



Vent-Axia Radiant Heating Solutions



# Radiant Heaters

## Features and Benefits

- Economical and easy to install
- Invisible, silent in operation
- No yearly maintenance cost
- Shortwave IR halogen lamp
- One second heat up time
- Precision heating directed where you need it
- Up to 5000 hours element life span
- IP65 (VARO model)

## Profile

Vent-Axia's heating portfolio continues to expand to meet our customer's demands. Portable products, electric underfloor and renewable heating technology such as our range of ground and air source heat pumps are some examples within our comprehensive range.

Our radiant heating product introduction gives the portfolio the flexibility to deal with large and small unheated spaces which would be uneconomical to heat using traditional space heating.

Area such as bars, restaurants, terraces, delivery areas, warehouses and Churches, are some examples where our new radiant heating products will provide an economical heating solution.

## Radiant heat and its advantages

The heat we feel from the sun is called Radiant heat and is part of the electromagnetic spectrum called infrared. Ultra violet and visible light also belong to the same family.

Visible light is the easiest part of this spectrum to understand, light travels in a straight line from the source is unaffected by air and is invisible until it hits a surface. Shadows are a good example of this and are the absence of light.

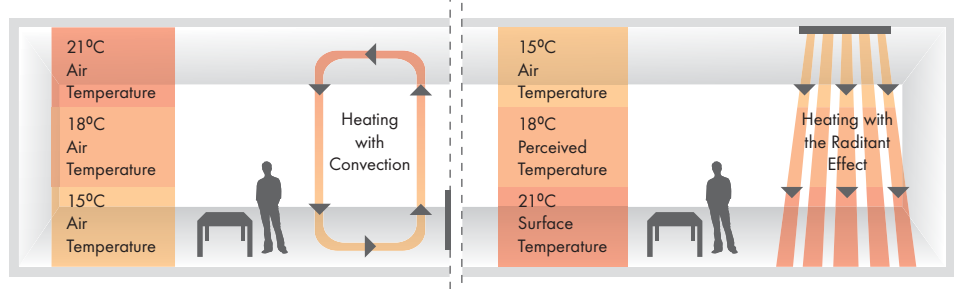
Infrared rays behave in the same way, we cannot see them but we can feel them as warmth. A good example of this is the effect created when you move from the shade into the sun, although the temperature is the same the perceived temperature when in

direct sunlight is much higher, This phenomenon makes sunbathing possible during winter holidays.

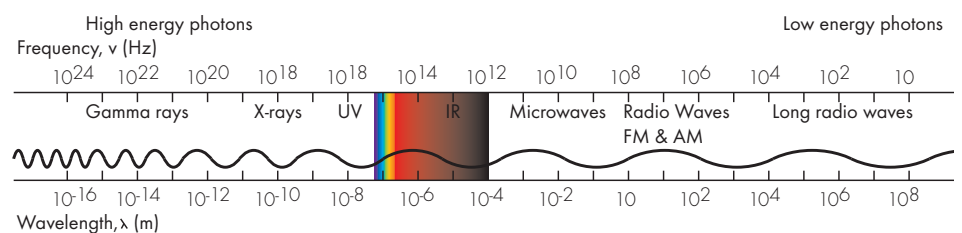
There are three categories of Infrared, short wave (IR A), medium wave (IR B) and long wave (IR C), the shorter the wave length the easier it travels through the air heaters.

The advantage when using short wave Infrared heating are that the rays cut through the air and are not effected by air movement and only transmits its energy when it collides with a solid object. The rays also travels in a straight line so can be directed where you need it, ideal in locations which feature high ceilings, have high air change rates or are out side.

## Convection Heating and Radiant Heating Comparison



## Wave spectrum



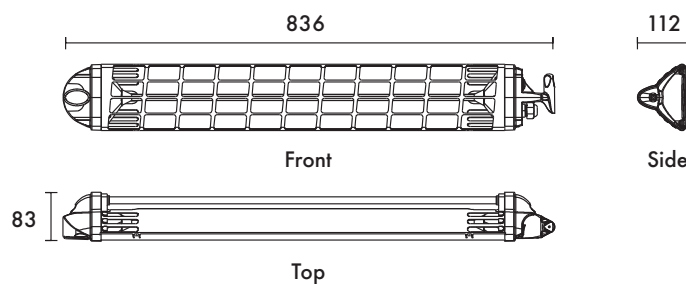
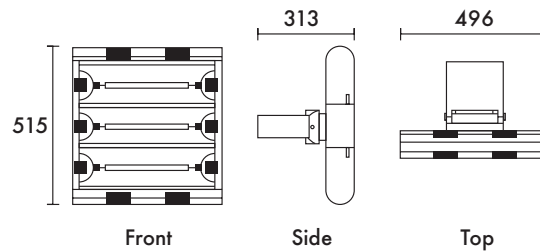
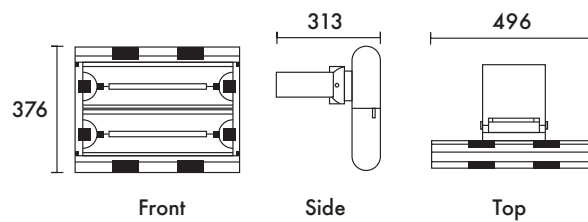
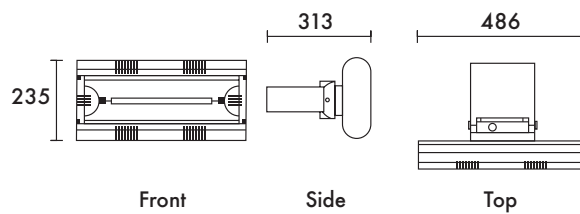
UV: Ultraviolet Radiation			VIS: Visible Radiation; Light					IR: Infrared Radiation					
UV-C 100-280nm	UVB 280-315nm	UV-A 315-400nm	Violet	Blue	Blue/Green	Green	Yellow/Green	Yellow	Orange	Red	UV-A 800-1400nm	UVB 1400nm - 3,0µm	UV-C 3,0µm - 1mm

## Wave infrared comparison

	Short Wave Infrared	Medium Wave Infrared	Long Wave Infrared
Typical Source	IR Halogen Lamp	Quartz Heat Source	Resistance
Materials	Tungsten Filament welded in a quartz tube	Filament in compound of Fe-Cr-Al in a quartz tube	Filament in compound of Fe-Cr-Al in a steel tube
Radiant efficiency	92%	60%	40%
Switch on/off times	1 second	30 second	5 minutes



### Dimensions (mm)



### Technical Details

Model Ref	Stock	£Trade	Weight	Voltage rating	Bulb	Luminous spectrum	Accessories	Power	Heating range	Replacement Elements
VARI 2000	447602	184.18	2.2kg	220-240V - 50-60Hz	gold	IR-A	wall bracket	2000W	9-12m <sup>2</sup>	VARI 447605
VARI 4000	447603	268.80	3.0kg	220-240V - 50-60Hz	gold	IR-A	wall bracket	4000W	12-16m <sup>2</sup>	VARI 447605
VARI 6000	447604	351.56	3.8 kg	380-415V - 50-60Hz	gold	IR-A	wall bracket	6000W	16-20m <sup>2</sup>	VARI 447605
VARO 1800	447600	114.95	1.0 kg	230V ~ 50-60Hz	gold	IR-A	wall bracket	1800W	8-10 m <sup>2</sup>	VARO 447606



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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## Supply & Service

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