate Flexible ducting at roofs. Consists of: Direct mount spigot, Adaptor kit, Roof cowl, Deflector and all screws.

T-series units

Size	Spigot Ø	Stock Ref
6	175	560161
7	225	560162
9	300	560163
12	400	560164

Vent-Axia roof termination

Diameter	Stock Ref
100/125/150mm	10555150
200mm	10555200
250mm	10555250
315mm	10555315

Roof termination sets.
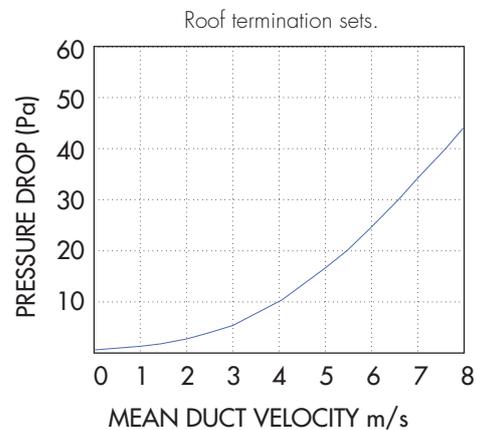
Ventilation Accessories

Air Replacement Non-Vision Door Grilles with Matching Flanges

Non-vision grilles consist of a single row of overlapping chevron vanes to prevent through-vision, supplied with matching flanges. The grille is fitted to one side of the door with the matching flange on the other side.

Suitable for door thicknesses of 19-49mm.

Available in Silver or Brown finish, in two sizes, 600 x 150 and 600 x 300mm.

Satin finish

Size	Stock Ref
600 x 150mm	561390
600 x 300mm	561391

Brown finish

Size	Stock Ref
600 x 150mm	560900
600 x 300mm	560901

Heavy Duty T-Series Wall Grilles

Tough aluminum construction for accesible public areas. Fits T-Series wall models in place of existing external grille. Finish T-Series grey.

Size	Stock Ref
6	452725
7	452726
9	452727
12	452728

External Louvres Mill and Brown Finish

Weather resistant external louvres are suitable for air intake or discharge and for use with ducting on external walls.

The narrow blade construction has a 38mm pitch set at 45° with a depth of 41mm and an integral rain lip.

Standard 32mm wide undrilled outer flanges in aluminium have fully welded mitre corners as standard.

Size 6/7 fits 300mm square modular size and size 9/12 fits 450mm square modular size.

Size 6/7 - 345cm^2 free area
Size 9/12 - 824cm^2 free area

Satin finish

Size	Stock Ref
225mm sq	561350
300mm sq	561351
400mm sq	561355
450mm sq	561352

Brown finish

Size	Stock Ref
225mm sq	560910
300mm sq	560911
400mm sq	560912
450mm sq	560913

Louvre Grilles

Louvre grilles can be used for air replacement, for extract purposes and as an external louvre. Available in four sizes, the assembly fits over rather than into the aperture making it especially useful where there are space restrictions within the duct.

Manufactured in thermoplastic. Choice of three colours: White, Brown and Grey.

Size	Free area
Size 6	- 190cm^2 free area
Size 7	- 335cm^2 free area
Size 9	- 415cm^2 free area
Size 12	- 705cm^2 free area

Grille Dimensions (mm)

Size	w x h
Size 6	= 310 x 303
Size 7	= 352 x 345
Size 9	= 391 x 388
Size 12	= 470 x 467

The grilles and surrounds are moulded in ABS plastic to tone with building materials, therefore an equivalent BS or RAL colour reference cannot be given.

Unit Size	Colour	Stock Ref
6	Grey	W561431
6	Brown	561411
6	White	561421
7	Grey	W561432
7	Brown	561412
7	White	561422
9	Grey	W561433
9	Brown	561413
9	White	561423
12	Grey	W561434
12	Brown	561414
12	White	561424

Roof Plate Assemblies

Vent-Axia roof plate assemblies are manufactured in high impact recyclable thermoplastic. They consist of a strong one piece moulded plate with extended sides to assist flashing and weather protection. A separate sub-frame is provided for permanent fixing to the roof kerb. The Vent-Axia Roof model is then fitted to the plate using a suitable sealing compound between the Cowl and plate, ensuring a weather-tight seal.

Size	Stock Ref
6	560136
7	560137
9	560139
12	560142
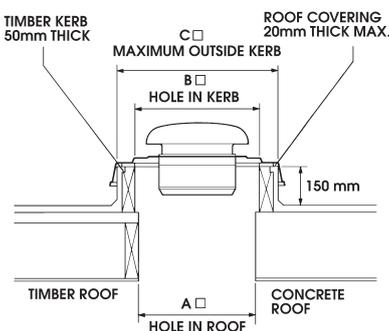
Size	A	B	C
6	300mm	335mm	465mm
7	300mm	335mm	465mm
9	450mm	490mm	615mm
12	450mm	490mm	615mm

In addition to the size 6, 7, 9 & 12 Roof Termination Sets, the Roof Plate Assemblies can also be used with the following Roof Terminations part numbers.

10555150 use size 6 Roof Plate Assembly
10555200 use size 7 Roof Plate Assembly
10555250 use size 9 Roof Plate Assembly
10555315 use size 12 Roof Plate Assembly

5-Core Flexible Cord

Multi-core flexible cord specially manufactured for use with all Vent-Axia Standard and T-Series units. White sheath with colour coded cores. Available by the metre (minimum 5m) or by the 50 metre coil. Cable size: $0.75mm^2$.

	Stock Ref
Per 50 metre	562031
Cut length	562030
(per metre min 5m)	

Joining Pieces

Used to join lengths of flexible ducting to give a long-lasting airtight connection.

Duct Size	Stock Ref
100mm ∅	561804
125mm ∅	561805
150mm ∅	561806
175mm ∅	561807
200mm ∅	561808
225mm ∅	561809
250mm ∅	561810
300mm ∅	561812
315mm ∅	561813
400mm ∅	561816

Standard Range Adaptor Kits

Used for Standard Range Window models in secondary double glazing, Roof models in secondary double glazing in exposed areas and Roof models through roofs.

Adaptor kits allow units to be installed on two surfaces.

Adaptor kits consist of an additional shroud and gasket, locking ring and seal. The shroud and gasket fit to the outside part of the unit, the locking ring and seal going to the inside part.

Fitting through holes in both Fixing Plates or glass, Vent-Axia's spigot and ring method of fixing allows simple installation separately to both parts.

Colour: Ivory.

Unit size	Stock Ref
6	561011
7	561012
9	561013
12	561014

Worm Drive Clips

Stainless steel tightening band with quick-fix screwed ends for securing flexible ducting.

Max. ∅	Stock Ref
110mm	561704
215mm	561707
270mm	561710
380mm	561715
525mm	561720
660mm	561726

ROOF UNITS

from Vent-Axia

Industrial

Roof Units from Vent-Axia

The Roof Units™ name has long been associated with high quality ventilation products at affordable prices. With ERP 2013 compliance assured from you can be certain of high quality ventilation products meeting the exact demands of today.

The extensive Roof Units™ product range includes the Euroseries™ Axial plate, short cased & roof fans, as well as inline centrifugal extract fans and twin fans. When matched with the Roof Units™ and Vent-Axia ranges of controllers, flexible ducting and other accessories you can be certain of fulfilling the complete installation from one supplier.

Characterised by design excellence, Roof Units™ fans are purpose designed to deliver controllable outputs of up to 15m³/s, plus the right balance of airflow, pressure development, quietness and energy efficiency for every type of project.

The Euroseries™ range of Axial bladed fans cover plate, short cased & roof variants, all fully speed controllable, incorporating modern high efficiency external rotor motors with single piece die-cast aluminium rotor/impellors offering smoother running & giving longer reliable service life.
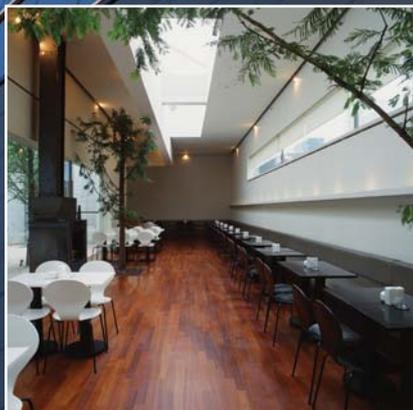
Its all in this fully illustrated catalogue, which includes full performance data and specifications – facilitating your selection for the right ventilation solution.

Energy Recovery Range (ERV)

ROOF UNITS

from Vent-Axia

Features and Benefits

- 2 model sizes covering 500 to 1500m³/hr
- Choice of 90% or 55% efficient aluminium energy recovery cell
- High performance EC/DC motors
- Compact low profile unit (360mm high)
- Internal or External mounting as standard
- Robust aluminium cell construction
- Simple control functionality

Construction

The unit is manufactured with a frameless construction, and incorporates single skinned Aluzinc panels with a highly thermal and acoustically efficient internal insulating foam. The unit is suitable for internal or external mounting as standard.

The unit is constructed with removable top and bottom access panels allowing full maintenance access.

The removable panels provide access to the following:
- Supply or extract fan
- Supply or extract filter (when fitted)
- Heat exchanger
- Frost heater (when fitted)

Within a separate side section access is provided for wiring termination and set-up/commissioning. The user control interface therein is within a separate viewing and access panel allowing commissioning without the need to access to the wiring section. This controller can be demounted for remote installation if required.

Options

The ERV range consists of two unit sizes (ERV1000 and ERV1500) each available with two versions of control and unit functionality (Basic and Standard) and two versions of the heat recovery cell (55% and 90% efficiency) giving 8 models in total.

The frameless single skinned construction, with Aluzinc panels internally lined with a 90kg/m³ high efficiency acoustic and thermally insulating foam (fire retardant to BS476 part 7 class1 and part 6 class O), minimises noise and thermal breakout from the casing. Aluzinc construction allows for the units to be mounted either internally or externally as standard (IPX4). An optional inlet cowl is available for external applications if required.

The casing is designed to be as compact as possible for concealed false ceiling applications with access panels on both top and bottom as standard for ease of access and maintenance.

Performance and Sound

Extensively tested in accordance with BS 848 part 1 and 2, the published dB(A) figures are free field sound pressure levels with spherical propagation at reference level of $2x10^{-5}$ Pa. The inlet and outlet sound power level spectra figures are dB with a reference of 10^{-12} Watts.

Motor and impeller

All units contain a pair of Class 1 EC/DC external rotor motors with backward curved impellers carefully selected for maximum performance coupled with minimum sound and power consumption, fully compliant with the requirements for ERP 2015. The assembly is balanced to DIN ISO 1940 grade 6.3. Bearings are greased for life for maintenance free operation coupled with long service life for added peace of mind.

Electrical supply is 230V, 50Hz single phase.

Energy Recovery Cell

The ERV range includes either an Aluminium crossflow plate heat exchanger with an efficiency of 55% on the ERV units or an Aluminium counter flow plate heat exchanger offering higher efficiencies of up to 90% on the Hi Box units.

By utilising Aluminium heat exchangers the Vent-Axia ERV range of units can be installed in most environments including those with high humidity yet without the need to regularly maintain or replace the heat exchanger cell. The Aluminium cells are designed to be maintenance free (other than basic cleaning in situ) and to last the life of the unit.

Internal Unit Functionality

Flow Imbalance
The supply and extract flows on the standard unit can be offset by up to 20% to give an imbalanced flow as required.

Not available on the simplified unit.

Summer Bypass
The Standard ERV and ERV Hi-Box include as standard a Summer Bypass facility and integral controls to control its operation. The damper operates on both the Heat Recovery route and Bypass route enabling a full 100% bypass maximising the energy recovery benefits of free cooling when available.

Not available on the Basic unit.

Frost Protection
Integral to the standard unit is a 2 stage 2kW electric heater providing frost protection. The control for the inbuilt heaters is fully integrated and automatic ensuring the heat recovery cell does not freeze up under very low ambient conditions. The frost protection system will switch in each of the two stages as required when the ambient temperature falls below 0°C.

Not included on the Basic unit.

Condense Drain
All versions are fitted with a gravity condensation drain. An optional condensation drain pump is available for mounting in the condensation pipework external to the unit, includes float switch.

Filters
The ERV standard unit includes a G4 replaceable synthetic filter as standard, these are available as an optional extra on the Basic version to drop in to the pre-fitted filter slide rails.

Control

The Standard ERV unit comes complete with an integral controller providing manual variable speed control and the ability to control the summer bypass and frost protection functions. This allows the unit to be set to the customer requirements for continuous operation. The controller is fitted to the unit but can be remotely mounted on site if required. An integral time clock also provides for scheduling of the run for the unit. A boost facility can be manually selected via the unit controller. The controller LCD display shows the hours run and filter life information during operation and is fitted as standard to the unit although this can be remotely mounted on site.

The Basic ERV controller provides a manual 3 speed control via a rotary switch with no display function. There is no frost protection or bypass included within the unit. The controller is fitted to the unit but can be remotely mounted on site if required and includes a green LED run indicator.

Models

Stock Ref
ERV1000B
ERV1500B
ERV1000S
ERV1500S
ERV1000HIB
ERV1500HIB
ERV1000HIS
ERV1500HIS

Accessories

Model	Stock Ref
Condensate Pump	403201
Filter G4 (ERV1000)	445851
Filter G4 (ERV1500)	447251
Weathercowl (ERV1000)	445832
Weathercowl (ERV1500)	446591

Dimensions
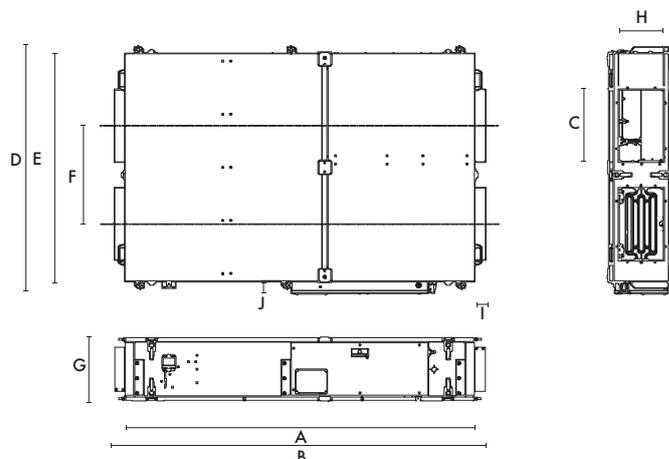
ERV 1000 250mm dia. spigots

Model	A	B	C	D	E	F	G	H	I	J
ERV 1000	1800	1920	-	940	900	450	352	250Ø	60	65
ERV 1500	1900	2020	400	1290	1250	583	350	250	60	65

