

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



Vent-Axia Heating Range



Why Choose Electric Heating?

Vent-Axia has been at the forefront of technical innovation in the ventilation industry for 80 years and we understand that heating and ventilation go hand in hand to deliver a comfortable and healthy indoor environment.

Our recently extended heating range now includes electric underfloor heating, a comprehensive range of towel rails, a selection of indoor and outdoor radiant heaters and the next generation of energy saving aluminium radiators.

This extended range complements our existing heating products and allows us to deliver a complete heating and ventilation solution; regardless of the size or type of project, we can deliver to our customers' individual needs.

We can also manage energy demand reduction through market leading heat recovery technology such as our Lo-Carbon Temptra single room heat recovery unit; in combination with electric heating we can help customers reduce their energy use and save money on their bills. For more information on the Temptra visit www.vent-axia.com/temptra

An Electric Future

The Government's commitment to green energy places electric heating at the heart of the home. Combined with low installation and maintenance costs, and advanced controls, electric heating offers a natural solution.

The Government's energy strategy sets out four headline goals:

- To mitigate climate change
- To strengthen energy security
- To eliminate fuel poverty
- To improve economic competitiveness

Sustainable energy supplies and demand reduction are key to achieve the energy strategy.

Local micro-generation, large scale renewable generation, nuclear power and bio-fuels are the four key energy sources of the future. As these new technologies are rolled out we will see a continuous decline in the carbon content of electricity generation making the decision to switch to electricity an easier one.

Even the most advanced gas boilers still waste energy through flues and are at best around 90% efficient whereas electric heating is 100% efficient at the point of use with all of the electricity being converted directly into heat. Add this to a 50% longer product life span and the decarbonisation of the power grid, the case for electric heating is clear.

Developers' Choice

The simplicity of installing electric heating, particularly in high rise apartments means it is the natural choice for developers. Connection to the electrical circuit at second fix wiring stage can reduce on-site time and simplify project management. The low capital cost of products enhances an already cost-effective heating solution.

Refurbishments also benefit from the versatility of electric heating. Additional heaters and heating zones can be added with minimal disruption to the occupants and building fabric. Electric heaters are not restricted by the requirement for flues or gas supplies.

Consumers' Choice

Householders benefit from low capital and installation outlay; however there are further savings from low lifetime ownership costs. Fuel cost is only part of the equation when considering the carbon footprint and energy consumed in the lifetime of a product. Installation, maintenance, service and durability must also be taken into account.

Electric heating can be installed virtually anywhere in any room giving the freedom of choice to achieve the optimum use of space and highest comfort levels. For extensions and refurbishments, this flexibility may also mean that there is no need to replace an expensive boiler at the limit of its capacity. Simply adding electric heating will save the disruption of extending or even replacing a wet heating system.

Sophisticated electronic controls ensure that comfort levels are maintained and 'over-run' is prevented, thus saving energy. Night-time setback and full seven day programmers mean the temperature will be just right, whatever the time.

Landlords' Choice

Safety is a paramount concern for social and private landlords who are increasingly responsible for the health and safety of their tenants. Electric heating is reliable and doesn't produce toxic fumes so there is no associated danger to health through product failure and no risk of explosion. Wet heating systems require an annual service, adding significantly to operating costs and potentially causing administrative headaches over access to heating systems.

Electric heating can be designed to keep a building at a constant temperature throughout the day. This reduces humidity and helps eliminate mould growth and condensation which causes damage to the building fabric, fixtures and fittings. Building maintenance is reduced and occupants benefit from a comfortable and healthy environment.

Customer Service

Here at Vent-Axia we have tailored our Heating Product Range to meet all of your heating requirements. Regardless of the size or type of project, we can fulfil it.

Our aim is to specify and quote as quickly as possible either over the phone or by email. Quotation turnaround time varies depending on the size of the project. We aim to respond to your heating query within 72 hours turnaround including calculating heat losses, product selection and issue of quotation. For Underfloor Heating we aim to contact you within an hour of your request and subject to obtaining all the relevant information, we will submit a quote the same day.

There is no minimum order charge when ordering Vent-Axia Heating products. Please note for Storage Heaters, free delivery only applies to orders of 6+ units.

*Next day delivery excludes the Scottish Highlands, Aberdeen, Channel Islands, Isle of Man and Isle of Wight.

**For over the phone Underfloor Heating enquiries, consisting of one room only.

Contact the heating team on
0844 856 0596.



No minimum order charge



Free next day delivery*
(on Underfloor Heating products)



1 hr quotation turnaround**



Special offers available



Online Sizing Guide

Vent-Axia has tailored its Heating Product Range to cover all of your heating requirements. By using the **Vent-Axia Online Sizing Guide**, you will be able to determine which product is suitable for you, helping you to achieve thermal comfort, all year round.

