

Energy Efficient. Near Silent. Simple to Use. Discrete



Housing Refurbishment

Vent-Axia[®]
Lo-Carbon[™]

Live and breathe the difference



To meet UK carbon budgets the regulatory framework within which we operate continues to tighten the performance criteria for ventilation products and systems. The 2010 Building Regulations are just the next of a number of points that plot the path to a zero carbon goal for the UK. Legislative pressures will therefore continue to build in the years ahead and increase the demand for equipment and technologies to be specified and sold which raise the bar in terms of both energy efficiency and reduced carbon emissions.

From my perspective, it's at times like these when the top manufacturers in the sector must raise their game and provide the product, sales and technical support you need to succeed. And, as the UK's premier domestic, commercial, and industrial ventilation company, that's precisely what Vent-Axia strives to achieve.

At Vent-Axia, we have been designing and manufacturing ventilation solutions for housing refurbishment for over 50 years. As a market leader in solutions for the social housing sector we continue to drive innovation into our products.

We have introduced many new models which expand upon our traditional, well-proven products as well as broadening our capabilities further with a whole host of innovations in Vent-Axia Lo-Carbon™ and energy reducing ventilation solutions.

With the Decent Home Programme helping to bring housing stock up to date, we now understand more about building performance than ever before. As the stock continues to be improved, we can now develop sympathetic ventilation systems which are designed to fit in our buildings and also with the way we live our lives. The new range of decentralised ventilation systems from Vent-Axia fit discretely into our homes and provide near silent, energy efficient ventilation in a more comfortable way.

These additions reflect changes to Building Regulations, since Part F and Part L now favour continuous ventilation because it performs better in SAP, is easier to specify and easier to standardise, as trickle vents are not required. It is likely that these factors, along with the Dwelling Emission Rate (DER) benefits of SAP Appendix Q will combine to boost the adoption of both whole house Mechanical Extract Ventilation systems (MEV and dMEV) and Mechanical Extract Ventilation systems with Heat Recovery (MVHR).

Vent-Axia is here to help you right through the design, specification and installation process, whatever your application, 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 the business, and through our supply chain to you, our customers. Vent-Axia - the First Name in Ventilation.

Ronnie George
Managing Director

Investing in the UK

Employing over 800 people across 4 manufacturing sites, we continue to invest in UK manufacturing. Being in control of manufacturing the component parts including motors and mouldings all within the UK, we reduce our lead times as well as our carbon footprint.

Motors

The classic division of electric motors has been that of Alternating Current (AC) types vs Direct Current (DC) types. The majority of motors used in the UK are of 50 Hz A.C. type wound for 220/240 volts single phase or 380/440v three phase. The DC motor, however is becoming more common as it is more energy efficient and longer lasting, (70,000 hours as against 20,000 for the AC type). Vent-Axia's Lo-Carbon range all use the LoWatt DC motors offering up to 90% energy savings and longer life.

Mouldings

High grade ABS (Thermoplastic) is used to manufacture the Vent-Axia fan range. The antistatic properties minimises the need for cleaning whilst the strength and rigidity of the material means the whole range can be mounted on any surface (smooth or rough) and still maintain effective operation.

As well as a high degree of strength, the fans are resistant to aqueous acids, alkalis, concentrated hydrochloric and phosphoric acids, alcohols, and animal, vegetable and mineral oils making them ideal for kitchen and bathroom environments. This all ensures the fans are not only robust, but will continue to operate and look their best for a long time to come.

Manufacturing

Swindon

Key provider of our LoWatt DC Motor, manufacturing over 1 million motors for the HVAC market every year from the 80,000 sq ft factory.

Reading

Plastic moulding and extrusion manufacturing plant running over 30 injection moulding machines and 5 extrusion lines for rigid and flexible duct 24 hours a day from a 50,000 sq ft.

Dudley

Our largest site with 120,000 sq feet of manufacturing and warehousing space. Manufacturing base for our systems and industrial products including Sentinel Demand Ventilation and Sentinel Totus. Also the home of our heat recovery (MVHR) and Multivent (MEV) products.

Crawley

Manufacture of plastic ventilation ranges, design and laboratory facilities for rigorous product testing including safety, airflow and climate chambers with BEAB approval. The site also houses the Head Office functions including Sales Office, Customer Services, Technical Support and Marketing.





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



Vent-Axia Firsts

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 pull-cords.

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 LoWatt range featuring a DC motor and patented shutter system that used no additional power.

2002 - Commercial fans became energy efficient with LoWatt 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.

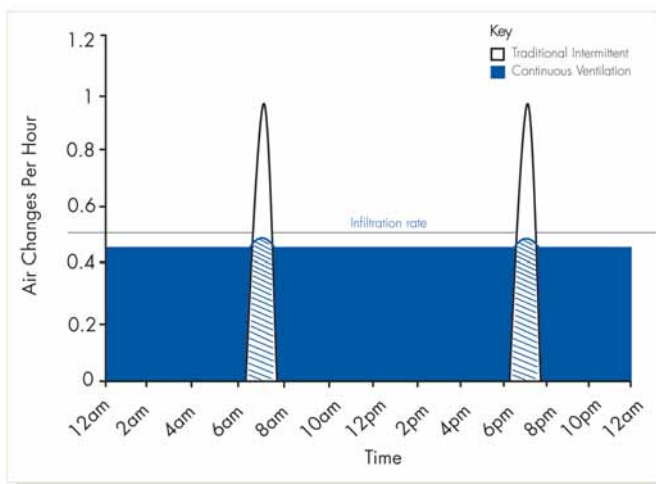


Vent-Axia

Continuous Ventilation

The Benefits

Traditional intermittent ventilation systems often provide peaks of high extract airflow which exceed the natural infiltration rates, this means we are simply warming indoor air and extracting it to atmosphere which is hardly energy efficient. This is shown below as the graph indicates the natural air change rate from a building with a leakage rate of 10m³ 3hm² @50pa.



The new systems from Vent-Axia are designed to work with the natural air infiltration and control the air path from the building thus preventing migration of damaging humidity and pollutants. This is achieved by using continuous low speed running extract fans in the wet rooms (bathrooms, kitchen and utility rooms) with a boost via the light switch, an integral pullcord or sensor when higher ventilation rates are required.

By providing ventilation in this way the extract systems can run at a much lower rate all the time, rather than at a high rate for 1 or 2 hours a day. This has a range of benefits including:

- Energy Efficiency - No over ventilation, so reducing unnecessary heat loss
- Near Silent Ventilation - Low speeds mean very low noise levels
- No trickle vents needed - The low rates mean that adequate replacement air is available naturally.





Continuous vs Intermittent Ventilation

The table below shows the total cost difference between continuous and intermittent ventilation.

		Hours a day	Motor consumption watts	kW/h per year	Price per kW/h	Total cost
Kitchen*	Quadra	23	3.5	29.38	0.12	£3.53
		1	4.1	1.50	0.12	£0.18
Bathroom*	Centra	23	1.4	11.46	0.12	£1.38
		1	2.4	0.85	0.12	£0.10
Continuous Total						£5.18
Kitchen	Centrif Duo	2	60	43.80	0.12	£5.26
Bathroom	Solo Plus	2	29	21.17	0.12	£2.54
Intermittent Total						£7.80
*Continuous fans running for 23 hours on trickle and 1 hour on boost						

The table below shows the total cost difference between standard intermittent ventilation and Lo-Carbon intermittent ventilation.