ERV Comparison Table

	Totus² Range	ERV-HIBox Standard	ERV-HIBox Basic	ERV-Box Standard	ERV-Box Basic
Model / Stock Reference	All	ERV1000HIS ERV1500HIS	ERV1000HIB ERV1500HIB	ERV1000S ERV1500S	ERV1000B ERV1500B
HR Cell 90%	✔	✔	✔	x	x
HR Cell 55%	x	x	x	✔	✔
Aluzinc Acoustic Casing	✔	✔	✔	✔	✔
EC/DC Motors	✔	✔	✔	✔	✔
Condensate drain	Pumped	Gravity	Gravity	Gravity	Gravity
Condensate Pump	✔	Option 403201	Option 403201	Option 403201	Option 403201
Filter G4 (ERV1000)	✔	✔	Option 445851	✔	Option 445851
Filter G4 (ERV1500)	✔	✔	Option 447251	✔	Option 447251
Control functionality	Sentinel Demand Ventilation control	Manual speed control and basic HR control	Manual speed control only	Manual variable speed control and basic HR control	Manual speed control only
Bypass inc actuator	✔	✔	x	✔	x
Electric Frost Heater	✔	✔	x	✔	x
Wall Controller	✔	✔	✔	✔	✔
Isolator Switch	✔	✔	x	✔	x
BMS control	✔	x	x	x	x
External Damper Control	✔	x	x	x	x
Proportional Sensors control	✔	x	x	x	x
Constant Pressure control	✔	x	x	x	x
Weathercowl (ERV1000)	Option 445832	Option 445832	Option 445832	Option 445832	Option 445832
Weathercowl (ERV1500)	Option 446591	Option 446591	Option 446591	Option 446591	Option 446591

Note: Part numbers shown as option are available at extra cost and are supplied loose

ERV-Box - 55% Efficiency Cell

Performance Curves

ERV1000S / ERV1000B

ERV1500S / ERV1500B

Performance Guide

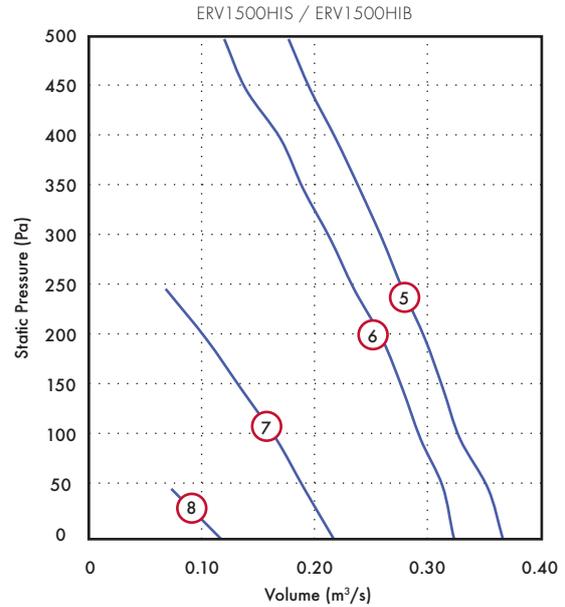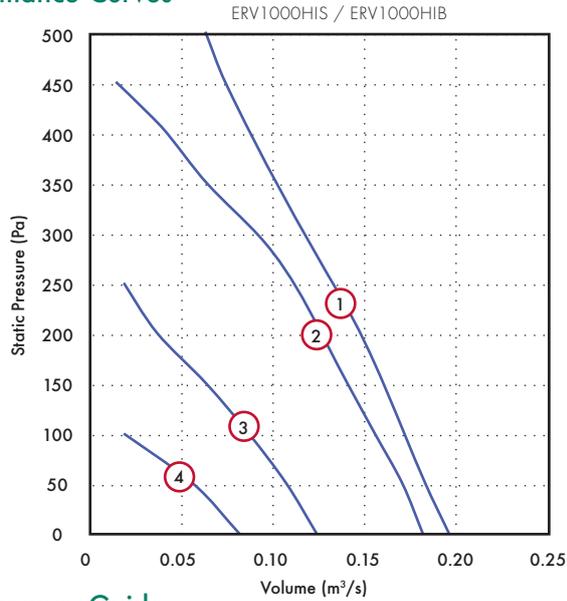| Stock Ref	Curve	Speed	0	50	100	150	200	250	300	350	400	450	500	Supply	F.L.C Amps
								Airflow, m³/s @ Pa							
ERV1000S / ERV1000B	①	Max Supply	0.21	0.19	0.18	0.17	0.16	0.14	0.12	0.11	0.09	0.08	0.07		3.0
		SFP	1.62	1.74	1.88	2.03	2.20	2.41	2.72	3.12	3.62	4.48	5.38		
	②	Balanced 85%	0.19	0.18	0.16	0.15	0.13	0.11	0.09	0.07	0.05	0.01			2.5
		SFP	1.37	1.47	1.61	1.77	1.92	2.15	2.45	2.85	3.42	3.47			
	③	Balanced 65%	0.13	0.11	0.09	0.07	0.04	0.02							1.0
		SFP	0.84	0.98	1.15	1.43	1.94	2.39							
	④	Balanced 35%	0.09	0.06	0.02										0.5
		SFP	0.54	0.76	1.56									230V/1/50Hz	
ERV1500S / ERV1500B	⑤	Max Supply	0.40	0.38	0.36	0.34	0.31	0.29	0.27	0.25	0.22	0.18	0.15		3.0
		SFP	1.58	1.69	1.77	1.87	2.05	2.17	2.32	2.56	2.81	3.38	3.88		
	⑥	Balanced 85%	0.35	0.33	0.31	0.28	0.26	0.23	0.21	0.18	0.16	0.14			2.5
		SFP	1.42	1.53	1.68	1.87	2.03	2.29	2.50	2.76	3.01	3.47			
	⑦	Balanced 65%	0.24	0.22	0.19	0.16	0.13	0.11							1.0
		SFP	0.90	1.05	1.19	1.37	1.61	1.99							
	⑧	Balanced 35%	0.14	0.12	0.09	0.07									0.5
		SFP	0.57	0.69	0.84	1.03									

Sound Power Level Spectra dB (ref 10^{-12} Watts)

Stock Ref	Speed	Test Mode	63	125	250	500	1K	2K	4K	8K	dB(A) @ 3m
ERV1000S/ ERV1000B	Max Supply	External	58	65	69	54	53	54	48	46	
		Room side	55	59	55	50	49	53	37	36	35
		Breakout	59	59	61	50	46	49	36	34	
	Balanced 85%	External	58	63	69	54	53	52	45	45	
		Room side	53	58	55	46	48	50	34	34	34
		Breakout	57	58	59	47	45	47	34	33	
	Balanced 65%	External	54	58	64	49	47	42	35	36	
		Room side	49	53	53	39	40	38	26	29	28
		Breakout	54	54	55	41	38	36	27	30	
	Balanced 35%	External	47	52	48	39	37	30	26	29	
		Room side	48	48	38	33	31	27	22	28	22
		Breakout	48	51	39	35	31	28	26	29	
ERV1500S / ERV1500B	Max Supply	External	66	70	75	60	57	52	50	45	
		Room side	61	62	65	54	52	46	42	41	41
		Breakout	65	68	69	54	49	45	40	40	
	Balanced 85%	External	64	68	72	57	53	49	45	42	
		Room side	58	61	60	52	49	43	38	39	37
		Breakout	62	66	64	51	46	43	38	39	
	Balanced 65%	External	59	64	57	46	45	40	35	32	
		Room side	54	56	48	42	40	34	30	31	29
		Breakout	59	62	50	41	38	34	29	30	
	Balanced 35%	External	58	53	46	37	37	29	25	29	
		Room side	49	46	40	33	32	25	23	30	22
		Breakout	52	52	41	32	30	27	25	31	

ERV-HIBox - 90% Efficiency Cell

Vent-Axia

Performance Curves

ERV1000HIS / ERV1000HIB

ERV1500HIS / ERV1500HIB

Performance Guide

Stock Ref	Curve	Speed	Airflow, m³/s @ Pa											Supply	F.L.C Amps
			0	50	100	150	200	250	300	350	400	450	500		
ERV1000HIS / ERV1000HIB	1	Max Supply	0.20	0.18	0.17	0.16	0.15	0.13	0.12	0.10	0.09	0.07	0.06	230V/1/50Hz	3.0
		SFP	1.71	1.84	1.98	2.14	2.32	2.53	2.86	3.28	3.81	4.71	5.67		
	2	Balanced 85%	0.18	0.17	0.16	0.14	0.13	0.11	0.09	0.07	0.04	0.01			2.5
		SFP	1.44	1.55	1.70	1.87	2.02	2.27	2.58	3.00	3.60	3.66			
	3	Balanced 65%	0.12	0.11	0.09	0.06	0.04	0.02							1.0
		SFP	0.89	1.03	1.21	1.51	2.04	2.51							
	4	Balanced 35%	0.08	0.06	0.02										0.5
		SFP	0.57	0.80	1.64										
ERV1500HI / ERV1500HIB	5	Max Supply	0.37	0.35	0.33	0.31	0.30	0.28	0.26	0.24	0.22	0.20	0.18		3.0
		SFP	1.71	1.77	1.91	2.01	2.10	2.26	2.40	2.58	2.79	3.05	3.31		
	6	Balanced 85%	0.32	0.31	0.29	0.28	0.26	0.24	0.21	0.19	0.17	0.14	0.12		2.5
		SFP	1.37	1.60	1.71	1.81	1.93	2.11	2.29	2.54	2.79	3.29	3.71		
	7	Balanced 65%	0.22	0.19	0.17	0.14	0.10	0.07							1.0
		SFP	0.91	1.04	1.19	1.43	1.78	2.56							
	8	Balanced 35%	0.12	0.07											0.5
		SFP	0.62	0.97											

Sound Power Level Spectra dB (ref 10⁻¹² Watts)

Stock Ref	Speed	Test Mode	63	125	250	500	1K	2K	4K	8K	dB(A) @ 3m
ERV1000HIS / ERV1000HIB	Max Supply	External	58	65	69	54	53	54	48	46	35
		Room side	55	59	55	50	49	53	37	36	
		Breakout	59	59	61	50	46	49	36	34	
	Balanced 85%	External	58	63	69	54	53	52	45	45	34
		Room side	53	58	55	46	48	50	34	34	
		Breakout	57	58	59	47	45	47	34	33	
	Balanced 65%	External	54	58	64	49	47	42	35	36	28
		Room side	49	53	53	39	40	38	26	29	
		Breakout	54	54	55	41	38	36	27	30	
	Balanced 35%	External	47	52	48	39	37	30	26	29	22
		Room side	48	48	38	33	31	27	22	28	
		Breakout	48	51	39	35	31	28	26	29	
ERV1500HIS / ERV1500HIB	Max Supply	External	66	70	75	60	57	52	50	45	41
		Room side	61	62	65	54	52	46	42	41	
		Breakout	65	68	69	54	49	45	40	40	
	Balanced 85%	External	64	68	72	57	53	49	45	42	37
		Room side	58	61	60	52	49	43	38	39	
		Breakout	62	66	64	51	46	43	38	39	
	Balanced 65%	External	59	64	57	46	45	40	35	32	29
		Room side	54	56	48	42	40	34	30	31	
		Breakout	59	62	50	41	38	34	29	30	
	Balanced 35%	External	58	53	46	37	37	29	25	29	22
		Room side	49	46	40	33	32	25	23	30	
		Breakout	52	52	41	32	30	27	25	31	

# EuroSeries® (ESP)
Plate Mounted Axial Fans

Roof Units

from Vent-Axia

Features & Benefits

- Die cast aluminium impellors
- Fully speed controllable
- Air Volumes up to 13.89m³/s
- Sizes 315 to 1000 dia protected to IP54
- Operating Temperatures from -40°C up to +70°C Motor
- Insulation Class F
- Thermal overload for motor protection
- All units reversible - Supply or Extract
- Tough epoxy paint finish
- Quality Assurance to BS EN ISO 9001:1994
- Performance tested to ISO 5801

Dimensions (mm)
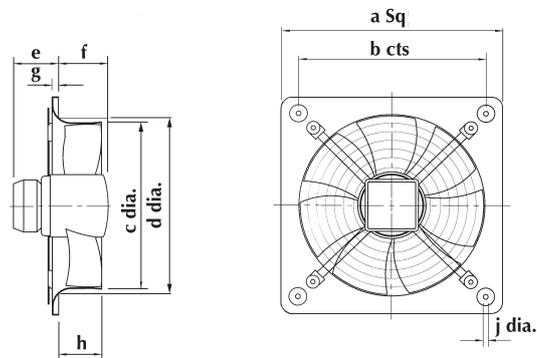
Dia	a	b	Øc	Ød	e	f	g	h	Øj	Kg
250	370	320	256.5	264.5	84	80	6	80	9	3.4
315	430	380	320	328	84	84	11	70	9	6.3
355	485	435	367	372	86	97	12	75	9	7.3
400	540	490	412	420	93	100	12	88	9	10.2
450	575	535	463	480	86	139	14	96	11	15.8
500	655	615	517	528	84	141	16	104	11	17.3
560	725	675	568	589	81	142.5	16	119	11	24
630	805	750	643	664	82	142.5	20	130	11	45
710	850	810	720	763	37	176.5	20	150	14.5	31
800	970	910	804	869	34	244	17	193	14.5	38
1000	1170	1110	1009	1067	40	284	20	200	14.5	84

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Performance Guide

Size	Phase	Pole	Fan Stock Ref	RPM	IP Rating	m³/s											Motor kW	S.C. Amps	F.L.C. Amps	dB(A) @ 3m
						0	25	50	70	100	125	150	200	225	250	300				
250	1	2	*ESP25012	2440	IP44	0.46	0.42	0.4	0.37	0.31	0.21	0.14					0.14	1.15	0.6	59
250	3	2	ESP25032	2700	IP44	0.59	0.57	0.55	0.53	0.5	0.45						0.35	2.5	0.63	61
315	1	2	ESP31512	2690	IP54	1.02	0.98	0.96	0.92	0.88	0.84	0.8	0.68				0.48	6	2.1	64
315	3	2	ESP31532	2800	IP54	1.06	1.03	1.01	0.98	0.95	0.92	0.89	0.81	0.69			0.48	5	0.9	60
250	1	4	*ESP25014	1340	IP44	0.21	0.17	0.12	0.07								0.04	0.3	0.16	44
315	1	4	ESP31514	1300	IP54	0.57	0.5	0.42	0.34								0.15	1.38	0.7	50
315	3	4	ESP31534	1390	IP54	0.58	0.52	0.44	0.35								0.11	2.1	0.27	46
355	1	4	ESP35514	1330	IP54	0.96	0.87	0.76	0.63								0.19	1.45	0.84	53
355	3	4	ESP35534	1370	IP54	1	0.92	0.83	0.71								0.17	1.35	0.37	49
400	1	4	ESP40014	1350	IP54	1.4	1.28	1.16	0.97								0.29	2.4	1.45	56
400	3	4	ESP40034	1350	IP54	1.48	1.38	1.28	1.08								0.26	2.1	0.56	51
450	1	4	ESP45014	1370	IP54	1.72	1.6	1.46	1.34	1.11							0.36	3.6	1.6	61
450	3	4	ESP45034	1380	IP54	1.8	1.7	1.59	1.43	1.24							0.36	2.6	0.8	56
500	1	4	ESP50014	1290	IP54	2.1	1.97	1.82	1.64	1.41							0.51	4.3	2.3	55
500	3	4	ESP50034	1380	IP54	2.27	2.15	2.05	1.9	1.75	1.54						0.55	3.7	1.05	58
560	1	4	ESP56014	1320	IP54	3.72	3.58	3.44	3.32	3.11	2.94	2.71					1.4	9.3	6	63
560	3	4	ESP56034	1220	IP54	3.43	3.24	3.08	2.92	2.67	2.38	2.05					1	7	1.8	70
630	1	4	ESP63014	1320	IP54	5.09	4.92	4.77	4.62	4.41	4.26	4.02	3.47	3.14	2.72		2.2	28	9.9	70
630	3	4	ESP63034	1360	IP54	5.19	5.01	4.86	4.71	4.47	4.23	4.02	3.41				1.9	14	3.2	64
710	3	4	ESP71034	1290	IP54	6.81	6.65	6.49	6.34	6.16	5.94	5.72	5.22	4.82	4.42		2.9	19	5.3	72
800	3	4	ESP80034	1270	IP54	10.39	10.1	9.81	9.57	9.18	8.79	8.45	7.73	7.2	6.72	5.51	4.7	29	8.3	78
355	1	6	ESP35516	950	IP54	0.69	0.53										0.09	1.2	0.46	44
355	3	6	ESP35536	910	IP54	0.62	0.35										0.09	0.5	0.25	45
400	1	6	ESP40016	940	IP54	0.98	0.81										0.13	1.4	0.6	45
400	3	6	ESP40036	920	IP54	0.96	0.79										0.11	0.9	0.28	50
450	1	6	ESP45016	915	IP54	1.15	0.99										0.17	2.7	0.77	50
450	3	6	ESP45036	890	IP54	1.16	1	0.75									0.12	1	0.28	51
500	3	6	ESP50036	900	IP54	1.52	1.35	1.16									0.23	1.5	0.56	56
560	1	6	ESP56016	880	IP54	2.46	2.25	1.95	1.65								0.43	4.6	1.95	56
560	3	6	ESP56036	860	IP54	2.39	2.15	1.83	1.42								0.39	1.75	0.81	56
630	1	6	ESP63016	880	IP54	3.33	3.06	2.75	2.46								0.6	5.3	2.7	57
630	3	6	ESP63036	890	IP54	3.37	3.1	2.8	2.48								0.59	3.6	1.3	59
710	1	6	ESP71016	850	IP54	4.56	4.24	3.9	3.53								0.89	8	4.1	60
710	3	6	ESP71036	860	IP54	4.71	4.41	4.11	3.8	3.29							1.1	7.7	2.2	62
800	3	6	ESP80036	900	IP54	6.3	5.94	5.58	5.22	4.67	3.95						1.4	9.8	2.7	64
1000	3	6	ESP100036	935	IP54	13.89	13.35	13.04	12.73	12.35	11.92	11.46	10.88	10.26	9.72		5.5	67	10.5	77
630	3	8	ESP63038	630	IP54	1.79	1.29										0.31	1.5	0.65	55
710	3	8	ESP71038	630	IP54	3.4	2.98	2.37									0.43	3.3	1.1	55
800	3	8	ESP80038	670	IP54	4.82	4.35	3.84									0.69	5	1.75	58
1000	3	8	ESP100038	670	IP54	9.78	9.35	8.91	8.42	7.66	6.63						2.2	13	4.2	65