Each tool has been designed with you in mind, making it simple to use and effective to apply. Find them on our website at www.vent-axia.com/heating-guide or alternatively scan the QR barcode on the right.



> Heating: Tool 1

Products Applicable

- Opal Aluminium Radiators
- Storage Heaters
- Combination Storage Heaters
- Panel Heaters
- Downflow Heaters
- Plinth Heater

Online Sizing Tool

This tool will provide you with a suitable product selection from the listed Vent-Axia Heating range products above, as well as emailing you a pdf document containing a trade price quotation. All you need to do is define the following variables:

- Room dimensions (User Defined)
- About the room (Listed Options)
- Temperatures - Internal & External (Listed Options)
- Ventilation - Air Change rate (User Defined or Listed Option)
- U values - External Walls, Windows, Flooring and Ceilings (User Defined or Listed Option)

Please bear in mind the calculations returned should be taken as a guide only and not as a detailed heat loss calculation.

> Underfloor Heating: Tool 2

Products Applicable

- Electric Underfloor Heating

Online Sizing Tool

This tool will provide you with a product selection for our Electric Underfloor Heating Mats, Thermostatic Controllers and Insulation Boards. You will also receive a pdf document containing a trade price quotation.

Depending on the scale of the project the whole process should take no longer than a few of minutes.

There is some basic information you will need in order to complete the selection and quotation such as the room size, floor construction and planned floor covering.

Below you will find a comprehensive four step guide to give you more information on how to measure your room and select the appropriate product for your project.

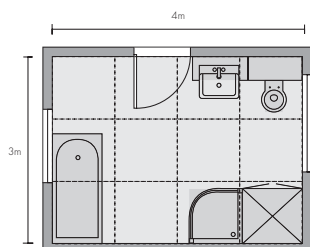
Measuring Up

Step 1. Calculating Total Area

Measure the total area of your room.

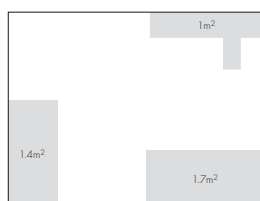
For example:

Width		3m
Length	x	4m
Total floor area	=	12m²



Step 2. Calculating Unheated Areas

When installing Underfloor Heating you have to ensure that the heat can escape into the room. When calculating the heated area you must deduct any fixed furniture e.g. kitchen cupboards. In this example the bath, basin, shower tray, toilet and cupboard areas are deducted.

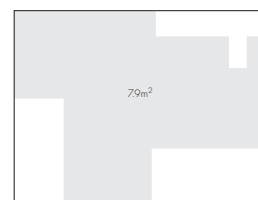


Bath		1.4m ²
Sink & Toilet		1m ²
Shower & cupboard	+	1.7m ²
Total unheated area	=	4.1m²

Step 3. Calculating Heated Area

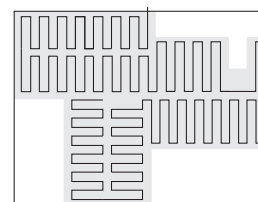
The heated area is calculated by taking the unheated areas away from the total area. In this case:

Total floor area		12m ²
Total unheated area	-	4.1m ²
Total heated area	=	7.9m²



Step 4. Product Selection & Sizing

Mat Size - 90% of the total heated area should be covered by a heat mat, leaving a 10% void on the perimeter of the room and fixed furniture. In this example the total heated area of 7.9m² is reduced by 10% to the nearest 0.5m² thus meaning a 7m² mat is required for installation.



Insulation Boards - 110% of the total heated area is required due to potential wastage when cutting each board.

Mat installation area	=	7m²
Board installation area	=	8.7m²

Please note, this tool is not designed to calculate product selection for Underfloor Heating Cables. Please contact 0844 856 0596 for cable sizing.



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Bluethermal® Underfloor Heating

Minimum floor thickness can be important in the renovation processes in order to avoid extra work on doors and thresholds. For these projects our Bluethermal® Mat range is the ideal product.



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Opal 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.



Page 12 - 13

Heated Towel Rails

Quickly warm and dry towels with our stylish range of heated towel rails. Their presence on the wall also adds to the overall style, temperature and comfort of the room.



Page 18

Optimax® Plus Panel Heater

Perfect for smaller rooms such as bedrooms, studies, conservatories and loft conversions.



Page 14 - 15

Radiant Heaters

Can be used in both large and small unheated spaces which would be uneconomical to heat using traditional space heating.



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Optimax® Plus Combination Storage Heaters

Combines 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.



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Optimax® Plus Storage Heaters

Simple to install, economical to run and virtually maintenance free. Ideal for use in living rooms, hallways and landings.