		Hours a day	Motor consumption watts	kW/h per year	Price per kW/h	Total cost
Kitchen*	Quadra	2	35.7	26.06	0.12	£3.13
Bathroom*	Silhouette 100	2	7.5	5.34	0.12	£0.64
Lo-Carbon Intermittent Total						£3.77
Kitchen	Centrif Duo	2	60	43.80	0.12	£5.26
Bathroom	Solo Plus	2	29	21.17	0.12	£2.54
Intermittent Total						£7.80

An Evolution in Residential Ventilation... Vent-Axia's Lo-Carbon Centra and Quadra

The Environment

Long life fans producing less waste for landfill and lower energy use reducing our carbon footprint. Long life motors and a 5 year warranty means fewer replacements.

LoWatt motors and computer designed impellers means up to 90% savings over traditional motors. The one size fits all means no components to dispose of at installation stage, again reducing wastage. Plastic components are 100% recyclable.

Landlords Choice

Suitable for kitchens, utilities, bathrooms and toilets, the ideal solution for all types of houses and every room situation, only one fan type for any dwelling. The 100mm spigot is common with traditional intermittent extract fans, simplifying the specification process.

Installers Choice

The fan that fits anywhere, is quick and easy to install with simple to replace components saving time and money. The 100mm spigot can replace any existing fan; Surface or recess mounted. One fan for all residential applications means a simplified stock profile and repeatable common installations.

Tenants Choice

With up to 80% less energy than a standard fan from the LoWatt motor it saves money and reduces the carbon footprint. The near silent design has no intrusive running noises plus the small neat flat front design ensures discrete application. Guaranteed installed performance with flexible motor speed selection at installation ensures a fresh healthy home.

Lo-Carbon Silhouette® 100

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.
- Blue neon power indicator - Modern aesthetics.
- Vertical or Horizontal Mounting - Installation options.
- Unique humidity sensor track - Improved response.
- 5 Year Motor Guarantee
- IPX4 rated.
- Suitable for wall, ceiling, panel and window* mounting.

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 24l/s. Silhouette can be ceiling/panel mounted and connected to an appropriate duct run to the outside.



17mm actual profile



Backdraught prevention vanes fitted on discharge

Models

Lo-Carbon Silhouette 100B
100mm, bathroom/toilet fan with neon running light and backdraught shutter.
Stock Ref **441624**

Lo-Carbon Silhouette 100T
100mm bathroom/toilet fan with integral adjustable electronic overrun timer (up to 30 mins), neon running light which operates a manual override only and backdraught shutter.
Stock Ref **441625**

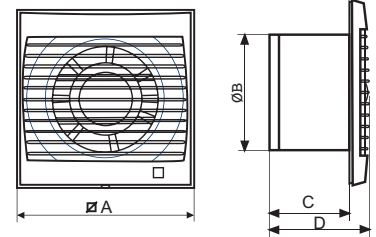
Lo-Carbon Silhouette 100HT
100mm bathroom/toilet fan with integral adjustable auto humidity sensor from 60-90% RH and overrun timer, neon running light which operates a manual override only and backdraught shutter.
Stock Ref **441626**

Dimensions (mm)

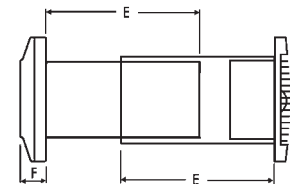
A	BØ	C	D	E	F
160	99	130	90	200	32

Weight 0.6kg

Panel



Wall Kit



Fixing hole diameter 117mmØ

Performance

Model	Extract Performance - FID			Sound dB(A)		SFP
	m³/h	l/s	Watts	@ 3m	Shutter	@ 0Pa
TOILET						
Lo-Carbon Silhouette 100B	60	16	3.4	26	Spring	0.21
Lo-Carbon Silhouette 100T	60	16	3.4	26	Spring	0.21
Lo-Carbon Silhouette 100H	60	16	3.4	26	Spring	0.21
BATHROOMS						
Lo-Carbon Silhouette 100B	88	24	6.5	32	Spring	0.27
Lo-Carbon Silhouette 100T	88	24	6.5	32	Spring	0.27
Lo-Carbon Silhouette 100H	88	24	6.5	32	Spring	0.27

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

Lo-Carbon Silhouette® 100 SELV

Bathroom/Toilet Fans



Features & Benefits

- Models Basic/Timer/Humidity - Installation options.
- SELV Transformer to BS EN 60742.
- Fully opening and closing shutters - Improved insulation.
- Non transparent shutters - Enhanced privacy.
- 1 of 2 speeds selectable at installation'
- Suitable for wall, ceiling, panel and window mounting.
- Blue neon power indicator - Modern aesthetics.
- Vertical or Horizontal Mounting - Installation options.
- Unique humidity sensor track - Improved response.
- Extremely low sound levels.
- IPX7 rated.
- 5 Year Motor Guarantee.

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 26l/s. Silhouette can be ceiling/panel mounted and connected to an appropriate duct run to the outside.



17mm actual profile



Backdraught prevention vanes fitted on discharge

Safety Extra Low Voltage (SELV) 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 New 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 fixed bath or shower.

Models

Lo-Carbon Silhouette SELV 100SVB - 100mm, bathroom/toilet fan with neon running light and backdraught shutter.
Stock Ref **441511**

Lo-Carbon Silhouette SELV 100SVT - 100mm bathroom/toilet fan with adjustable electronic overrun timer (up to 30 mins), in the transformer neon running light which operates whenever the fan is on and backdraught shutter.
Stock Ref **441512**

Lo-Carbon Silhouette SELV 100SVH - 100mm bathroom/toilet fan with remote auto humidity sensor from 60-90% RH, neon running light which operates whenever the fan is on and backdraught shutter.
Stock Ref **441513**

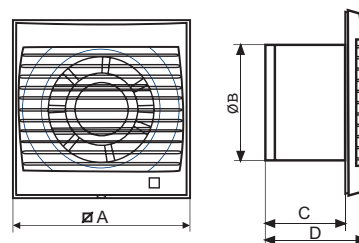
Dimensions (mm)

A	BØ	C	D	E	F
160	99	77	90	200	32

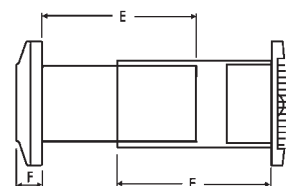
Transformer (WXHXD) 87X87X83

Weight 0.6kg

Panel



Wall Kit



Fixing hole diameter 117mmØ

Performance

Model	Extract Performance - FID			Sound dB(A)		SFP
	m³/h	l/s	Watts	@ 3m	Shutter	@ 0Pa
TOILET						
Lo-Carbon Silhouette 100 SVB	55	15	3.5	26	Spring	0.23
Lo-Carbon Silhouette 100 SVT	55	15	3.5	26	Spring	0.23
Lo-Carbon Silhouette 100 SVH	55	15	3.5	26	Spring	0.23
BATHROOMS						
Lo-Carbon Silhouette 100 SVB	95	26	7.5	32	Spring	0.29
Lo-Carbon Silhouette 100 SVT	95	26	7.5	32	Spring	0.29
Lo-Carbon Silhouette 100 SVH	95	26	7.5	32	Spring	0.29

Lo-Carbon VA150

Axial Kitchen & Utility Room Fans



Features & Benefits

- Reduces your carbon footprint
- Long life LoWatt motor lasts 5 times longer than conventional motors
- Up to 60% energy saving
- Meets current building regulations when installed
- IP44 rated
- Low sound levels
- 5 Year Motor Guarantee
- Suitable for wall, ceiling and panel mounting
- Unique patented instant electric opening shutter with positive closure
- '1 of 2 speeds selectable at installation' *except LHP and XHP

Long Life Ventilation

Vent-Axia Lo-Carbon VA150 fans feature LoWatt long life DC energy saving motors that last 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

Vent-Axia Lo-Carbon VA150 fans have instant shutters using patented Integral Magnetric Control (IMC) technology ensuring that the fan is only open to the outside world when it is working - with no extra power used to operate the shutter. This means that the only air to escape is the air extracted. When the fan stops the shutter closes firmly, until the fan operates again.