For fans wired to reverse run, duty reduced by 30%.

EuroSeries® (ESP)

Models & Accessories

Fan Stock Ref	Speed Controllers Elect 1ph Stock Ref	Auto Transfor.	Starter Stock Ref	Overload Stock Ref
1 Phase - 2 Pole				
ESP25012	SP5001	SPM5020	444744	444699
ESP31512	SP5025	SPM5035	444744	444701
1 Phase - 4 Pole				
ESP25014	SP5001	SPM5020	444744	444696
ESP31514	SP5001	SPM5020	444744	444699
ESP35514	SP5001	SPM5020	444744	444699
ESP40014	SP5025	SPM5020	444744	444701
ESP45014	SP5025	SPM5020	444744	444701
ESP50014	SP5025	SPM5035	444744	444702
ESP56014	SP5010	SPM5075	444744	444704
ESP63014	-	SPM5140	444744	444706
1 Phase - 6 Pole				
ESP35516	SP5001	SPM5020	444744	444698
ESP40016	SP5001	SPM5020	444744	444699
ESP45016	SP5001	SPM5020	444744	444699
ESP56016	SP5025	SPM5035	444744	444701
ESP63016	SP5050	SPM5035	444744	444702
ESP71016	SP5050	SPM5060	444744	444703

Size	Louvre Shutter Stock Ref	Impeller Discharge Side Guard Stock Ref	Imp. Disch. Guard when used with a LS shutter Stock Ref
250	LS250	10502325	10502375
315	LS315	10502325	10502375
355	LS350	10502375	10502450
400	LS400	10502450	10502525
450	LS450	10502525	10502630
500	LS500	10502525	10502630
560	LS560	10502630	10502630
630	LS630	10502630	10502800
710	LS710	10502800	10502800
800	LS800	10502800	105021000
1000	LS1000	105021000	-

Note: - The Standard roof cowl colour is BS 00A 05 (Goose Wing Grey), for all special B.S. or RAL colours contact Vent-Axia.
            - When speed control is required a 5 step auto transformer speed controller is recommended, to ensure low noise levels.
            - All 3 phase models are suitable for frequency inverter speed control.

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| Fan | Speed Controller | | Starter | Overload |
Stock Ref	Auto Transfor. Stock Ref		Stock Ref	Stock Ref
3 Phase - 2 Pole				
ESP25032	RDTK10		444747	444699
ESP31532	RDTK20		444747	444700
ESP35532	RDTK40		444747	444702
3 Phase - 4 Pole				
ESP31534	RDTK10		444747	444697
ESP35534	RDTK10		444747	444698
ESP40034	RDTK10		444747	444699
ESP45034	RDTK10		444747	444699
ESP50034	RDTK20		444747	444700
ESP56034	RDTK40		444747	444701
ESP63034	RDTK40		444747	444702
ESP71034	RDTK70		444747	444703
ESP80034	RD14		444747	444705
3 Phase - 6 Pole				
ESP35536	RDTK10		444747	444697
ESP40036	RDTK10		444747	444697
ESP45036	RDTK10		444747	444697
ESP50036	RDTK10		444747	444699
ESP56036	RDTK10		444747	444699
ESP63036	RDTK20		444747	444700
ESP71036	RDTK40		444747	444702
ESP80036	RDTK40		444747	444702
ESP100036	RD14		444748	444706
3 Phase - 8 Pole				
ESP63038	RDTK10		444747	444699
ESP71038	RDTK20		444747	444700
ESP80038	RDTK20		444747	444701
ESP100038	RDTK70		444747	444703

EuroSeries® (ESC)
Short Case Axial Fans

ROOF UNITS

from Vent-Axia

Features & Benefits

- External rotor motors
- Die cast aluminium impellers
- Fully speed controllable
- Air Volumes up to 13.89m³/s
- Sizes 250 to 1000 protected to IP54
- Operating Temperatures from -40°C up to +70°C
- Motor Insulation Class F
- HOT SPOT Protection
- All units reversible for supply or extract
- Tough epoxy paint finish
- Quality Assurance to BS EN ISO 9001:1994
- Performance tested to BS848 Part 1 1980

Dimensions (mm)

Dia	ØA	ØB	ØC	D	ØE	n	kg
250	254	286	306	110	7	8	5
315	316.5	356	382	135	9.5	8	6.1
355	356	395	421	135	9.5	8	7.1
400	400	438	466	155	9.5	12	8.1
450	451	487	515	160	9.5	12	13.4
500	503	541	567	166	9.5	12	15.7
560	559	605	635	210	11.5	16	20.1
630	634	674	707	220	11.5	16	44
710	711	751	785	260	11.5	16	31
800	797	837	871	280	11.5	24	39
1000	1001	1043	1080	330	11.5	24	73

To complement the Euroseries fans, we offer a comprehensive range of purpose made ancillary items. These can be purchased individually, or for more convenience and economy, they are also available as an ancillary pack containing:

- 4 - Anti vibration mountings
- 2 - Feet per ancillary pack
- 2 - Matching flanges
- 2 - Sound barrier flexible connectors (with clips)

Mounting Feet
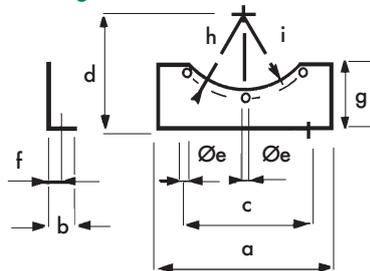
Stock Ref.	a	b	c	d	Øe	f	g	h	i
MFZ315	315	40	265	200	10	20	71	178	166
MFZ355	350	40	300	225	10	20	81.5	198	186
MFZ400	250	40	220	250	10	20	78	219	205
MFZ450	275	40	240	275	10	20	82	244	230
MFZ500	315	50	280	315	1	25	100	271	255
MFZ560	355	50	320	355	12	25	97	303	285
MFZ630	400	50	360	400	12	25	109	337	320
MFZ710	465	50	415	450	12	25	119	376	362
MFZ800	458	50	420	518	12	25	176	419	405

Anti Vibration Mountings
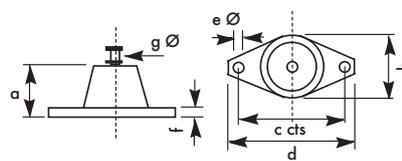
Stock ref	a	b	c	d	e	f	g
68MP033G	27	37	54	67	7	3	M8

Coupling Flanges
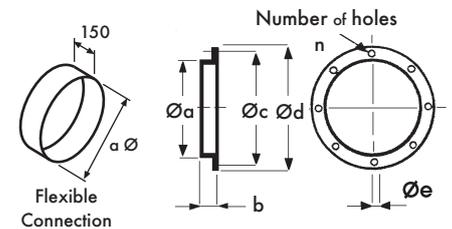
Stock Ref.	Øa	b	Øc	Ød	Øe	n	Connection Flexible
CFZ315	313	40	356	382	10	8	FCZ315
CFZ355	353	40	395	421	10	8	FCZ355
CFZ400	398	45	438	466	10	12	FCZ400
CFZ450	448	45	487	515	10	12	FCZ450
CFZ500	498	45	541	567	10	12	FCZ500
CFZ560	558	45	605	635	12	16	FCZ560
CFZ630	628	45	674	707	12	16	FCZ630
CFZ710	708	50	751	785	12	16	FCZ710
CFZ800	798	50	837	871	12	24	FCZ800
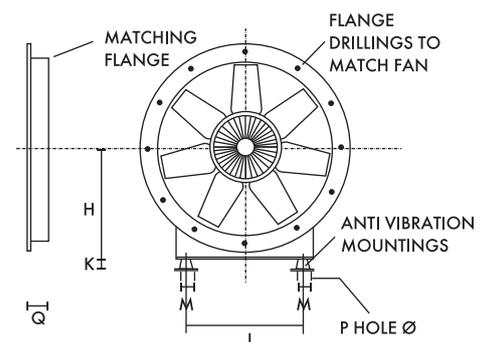
Unit size	H	J	K†	M	P	Q
315	200	265	27	54	7	40
355	225	300	27	54	7	40
400	250	220	27	54	7	45
450	275	240	27	54	7	45
500	315	280	27	54	7	45
560	355	320	27	54	7	45
630	400	360	27	54	7	45
710	450	415	27	54	7	50
800	518	420	27	54	7	50

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Performance Guide

Size	Phase	Fan Stock Ref	RPM	IP Rating	0	25	50	70	100	m³/s 125	150	200	225	250	300	Motor kW	S.C. Amps	F.L.C. Amps	dB(A) @ 3m
2 Pole																			
250	1	ESC25012	2440	IP44	0.46	0.42	0.4	0.37	0.31	0.21	0.14					0.14	1.15	0.6	59
250	3	ESC25032	2700	IP44	0.59	0.57	0.55	0.53	0.5	0.45						0.35	2.5	0.63	61
315	1	ESC31512	2690	IP54	1.02	0.98	0.96	0.92	0.88	0.84	0.8	0.68				0.48	6	2.1	64
315	3	ESC31532	2800	IP54	1.06	1.03	1.01	0.98	0.95	0.92	0.89	0.81	0.69			0.48	5	0.9	60
355	3	ESC35532	2700	IP54	1.42	1.37	1.33	1.3	1.27	1.22	1.18	1.07	1.01	0.89		1.05	8	2.2	73
4 Pole																			
250	1	ESC25014	1340	IP44	0.21	0.17	0.12	0.07								0.04	0.3	0.16	44
315	1	ESC31514	1300	IP54	0.57	0.5	0.42	0.34								0.15	1.38	0.7	50
315	3	ESC31534	1390	IP54	0.58	0.52	0.44	0.35								0.11	2.1	0.27	46
355	1	ESC35514	1330	IP54	0.96	0.87	0.76	0.63								0.19	1.45	0.84	53
355	3	ESC35534	1370	IP54	1	0.92	0.83	0.71								0.17	1.35	0.37	49
400	1	ESC40014	1350	IP54	1.4	1.28	1.16	0.97								0.29	2.4	1.45	56
400	3	ESC40034	1350	IP54	1.48	1.38	1.28	1.08								0.26	2.1	0.56	51
450	1	ESC45014	1370	IP54	1.72	1.6	1.46	1.34	1.11							0.36	3.6	1.6	61
450	3	ESC45034	1380	IP54	1.8	1.7	1.59	1.43	1.24							0.36	2.6	0.8	56
500	1	ESC50014	1290	IP54	2.1	1.97	1.82	1.64	1.41							0.51	4.3	2.3	55
500	3	ESC50034	1380	IP54	2.27	2.15	2.05	1.9	1.75	1.54						0.55	3.7	1.05	58
560	1	ESC56014	1320	IP54	3.72	3.58	3.44	3.32	3.11	2.94	2.71					1.4	9.3	6	63
560	3	ESC56034	1220	IP54	3.43	3.24	3.08	2.92	2.67	2.38	2.05					1	7	1.8	70
630	1	ESC63014	1320	IP54	5.09	4.92	4.77	4.62	4.41	4.26	4.02	3.47	3.14	2.72		2.2	28	9.9	70
630	3	ESC63034	1360	IP54	5.19	5.01	4.86	4.71	4.47	4.23	4.02	3.41				1.9	14	3.2	64
710	3	ESC71034	1290	IP54	6.81	6.65	6.49	6.34	6.16	5.94	5.72	5.22	4.82	4.42		2.9	19	5.3	72
800	3	ESC80034	1270	IP54	10.39	10.1	9.81	9.57	9.18	8.79	8.45	7.73	7.2	6.72	5.51	4.7	29	8.3	78
6 Pole																			
355	1	ESC35516	950	IP54	0.69	0.53										0.09	1.2	0.46	44
355	3	ESC35536	910	IP54	0.62	0.35										0.09	0.5	0.25	45
400	1	ESC40016	940	IP54	0.98	0.81										0.13	1.4	0.6	45
400	3	ESC40036	920	IP54	0.96	0.79										0.11	0.9	0.28	50
450	1	ESC45016	915	IP54	1.15	0.99										0.17	2.7	0.77	50
450	3	ESC45036	890	IP54	1.16	1	0.75									0.12	1	0.28	51
500	3	ESC50036	900	IP54	1.52	1.35	1.16									0.23	1.5	0.56	56
560	1	ESC56016	880	IP54	2.46	2.25	1.95	1.65								0.43	4.6	1.95	56
560	3	ESC56036	860	IP54	2.39	2.15	1.83	1.42								0.39	1.75	0.81	56
630	1	ESC63016	880	IP54	3.33	3.06	2.75	2.46								0.6	5.3	2.7	57
630	3	ESC63036	890	IP54	3.37	3.1	2.8	2.48								0.59	3.6	1.3	59
710	1	ESC71016	850	IP54	4.56	4.24	3.9	3.53								0.89	8	4.1	60
710	3	ESC71036	860	IP54	4.71	4.41	4.11	3.8	3.29							1.1	7.7	2.2	62
800	3	ESC80036	900	IP54	6.3	5.94	5.58	5.22	4.67	3.95						1.4	9.8	2.7	64
1000	3	ESC100036	935	IP54	13.89	13.35	13.04	12.73	12.35	11.92	11.46	10.88	10.26	9.72		5.5	67	10.5	77