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Downflow Heater

Delivers a welcoming warmth when it's most needed in all room applications including bathrooms and living spaces.



Page 21

Plinth Heaters

Designed for use in kitchens and bedrooms they fit neatly into most types of fitted furniture, fascias, display units and false walls.



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Convactor Heater

Ideal for use in rooms where extra occasional heating is required.



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Warm Air Curtains

Provides a heated downflow of warm air in doorways of commercial premises such as shops, offices and schools.



Page 22

Portable Fan Heater

A discrete floor standing heater ideal for occasional heating and summer time cooling.

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.

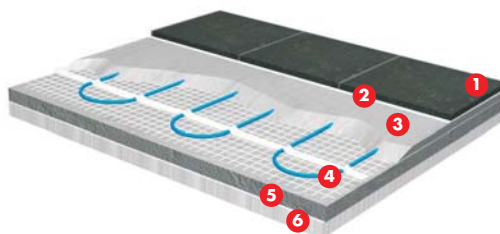
The 100W/m² mat can be installed on any type of levelled and stable sub floor, and can also be used under parquet or other wooden floor coverings. The 150W/m² must be installed on a non-combustible levelled and stable sub floor. With all our products we recommend the use of our Bluethermal® Thermostatic Controller thermostat with a temperature limiting function.

Vent-Axia offers a 2 year standard warranty on underfloor heating and their components from the date of purchase. A 10 year extended warranty is also available upon completing the 'Warranty Form' found in the Fitting and Wiring Instructions.

Construction:

- Solid resistance wires
- FEP insulation
- Solid copper earth wire
- Fibre-glass net
- PVC outer jacket
- Aluminium sheath
- Cable thickness is 4mm
- Mat width 0.5m (19.7")

Installation Detail



- 1 Floor covering
- 2 Tile adhesive
- 3 Recommended screed depth 10-30mm
- 4 Bluethermal® Mat 4mm
- 5 Insulation board
- 6 Stable and levelled sub-floor

Performance Guide

Stock Ref	Model	Mat Area m ²	Output W	Dimensions m W	L	Element Nom. Resistance Ω
446175	VAUFHM 100	1.0	100	0.5	2	529.0
446176	VAUFHM 100	1.5	150	0.5	3	352.7
446177	VAUFHM 100	2.0	200	0.5	4	264.5
446178	VAUFHM 100	2.5	250	0.5	5	211.6
446179	VAUFHM 100	3.0	300	0.5	6	176.3
446180	VAUFHM 100/HS	3.5	350	0.5	7	151.1
446181	VAUFHM 100/HS	4.0	400	0.5	8	132.3
446182	VAUFHM 100/HS	5.0	500	0.5	10	105.8
446183	VAUFHM 100/HS	6.0	600	0.5	12	88.2
446184	VAUFHM 100/HS	7.0	700	0.5	14	75.6
446185	VAUFHM 100/HS	8.0	800	0.5	16	66.1
446186	VAUFHM 100/HS	10.0	1000	0.5	20	52.9
446187	VAUFHM 100/HS	12.0	1200	0.5	24	44.1
446188	VAUFHM 150	1.0	150	0.5	2	352.7
446189	VAUFHM 150	1.5	225	0.5	3	235.1
446190	VAUFHM 150	2.0	300	0.5	4	176.3
446191	VAUFHM 150/HS	2.5	375	0.5	5	141.1
446192	VAUFHM 150/HS	3.0	450	0.5	6	117.6
446193	VAUFHM 150/HS	3.5	525	0.5	7	100.8
446194	VAUFHM 150/HS	4.0	600	0.5	8	88.2
446195	VAUFHM 150/HS	5.0	750	0.5	10	70.5
446196	VAUFHM 150/HS	6.0	900	0.5	12	58.8
446197	VAUFHM 150/HS	7.0	1050	0.5	14	50.4
446198	VAUFHM 150/HS	8.0	1200	0.5	16	44.1
446199	VAUFHM 150/HS	10.0	1500	0.5	20	35.3
446200	VAUFHM 150/HS	12.0	1800	0.5	24	29.4

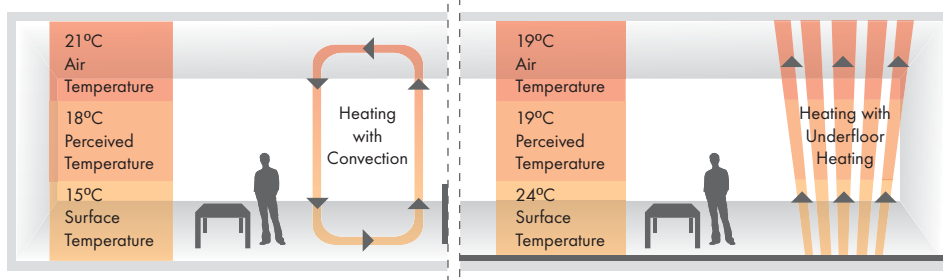
*HS = hidden splice

The mats are equipped with a 2.5m cold lead

Technical Data:

- Area load 100W or 150W/m² (9.3 or 14.0W/sq.ft.)
- Loads from 100W to 1800W
- Max. continuously operating temperature outer jacket: 65°C
- Tolerance on conductor resistance: -5 / + 10 %
- Rated voltage: 230V

Convection Heating and Underfloor Heating Comparison





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 'Installation Example' below detailing 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, a moisture barrier/membrane can be put on top of the screed/concrete before the floor covering is installed.

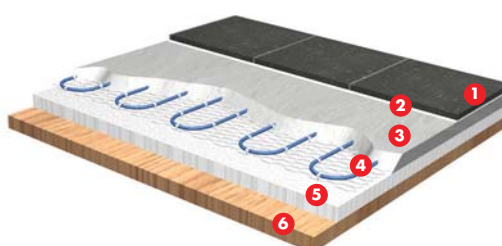
Construction:

- Solid resistance wire
- XLPE insulation
- Tinned copper drain wire
- Aluminium screen
- PVC outer jacket
- Cable thickness is 7mm

Technical data:

- Series resistance, element values from 300W 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



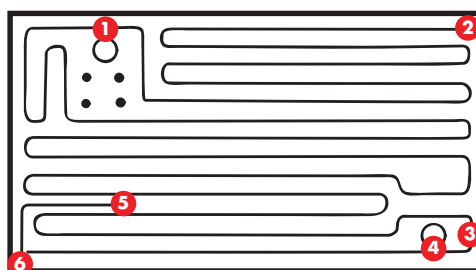
- 1 Floor covering
- 2 Tile adhesive
- 3 Recommended screed depth 40-60mm
- 4 Bluethermal® Cable 7mm
- 5 Insulation board
- 6 5-10mm stable and levelled subfloor

Performance Guide

Stock Ref	Model	Load @ 230V		Element length		Element Nom	Outer diameter
		W	m	ft	Resistance Ω	mm	
446201	VAUFHC	300	17.6	58	176.30	7	
446202	VAUFHC	400	23.5	77	132.30	7	
446203	VAUFHC	500	29.3	96	105.80	7	
446204	VAUFHC	600	35.2	115	88.20	7	
446205	VAUFHC	700	41.0	135	75.60	7	
446206	VAUFHC	840	49.7	162	63.00	7	
446207	VAUFHC	1000	58.3	191	52.90	7	
446208	VAUFHC	1250	72.4	237	42.30	7	
446209	VAUFHC	1370	80.8	265	38.60	7	
446210	VAUFHC	1700	100.0	328	31.10	7	
446211	VAUFHC	2100	123.7	405	25.20	7	
446212	VAUFHC	2600	154.5	507	20.30	7	
446213	VAUFHC	3300	194.0	615	16.00	7	

The cables are equipped with a 2.3m cold lead

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

Accessories

Bluethermal® Thermostatic Controller

Applications

Precise and accurate temperature control is important to fully achieve the advantages of underfloor heating, without using more electric energy than necessary.

The use of heating mats and 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)
- IP24 rated

Model **Stock Ref**
VAUFHTC **446174**

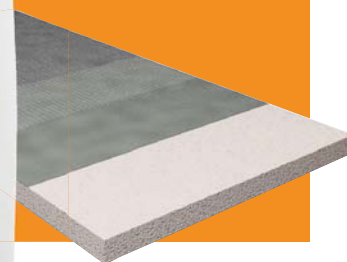
Splicing Kit

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		Model		
	Min W/m ²	Max W/m ²	VAUFHM 100	VAUFHM 150	VAUFHC
Entrance/Hall	80	150	X		X
Entrance/Porch	120	150		X	X
Hall/Corridor	80	100	X		X
Living Room	70	100	X		X
Kitchen	70	100	X		X
WC	120	150		X	X
Utility Room	120	150		X	X
Bedroom	70	100	X		X
Bathroom	120	150		X	X
Office	80	100	X		X
Storage Room	80	100	X		X
Shop	80	100	X		X
Workshop	80	100	X		X



Bluothermal® 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.