Installation

The 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.

The range meets the requirements of the current Building Regulations Document F for the ventilation of utility rooms 30l/s and for kitchens 60l/s.

Models

Lo-Carbon VA150P (Shutter/Pullcord)

Ultra long life DC energy saving motor. Patented instant electric opening shutter. Controlled with integral power supply with pullcord On/Off switch.

Stock Ref 459123

Performance

Model	Extract Performance		Sound dB(A)	
	m ³ /h	l/s	@ 3m	Watts
UTILITY SETTING				
Lo-Carbon VA150P	160	46	33	7.5
Lo-Carbon VA150T	160	46	33	7.5
Lo-Carbon VA150HP	160	46	33	7.5
KITCHEN SETTING				
Lo-Carbon VA150P	230	64	36	11.5
Lo-Carbon VA150T	230	64	36	11.5
Lo-Carbon VA150HP	230	64	36	11.5

Lo-Carbon VA150T (Shutter/Timer)

Ultra long life DC energy saving motor. Patented instant electric opening shutter. Controlled with integral power supply with electronic adjustable overrun timer (5-25 minutes).

Stock Ref 459124

Lo-Carbon VA150HP (Shutter/Humidistat)

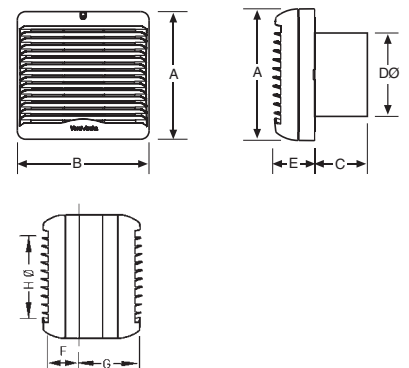
Ultra long life DC energy saving motor. Patented instant electric opening shutter. Controlled with integral power supply with pullcord override switch and adjustable humidity sensor (60-95% RH).

Stock Ref 459125

Dimensions (mm)

A	B	C	DØ	E
216	224	80	146	60

Weight 1.2kg



Lo-Carbon Silhouette® 150

Axial Kitchen & Utility Room 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 ensures installed performance to meet Building Regulation Document F requirements
- 5 Year Motor Guarantee
- '1 of 2 speeds selectable at installation' *except LHP and XHP
- 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 for detecting a change in internal humidity or an overrun timer option that is adjustable between 5 and 30 mins.

Models

Lo-Carbon Silhouette 150mm

Slim profile only 24mm. FID performance of 67l/s, double insulated. Power consumption only 7.5 watts.

Lo-Carbon Silhouette 150B

150mm kitchen fan with neon running light and backdraught shutter.

Stock Ref
441628

Lo-Carbon Silhouette 150T

150mm kitchen fan with integral adjustable electronic overrun timer (up to 30 mins), neon which operates on the manual override only and spring backdraught shutter.

Stock Ref
441629

Lo-Carbon Silhouette 150HT

150mm with integral adjustable auto humidity sensor from 60-90% RH and overrun timer, neon running light which operates on the manual override only and backdraught shutter.

Stock Ref
441630

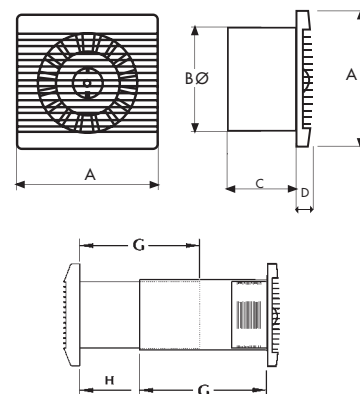
Performance

Model	m ³ /h	Extract Performance		Sound dB(A)	
		l/s	Watts	@ 3m	SFP @ 0Pa
UTILITY SETTING					
Lo-Carbon Silhouette 150B	165	46	5	35	0.15
Lo-Carbon Silhouette 150T	165	46	5	35	0.15
Lo-Carbon Silhouette 150HT	165	46	5	35	0.15
KITCHEN SETTING					
Lo-Carbon Silhouette 150B	241	67	8.2	43	0.15
Lo-Carbon Silhouette 150T	241	67	8.2	43	0.15
Lo-Carbon Silhouette 150HT	241	67	8.2	43	0.15

Fixing hole diameter 152mmØ (when wall kit used)

Dimensions (mm)

A	BØ	C	D	G	H
223	147	130	19	220	37
Weight 1.75kg					



Lo-Carbon Centra® dMEV Unit



Features & Benefits

- Part F compliant, System 3 Continuous mechanical extract.
- SAP Appendix Q eligible - Low SFP on SAP Q.
- Quietest dMEV available.
- Discreet, tasteful styling.
- Single fan for use in all applications.
- IPX4 rated
- Constant volume option.
- Normal and Boost speeds.
- LoWatt motor offering 90% energy savings and long life.
- 5 Year Motor Guarantee
- Suitable for wall, ceiling, panel and window mounting.

What is de-centralised MEV (dMEV)

The Building Regulations Part 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 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 Building Regulations Document F 2010 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. See individual models for further details.

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

Lo-Carbon Centra

The SAP Appendix Q eligible Centra has a specific fan power of only 0.18 w/l/s in through-the-wall kitchen applications.

Models

Lo-Carbon Centra

Optional Constant Volume. The integral digital air velocity sensor will monitor the airflow and maintain the preset extract flow rate of either 6l/s, 9l/s or 15l/s, minimising energy use and noise.

Stock Ref 441782

Lo-Carbon Centra 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 timer (adjustable up to 30 minutes).

Stock Ref 442954

Lo-Carbon Centra 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 timer (adjustable up to 30 minutes).

Stock Ref 442955

Lo-Carbon Centra 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 timer (adjustable up to 30 minutes).

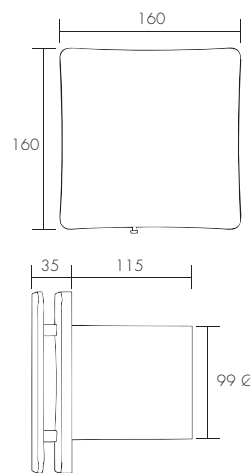
Stock Ref 443045

Lo-Carbon Centra CO₂ and humidity

Continuous running, automatically boosted with integral CO₂ or humidistat sensor.