For Fans wired to reverse run, duty reduced by 30%

EuroSeries® (ESC)

Models & Accessories

Fan Stock Ref	Speed Controller Electronic Stock Ref	Speed Controller Auto Transfor. Stock Ref	Starter Stock Ref	Overload Stock Ref	Fan Stock Ref	Speed Controller Auto Transfor. Stock Ref
1 Phase 2 Pole					**3 Phase 2 Pole**	
ESC25012	SP5001	SPM5020	444744	444699	ESC25032	RDTK10
ESC31512	SP5025	SPM5035	444744	444701	ESC31532	RDTK10
					ESC35532	RDTK40
1 Phase 4 Pole					**3 Phase 4 Pole**	
ESC25014	SP5001	SPM5020	444744	444696		
ESC31514	SP5001	SPM5020	444744	444699	ESC31534	RDTK10
ESC35514	SP5001	SPM5020	444744	444699	ESC35534	RDTK10
ESC40014	SP5025	SPM5020	444744	444701	ESC40034	RDTK10
ESC45014	SP5025	SPM5020	444744	444701	ESC45034	RDTK10
ESC50014	SP5025	SPM5035	444744	444702	ESC50034	RDTK20
ESC56014	SP5010	SPM5075	444744	444704	ESC56034	RDTK40
ESC63014		SPM5140	444744	444706	ESC63034	RDTK40
					ESC71034	RDTK70
					ESC80034	RD14
1 Phase 6 Pole					**3 Phase 6 Pole**	
ESC35516	SP5001	SPM5020	444744	444698	ESC35536	RDTK10
ESC40016	SP5001	SPM5020	444744	444699	ESC40036	RDTK10
ESC45016	SP5001	SPM5020	444744	444699	ESC45036	RDTK10
					ESC50036	RDTK10
ESC56016	SP5025	SPM5035	444744	444701	ESC56036	RDTK10
ESC63016	SP5050	SPM5035	444744	444702	ESC63036	RDTK20
ESC71016	SP5050	SPM5060	444744	444703	ESC71036	RDTK40
					ESC80036	RDTK40
					ESC100036	RD14

Size	1D Long - No Pod Stock Ref	1D Long - With Pod Stock Ref	2D Long - No Pod Stock Ref	2D Long - With Pod Stock Ref
250	ACZ2501D	–	ACZ2502D	-
315	ACZ3151D	ACZ3151DP	ACZ3152D	ACZ3152DP
355	ACZ3551D	ACZ3551DP	ACZ3552D	ACZ3552DP
400	ACZ4001D	ACZ4001DP	ACZ4002D	ACZ4002DP
450	ACZ4501D	ACZ4501DP	ACZ4502D	ACZ4502DP
500	ACZ5001D	ACZ5001DP	ACZ5002D	ACZ5002DP
560	ACZ5601D	ACZ5601DP	ACZ5602D	ACZ5602DP
630	ACZ6301D	ACZ6301DP	ACZ6302D	ACZ6302DP
710	ACZ7101D	ACZ7101DP	ACZ7102D	ACZ7102DP
800	ACZ8001D	ACZ8001DP	ACZ8002D	ACZ8002DP

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Starter Stock Ref	Overload Stock Ref	Ancillary Packs Stock Ref	Mounting Feet (pair) Stock Ref	Matching Flanges (each) Stock Ref	Wire Guards (each) Stock Ref	Anti.Vib. Mnts (set of 4) Stock Ref
444747	444699	APZ250	MFZ250	CFZ250	WGZ250	68MP033G
444747	444700	APZ315	MFZ315	CFZ315	WGZ315	68MP033G
444747	444702	APZ355	MFZ355	CFZ355	WGZ355	68MP033G
		APZ250	MFZ250	CFZ250	WGZ250	68MP033G
444747	444697	APZ315	MFZ315	CFZ315	WGZ315	68MP033G
444747	444698	APZ355	MFZ355	CFZ355	WGZ355	68MP033G
444747	444699	APZ400	MFZ400	CFZ400	WGZ400	68MP033G
444747	444699	APZ450	MFZ450	CFZ450	WGZ450	68MP033G
444747	444700	APZ500	MFZ500	CFZ500	WGZ500	68MP033G
444747	444701	APZ560	MFZ560	CFZ560	WGZ560	68MP033G
444747	444702	APZ630	MFZ630	CFZ630	WGZ630	68MP033G
444747	444703	APZ710	MFZ710	CFZ710	WGZ710	68MP033G
444747	444705	APZ800	MFZ800	CFZ800	WGZ800	68MP033G
444747	444697	APZ355	MFZ355	CFZ355	WGZ355	68MP033G
444747	444697	APZ400	MFZ400	CFZ400	WGZ400	68MP033G
444747	444697	APZ450	MFZ450	CFZ450	WGZ450	68MP033G
444747	444699	APZ500	MFZ500	CFZ500	WGZ500	68MP033G
444747	444699	APZ560	MFZ560	CFZ560	WGZ560	68MP033G
444747	444700	APZ630	MFZ630	CFZ630	WGZ630	68MP033G
444747	444702	APZ710	MFZ710	CFZ710	WGZ710	68MP033G
444747	444702	APZ800	MFZ800	CFZ800	WGZ800	68MP033G

Note: - The Standard roof cowl colour is BS 00A 05 (Goose Wing Grey) for all special B.S. or RAL colours contact Vent-Axia.
- When speed control is required a 5 step auto transformer speed controller is recommended, to ensure low noise levels.
- All 3 phase models are suitable for frequency inverter speed control.

EuroSeries® (ESR)
Roof Mounting Axial Fans

ROOF UNITS

from Vent-Axia

Features & Benefits

- Cowl & base moulded from recyclable polymeric material
- All sizes resistant to UV light
- Sizes 315 to 1000 dia are protected to IP54
- Optional backdraught shutters and bird guard (250-630mm)
- All models speed controllable
- Motor Insulation Class F, -40°C to +70°C operating temperature
- Reversible for supply or extract units
- Thermal overload for motor protection
- Performance tested to BS848 part 1 1980

Fan Dimensions (mm)

Purlin Box (mm)

Kerb detail
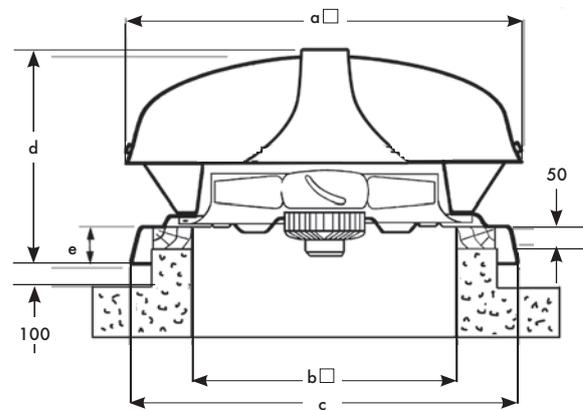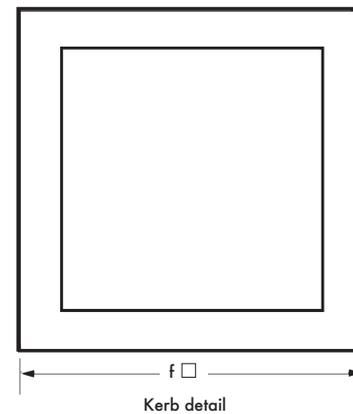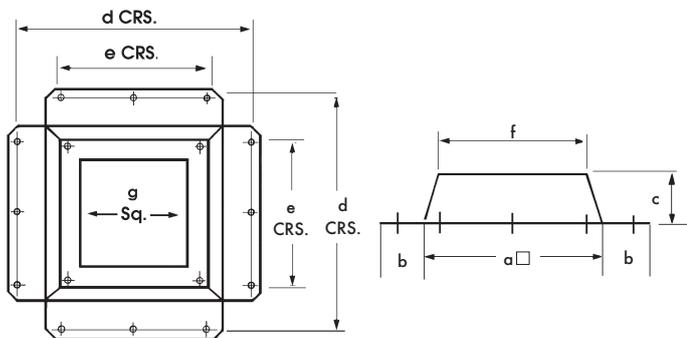
Size	a	b	c	d	e	f □	g □
250	625	90	240	765	400	590	460
315	625	90	240	765	400	590	460
355	625	90	240	765	400	590	460
400	725	90	240	865	500	705	565
450	725	90	240	865	500	705	565
500	890	70	250	990	650	850	640
560	890	70	250	990	650	870	700
630	1030	75	250	1140	760	985	775
710	1030	75	250	1140	760	985	840
800	980	37	267	1016	406	980	880
1000	1180	76	279	1294	508	1180	1080

Size	a	b	c	d	e	f	kg Max
250	700	475	737	411	97	675	13.25
315	700	475	737	411	97	675	16.3
355	700	475	737	411	97	675	16.3
400	800	575	830	466	97	775	18.4
450	800	575	830	466	97	775	20.3
500	950	715	1000	579	100	915	35.5
560	950	715	1000	579	100	915	35.5
630	1230	840	1100	731	105	1040	62
710	1230	840	1100	731	105	1040	62
800	1420	870	1190	731	105	1070	78
1000	1680	1070	1455	795	131	1270	134

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Performance Guide

Size	Phase	Fan Stock Ref	RPM	IP Rating	0	25	50	70	100	m³/s 125	150	200	225	250	300	Motor kW	S.C. Amps	F.L.C. Amps	dB(A) @ 3m
2 Pole																			
250	1	*ESR25012	2440	IP44	0.28	0.24	0.22	0.19	0.136	0.09						0.14	1.15	0.6	59
250	3	ESR25032	2700	IP44	0.41	0.39	0.37	0.35	0.32	0.27						0.35	2.5	0.63	61
315	1	ESR31512	2690	IP54	0.84	0.8	0.78	0.74	0.7	0.66	0.62	0.5				0.48	6	2.1	64
315	3	ESR31532	2800	IP54	0.88	0.85	0.83	0.8	0.77	0.74	0.71	0.63	0.51			0.48	5	0.9	60
4 Pole																			
250	1	*ESR25014	1340	IP44	0.3											0.04	0.3	0.16	44
315	1	ESR31514	1300	IP54	0.38	0.32	0.24	0.16								0.15	1.38	0.7	50
315	3	ESR31534	1390	IP54	0.4	0.34	0.26	0.17								0.11	2.1	0.27	46
355	1	ESR35514	1330	IP54	0.78	0.69	0.58	0.45								0.19	1.45	0.84	53
355	3	ESR35534	1370	IP54	0.82	0.74	0.65	0.53								0.17	1.35	0.37	49
400	1	ESR40014	1350	IP54	1.14	1.02	0.89	0.7								0.29	2.4	1.45	56
400	3	ESR40034	1350	IP54	1.21	1.11	1.01	0.81								0.26	2.1	0.56	51
450	1	ESR45014	1370	IP54	1.45	1.33	1.19	1.07	0.85							0.36	3.6	1.6	61
450	3	ESR45034	1380	IP54	1.54	1.43	1.32	1.17	0.98							0.36	2.6	0.8	56
500	1	ESR50014	1290	IP54	1.43	1.31	1.15	0.98	0.75							0.51	4.3	2.3	55
500	3	ESR50034	1380	IP54	1.61	1.49	1.38	1.23	1.09	0.87						0.55	3.7	1.05	58
560	1	ESR56014	1320	IP54	3.05	2.91	2.77	2.65	2.44	2.28	2.04					1.4	9.3	6	63
560	3	ESR56034	1220	IP54	2.76	2.58	2.41	2.25	2	1.72	1.39					1	7	1.8	70
630	1	ESR63014	1320	IP54	4.38	4.21	4.06	3.91	3.7	3.55	3.31	2.76	2.43	2.01		2.2	28	9.9	70
630	3	ESR63034	1360	IP54	4.49	4.3	4.15	4	3.76	3.52	3.31	2.7				1.9	14	3.2	64
710	3	ESR71034	1290	IP54	6.1	5.96	5.78	5.63	5.45	5.23	5.02	4.51	4.11	3.71		2.9	19	5.3	72
800	3	ESR80034	1270	IP54	8.89	8.6	8.31	8.07	7.68	7.29	6.96	6.23	5.7	5.22	4.01	4.7	29	8.3	78
6 Pole																			
355	1	ESR35516	950	IP54	0.51	0.35										0.09	1.2	0.46	44
355	3	ESR35536	910	IP54	0.44	0.17										0.09	0.5	0.25	45
400	1	ESR40016	940	IP54	0.72	0.55										0.13	1.4	0.6	45
400	3	ESR40036	920	IP54	0.7	0.53										0.11	0.9	0.28	50
450	1	ESR45016	915	IP54	0.89	0.73										0.17	2.7	0.77	50
450	3	ESR45036	890	IP54	0.89	0.74	0.48									0.12	1	0.28	51
500	3	ESR50036	900	IP54	0.85	0.69	0.49									0.23	1.5	0.56	56
560	1	ESR56016	880	IP54	1.8	1.58	1.3	0.99								0.43	4.6	1.95	56
560	3	ESR56036	860	IP54	1.72	1.48	1.16	0.75								0.39	1.75	0.81	56
630	1	ESR63016	880	IP54	2.63	2.35	2.05	1.76								0.6	5.3	2.7	57
630	3	ESR63036	890	IP54	2.66	2.39	2.07	1.78								0.59	3.6	1.3	59
710	1	ESR71016	850	IP54	3.85	3.53	3.19	2.83								0.89	8	4.1	60
710	3	ESR71036	860	IP54	4	3.7	3.4	3.1	2.58							1.1	7.7	2.2	62
800	3	ESR80036	900	IP54	4.81	4.44	4.08	3.72	3.18	2.45						1.4	9.8	2.7	64
1000	3	ESR100036	935	IP54	10.88	10.34	10.04	9.73	9.34	8.92	8.45	7.87	7.26	6.72		5.5	67	10.5	77
8 Pole																			
630	3	ESR63038	630	IP54	1.08	0.58										0.31	1.5	0.65	55
710	3	ESR71038	630	IP54	2.69	2.27	1.66									0.43	3.3	1.1	55
800	3	ESR80038	670	IP54	3.32	2.85	2.34									0.69	5	1.75	58
1000	3	ESR100038	670	IP54	6.78	6.34	5.91	5.42	4.66	3.63						2.2	13	4.2	65

FLC = Full Load Current   SC = Starting Current
*Not suitable for reverse operation.