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 m ²	U-Value W/m ² /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

				Dimensions mm		Output	
Stock Ref	Model	Description	Finish	W	H	W	
Towel Rails							
447854	VATRS100C	'S' Shape	Chrome	600	500	100	
447855	VATRF150C		Chrome	400	700	150	
447856	VATRF250W		Flat	White	500	1100	250
447857	VATRF250C			Chrome	500	1100	250
447858	VATRF400C	Chrome		500	1500	400	
447859	VATRC250C	Curved		Chrome	500	1100	250
447860	VATRC400C		Chrome	500	1500	400	
447861	Atacama LS	Designer	Chrome	400	700	150	
447862	Atacama OS		Chrome	300	650	150	
447863	Atacama SS		Chrome	500	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



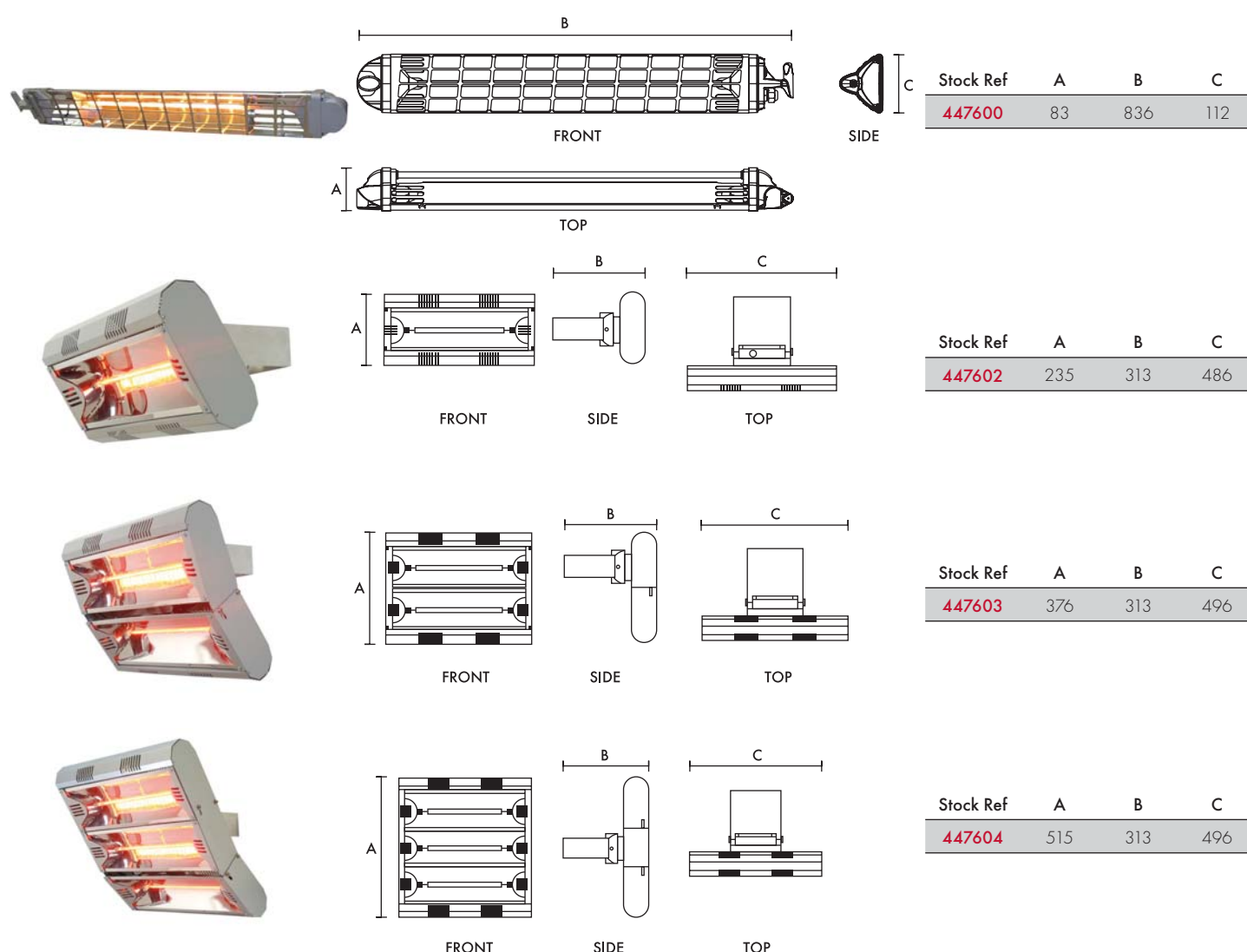
Flat designer towel rail
Atacama SS

Stock Ref
447863

T: 0844 856 0590



Dimensions (mm)



Technical Details

Stock Ref	Model	Weight kg	Voltage rating	Bulb	Luminous spectrum	Accessories	Output W	Amps	Heating range m ²	Replacement elements
447600	VARO 1800	1.0	230V ~ 50-60Hz	gold x1	IR-A	wall bracket	1800	8	8-10	VARO 447606
447602	VARI 2000	2.2	220-240V - 50-60Hz	gold x1	IR-A	wall bracket	2000	9	9-12	VARI 447605
447603	VARI 4000	3.0	220-240V - 50-60Hz	gold x1	IR-A	wall bracket	4000	18	12-16	VARI 447605
447604	VARI 6000	3.8	380-415V - 50-60Hz	gold x1	IR-A	wall bracket	6000	27	16-20	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 0.70m length power cable**
- **IP24 rated**

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.