Stock Ref 444672

Dimensions (mm)



150mm Conversion Kit

Stock Ref 443334

Performance

Model	Stock ref	Extract Performance (l/s)			Power consumption (Watts)			Sound dB(A)@ 3m		
		low	high	Boost	Trickle	Trickle	Boost	Trickle	Trickle	Boost
Lo-Carbon Centra	441782	6	9	15	1.4	1.6	2.4	10.8	15.5	25.2
Lo-Carbon Centra T	442954	6	9	15	1.4	1.6	2.4	10.8	15.5	25.2
Lo-Carbon Centra HT	442955	6	9	15	1.4	1.6	2.4	10.8	15.5	25.2
Lo-Carbon Centra HTP	443045	6	9	15	1.4	1.6	2.4	10.8	15.5	25.2
Lo-Carbon Centra CO ₂	443045	6	9	15	1.4	1.6	2.4	10.8	15.5	25.2

Lo-Carbon Centra® SELV

dMEV Safety extra low voltage



Features & Benefits

- Suitable for wall, panel, window and ducted applications.
- Discrete tasteful styling
- Low Specific Fan Power (SFP)
- 2 speed selection
- Reduces your carbon footprint.
- IPX7 rated
- Uses up to 90% less energy.
- All supplied with remote transformer
- Ultra quiet running
- 5 Year Motor Guarantee

Efficient Ventilation

The Vent Axia Centra range offers quiet ventilation, ultra quiet running combined with energy efficiency.

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 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.

Selection of the two normal flow rates (6l/s or 9l/s) is via a simple 'jumper' on the control board. Boosted to 15l/s.

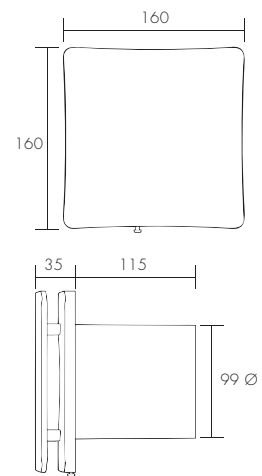
Models

Lo-Carbon Centra SELV T (Timer)
Adjustable electronic overrun timer (5-30 mins). IPX7 rated.
Stock Ref 443175

Lo-Carbon Centra SELV HT (Humidistat/Timer)
Remote adjustable auto humidity sensor from 60-90% RH. Timer is adjustable (5-30mins). IPX7 rated.
Stock Ref 443176

Lo-Carbon Centra SELV HP (Humidistat/Pullcord)
Adjustable auto humidity sensor from 60-90% RH manual override via the pullcord to run for preset overrun time. (Adjustable 5-30mins at Installation). IPX7 rated.
Stock Ref 443177

Dimensions (mm)



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

Performance

Model	Stock ref	Extract Performance (l/s)			Power consumption (Watts)			Sound dB(A)@ 3m		
		low	high	Boost	low	high	Boost	Trickle		Boost
								low	high	
Lo-Carbon Centra SELV T	443175	6	9	15	1.4	1.6	2.4	10.8	15.5	25.2
Lo-Carbon Centra SELV HT	443176	6	9	15	1.4	1.6	2.4	10.8	15.5	25.2
Lo-Carbon Centra SELV HP	443177	6	9	15	1.4	1.6	2.4	10.8	15.5	25.2

Lo-Carbon Quadra®

“One Fan fits all”
Centrifugal Fan



Features & Benefits

- Single fan for use in toilets, bathrooms, utility rooms and kitchens
- Meets Building Regulations for intermittent or continuous use
- Guaranteed installed performance
- 100mm circular spigot for easy installation and replacement of any existing fan
- Filterless technology and maintenance free
- LoWatt 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
- Suitable for wall, ceiling and panel mounting.

Ventilation for any room

The Lo-Carbon Quadra offers a single fan suitable for surface or flush mounting (when used with the flush mounting kit) in any room. Speeds selectable at installation enable Quadra to be used in toilets, bathrooms, utility rooms or kitchens to comply with either continuous or

intermittent Building regulations (Document F) requirements. 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.

Low maintenance design

The unique filterless design provides a maintenance free fan with the additional benefit of a cartridge system in the unlikely event of a motor failure. This ensures that it offers the easiest installation and replacement available. Less waste also means less landfill, improving the products carbon footprint and sustainability.

Discreet

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

Quadra TP (Timer/pullcord)

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

Stock Ref **439251**

Quadra HTP (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)

Stock Ref **439181**

Quadra TM (Timer/PIR)

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

Stock Ref **439253**

Flush mounting Kit

Stock Ref **439256**

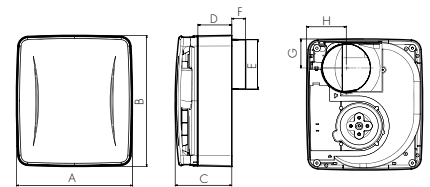
Filter

Stock Ref **439927**

Decoration Frame

Stock Ref **442551**

Dimensions (mm)



A	B	C	D	E	F	G
230	260	112	67	98	27	58

Performance

Model	Stock Ref Number	Extract Performance High		Extract Performance Low		Power High		Power Low		Sound dB(A) @ 3m	
		m³/h	l/s	m³/h	l/s	Watts	Watts	High	Low		
Quadra TP	439251	216	60	22	6	35.7	3.8	50	20		
Quadra HTP	439181	216	60	22	6	35.7	3.8	50	20		
Quadra TM	439253	216	60	22	6	35.7	3.8	50	20		

*Tested in through the wall installation

Lo-Carbon Quadra® SELV

“One Fan fits all” Centrifugal Fan



Features & Benefits

- Single fan for use in kitchens, bathrooms, utility rooms and toilets
- Meets Building Regulations for intermittent or continuous use
- Guaranteed installed performance
- Safety Extra Low Voltage (SELV) Applications
- 24DC Safety Isolating Switch Mode Power Supply
- Filterless Technology maintenance free
- LoWatt motors offering 90% energy savings and long life
- Simple motor cassette replacement
- Suitable for flush or surface mounting
- 5 Year Motor Guarantee
- IPX7 rated
- Suitable for wall, ceiling, panel and window mounting.

Quadra SELV

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 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 SELV offers a single fan suitable for surface or flush mounting (when used with the flush mounting kit) in any room. Speeds selectable at installation enable Quadra to be used in toilets, bathrooms, utility rooms or kitchens to comply with either continuous or intermittent Building regulations (Document F) requirements. 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.

Low maintenance design

The unique filterless design provides a maintenance free fan with the additional benefit of a cartridge system in the unlikely event of a motor failure. This ensures that it offers the easiest installation and replacement available. Less waste also means less landfill, improving the products carbon footprint and sustainability

Discreet

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

Quadra SVTP (Humidistat/Timer/Pullcord)

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

Stock Ref **442865**

Quadra SVHTP

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)

Stock Ref **442866**

Quadra 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)

Stock Ref **442867**

Flush mounting Kit

Stock Ref **439256**

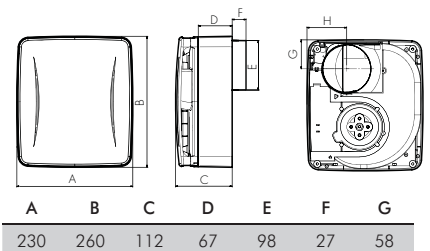
Filter

Stock Ref **439927**

Decoration Frame

Stock Ref **442551**

Dimensions (mm)



Performance

Model	Stock Ref Number	Extract Performance High		Extract Performance Low		Power High		Power Low		Sound dB(A) @ 3m	
		m³/h	l/s	m³/h	l/s	Watts	Watts	High	Low	High	Low
		Quadra SELV TP	442865	216	60	22	6	35.7	3.8	50	20
Quadra SELV HTP	442866	216	60	22	6	35.7	3.8	50	20		
Quadra SELV TM	442867	216	60	22	6	35.7	3.8	50	20		