EuroSeries® (ESR)

Models & Accessories

	Speed Controllers				
	Electronic	Auto	Starter	Overload	
Fan	1ph	Transfor 1ph	1 phase	Stock	Fan
Stock Ref	Stock Ref	Stock Ref	Ref	Ref	Stock Ref
1 Phase - 2 Pole					**3 Phase - 2 Pole**
ESR25012	SP5001	SPM5020	444744	444699	ESR25032
ESR31512	SP5025	SPM5035	444744	444701	ESR31532
1 Phase - 4 Pole					**3 Phase - 4 Pole**
ESR25014	SP5001	SPM5020	444744	444696	
ESR31514	SP5001	SPM5020	444744	444699	ESR31534
ESR35514	SP5001	SPM5020	444744	444699	ESR35534
ESR40014	SP5025	SPM5020	444744	444701	ESR40034
ESR45014	SP5025	SPM5020	444744	444701	ESR45034
ESR50014	SP5025	SPM5035	444744	444702	ESR50034
ESR56014	SP5010	SPM5075	444744	444704	ESR56034
ESR63014		SPM5140	444744	444706	ESR63034
					ESR71034
					ESR80034
1 Phase - 6 Pole					**3 Phase - 6 Pole**
ESR35516	SP5001	SPM5020	444744	444698	ESR35536
ESR40016	SP5001	SPM5020	444744	444699	ESR40036
ESR45016	SP5001	SPM5020	444744	444699	ESR45036
					ESR50036
ESR56016	SP5025	SPM5035	444744	444701	ESR56036
ESR63016	SP5050	SPM5035	444744	444702	ESR63036
ESR71016	SP5050	SPM5060	444744	444703	ESR71036
					ESR80036
					ESR100036
					3 Phase - 6 Pole
					ESR63038
					ESR71038
					ESR80038
					ESR100038

	Roof Cowl Assembly	Drop in Curb Attenuator		
	ONLY (No Fan)	(600mm)	(900mm)	(1200mm)
Model Ref	Stock Ref	Stock Ref	Stock Ref	Stock Ref
ESR250	-	RAZ300600	RAZ300900	-
ESR315 & 355	RCZ300	RAZ300600	RAZ300900	RAZ3001200
ESR400 & 450	RCZ400	RAZ400600	RAZ400900	RAZ4001200
ESR500 & 560	RCZ500	RAZ500600	RAZ500900	RAZ5001200
ESR630	RCZ630	RAZ600600	RAZ600900	RAZ6001200
ESR710	RCZ630	RAZ600600	RAZ600900	RAZ6001200
ESR800	RCZ800			
ESR1000	RCZ1000			

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Speed Controllers

Auto Transfor 3ph Stock Ref	Starter 3 phase Stock Ref	Overload Stock Ref	Shutters Stock Ref	Birdguard Stock Ref	Adaptor Units (Purlin Box) Stock Ref
RDTK10	444747	444699	RSZ300	BGZ300	PBZ300
RDTK10	444747	444700	RSZ300	BGZ300	PBZ300
			RSZ300	BGZ300	PBZ300
RDTK10	444747	444697	RSZ300	BGZ300	PBZ300
RDTK10	444747	444698	RSZ300	BGZ300	PBZ300
RDTK10	444747	444699	RSZ400	BGZ400	PBZ400
RDTK10	444747	444699	RSZ400	BGZ400	PBZ400
RDTK20	444747	444700	RSZ500	BGZ500	PBZ500
RDTK40	444747	444701	RSZ500	BGZ500	PBZ560
RDTK40	444747	444702	RSZ630	BGZ630	PBZ630
RDTK70	444747	444703	RSZ630	BGZ630	PBZ710
RD14	444747	444705	-	INCL	PBZ800
RDTK10	444747	444697	RSZ300	BGZ300	PBZ300
RDTK10	444747	444697	RSZ400	BGZ400	PBZ400
RDTK10	444747	444697	RSZ400	BGZ400	PBZ400
RDTK10	444747	444699	RSZ500	BGZ500	PBZ500
RDTK10	444747	444699	RSZ500	BGZ500	PBZ560
RDTK20	444747	444700	RSZ630	BGZ630	PBZ630
RDTK40	444747	444702	RSZ630	BGZ630	PBZ710
RDTK40	444747	444702	-	INCL	PBZ800
RD14	444748	444706	-	INCL	PBZ1000
RDTK10	444747	444699	RSZ630	BGZ630	PBZ630
RDTK20	444747	444700	RSZ630	BGZ630	PBZ710
RDTK20	444747	444701	-	INCL	PBZ800
RDTK70	444747	444703	-	INCL	PBZ1000

Note: - The Standard roof cowl colour is BS 00A 05 (Goose Wing Grey) for all special B.S. or RAL colours contact Vent-Axia.
- When speed control is required a 5 step auto transformer speed controller is recommended, to ensure low noise levels.
- All 3 phase models are suitable for frequency inverter speed control.

Quiet Pack (QP)
In-Line Centrifugal Duct Fans

ROOF UNITS

from Vent-Axia

Features & Benefits

- 20mm 'O' Class rated acoustically treated casing, ensuring minimum duct and breakout noise levels
- Air volumes up to 1.08m³/s
- Suitable for external pressures up to 430Pa
- Designed to suit duct diameters from 100 to 500mm
- Operating Temperatures from 15˚C up to +40˚C
- Speed Controllable
- Quality Assurance to BS EN ISO 9001:1994
- Performance tested to BS848 Part 1 1980

Sound Power Level Spectra dB (ref 10⁻¹² Watts)

Fan Stock Ref		63	125	250	500	1k	2k	4k	8k	dB(A) @ 3m
QP100B	Inlet	55	63	47	45	45	43	42	31	31
	Outlet	49	63	53	55	50	47	45	40	36
	Breakout	50	58	45	39	34	20	20	20	24
QP125B	Inlet	51	58	49	42	39	37	33	20	27
	Outlet	50	55	54	53	55	47	45	41	37
	Breakout	47	51	45	35	31	20	20	20	20
QP150B	Inlet	62	66	50	54	49	49	49	45	37
	Outlet	56	66	62	61	62	64	62	62	49
	Breakout	57	58	54	46	42	38	37	30	29
QP160B	Inlet	62	66	50	54	49	49	49	45	37
	Outlet	56	66	62	61	62	64	62	62	49
	Breakout	57	58	54	46	42	38	37	30	29
QP200B	Inlet	61	66	53	55	51	46	48	45	36
	Outlet	57	67	63	63	66	64	63	62	50
	Breakout	57	61	53	47	43	37	36	33	30
QP250B	Inlet	68	63	59	56	50	46	45	41	37
	Outlet	64	67	61	63	61	58	59	59	46
	Breakout	64	65	59	53	48	43	40	34	35
QP315B	Inlet	73	72	66	61	59	59	56	47	45
	Outlet	72	74	71	69	70	69	67	61	55
	Breakout	70	72	68	61	57	58	55	48	45
QP400B	Inlet	74	74	68	62	61	61	58	51	47
	Outlet	72	76	71	71	73	70	70	66	57
	Breakout	77	75	69	64	59	59	56	47	47
QP500B	Inlet	70	73	67	62	61	63	60	54	48
	Outlet	60	70	69	70	71	70	67	61	55
	Breakout	77	75	69	64	59	59	56	47	47

Dimensions (mm)
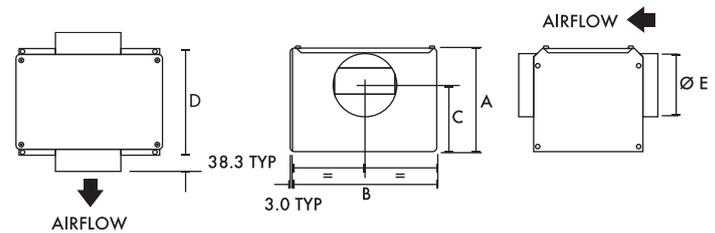
Size	A	B	C	D	ØE	Kg
QP100	268	363	171	272	97	14
QP125	268	363	171	272	122	14
QP150	322	400	203	336	147	14
QP160	322	400	203	336	157	14
QP200	322	400	203	336	197	20
QP250	472	614	320	499	247	25
QP315	530	630	300	560	312	35
QP400	530	630	300	560	397	50
QP500	530	630	263	560	497	75

Anti Vibration Mountings

Stock ref	a	b	c	d	eØ	f	g
68MP033G	27	37	54	67	7	3	M8

Performance Guide

Fan Stock Ref	RPM	Ph.	Duty m³/s @ Pa									Motor kW	Amps FLC	SC
			0	50	100	150	200	250	300	350	400			
QP100	2500	1	0.06	0.06	0.05	0.03						0.08	0.64	2.6
QP125	2500	1	0.07	0.06	0.05	0.04						0.08	0.64	2.6
QP150	1400	1	0.18	0.18	0.16	0.15	0.13	0.11	0.08			0.145	0.7	3.2
QP160	1400	1	0.19	0.18	0.17	0.15	0.10	0.09	0.07	0.06		0.145	0.7	3.2
QP200	1500	1	0.25	0.23	0.21	0.19	0.15	0.13	0.11	0.09		0.28	0.81	4.0
QP250	950	1	0.53	0.49	0.44	0.20	0.17	0.14	0.11	0.08		0.60	3.1	12.0
QP315	1100	1	0.90	0.84	0.78	0.70	0.62	0.48	0.35	0.21		1.255	6.0	13.0
QP400	1100	1	0.99	0.94	0.87	0.81	0.72	0.60	0.46	0.29	0.11	1.25	6.0	13.0
QP500	1100	1	1.08	1.02	0.96	0.90	0.83	0.73	0.61	0.34	0.13	1.25	6.0	13.0

FLC = Full Load Current   SC = Starting Current

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Models & Accessories

| Fan | Speed Controller | | Starter | Overload | Anti Vibration Mounts |
| | Electronic | Auto | | | |
Stock Ref	Stock Ref	Transfor.	Stock Ref	Stock Ref	Stock Ref
QP100B	SP5001	SPM5020	444744	444699	68MP033G
QP125B	SP5001	SPM5020	444744	444699	68MP033G
QP150B	SP5001	SPM5020	444744	444699	68MP033G
QP160B	SP5001	SPM5020	444744	444699	68MP033G
QP200A	SP5001	SPM5020	444744	444700	68MP033G
QP250B	SP5050	SPM5035	444744	444702	68MP033G
QP315B	SP5010	SPM5075	444744	444704	68MP033G
QP400B	SP5010	SPM5075	444744	444704	68MP033G
QP500B	SP5010	SPM5075	444744	444704	68MP033G

| Fan | Electric Heaters | Panel Filters | Spare Panel Filters | Bag Filters | Spare Bag Filters |
Stock Ref	Stock Ref	Stock Ref	Stock Ref	Stock Ref	Stock Ref
QP100B	10531100T1	QPF100A	FILTERS100	QPFB100A	FILTERQPFB100
QP125B	10531125T1	QPF125A	FILTERS125160	QPFB125A	FILTERQPFB125
QP150B	10531150T1	QPF150A	FILTERS125160	QPFB150A	-
QP160B	10531150T1	QPF160A	FILTERS125160	QPFB160	FILTERQPFB160
QP200A	10531200T1	QPF200A	FILTERS200	QPFB200A	FILTERQPFB200
QP250B	10531250T1	QPF250	FILTERS250	QPFB250A	FILTERQPFB250
QP315B	10531315T1	QPF315A	FILTERS315	QPFB315A	FILTERQPFB315
QP400B	10531400T3	QPF400A	FILTERS400	QPFB400A	FILTERQPFB400
QP500B	10531500T3	QPF500A	63PF665	QPFB500A	63BF665

| Fan | In-line Attenuators | | | | Wall Terminal |
| | 300mm | 600mm | 900mm | 1200mm | |
Stock Ref	Stock Ref	Stock Ref	Stock Ref	Stock Ref	Stock Ref
QP100B	83010030	83010060	83010090	-	SA100/280
QP125B	83012030	83012060	83012090	-	SA125/280
QP150B	83015030	83015060	83015090	-	SA150/280
QP160B	83016030	83016060	83016090	-	SA150/280
QP200A	-	83020060	83020090	83020120	SA200/280
QP250B	-	83025060	83025090	83025120	SA250/280
QP315B	-	83031060	83031090	83031120	SA315/280
QP400B	-	-	83040090	83040120	QSA400/280
QP500B	-	-	83050090	83050120	-

Quiet Pack
Twin Fan (QPTW)
In-Line Twin Fans

ROOF UNITS

from Vent-Axia

Features & Benefits

- Air volumes up to 1.08m³/s
- Suitable for external pressures up to 400Pa
- Designed to suit duct diameters from 100 to 500mm
- Operating temperatures up to +40˚C
- Speed controllable
- Quality assurance to BS EN ISO 9001:1994
- Performance tested to BS848 Part 1 1980

Sound Power Level Spectra dB (ref 10⁻¹² Watts)

Fan Stock Ref		63	125	250	500	1k	2k	4k	8k	dB(A) @ 3m
QPTW100B	Inlet	55	63	47	45	45	43	42	31	31
	Outlet	49	63	53	55	50	47	45	40	36
	Breakout	50	58	45	39	34	20	20	20	24
QPTW125B	Inlet	51	58	49	42	39	37	33	20	27
	Outlet	50	55	54	53	55	47	45	41	37
	Breakout	47	51	45	35	31	20	20	20	20
QPTW150B	Inlet	62	66	50	54	49	49	49	45	37
	Outlet	56	66	62	61	62	64	62	62	49
	Breakout	57	58	54	46	42	38	37	30	29
QPTW160B	Inlet	62	66	50	54	49	49	49	45	37
	Outlet	56	66	62	61	62	64	62	62	49
	Breakout	57	58	54	46	42	38	37	30	29
QPTW200B	Inlet	61	66	53	55	51	46	48	45	36
	Outlet	57	67	63	63	66	64	63	62	50
	Breakout	57	61	53	47	43	37	36	33	30
QPTW250B	Inlet	68	63	59	56	50	46	45	41	37
	Outlet	64	67	61	63	61	58	59	59	46
	Breakout	64	65	59	53	48	43	40	34	35
QPTW315B	Inlet	73	72	66	61	59	59	56	47	45
	Outlet	72	74	71	69	70	69	67	61	55
	Breakout	70	72	68	61	57	58	55	48	45
QPTW400B	Inlet	74	74	68	62	61	61	58	51	47
	Outlet	72	76	71	71	73	70	70	66	57
	Breakout	77	75	69	64	59	59	56	47	47
QPTW500B	Inlet	70	73	67	62	61	63	60	54	48
	Outlet	60	70	69	70	71	70	67	61	55
	Breakout	77	75	69	64	59	59	56	47	47

Dimensions (mm)

AIRFLOW

AIRFLOW
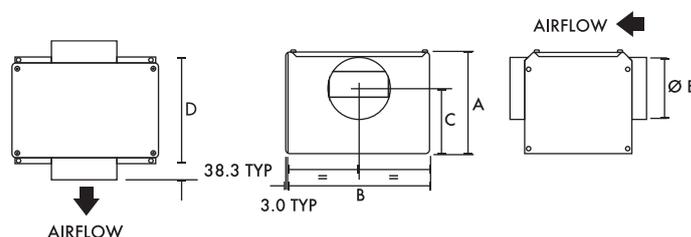
Size	A	B	C	D	ØE	Kg
QPTW100	290	635	171	450	97	24
QPTW125	290	635	171	450	122	24
QPTW150	340	635	203	550	147	24
QPTW160	340	635	203	550	157	24
QPTW200	340	770	203	550	197	35
QPTW250	495	1015	320	750	247	43
QPTW315	595	1015	300	750	312	61
QPTW400	595	1015	300	750	397	87
QPTW500	595	1015	300	750	497	131

