

# Radiant Heaters

## Features & Benefits

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



### Profile

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

Areas such as bars, restaurants, terraces, delivery areas, warehouses and churches are some examples where our 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.

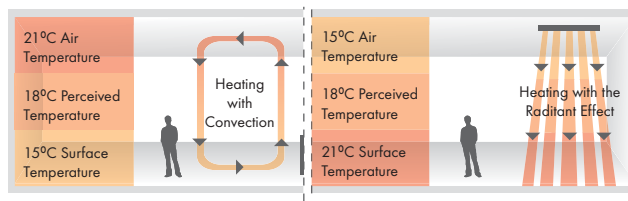
Visible light is the easiest part of this spectrum to understand, light travels in a straight line from the source, is unaffected by air and is invisible until it hits a surface. Shadows are a good example of this and are the absence of light.

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.

The advantage when using short wave infrared heating is that the rays cut through the air and are not affected by air movement and only transmits its energy when it collides with a solid object. The rays also travel 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 outside.

### Convection Heating and Radiant Heating Comparison



### 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

## Radiant Heater Range



Model  
VARO 1800

Stock Ref  
**447600**



Model  
VARI 2000

Stock Ref  
**447602**



Model  
VARI 4000

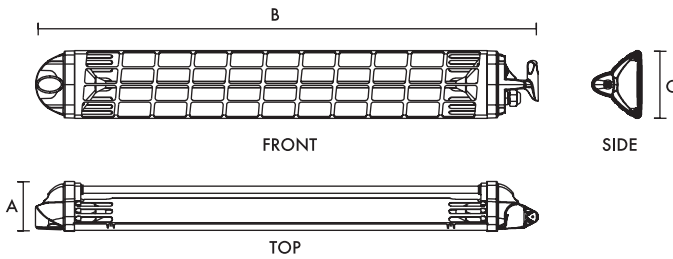
Stock Ref  
**447603**



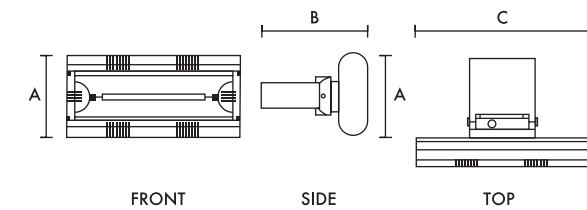
Model  
VARI 6000

Stock Ref  
**447604**

### Dimensions (mm)



Stock Ref	A	B	C
<b>447600</b>	83	836	112



Stock Ref	A	B	C
<b>447602</b>	235	313	486
<b>447603</b>	376	313	496
<b>447604</b>	515	313	496

### Technical Details

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