*Tested in through the wall installation

Lo-Carbon Tempra

Single Room Heat Recovery Unit



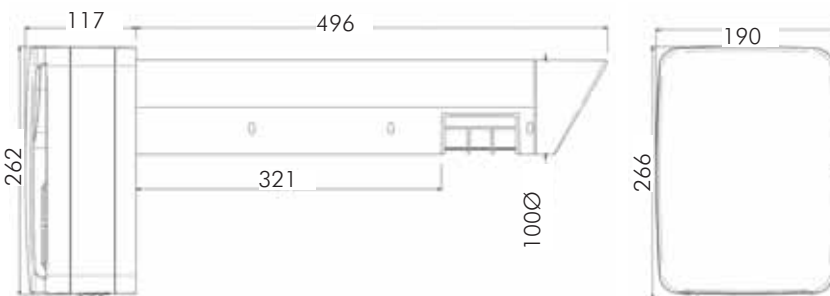
Features & Benefits

- Fits in 100mm diameter hole – ideal for refurbishments
- 74% heat recovery
- Reduces your carbon footprint
- Choice of control options
- Suitable for refurbishment
- Summer setting
- Helps prevent noise ingress
- Continuous running or intermittent extract

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 intermittent extract fans under the Building Regulations Part F (Table 1.1a)

Dimensions



Performance

Model	Stock ref	Extract Performance l/s			Power Consumption Watts					
		Trickle Low	Trickle High	Boost	Trickle Low	Trickle High	Boost	Trickle Low	Trickle High	Boost
Lo-Carbon Tempra P	443312	6	9	15	2	5.1	22.5	20	22	36
Lo-Carbon Tempra T	443310	6	9	15	2	5.1	22.5	20	22	36
Lo-Carbon TempraHTP	443311	6	9	15	2	5.1	22.5	20	22	36

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

and also for continuous products. Installed in all wet areas, the Tempra is classed as a wholehouse ventilation system and therefore is only required to move the amount of air as laid down in table 5.1a of Document F.

Maximum wall thickness 318mm

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 6l/s or 9l/s, boosting up to 13l/s, recovering heat from extracted air and returning it to the dwelling. The unique, compact heat exchanger has a temperature efficiency up to 70%, saving energy and reducing your carbon footprint. For intermittent extract the Tempra is set to 15l/s.

The Lo-Watt ECDC motor with twin impellers

consumes as little as 3.4 Watts on trickle rate and runs almost noiselessly 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.

Model

Lo-Carbon Tempra P (Pullcord)

Constant trickle speed with pull cord or switch live to boost airflow.

Stock Ref 443312

Lo-Carbon Tempra T (Timer)

Constant trickle speed with switch live to boost airflow with adjustable 5-50 min overrun timer and optional 3 minute delay on timer.

Stock Ref 443310

Lo-Carbon Tempra HTP (Humidistat/Timer/Pullcord)

Constant trickle speed with pull cord or switch live to boost airflow with adjustable 5-50 min overrun timer and optional 3 minute delay on timer or internal humidistat adjustable 60- 90% RH.

Stock Ref 443311

Lo-Carbon Tempra SELV

Single Room Heat Recovery Unit



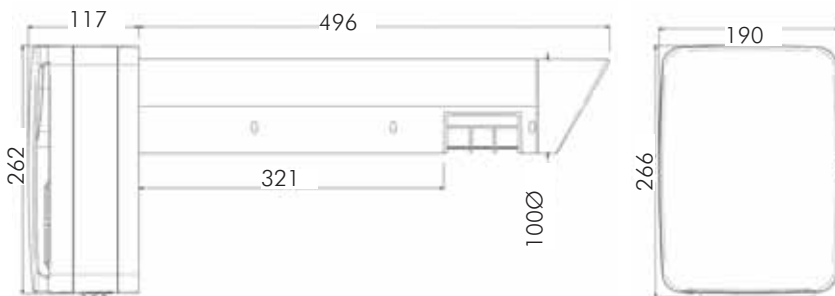
Features & Benefits

- Fits in 100mm diameter hole – ideal for refurbishments
- 74% heat recovery
- Reduces your carbon footprint
- Choice of control options
- Suitable for refurbishment
- Summer setting
- Helps prevent noise ingress
- Continuous running or intermittent extract

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 intermittent extract fans under the Building Regulations Part F (Table 1.1a)

Dimensions



Performance

Extract Performance l/s

Power Consumption Watts

Model	Stock ref	Extract Performance l/s			Power Consumption Watts					
		Trickle Low	Trickle High	Boost	Trickle Low	Trickle High	Boost	Trickle Low	Trickle High	Boost
Lo-Carbon Tempra SELV P	444368	6	9	15	2	5.1	20.5	20	22	36
Lo-Carbon Tempra SELV T	444369	6	9	15	2	5.1	20.5	20	22	36
Lo-Carbon Tempra SELV HTP	444370	6	9	15	2	5.1	20.5	20	22	36

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

and also for continuous products. Installed in all wet areas, the Tempra is classed as a wholehouse ventilation system and therefore is only required to move the amount of air as laid down in table 5.1a of Document F.

Maximum wall thickness 318mm

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 6l/s or 9l/s, boosting up to 13l/s, recovering heat from extracted air and returning it to the dwelling. The unique, compact heat exchanger has a temperature efficiency up to 70%, saving energy and reducing your carbon footprint. For intermittent extract the Tempra is set to 15l/s.

The Lo-Watt ECDC motor with twin impellers

consumes as little as 3.4 Watts on trickle rate and runs almost noiselessly 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.

Model

Lo-Carbon Tempra SELV P (Pullcord)

Constant trickle speed with pull cord or switch live to boost airflow.

Stock Ref **444368**

Lo-Carbon Tempra SELV T (Timer)

Constant trickle speed with switch live to boost airflow with adjustable 5-50 min overrun timer and optional 3 minute delay on timer.

Stock Ref **444369**

Lo-Carbon Tempra SELV HTP (Humidistat/Timer/Pullcord)

Constant trickle speed with pull cord or switch live to boost airflow with adjustable 5-50 min overrun timer and optional 3 minute delay on timer or internal humidistat adjustable 60- 90% RH.

Stock Ref **444370**

Positive Pressure Ventilation



What is PPV?

Also known as Positive Input Ventilation (PIV), positive pressure fans draw fresh air from the atmosphere, filter it and push it into the dwelling via a diffuser. All stale air in the property is forced out through the natural forms of ventilation, such as window mounted trickle vents.

The table below shows the total cost of Positive Pressure Ventilation.

	Hours a day	Motor consumption watts	kW/h per year	Price per kW/h	Total cost
Whole House PoziDry* Solution	23	2.5	20.99	0.12	£2.52
	1	13	4.75	0.12	£0.57
Continuous Total					£3.09

Positive Pressure Units

Vent-Axia have two versions of a positive pressure unit, one for loft mounting and a compact version for properties without loft space that can be discreetly mounted in a number of locations. This entire design is a result of close consultation with the public sector authorities. This valuable feedback has resulted in special attention to key design features such as robust construction, longer life filters, user friendly operation, reliable controls and wiring flexibility. Both versions can be used for air replacement in conjunction with an extract fan.