Anti Vibration Mountings

Stock ref	a	b	c	d	eØ	f	g
68MP033G	27	37	54	67	7	3	M8

Performance Guide

| Model | RPM | Ph. | Duty m³/s @ Pa | | | | | | | | | Motor Amps | | |
			0	50	100	150	200	250	300	350	400	kW	FLC	SC
QPTW100	2500	1	0.05	0.05	0.04	0.03						0.08	0.64	2.6
QPTW125	2500	1	0.06	0.06	0.05	0.04						0.08	0.64	2.6
QPTW150	1400	1	0.16	0.16	0.14	0.13	0.11	0.09	0.07			0.145	0.7	3.2
QPTW160	1400	1	0.17	0.16	0.15	0.13	0.12	0.10	0.07			0.145	0.7	3.2
QPTW200	1500	1	0.23	0.21	0.19	0.17	0.15	0.13	0.97			0.28	0.81	4.0
QPTW250	950	1	0.46	0.42	0.38	0.34	0.29	0.22	0.16	0.07		0.60	3.1	12.0
QPTW315	1100	1	0.77	0.72	0.66	0.60	0.51	0.41	0.30	0.18	0.07	1.255	6.00	13.0
QPTW400	1100	1	0.90	0.85	0.80	0.73	0.65	0.54	0.42	0.26	0.10	1.25	6.0	13.0
QPTW500	1100	1	1.01	0.96	0.90	0.84	0.77	0.67	0.56	0.32	0.12	1.25	6.0	13.0

FLC = Full Load Current   SC = Starting Current

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Models & Accessories

Fan	Auto Changeover Controller	Speed Controller	
		Electronic 1ph	Auto Transfor
Stock Ref	Stock Ref	Stock Ref	Stock Ref
QPTW100B	ACOB1A	SP5001	SPM5020
QPTW125B	ACOB1A	SP5001	SPM5020
QPTW150B	ACOB1A	SP5001	SPM5020
QPTW160	ACOB1A	SP5001	SPM5020
QPTW200	ACOB1A	SP5001	SPM5020
QPTW250	ACOB1A	SP5050	SPM5035
QPTW315	ACOB1A	SP5010	SPM5075
QPTW400B	ACOB1A	SP5010	SPM5075
QPTW500	ACOB1A	SP5010	SPM5075

Fan	In-line Attenuators			
	300mm	600mm	900mm	1200mm
Stock Ref	Stock Ref	Stock Ref	Stock Ref	Stock Ref
QPTW100	83010030	83010060	83010090	-
QPTW125	83012030	83012060	83012090	-
QPTW150	83015030	83015060	83015090	-
QPTW160		83016060	83016090	-
QPTW200	-	83020060	83020090	83020120
QPTW250	-	83025060	83025090	83025120
QPTW315	-	83031060	83031090	83031120
QPTW400	-	-	83040090	83040120
QPTW500	-	-	83050090	83050120

Fan Stock Ref	Anti Vibration Mounts Stock Ref	Intumescent Fire Dampers Stock Ref	Fusible Link Fire Damper Stock Ref	Wall Terminal Stock Ref	Roof Terminal Stock Ref
QPTW100	68MP033G	CVT100	PA100A	SA100/280	WRC100
QPTW125	68MP033G	CVT130	PA125A	SA125/280	WB160C
QPTW150	68MP033G	CVT150	-	SA150/280	WB160C
QPTW160	68MP033G	-	PA160A	SA150/280	WB200C
QPTW200	68MP033G	CVT200	PA200A	SA200/280	WB200C
QPTW250	68MP033G	CVT250	-	SA250/280	WB200C
QPTW315	68MP033G	CVT300	-	SA315/280	RCZ300
QPTW400	68MP033G	-	-	QSA400/280	RCZ400
QPTW500	68MP033G	-	-	-	RCZ500

ACOB1A Twin Fan Controller

Features & Benefits

- Manual or auto changeover facilities
- 2 to 24 hour adjustable duty sharing
- Diagnostic program facility on start up
- Suitable for 1 phase twin fan units up to 8 amps
- Can be wired in conjunction with speed controllers
- Volt free contacts fitted as standard
- Failure neon indicators

Specification

Supply Voltage: 230 to 240V/1ph/50Hz.
Maximum Current Capacity: 0.1 to 8.0 amps.
Operating temperature: 0°C to -+40°C.
IP rating: IP40.
Fuse Size: T rated 15 amp glass fuse (5x20mm).

Models

Stock Ref
ACOB1A

Dimensions (mm)
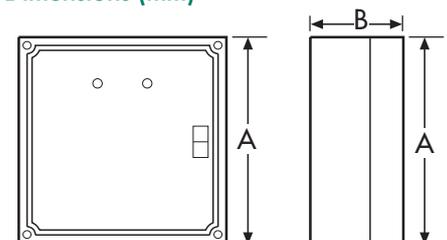
Size	A	B	Kg
ACOB1A	125	56	0.28

Slimpak® (SLP)
In-Line Centrifugal Duct Fans

ROOF UNITS

from Vent-Axia

Features & Benefits

- Ultra slim and compact
- Acoustically treated 'O' class rated
- 'Eco Flow' computer modelled design
- Latest external rotor motor
- Fully speed controllable
- Matching ancillaries

Dimensions (mm)

Plan

Elevation

Mounting bracket (mm)

12MM X 6MM FOAM GASKET Plan

6 HOLES Ø 5.5MM

Elevation
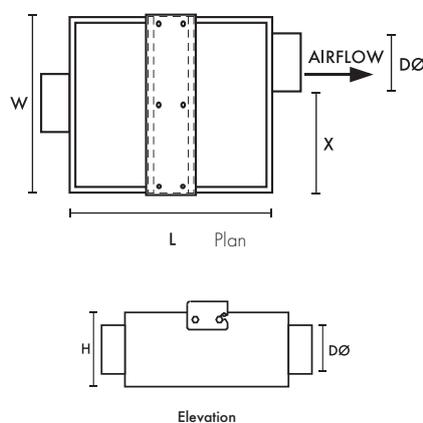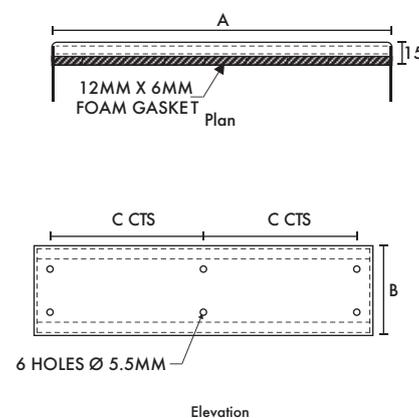
Fan Stock Ref	L	W	H	DØ	X	Weight kg
SLP100	360	306	160	100	178	8
SLP125	360	306	160	125	165	8
SLP150	360	306	180	150	140	9
SLP200	415	360	285	200	140	13
SLP250	415	360	285	250	90	15
SLP315	450	400	350	315	65	17

Fan Stock Ref	A	B	C
SLP100	306	80	138
SLP125	306	80	138
SLP150	306	80	138
SLP200	360	130	165
SLP250	360	130	165
SLP315	400	180	184.5

Performance Guide

Fan Stock Ref	RPM	Phase	Duty m³/s @ Pa													Amps		
			0	25	50	100	150	200	250	300	350	400	450	500	550	kW	FLC	SC
SLP100	2450	1	0.075	0.071	0.068	0.059	0.051	0.041	0.029	0.016	-	-	-	-	-	0.058	0.26	1.04
SLP125	2450	1	0.094	0.090	0.086	0.076	0.065	0.053	0.040	0.025	-	-	-	-	-	0.058	0.26	1.04
SLP150	2450	1	0.121	0.116	0.112	0.098	0.085	0.0.70	0.054	0.038	0.016	-	-	-	-	0.058	0.26	1.04
SLP200	2700	1	0.200	0.193	0.188	0.175	0.156	0.138	0.118	0.098	0.073					0.12	0.48	1.92
SLP250	2660	1	0.289	0.280	0.271	0.251	0.227	0.201	0.175	0.146	0.117	0.088	0.053			0.13	0.65	3.0
SLP315	2650	1	0.380	0.342	0.370	0.350	0.328	0.309	0.290	0.271	0.248	0.220	0.185	0.141	0.079	0.23	1.02	5.0

FLC = Full Load Current   SC = Starting Current

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Models & Accessories

| Fan | Speed Controller | | Starter | Overload | Electric Heaters |
| | Electronic | Auto Transfor. | | | |
Stock Ref	Stock Ref	Stock Ref	Stock Ref	Stock Ref	Stock Ref
SLP100	SP5001	SPM5020	444744	444699	10531100T1
SLP125	SP5001	SPM5020	444744	444699	10531125T1
SLP150	SP5001	SPM5020	444744	444699	10531150T1
SLP200	SP5001	SPM5020	444744	444699	10531200T1
SLP250	SP5001	SPM5020	444744	444700	10531250T1
SLP315	SP5001	SPM5020	444744	444702	10531315T1

| Fan | In-line Attenuators | | Wall Terminal |
| | Inlet | Discharge | |
Stock Ref	Stock Ref	Stock Ref	Stock Ref
SLP100	SLSI100/1	SLSD100/1	SA100/280
SLP125	SLSI125/1	SLSD125/1	SA125/280
SLP150	SLSI150/1	SLSD150/1	SA150/280
SLP200	SLSI200/1	SLSD200/1	SA200/280
SLP250	SLSI250/1	SLSD250/1	SA250/280
SLP315	SLSI315/1	SLSD315/1	SA315/280

| Fan | Roof Terminal | Louvre Shutter | Flexible Connections | Panel Filters | Spare Panel Filters | Back Draught Shutters |
Stock Ref	Stock Ref	Stock Ref	Stock Ref	Stock Ref	Stock Ref	Stock Ref
SLP100	WRC100	LS250	FLX100	SLPF100	FILTERSSLP100	BDS100
SLP125	WB160C	LS250	FLX125	SLPF125	-	BDS125
SLP150	WB160C	LS315	FLX150	SLPF150	FILTERSSLP150	BDS150
SLP200	WB200C	LS315	FLX200	SLPF200	FILTERSSLP200	BDS200
SLP250	WB200C	LS315	FLX250	SLPF250	FILTERSSLP250	BDS250
SLP315	RCZ300	LS400	FLX315	SLPF315	FILTERSSLP315	BDS315

Slimpak® (SLPT)
In-Line Twin Duct Fans

ROOF UNITS

from Vent-Axia

Features & Benefits

- Motor Insulation Class B, protected to IP44
- All units suitable for speed control
- Quality Assurance to BS EN ISO 9001:1994
- Performance tested to BS848 Part 1 1980
- Units suitable as a run & standby extract fan or simultaneously running fan

Dimensions (mm)

Plan

Elevation

AIRFLOW

DØ   W   X   L

H

8 HOLES 8MM
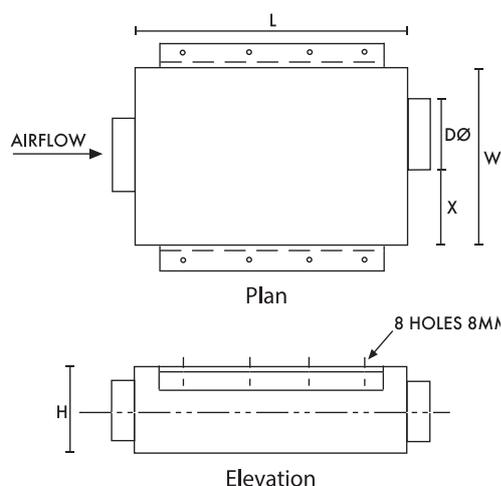
Unit						Weight
DuctØ	L	W	H	DØ	X	kg
200	760	490	235	200	205	20
250	865	590	285	250	233	32
315	955	650	350	315	240	39

Performance Guide

Fan			Duty m³/s @ Pa													Amps		
Stock Ref	RPM	Phase	0	25	50	100	150	200	250	300	350	400	450	500	550	kW	FLC	SC
2 Pole Run & Stanby Perfomance Guide																		
SLPT200	2450	1	0.11	0.10	0.10	0.08	0.07	0.05	0.03	0.01	-	-	-	-	-	0.09	0.36	1.44
SLPT250	2660	1	0.26	0.25	0.024	0.22	020	0.18	0.16	0.14	0.11	0.09	0.04	-	-	0.13	0.65	3.0
SLPT315	2550	1	0.40	0.38	0.37	0.35	0.33	0.31	0.29	0.27	0.25	0.22	0.18	0.14	0.07	0.23	1.02	5.0
2 Pole Simultaneously Running Performance Guide																		
SLPT200	2450	1	0.21	0.20	0.19	0.17	0.15	0.12	0.09	0.06						0.19	0.72	2.88
SLPT250	2450	1	0.46	0.44	0.43	0.41	0.39	0.37	0.34	0.31	0.27	0.22	0.13			0.26	1.30	6.0
SLPT315	2650	1	0.62	0.60	0.58	0.54	0.51	0.47	0.43	0.40	0.36	0.32	0.27	0.21	0.12	0.46	2.04	10.0

FLC = Full Load Current   SC = Starting Current

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Vent-Axia
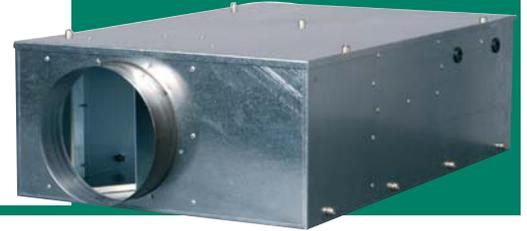
Models & Accessories

Fan Stock Ref	ITC Man/Auto Changeover Controller Stock Ref	ITC-DS12/24hr Auto Changeover Controller Stock Ref	RVC ELV Remote Visual Indicator Stock Ref	Auto Transformer Stock Ref
SLPT200	10314200	10314210	10314220	10314103
SLPT250	10314200	10314210	10314220	10314103
SLPT315	10314200	10314210	10314220	10314103

Size	Electronic Speed Controller Stock Ref	Auto Transformer & Coil Stock Ref	Starter Stock Ref	Overload Stock Ref	Flexible Connection Stock Ref	Anti-Vibration Mounts Stock Ref
200mm	W10303102M	10314103	444744	444698	FLX200	10523033
250mm	W10303102M	10314103	444744	444700	FLX250	10523033
315mm	W10303102M	10314103	444744	444700	FLX315	10523033

Size	Heat Exchange Unit Stock Ref	Backdraught Shutter Stock Ref	Fast Clamp Stock Ref	Aluminium Flexible Ducting (10m) Stock Ref	Worm Drive Clips Stock Ref
200mm	10538290	-	-	-	-
	+10577315	10542200	10540200	10539200	561710
	+10578315	-	-	-	-
250mm	10538290	-	-	-	-
	+10577315	10542250	10540250	10539250	561710
	+10578315	-	-	-	-
315mm	10538290	-	-	-	-
	+10577315	10542315	10540315	10539315	561710

Size	Pre Filter Cassette Stock Ref	5 Spare Pre Filters Stock Ref	Bag Filter Cassette Stock Ref	Spare Bag Filter Each Stock Ref	3-Way Splitter Stock Ref	Duct Air Heater Stock Ref
200mm	10532200	10556200A	10533200	10557200	10551250	10531200T1
250mm	10532250	10556250	10533250	10557250	10551250	10531250T1
315mm	10532315	10556315	10533315	10557315	10553400	10531315T1