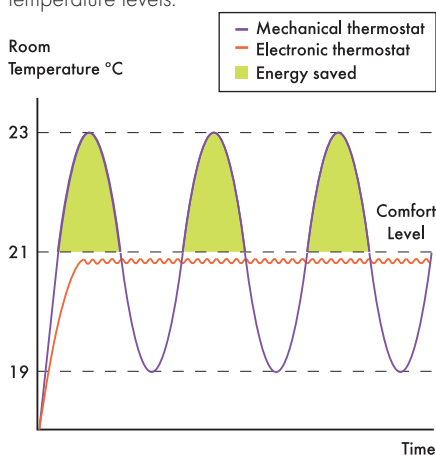
Available in five sizes, our range provides a solution for any size room with outputs from 500W - 1500W.

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 $\pm 0.5^{\circ}\text{C}$ and acts quickly to maintain consistent temperature levels.



Seven Pre-set Lifestyle Heat Schedules

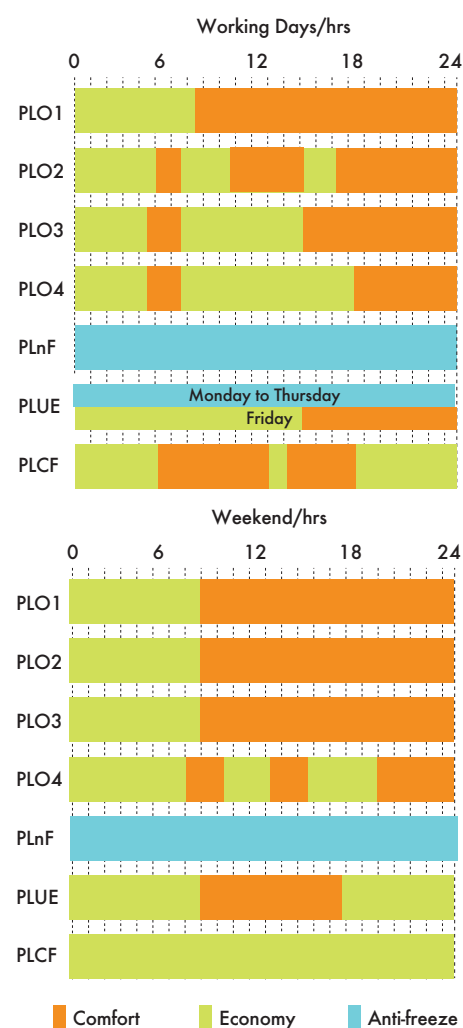


The heater is pre-programmed with seven plans during its manufacture, with two of them being configurable to meet your own needs. The five invariable programmes are adapted to most heating situations. The seven plans are described in the table on the right

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.

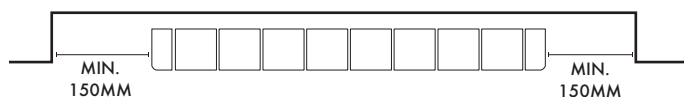
Heating schedule PLUE is designed for weekends. With this plan the heater is pre-programmed to work from Monday to Thursday in the antifreeze position. From Friday through to Sunday you can configure the programme according to your own needs.

Should the pre-set schedules not meet your heating requirements, the PLCF heating plan enables you to create your own heating schedule.

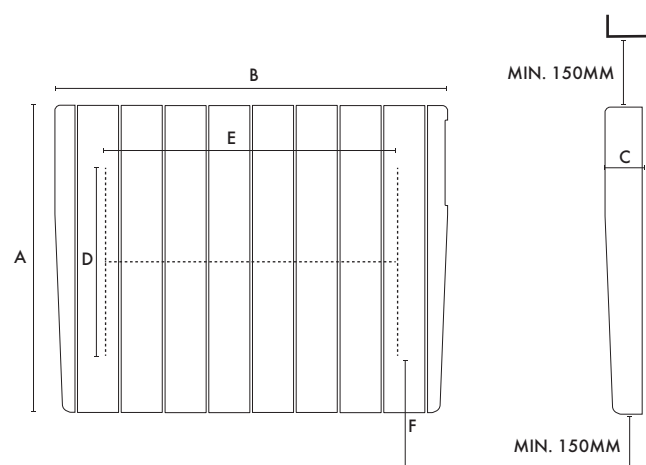




Specification and Fitting Requirements



It is necessary to keep a minimum distance of 150mm between the heater and any combustible materials