*Running for 23 hours on trickle and 1 hour on boost



PoziDry

For controlling condensation particularly in the refurbishment sector, the Vent-Axia PoziDry offers a quick and simple solution. An out of sight loft mounted positive input fan draws in fresh air from the atmosphere, filters it and pushes it through a ceiling mounted diffuser normally located over the main stairwell of a two story dwelling or in the main hall of a bungalow.



PoziDry Compact

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

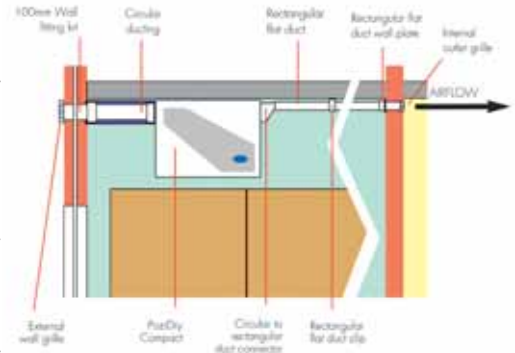
Air is drawn into the PoziDry Compact unit via an external inlet and through a short length of duct. The specially developed fan/motor assembly (using the LoWatt DC motor technology) draws the air through an integral, high capacity, washable filter. The backward curved impeller guarantees increased efficiency, 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. There is minimal power consumption and costs as little as one penny a day to run. Creating an environment where the damaging effects of condensation find it hard to exist, benefits both the occupants and the structure of the home.



The PoziDry Compact unit is easily installed discreetly above a cupboard in a kitchen.



Lo-Carbon PoziDry

Positive Pressure Unit



Features & Benefits

- Selectable air capacities to suit house volumes of up to 400m³, or floor area up to 150m².
- Uses latest LoWatt technology motor for low running costs.
- Ultra Low sound level.
- PoziDry comes complete with ceiling diffuser, flexible duct, worm drive clips.
- Standard 5 year guarantee.
- Up to 5 year maintenance free EU4 filter
- Loft mounted

Without heater
Stock Ref

444075

With integral heater
Stock Ref

444766

Installation

It is simply installed, out of sight in the loft space, with a purpose-designed diffuser normally located over the stairwell of a conventional two story dwelling or in the main hall of a bungalow. 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 PoziDry features a specially developed LoWatt DC fan/motor arrangement quietly delivers incredibly low running costs. The special insulation mount provided ensures PoziDry is user friendly and quiet in operation.

Can be used for air replacement in conjunction with an extract fan.

Filter

The unit includes a filter with up to 5 years maintenance free 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 400m³. The unit automatically takes advantage of 'solar gain' by increasing airflow when the loft temperature is over 19C.

PoziDry also benefits from a switched live input which activates 'Purge' setting (Maximum speed).

Heater

PoziDry with integral comfort heater automatically switches on when the loft temperature is low.

Typical Specification

Supply and install a PoziDry positive pressure loft unit for wholehouse condensation control as manufactured by Vent-Axia Ltd, Fleming Way, Crawley, West Sussex, RH10 9YX. Telephone: 0844 8560590. 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 should meet the EMC and Low Voltage Directive.

The unit includes a filter with up to 5 year maintenance intervals. And an integral time elapse meter. A tamper-proof cover to prevent casual interference in the running of the unit should cover the switch.

Motor

The electronically controlled DC motor is manufactured with long life ball bearings

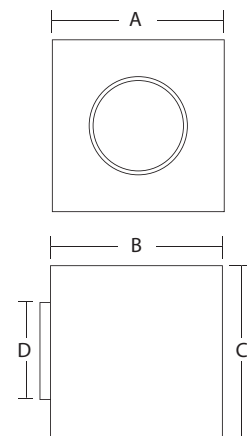
and is fitted with Standard Thermal Overload Protection (S.T.O.P). Suitable for ambient operating temperatures of -25°C to +40°C.

For complete peace of mind the Vent-Axia PoziDry is backed by a 5 year guarantee upon registration.

Dimensions

A	B (depth)	C
438	411	379

Weight: 11.5kg



Speed	1	2	3	4	5	6
FID (L/S)	10	18	26	34	42	50

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 100m².
- Extremely low running costs - from less than one penny per day.
- Washable, high capacity filter.
- Round to rectangular duct adaptor included.
- 5 Year Guarantee.
- Compact for properties without loft space

Without heater
Stock Ref

444076

With integral heater
Stock Ref

444767

Typical Specification

Supply and install a PoziDry Compact positive pressure flat unit for condensation control as manufactured by Vent-Axia Ltd, Fleming Way, Crawley, West Sussex, RH10 9YX Telephone: 0844 856 0590. The unit should be mounted on the wall with an inlet from atmosphere and on the supply side flat duct to the central area of the property. The unit should meet the EMC and Low Voltage Directive.

Performance

The PoziDry Compact features a specially developed LoWatt DC fan/motor arrangement which quietly delivers very low running costs. The Lowatt DC motor with long life ball bearings is suitable for ambient operating temperatures of -25°C to +40°C and is fitted with Standard Thermal Overload Protection (.S.T.O.P.).

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 34l/s, the unit is suitable for houses up to 100m². The unit automatically takes advantage of 'solar gain' by increasing airflow when the loft temperature is over 19C. PoziDry also benefits from a switched live input which activates 'Purge' setting (Maximum speed).

Accessories

Wall Fitting Kit

This telescopic kit will fit most walls when used as an air intake wall liner for Pozidry Compact installations.

Quick Fix 100mm Wall Grille

Terminates a rigid duct on an outside wall using the "quick fix" side grips without the need of further fixings.

Quick Fix 100mm Termination

The Quick Fix wall termination is designed to be installed from inside the building to a nominal 100mm diameter core-cut hole, saving time and cost. Four sealing rings afford a watertight fit to the wall external leaf.

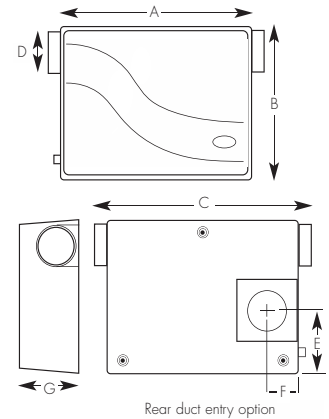
Air Replacement Grille Set

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.

Dimensions (mm)

A	B	C	D	E	F	G
435	365	490	100	160	58	160

Weight: 7kg

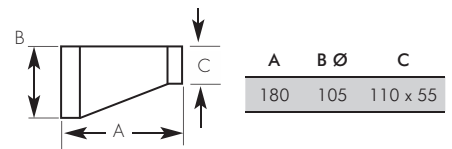


Performance

Speed	1	2	3	4
FID (l/s)	10	18	26	34

Duct Adaptor (included)

Dimensions (mm)



Optimax® Plus Range Storage Heaters



Features & Benefits

- Optimised charge period offers 15% energy saving.
- Reduced installation times.
- Conveniently mounted controls.
- Range of 3 (Optimax) & 4 (Optimax Plus) heat outputs .
- Colour RAL 9001 (Optimax) & RAL 9001 (Optimax Plus).

Vent-Axia Combination Storage Heaters take advantage of low tariff night-time electricity in the same way as our domestic storage heaters. IP20 rated.