Size	Duct Attenuator			Joining Piece Stock Ref	Lourve Shutter Stock Ref
	600mm Stock Ref	900mm Stock Ref	1200mm Stock Ref		
200mm	10535200	10536200	10537200	561808	LS200
250mm	10535250	10536250	10537250	561810	LS250
315mm	10535315	10536315	10537315	561813	LS315

EuroSeries® (SDX)
In-Line Centrifugal Duct Fans

ROOF UNITS

from Vent-Axia

Features & Benefits

- Available in sizes 100 to 315
- 150 to 315 available in standard or high performance
- Motor Insulation Class B, protected to IP44
- Operating temperatures from -15°C up to +40°C
- HOT SPOT Protection
- All units suitable for speed control
- Quality Assurance to BS EN ISO 9001:1994
- Performance tested to BS848 Part 1 1980

Dimensions (mm)
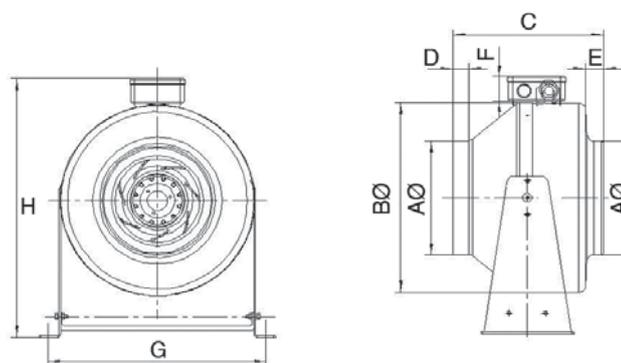
Unit size	AØ	BØ	C	D	E	F	G	H	Weight kg
SDX100	100	237	204	25	25	42	270	294	3.5
SDX125	125	237	193	25	25	42	270	294	3.8
SDX150	150	278	195	25	25	42	312	350	3.6
SDX200	200	333	210	25	25	42	374	402	5.1
SDX250	250	333	210	28.6	28.5	42	380	430	4.9
SDX315	315	402	265	25	30	42	450	485	7.8

Performance Guide

Model	RPM	Phase	0	50	100	150	200	250	300	350	400	450	500	Motor Watts	S.C. Amps	F.L.C Amps	dB(A) @ 3m
Standard range																	
SDX100B	2385	1	0.055	0.048	0.041	0.034	0.026	0.017	0.009					46	0.31	0.18	42
SDX125B	2625	1	0.077	0.066	0.053	0.039	0.027	0.015	0.002					69	0.42	0.28	45
SDX150B	2350	1	0.11	0.098	0.075	0.059	0.046	0.031	0.01					56	0.37	0.22	44
SDX200B	2325	1	0.247	0.217	0.181	0.149	0.126	0.104	0.09	0.074	0.057	0.04	0.026	162	1.1	0.68	47
SDX250B	2575	1	0.265	0.259	0.25	0.208	0.175	0.15	0.13	0.107	0.088	0.064	0.041	150	1.2	0.66	52
SDX315B	2518	1	0.333	0.306	0.278	0.244	0.204	0.17	0.139	0.11	0.08	0.056	0.033	162	1.27	0.68	58
High Performance Range																	
SDX150HB	2600	1	0.129	0.115	0.099	0.082	0.064	0.044	0.018					65	0.46	0.27	47
SDX200HB	2575	1	0.26	0.24	0.22	0.192	0.166	0.142	0.116	0.095	0.072	0.05	0.03	165	1.2	0.7	54
SDX250HB	2520	1	0.295	0.268	0.24	0.21	0.183	0.155	0.125	0.098	0.074	0.05	0.027	175	1.2	0.73	52
SDX315HB	2574	1	0.435	0.405	0.369	0.32	0.277	0.23	0.196	0.158	0.132	0.108	0.08	278	1.7	1.15	60

m³/s @ Pa

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Models & Accessories

Fan	High Performance Fan	Speed Controller		Starter	Overload
Stock Ref	Stock Ref	Stock Ref	Stock Ref	Stock Ref	Stock Ref
SDX100A	-	SP5001	SPM5020	444744	444698
SDX125A	-	SP5001	SPM5020	444744	444698
SDX150A	SDX150H	SP5001	SPM5020	444744	444698
SDX200A	SDX200H	SP5001	SPM5020	444744	444698
SDX250A	SDX250H	SP5001	SPM5020	444744	444699
SDX315A	SDX315H	SP5001	SPM5020	444744	444700

Fan	In-Line Attenuators			
	300mm	600mm	900mm	1200mm
Stock Ref	Stock Ref	Stock Ref	Stock Ref	Stock Ref
SDX100	83010030	83010060	83010090	-
SDX125	83012030	83012060	83012090	-
SDX150	83015030	83015060	83015090	-
SDX200	-	83020060	83020090	83020120
SDX250	-	83025060	83025090	83025120
SDX315	-	83031060	83031090	83031120

Fan	Wall Terminal	Electric Heaters	Panel Filters	Bag Filters
Stock Ref	Stock Ref	Stock Ref	Stock Ref	Stock Ref
SDX100	SA100/280	10531100T1	QPF100A	QPFB100A
SDX125	SA125/280	10531125T1	QPF125A	QPFB125A
SDX150	SA150/280	10531150T1	QPF150A	QPFB150A
SDX200	SA200/280	10531200T1	QPF200A	QPFB200A
SDX250	SA250/280	10531250T1	QPF250	QPFB250A
SDX315	SA315/280	10531315T1	QPF315A	QPFB315A

Fan	Spare Bag Filters	Roof Terminal	Louvre Shutter
Stock Ref	Stock Ref	Stock Ref	Stock Ref
SDX100	FILTERQPFB100	WRC100	LS250
SDX125	FILTERQPFB125	WB160C	LS250
SDX150	-	WB160C	LS315
SDX200	FILTERQPFB200	WB200C	LS315
SDX250	FILTERQPFB250	WB200C	LS315
SDX315	FILTERQPFB315	RCZ300	LS400

Speed Controllers

Single Phase SP & SPTK (Electronic)

Features & Benefits

- Single Phase, electronic, infinitely variable, stepless speed control with MIN/MAX preset facility
- Separate starter not required when used with HOT SPOT protected fan (SPTK only)
- Compact and easy to install
- Suitable for surface or flush mounting (SP5010 surface only)*
- SP type include ON/OFF switch with neon indicator
- SPTK type include ON/OFF/RESET switch and indication light fan trip indicator and built in facility for manual reset
- Complies with required statutory regulations and carries CE mark

Unit Stock Ref	*Max Peak Load Current	Dimensions H x W x D (mm)	Weight kg	Enclosure
SP5001	1.7 amps	86 x 86 x 71	0.33	IP40
SP5025	3.0 amps	147 x 86.5 x 62	0.5	IP40
SP5050	5.0 amps	147 x 86.5 x 62	0.6	IP40
SPTK5050	5.0 amps	147 x 86.5 x 62	0.8	IP40
SP5010	10.0 amps	185 x 172 x 135	2.0	IP54

* Note:- The max peak load current is for surface mounting installation.

Stock Ref
SP5001
SP5025
SP5050
SPTK5050
SP5010

Single Phase SPM (Auto-Transformer)

Features & Benefits

- Single Phase, 5 step auto-transformer speed controller
- Low motor noise - no magnetic hum
- ON/OFF Switch

Unit Stock Ref	Max Peak Load Current	Dimensions H x W x D (mm)	Weight kg	Enclosure	Damper Connection
SPM5020	2.0	230 x 168 x 118	2.2	IP54	Yes
SPM5035	3.5	230 x 168 x 118	4.6	IP54	Yes
SPM5060	6.0	230 x 166 x 118	5.0	IP50	Yes
SPM5075	7.5	284 x 240 x 132	6.2	IP54	Yes
SPM5090	9.0	316 x 270 x 168	10.5	IP54	No
SPM5140	14.0	316 x 270 x 168	16.5	IP54	No

Stock Ref
SPM5020
SPM5035
SPM5060
SPM5075
SPM5090
SPM5140

Single Phase RTRE (Enhanced Auto-Transformer)

Features & Benefits

- Single Phase 5 step auto-transformer speed controller
- Separate starter not required when used with HOT SPOT protected fans
- Low motor noise - no magnetic hum
- Additional terminals to allow connection of remote switching device
- Allows operation via BMS interface
- Additional terminals to allow connection of remote anti-freezing thermostat

Unit Stock Ref	Max Peak Load Current	Dimensions H x W x D (mm)	Weight kg	IP	Damper Connection	VFC
RTRE20	2.0 amps	230 x 166 x 118	2.3	IP54	Yes	Yes
RTRE35	3.5 amps	230 x 166 x 118	3.6	IP54	Yes	Yes
RTRE60	6.0 amps	230 x 166 x 118	5.1	IP54	Yes	Yes
RTRE75	7.5 amps	284 x 240 x 132	6.1	IP54	Yes	Yes
RTRE90	9.0 amps	284 x 240 x 132	10.6	IP54	Yes	Yes

Stock Ref
RTRE20
RTRE35
RTRE60
RTRE75
RTRE90

Three Phase RDTK (Auto - Transformer)

Features & Benefits

- Three phase 5 step auto - transformer speed controller
- Separate starter not required when used with HOT SPOT protected fans
- Low motor noise - no magnetic hum
- Compact fire retardant surface mounting enclosure
- Additional terminals to allow connection of remote switching device
- Additional terminals to allow connection of remote anti-freezing thermostat

Unit Stock Ref	Max Peak Load Current	Dimensions H x W x D (mm)	Weight kg	Enclosure	Damper Connection
RDTK10	1.0 amps	284 x 240 x 132	4.7	IP54	Yes
RDTK20	2.0 amps	284 x 240 x 132	7.4	IP54	Yes
RDTK40	4.0 amps	316 x 270 x 168	12.9	IP21	No
RDTK70	7.0 amps	324 x 270 x 168	15.6	IP21	Yes
RD14	14.0 amps	295 x 400 x 170	30.0	IP21	No

Stock Ref
RDTK10
RDTK20
RDTK40
RDTK70
RD14

Starters & Overloads

Starters

Suitable for all models. Push button Start/Stop. 240V contactor coil for single phase applications and three phase supplies where a neutral is present. 415V Contactor coil for three phase supplies where a neutral is not present or required.

Protection is given by an overload relay which is selected to match the load of the fan. Enclosures are protected to IP55.

Stock Ref	New Starters	DOL Rating (Amps)	Star Delta Rating (Amps)	Dimensions HXWXD	Weight Kg
444744	DOL Starter 1 Phase 240V 12A	12	-	174x104x134	3.0
444745	DOL Starter 1 Phase 240V 25A	25	-	174x104x134	1.5
444746	DOL Starter 1 Phase 240V 32A	32	-	184x184x149	2.5
444747	DOL Starter 3 Phase 415V 12A	12	-	174x104x134	3.0
444748	DOL Starter 3 Phase 415V 25A	25	-	174x104x134	3.5
444749	DOL Starter 3 Phase 415V 32A	32	-	184x184x149	2.5
444750	DOL Starter 3 Phase 415 V 50A	50	-	305x285x159	7.0
444842	Star Delta Starter 21A	n/a	21	184x284x149	3.5
444843	Star Delta Starter 30A	n/a	30	184x284x149	3.5

Stock Ref	New Overloads	DOL Rating (Amps)	Star Delta Rating (Amps)
444696	OVERLOAD 0.16-0.25	0.16-0.25	-
444697	OVERLOAD 0.25-0.40	0.25-0.40	-
444698	OVERLOAD 0.40-0.63	0.40-0.63	-
444699	OVERLOAD 0.63-1.0	0.63-1.0	-
444700	OVERLOAD 1.0-1-6	1.0-1-6	-
444701	OVERLOAD 1.6-2.5	1.6-2.5	2.7-4.3
444702	OVERLOAD 2.5-4.0	2.5-4.0	4.3-6.9
444703	OVERLOAD 4-0.6.0	4-0.6.0	6.9-10
444704	OVERLOAD 5.5-8.0	5.5-8.0	9.5-13.8
444705	OVERLOAD 7-10	7-10	12-17
444706	OVERLOAD 10-13	10-13	17-22
444707	OVERLOAD 13-18	13-18	22-31
444708	OVERLOAD 18-25	18-25	31-43
444709	OVERLOAD 23-32A	23-32A	39-55

This new range of Starters and Overloads is not cross compatible with previous versions.

Sonex
Circular Sound Attenuators

Features & Benefits

- Low cost – exceptional performance, exstock availability
- Sheet steel casing and end plates 30 minute fire rating as standard
- Fitted spigot for direct connection to circular ductwork

Application Data

The effective and economic solution for sound attenuation in circular duct systems from 100 to 500mm diameter. With at least three models per size throughout the range the system designer is given complete flexibility of choice allowing a selection which is the best balance of attenuation, size and cost for any application. Sonex Attenuators are fitted with a patented duct seal which enables leak free 'plug-in' connection to rigid ductwork with consequent savings of installation costs. The excellent attenuation characteristics of the Sonex range are achieved without imposing undue system resistance. Pressure losses are little more than those which would occur over a comparable section of straight duct.

Construction

The attenuator consists of a perforated tubular liner manufactured from sheet steel. The liner is enclosed by a thick layer of mineral wool sound absorbing material. Casing and end plates are formed from galvanised sheet steel. Standard models have a 30 minute fire rating (60 minutes also available).

Dimensions, Weights & Insertion Loss
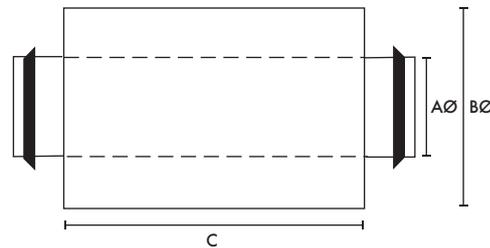
Stock Ref	Dimensions (mm)				Attenuation dB mid Frequency Hz							
	AØ	BØ	C	kg.	63	125	250	500	1K	2K	4K	8k
83010030	100	200	300	2.4	3	3	9	17	23	26	25	13
83010060	100	200	600	4.1	6	9	15	34	40	40	37	18
83010090	100	200	900	6.6	10	13	21	40	45	39	36	16
83012030	125	225	300	2.6	3	3	7	16	20	24	22	17
83012060	125	225	600	4.5	5	8	13	29	35	35	32	22
83012090	125	225	900	7.6	10	12	19	37	40	38	34	32
83015030	150	260	300	2.9	3	3	6	13	19	23	22	16
83015060	150	260	600	5.8	5	7	12	24	30	35	31	20
83015090	150	260	900	9	8	10	15	32	38	37	34	29
83016030	160	260	300	2.9	3	3	6	13	19	23	22	16
83016060	160	260	600	5.8	5	7	12	24	30	35	31	20
83016090	160	260	900	9	8	10	15	32	38	37	34	29
83020060	200	300	600	7	4	6	10	20	27	33	19	17
83020090	200	300	900	10	8	9	14	28	32	35	28	25
83020120	200	300	1200	14	10	12	17	36	41	43	28	26
83025060	250	355	600	8.6	4	5	10	19	25	29	18	17
83025090	250	355	900	12.2	6	7	12	23	30	30	22	19
83025120	250	355	1200	18	8	10	15	32	37	38	26	20
83031060	315	400	600	9.8	4	5	8	15	20	22	17	15
83031090	315	400	900	15	5	7	10	20	30	29	18	16
83031120	315	400	1200	21	7	9	13	22	32	33	19	18
83040090	400	606	900	21	3	5	9	19	26	20	13	11
83040120	400	606	1200	27	6	8	14	2 4	30	28	17	9
83050090	500	711	900	29	3	4	9	15	23	17	12	11
83050120	500	711	1200	38	5	7	13	18	26	23	15	9

Pyrocheck

Intumescent Fire Dampers

Features & Benefits

- Suitable for air transfer in doors and partitions
- Complete seal achieved in approximately five minutes when tested in accordance with BS 476 pt 20 & 22
- Available in circular form
- UV Stabilised material UPVC
- Pyrocheck offer much lower resistance to airflow compared to traditional designs
- Independently tested to BS 476 pt. 22; fire integrity of 68 mins

Pyrocheck CVT Intumescent Fire Dampers are available in circular form and have a minimum fire integrity of one hour (in accordance with BS476 Part 8 1972). The fire dampers have been independently tested at the Warrington Fire Research Centre.