Stock Ref	Model	Weight	Dimensions (mm)			Fitting Bracket Dimensions (mm)			Output	
		kg	A	B	C	D	E	F	W	Amps
448469	VAAR500 500W	11	584	460	96	246	159	420	500	2.3
448470	VAAR750 750W	15	584	620	96	246	319	420	750	3.4
448471	VAAR1000 1000W	19	584	780	96	246	478	420	1000	4.5
448472	VAAR1250 1250W	23	584	940	96	246	638	420	1250	5.7
448473	VAAR1500 1500W	27	584	1100	96	246	638	420	1500	6.8

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 complement to storage heaters
- Brackets for panel included
- IP24 rated

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

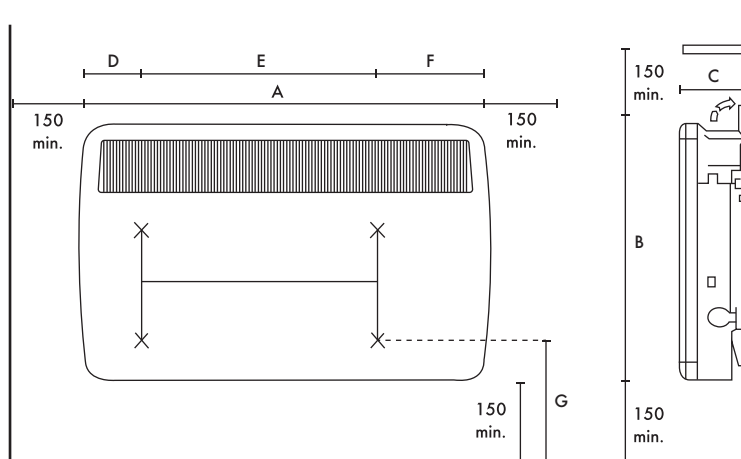
Comfort Heating

Our 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.

Dimensions (mm)



Specification

Stock Ref	Model	Output	Dimensions mm							Weight
		kW	A	B	C	D	E	F	G	kg
439034 / 439038	VAPH 075/T	0.75	620	430	108	118	288	214	255	6.2
439035 / 439039	VAPH 125/T	1.25	690	430	108	118	358	214	255	6.6
439036 / 439040	VAPH 150/T	1.5	690	430	108	118	358	214	255	6.6
439037 / 439041	VAPH 200/T	2	860	430	108	118	528	214	255	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.

All 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.

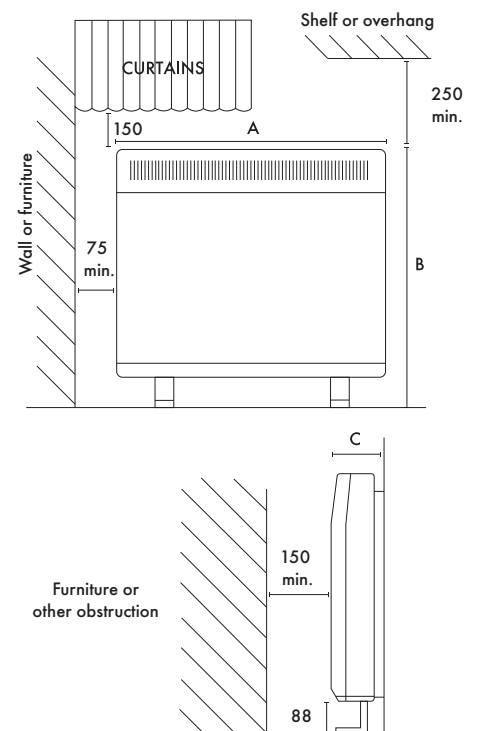
The controls are conveniently positioned on top of the heater for ease of use. Once the optimum settings are selected, no further adjustment is necessary. A separate convector heater On/Off switch is situated on the side of the casing together with a thermostat for temperature control.

Models

Combination Heaters

Model	Stock Ref
VACSH 12A	438919
VACSH 18A	438920
VACSH 24A	438921

Dimensions (mm)



Specification

Stock Ref	Model	Input kW	Convactor Heater		Dimensions mm			Weight kg	Number of bricks
			Output kW		A	B	C		
438919	VACSH 12A	1.70	1		540	730	185	79	8
438920	VACSH 18A	2.55	1.5		765	730	185	116	12
438921	VACSH 24A	3.40	2		990	730	185	152	16

220-240V-50Hz. BEAB Approved.