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 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 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 -

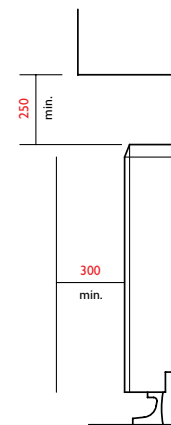
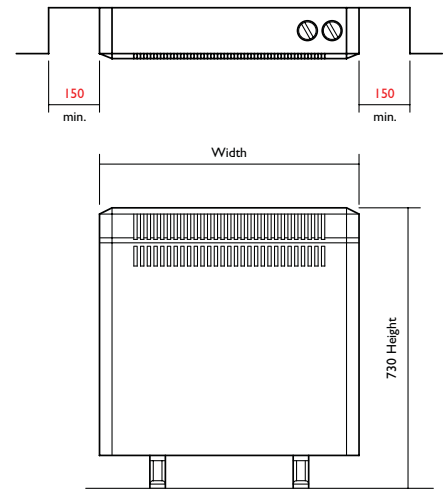
Model

VACSH 12A
VACSH 18A
VACSH 24A

Stock Ref

438919
438920
438921

Dimensions (mm)



Specification

Model	Input kW	Width mm	Height mm	Depth mm	Weight kg	No. of Bricks
VACSH 12A	1.70	540	730	185	79	8
VACSH 18A	2.55	765	730	185	116	12
VACSH 24A	3.40	990	730	185	152	16
VASH 6	0.85	332	700	170	41	4
VASH 12/12A	1.70	560	700	170	77	8
VASH18/18A	2.55	788	700	170	110	12
VASH 24/24A	3.40	1016	700	170	145	16

220-240V-50Hz. BEAB Approved.

Optimax® Plus

Storage Heaters



Features & Benefits

- Optimised charge period offers 15% energy saving.
- Reduced installation times.
- Conveniently mounted controls.
- Range of 3 (Optimax) & 4 (Optimax Plus) heat outputs .
- Colour RAL 9001 (Optimax) & RAL 9001 (Optimax Plus).

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.

Then just sit back and enjoy comforting warmth day after day after day.

Models

Storage Heaters -

Manual and Automatic versions available.

Model

VASH 6
VASH 12
VASH 12A
VASH 18
VASH 18A
VASH 24
VASH 24A

Stock Ref

439355
439356
439359
439357
439360
439358
439361

(A= Automatic)

Stylish Heating

Vent-Axia Storage Heaters are simple to install, economical to run and virtually maintenance free. IP20 rated. Ideal for use in living rooms, hallways, 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.

Installation is remarkably simple

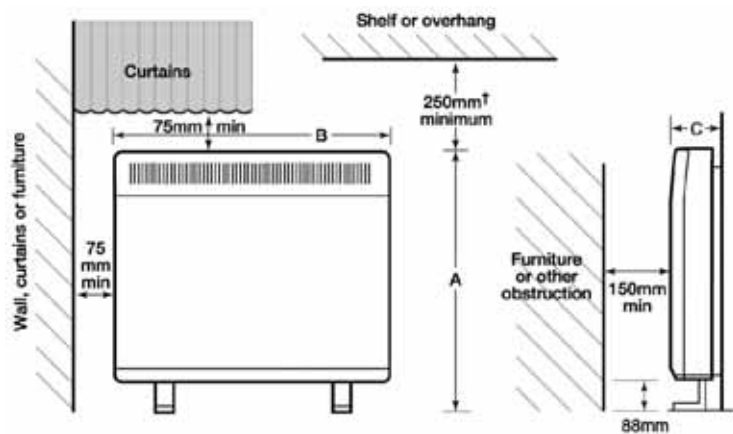
Vent-Axia Storage Heaters are often an economic alternative for new build or in existing properties, particularly where no other fuel source is available.

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 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.

Dimensions (mm)



Specification

Model	Input kW	Width mm	Height mm	Depth mm	Weight kg	No. of Bricks
VACSH 12A	1.70	540	730	185	79	8
VACSH 18A	2.55	765	730	185	116	12
VACSH 24A	3.40	990	730	185	152	16
VASH 6	0.85	332	700	170	41	4
VASH 12/12A	1.70	560	700	170	77	8
VASH18/18A	2.55	788	700	170	110	12
VASH 24/24A	3.40	1016	700	170	145	16

220-240V-50Hz. BEAB Approved.

Optimax Plus

Panel Heaters



Features & Benefits

- Integral adjustable thermostat.
- Optional integral timer.
- 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

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

Stylish Heating

Vent-Axia's Standard 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 minimum 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.

Thermostat Model

All Vent-Axia Panel Heaters have a built-in adjustable thermostat offering a full temperature range, including a frost protection setting of 5°C.

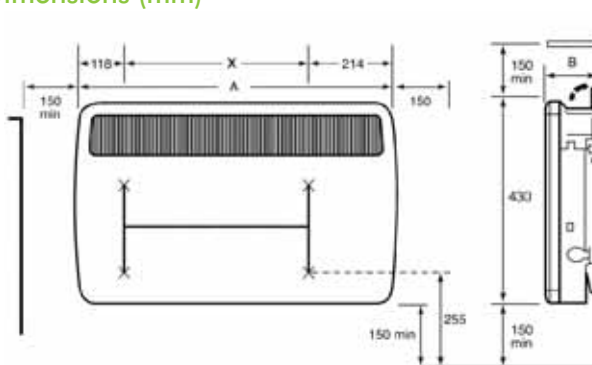
For maximum safety there is a thermal cut-out on all models to prevent overheating, should the outlet grille be accidentally covered. Panel Heaters

Specification

Model	Output kW	A Width mm	B Depth mm	X Bracket mm	Weight kg
VAPH 075/T	0.75	620	108	288	6.2
VAPH 125/T	1.25	690	108	358	6.6
VAPH 150/T	1.5	690	108	358	6.6
VAPH 200/T	2	860	108	528	8.0

220-240V-50Hz. BEAB Approved.

Dimensions (mm)



Downflow Heater & Portable Fan Heater



Features & Benefits

- Stylish compact design
- 2kW Output
- Pull Cord Operation
- Neon running Indicator
- Double Insulated Class II.
- IPX2 rated

Features & Benefits

- Thermostat control.
- Fan only mode for summer cooling.
- 2 heat settings.
- Safety cutout

Downflow Heater

The Vent Axia Downflow Heater will deliver a welcoming warmth when its most needed in all room applications including bathrooms and living spaces.

The IPX2 rated Downflow Heater operates via a pull cord and is suitable for use within zone 2 of the bathroom. The Downflow Heater has a 2kW power loading and is designed to be permanent wall located for use with an AC electrical supply.

The Downflow Heater is fitted with pre-set step down thermostat which regulates the room temperature and offers an energy saving. It also has a in built thermal cut out safety feature. With a neon indicator running light the Downflow Heater is simple to install.

Models

Downflow Heater

Model
VADH2

Stock Ref
455834A



Model	Rating kW	Width mm	Height mm	Depth mm	Weight kg
VADH 2	2	229	242	109	1

220-240V-50Hz.

Portable Fan Heater

The Vent-Axia Portable Fan Heater is a floor standing heater with 3 settings, fan only, 1kW and 2kW outputs. A variable thermostat. The unit comes complete with 13amp plug.

Dimensions (W x H x D) 220 x 110 x 220

Models

Convactor Heaters -

Model
VAFH2TC

Stock Ref
426715



Thernamic Heat Pumps



Vent-Axia unveils heat pump products

The Daikin Altherma product range, available from Vent Axia, will feature a selection of air source heat pumps including single and three-phase split systems from 6-16kW. All split systems comprise separate indoor and outdoor units, with the indoor units available as either heating only or heating and cooling options.