Intumescent fire dampers require no mechanical or external/device to operate as they rely solely on an internal reaction initiated by heat. They are, therefore, especially suitable for applications where regular inspection is unlikely or difficult or where mechanical devices would be susceptible to shock or corrosion damage.

Typical applications are air transfer in fire doors or partitions.

The active material is encased in a PVC sleeve giving maximum protection against moulds, fungi, insect attack or similar biological damage, and may reasonably be expected to last for the life of the building. Unaffected by UV light, capable of withstanding freeze/thaw cycling and able to support ambient temperatures within the range -10°C to +80°C.

In a fire situation Pyrocheck CVT Dampers will rapidly expand to completely block the duct or opening thus preventing the further passage of smoke and hot gasses.

An unusually high free area means that Pyrocheck CVT Dampers offer much lower resistance to air flow compared to traditional intumescent designs.

Models

Size	Stock Ref
4″ Ø	CVT100
5″ Ø	CVT130
6″ Ø	CVT150
8″ Ø	CVT200
10″ Ø	CVT250
12″ Ø	CVT300

A full variation on sizes available on request.
Matching Transfer Grilles available.

Dimensions
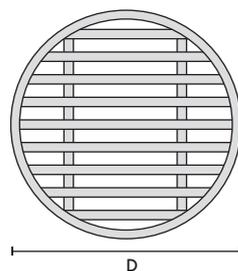
Stock Ref	DØ
CVT100	100
CVT130	125
CVT150	150
CVT200	198
CVT250	248
CVT300	298

Pyrocheck
Fusible Link Fire Dampers

Features & Benefits

- Suitable for horizontal airflow, through wall mounting
- Four hour tested to BS476 Part 20
- High shut-off twin blade design
- Low cost solution for small diameter ducts
- Complete with gasket for in-duct mounting
- Low pressure drop and noise generation
- Blade locking springs

The design of Pyrocheck Series PA presents minimal obstruction to the air flow during normal operation (prior to initiation), consequently the pressure drop across the damper is extremely low.

The precision low mass fusible link is set to operate at 72°C. Operation of the fusible link releases the blades and completely blocks the duct. A feature of the PA damper is its duct sealing ring and intumescent seal. This compensates for any minor irregularities in the duct which may otherwise create gaps between the duct wall and the damper.

Fire Rating

The pyrocheck range of dampers have been tested at Warrington Fire Research Centre. The dampers were assessed against the criterion for integrity as defined in BS476 Part 20 for 4 hours.

The dampers maintained their integrity successfully throughout the test, which was discontinued after 4 hours.

Models

Duct Size	Stock Ref
100mm ∅	PA100A
125mm ∅	PA125A
160mm ∅	PA160A
200mm ∅	PA200A

Dimensions
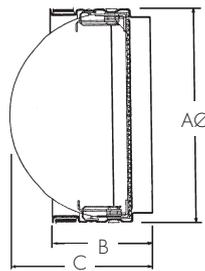
Stock Ref	A∅	B	C
PA100	99	72.5	72.5
PA125	124	72.5	85
PA160	159	72.5	103
PA200	199	72.5	121

Vent-Axia

Roof Units

Unitex
Roof Cowl System

Features & Benefits

- Complete weather proofing with low pressure drop
- Size 160 to 250 supplied with bird guard
- Galvanised steel construction additionally protected by a dark brown epoxy powder coat finish (100mm grey PVC only)
- Weather apron in stock aluminium
- Suitable for flat or pitched roofs up to 20°as standard
- Can be supplied in special colours to match building design (100mm grey PVC only)

The Unitex Roof Cowl System greatly simplifies the roof termination of mechanical ventilation systems. Consisting of an attractive epoxy finished cowl with a lead weather slate and a range of direct connection reducing fittings. It is suitable for connection to spiral duct, soil pipe and flexible duct from 125 to 250mm diameter.

Product Range
Cowl Assembly
WB160 For ducts from 125 to 160mm
WB200 For ducts from 200 to 250mm

Weather Apron for Flat Roofs
WA160
WA200
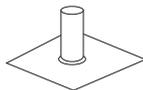
Weather Apron for Pitched Roofs (20° MAX)
WA160/20
WA200/20
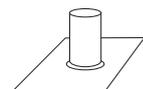
Adaptor
370304 (125 to 150mm)
370309 (200 to 250mm)

Installation with an Adaptor
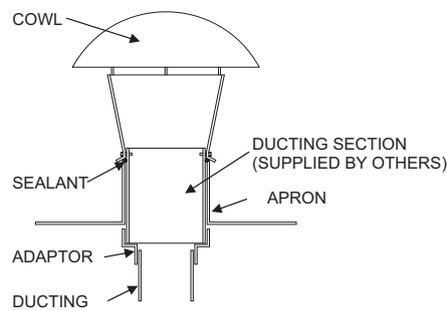
WB160 with 125mm connection
Using adaptor 370304
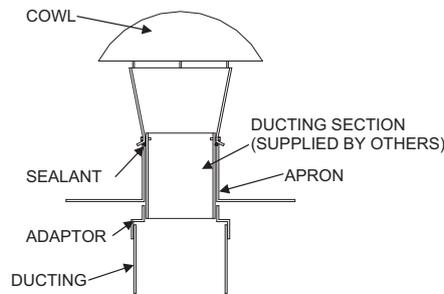
WB200 with 250mm connection
Using adaptor 370309

Models

Description	Stock Ref
100mm (4") Roof System	
PVC Roof Cowl	**WRC100**
Weather Apron	**WA100**
(Pitch roofs)	

125mm to 160mm Roof System
Roof Cowl **WB160**
- Standard Colour BSO8B29
Roof Cowl **WB160C**
- Non-standard Colour
Weather Apron **WA160**
(flat roofs)

200mm to 250mm Roof System
Roof Cowl **WB200**
 - Standard Colour BSO8B29
Roof Cowl **WB200C**
- Non-standard Colour
Weather Apron **WA200**
(flat roofs)

Weather Apron for pitched roof
Weather Apron **WA160/20**
20˚ (max) pitch roof
Weather Apron **WA200/20**
20˚ (max) pitch roof

Adaptor
OR16012 **370304**
(125 to 150mm)
OR25020 **370309**
(200 to 250mm)

Unitex
Wall Terminals

Features & Benefits

- External weather louvre, wall sleeve and duct connection spigot in one unit
- Satin anodised louvre gives full weather protection
- Epoxy powder coated finish, weather louvre available as optional extra
- 280mm or 80mm wall sleeve section
- Spigot connections from 100mm to 400mm

The Unitex SA Wall Terminal Module consists of a high grade satin anodised weather louvre fitted with bird guard (epoxy finish optional extra). This is located in a galvanised sheet metal 'box section' linked to a reinforced circular stub for direct connection to rigid or flexible ductwork.

Two lengths of 'box section' are available; 80mm and 280mm. An airstream operated back draught shutter can be fitted in the 280mm version. For applications where larger air volumes are involved the Unitex QSA range of wall terminals is available.

Note:
Volume Control Dampers, Speed Clamps & Backdraught Shutters available see Accessories section.

Dimensions (mm)
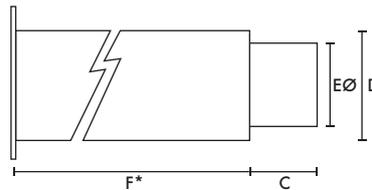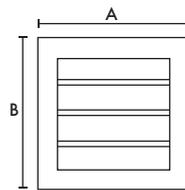
*DIMENSION F SELECT FROM 280 OR 80MM

*Dimensions F select from 280 or 80mm

Model Ref	A	B	C	D	EØ
SA100	180	180	80	130	99
SA125	210	210	80	160	124
SA150	230	230	80	180	149
SA200	280	280	80	230	199
SA250	330	330	80	280	249
SA315	400	400	80	350	313
QSA100	230	230	80	180	98
QSA125	280	280	80	230	124
QSA150	330	330	80	280	149
QSA200	400	400	80	350	199
QSA250	500	500	80	450	249
QSA315	550	550	80	500	313
QSA400	550	550	80	500	400

Models

Description	Stock Ref

80mm wall sleeve, std. format louvre

100mm	SA100/80
125mm	SA125/80
150mm	SA150/80
200mm	SA200/80
250mm	SA250/80
315mm	SA315/80

80mm wall sleeve, large format louvre

125mm	QSA125/80
200mm	QSA200/80
250mm	QSA250/80
315mm	QSA315/80

280mm wall sleeve, std. format louvre

100mm	SA100/280
125mm	SA125/280
150mm	SA150/280
200mm	SA200/280
250mm	SA250/280
315mm	SA315/280

280mm wall sleeve, large format louvre

100mm	QSA100/280
125mm	QSA125/280
150mm	QSA150/280
200mm	QSA200/280
250mm	QSA250/280
315mm	QSA315/280
400mm	QSA400/280

Ventilex
Steel Ventilation Valves

Features & Benefits

- Supply and extract valve
- White epoxy finished steel
- Adjustable centre core
- Bayonet fixing - easy removal for cleaning

Ventilex Model VHE extract/supply valves are a new addition to the well established Ventilex range and continue the concept of elegant design combined with excellent performance characteristics.

The valves are constructed from white epoxy finished steel and are supplied complete with a bayonet action fixing frame.

This allows positive locking and sealing of the valve yet still enables, easy removal for adjustment or cleaning. The valve profile is designed to eliminate fouling of adjacent decorated surfaces - a feature common to all Ventilex valves.

The central core is adjustable and offers a wide range of settings to meet specific system designs. Datum position is achieved when core face is level with face of valve (see dimensional diagram).

Applications

Bathrooms, kitchens, toilets, lobby areas or any room requiring a single diffuser for up to 100m^3/hr (multiple arrays can of course be utilised).

Models

Duct Size	Stock Ref
100mm Ø	VHE100
125mm Ø	VHE125
150mm Ø	VHE150
200mm Ø	VHE200

Dimensions (mm)
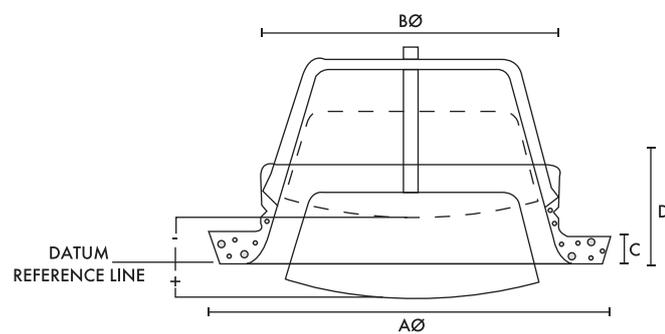
Stock Ref	AØ	BØ	C	D
VHE 100	140	99	13	50
VHE 150*	200	150*	13	50

*125mm and 200mm to special request

Stock Ref	Product	Page
120801	Genova Cooker Hood - Silver	50
120811	Napoli Cooker Hood - White	50
120841	Milano Cooker Hood - Silver	50
120851	Roma Cooker Hood - Silver	50
131310	Traditional Standard Window 6" Model	149
131410	Traditional Standard Roof 6" Model	150
131510	Traditional Standard Wall 6" Model	151
131610	Traditional Standard Panel 6" Model	152
132310	Traditional Standard Window 7" Model	149
132410	Traditional Standard Roof 7" Model	150
132510	Traditional Standard Wall 7" Model	151
132610	Traditional Standard Panel 7" Model	152
133310	Traditional Standard Window 9" Model	149
133410	Traditional Standard Roof 9" Model	150
133510	Traditional Standard Wall 9" Model	151
133610	Traditional Standard Panel 9" Model	152
134310	Traditional Standard Window 12" Model	149
134410	Traditional Standard Roof 12" Model	150
134510	Traditional Standard Wall 12" Model	151
134610	Traditional Standard Panel 12" Model	152
140120	VA140/150KP (Pullcord)	42
140220	VA140/150KT (Timer)	42
140320	VA140/150KHP (Humidistat)	42
140420	VA140/150KHT (Humidistat/Timer)	42
140901	Window Fitting Kit white	130
140902	Wall Fitting Kit white	130
140903	Wall Fitting Kit brown	130
152110	VA150P	43
153110	VA150A	43
165510	ST355-16-WL	148
165620	STGF355	148
165710	STX355	148
165810	STARX355	148
165910	STAR355	148
166510	ST400-16-WL	148
166620	STGF400	148
166710	STX400	148
167510	ST450-16-WL	148
167710	STX450	148
167810	STARX450	148
167910	STAR450	148
168510	ST500-16-WL	148
168710	STX500	148
180010	Remote Indicator	47
180510	Duet Surface	47
180610	Duet Recessed	47
180710	Duet Duct	47
181510A	Multivent MV250	61
181520A	Lo-Carbon Multivent MVDC	60
183010A	Multivent MV250H	61
183020A	Lo-Carbon Multivent MVDCH	60
188110	LuminAir L	36
188210	LuminAir T	36
188610	LuminAir H	36
231710	S6SD/R	149
232710	S7SD/R	149
233710	S9SD/R	149
234710	S12SD/R	149

Stock Ref	Product	Page
248710	Minivent SK	51
248810	Minivent SKT	51
249944	Horizontal 45° Bend	122
251110	VA100LP	30
251210	VA100LT (Timer)	30
251310	VA100XP (Shutter)	30
251410	VA100XT (Timer/Shutter)	30
251510	VA100XHT (Shutter/Humidity/Timer)	30
251610	VA100LHP (Humidity)	30
251710	VA100XHP (Shutter/Humidity)	30
254100	Wall Kit brown	130
254101	Window Fitting Kit	130
254102	Wall Kit white	130
256120	Centrif Duo P	45
256220	Centrif Duo T (Timer)	45
256320	Centrif Duo DP (Two Speed)	45
256420	Centrif Duo HTP (Humidity)	45
258110	VA100SVL12	31
258112	VA100SVLHP12	31
258310	VA100SVX12	31
258312	VA100SVXH12	31
258410	VA100SVXT12	31
258512	VA100SVXHT12	31
370127	Round to Rectangular Adaptor	124
370172	Acoustic Insulated Ducting 100mmØ	126
370173	Acoustic Insulated Ducting 125mmØ	126
370174	Acoustic Insulated Ducting 150mmØ	126
370175	Acoustic Insulated Ducting 200mmØ	126
370176	Acoustic Insulated Ducting 250mmØ	126
370178	Acoustic Insulated Ducting 315mmØ	126
370179	Acoustic Mat	127
370202	90° Bend 200Ø	128
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By Appointment to H.M. The Queen
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