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.

The automatic Optimax Plus storage heaters 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.

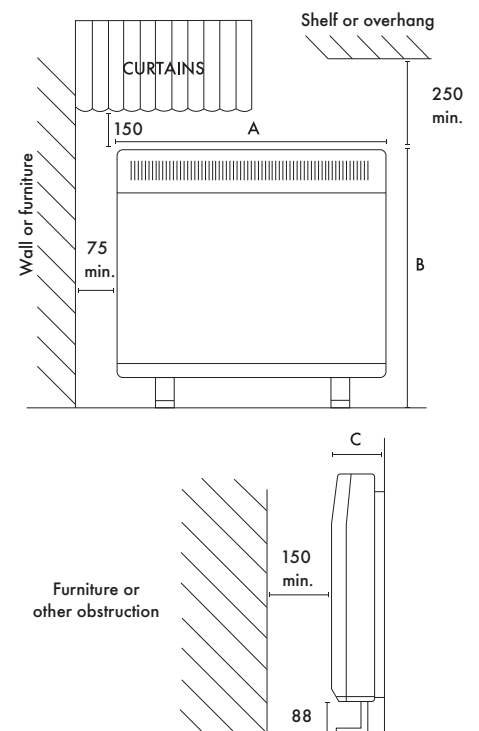
The controls are conveniently positioned on top of the storage heater for ease of use. Once the optimum settings are selected, no further adjustment is necessary.

Models

Storage Heaters

Model	Stock Ref
VASH 6A	438673
VASH 12A	439359
VASH 18A	439360
VASH 24A	439361

Dimensions (mm)



Specification

Stock Ref	Model	Input kW	Dimensions mm			Weight kg	Number of bricks
			A	B	C		
438673	VASH 6A	0.85	332	700	170	41	4
439359	VASH 12A	1.70	560	700	170	77	8
439360	VASH 18A	2.55	788	700	170	110	12
439361	VASH 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
- Finishes: Stainless steel, Brown or White
- Optional thermostatic control 5-30°C
- Can be used with remote switch VARSU 436494
- Two heat settings 1kW & 2kW
- Fan only mode

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.

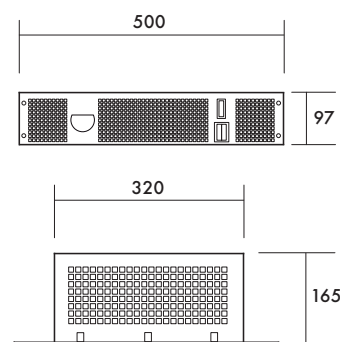
Vent-Axia Plinth Heaters are supplied with 1.5m of 1.5mm² 3 core cable, terminating on the right hand side of the unit.

Models

Thermostatic Models

Model	Stock Ref
VAPL2TC-S	459115
VAPL2TC-W	459116
VAPL2TC-B	459117

Dimensions (mm)



Cutout dimensions (mm) [W x H] 470 x 85
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 Warmair units. Switch allows for fan only & three heat settings.

Model	Stock Ref
VARSU	436494

Specification

	Rating	Dimensions mm			Weight
Model	kW	W	H	D	kg
Warmair 3	3.0	650	103	210	6.1
Warmair 4.5	4.5	650	103	210	6.5
Warmair 6	6.0	900	103	210	8.7

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 pullcord 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 + Heat Setting 1	1
Fan + Heat Setting 2	2

For maximum safety the heater includes a thermal cut-out feature to prevent overheating.

Models

Downflow Heater

Model	Stock Ref
VADH2	455834

Specification

	Rating	Dimensions mm			Weight
Model	kW	W	H	D	kg
VADH 2	2	240	255	135	2

220-240V-50Hz.



Convactor 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 Convactor 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 Convactor 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

Convactor Heater

Model	Stock Ref
VACH2-TC	426250

Specification

Model	Rating	Dimensions mm			Weight
	kW	W	H	D	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.

Model

Portable Fan Heater

Model	Stock Ref
VAFH2TC	426715

Specification

Model	Rating	Dimensions mm			Weight
	kW	W	H	D	kg
VAFH2TC	2	265	130	275	1.5





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

Sales Centre:

Domestic & Commercial

Sales Tel: 0844 856 0590
Sales Fax: 01293 565169
Tech Support Tel: 0844 856 0594
Tech Support Fax: 01293 532814

Heating Support

Sales Tel: 0844 856 0596

Industrial

Sales Tel: 0844 856 0591
Sales Fax: 01293 534898
Tech Support Tel: 0844 856 0595
Tech Support Fax: 01293 532814

Web: www.vent-axia.com

Email: heating@vent-axia.com

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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