Vent-Axia will also offer a monobloc version, in which all the hydraulic parts are located within the outdoor unit of the air source heat pump. In this system the water pipes - rather than refrigerant lines - run indoors from the outdoor unit, making installation much quicker and easier for the domestic installer. The monobloc unit is available in both single and three-phase from 11-16kW.

A high temperature air source heat pump completes the range now available from Vent-Axia. Available in single and three-phase from 11-16kW, the unit features unique cascade technology that can heat water temperature up to 80°C without needing an electric heater to boost the temperature. The high temperature system is capable of delivering heating and hot water, as a direct replacement for a traditional boiler, without the expense of changing the existing radiators.

"At Vent-Axia we recognise the importance of embracing renewable energy technology to tackle climate change and maintain secure energy supplies. Our range of heat pumps consists of both air source and ground source products to ensure specifiers and installers have the correct solution for each individual project," explains Richard Paine, Product Marketing Manager.

"Vent-Axia currently supplies many Lo-Carbon™ products; our heat pump range will complement existing products such as the Sentinel Kinetic as part of a whole house package of measures designed to reduce energy consumption for the homeowner."

The introduction of renewable energy products combined with the innovative Lo-Carbon™ ventilation range will offer specifiers and contractors unrivalled access to extensive technical advice and expertise. Vent-Axia's aim will be to deliver low building energy consumption and work towards lowering carbon emissions.

Vent-Axia's Thernamic™ ground source heat pumps are designed to provide space heating and domestic hot water. The product range includes single phase units from 4-24KW and three phase units from 4-30KW. A high temperature series is also available from 4-20KW which is capable of heating at temperatures up to 65 °C negating the need to use direct acting emersion heater whilst still meeting the cylinder pasteurization temperatures.

A range of commercial units are also available in three phase from 20-75KW and are capable of bolting together to provide higher system capacities.

To provide a comprehensive package for specifiers and installers Vent-Axia will provide all the accessories that are required for the installation of its ground source heat pumps. This includes manifolds, ground collectors, cylinders, buffer vessels and glycol.

All the Vent-Axia Thernamic™ products will be MCS accredited and eligible for the RHI payments when the scheme is launched in April 2011. The scheme looks to radically change the way that renewable heat sources will be funded. All heat pump installations from 15th July 2009 are eligible to receive this funding, provided the products are MCS registered and installed by an accredited MCS engineer.

Further information on Vent-Axia's Thernamic™ range of heat pump products will be available at www.vent-axia.com shortly.

Vent-Axia Case Studies



Vent-Axia's ultra-quiet solution is the key to cost and carbon cutting for Magna West Somerset Housing Association

Near-silent, continuous running ventilation from Vent-Axia, the market leader in low carbon ventilation, is helping one housing association in the West Country make across the board improvements to its tenanted housing stock. Vent-Axia's ground-breaking Lo-Carbon™ Centra and Quadra fans, combined with Freshvent 100 natural ventilation technology, are enabling the Magna West Somerset Housing Association to make dramatic savings on maintenance costs, cut carbon emissions and simplify product specification and installation whilst improving living conditions and reducing fuel bills for tenants.

Based in Williton, near Taunton, the Magna West Somerset Housing Association is responsible for 2,200 properties, comprising a mixture of one, two, three and four bedroom flats, houses, bungalows and sheltered schemes. Having worked with Vent-Axia for a number of years, the organisation had always rated the company's ventilation products highly for their performance, reliability, and cost effective installation. But fuel poverty issues in a number of properties were creating condensation problems leading to rising maintenance costs. The Association's Contracts Manager, Sean Thompson, takes up the story.

"We operate in an area with a very high level of fuel poverty. One of our biggest problems is condensation and mould growth caused by residents turning off the extract fans at the isolator because of the running cost and the operating noise of the fans."

The Association co-operated closely with Vent-Axia to resolve these issues, resulting in an ongoing ventilation refit programme for its properties. Old intermittent fans in kitchen and bathroom areas are being replaced by new continuous running Lo-Carbon™ Centra and Quadra products to provide an ultra-quiet, energy efficient and easy to fit alternative, supported by Freshvent 100 natural ventilation.

Ideal for retrofitting, Vent-Axia's Lo-Carbon™ Centra offers virtually noiseless operation in a fresh design which fits discreetly and easily into any home. It offers trickle ventilation and includes a boost feature which can be utilised as necessary based on specific room requirements. Adjustable 'Normal' running speeds make it suitable for continuous extract in kitchens, bathrooms, en-suites

and utility rooms, so social housing specifiers only require one fan type for any dwelling. Vent-Axia's Quadra is a domestic fan suited to through-the-wall or ducted applications. Also designed for quick and straightforward installation in multiple rooms, Quadra provides a guaranteed installed performance thanks to an innovative switch 'n fit feature in the fan. It offers a range of advanced control options to boost efficiency, and ease installation and commissioning. Both fans incorporate energy saving Vent-Axia Lo-Carbon™ DC motors, bringing up to an 90% reduction in fuel consumption over traditional AC fans.

Freshvent 100 is a range of passive ventilators for use with positive pressure ventilation. These ventilators provide 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.

"Thanks to Vent-Axia, we are seeing a positive reduction in condensation and associated health and property maintenance problems" says Sean. "There are important additional benefits too. The versatility of the Centra and Quadra fans has helped us to rationalise our stock. We now fit these units in all applications. They've allowed us to reduce the stockholding for our electrical contracting teams, enabling us to improve our service to our residents".

Unlike traditional intermittent fans, continuous ventilation systems work with the natural air infiltration to prevent the migration of damaging humidity and pollutants. This is achieved through continuous running, low speed extract fans in the wet rooms with a boost via the light switch, an integral pull cord or sensor when higher ventilation rates are required. Systems can thus run near silently at a much lower rate all the time, rather than at a noisy, high rate for one or two hours a day.

Both Centra and Quadra are part of Vent-Axia's Lo-Carbon™ collection. The aim of the Lo-Carbon initiative is to offer the latest low carbon ventilation technology in order to reduce building energy consumption and so carbon emissions. For further information on all products and services offered by Vent-Axia telephone 0844 856 0590 or visit www.vent-axia.com.

Vent-Axia also offer

An extensive product portfolio for social housing and the refurbishment market including:



Cooling

Vent-Axia cooling is ideal for residential or commercial environments. So whether it's a bedroom or hallway, office or shop, we can provide the solution.



Hygiene

Elegantly designed, powerful, yet quiet hand and face dryers for use in many situations where hygiene, economy, convenience and safety are prime.



MVHR

A complete range of MVHR units for a range of residential and commercial applications, including many that are SAP Appendix Q Eligible. Significant in helping meet carbon reduction targets under Level 3 to Level 5 of the Code for Sustainable Homes.





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

Vent-Axia®

VENT-AXIA CONTACT NUMBERS

Free technical, installation and sales advice is available

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Domestic & Commercial

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Sales Fax: 01293 565169
Tech Support Tel: 0844 856 0594
Tech Support Fax: 01293 539209

Industrial

Sales Tel: 0844 856 0591
Sales Fax: 01293 534898
Tech Support Tel: 0844 856 0595
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Web: www.vent-axia.com
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Supply & Service

All sales made by Vent-Axia Limited are made only upon the terms of the Company's Conditions of Sale, a copy of which may be obtained on request. As part of the policy of continuous product improvement Vent-Axia reserves the right to alter specifications without notice.



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