

HLC Ceramic Range

A range of models for general internal installation, providing ceramic medium wave high-energy Infrared heat. With standard models from 1Kw to 4.5Kw, in a range of formats, they offer the instant answer to many zone or localized heating problems. These units can be wall mounted or ceiling suspended and come in single and three phase versions. The case is manufactured from aluminium and is painted in ivory colour powder coat finish. Guards and wall brackets are supplied with all models.



Model No – HLC15 220-240v 1500W



Model No – HLC30 220-240v 3000W

The Ceramic elements emit a high proportion of medium wave Infrared heat, this output is far less intense than the short wave version, and it can therefore be used where low level or space restricted instant heat is required. Ceramic elements produce no visible light, so can also be installed in situations where the red glow from short wave system would make them unacceptable, such as photographic studios, or where colour comparisons are used. To help make the right choice, remember Short Wave produces high output instant infrared heat (burning at around 2000°C) making them ideal for general zone/space heating in commercial and industrial areas of all types and sizes. Medium wave (burning at around 700°C) takes a few minutes to reach peak heat and are more suited to smaller areas, for example, shops, veterinary surgeries, studios, security offices, sheds etc.

Typical applications for Ceramic heaters

- Portacabins
- Sheds
- Store rooms
- Animal husbandry
- Low ceiling rooms
- Photographic studios
- Frost protection
- Green Houses
- Drying rooms
- Changing rooms
- Garages
- Reptiles / Zoos



Model No – HLC45 220-240v 4500W
Or 380-415v 4500W

HLC Range

Benefits of Using Ceramic Heating Systems

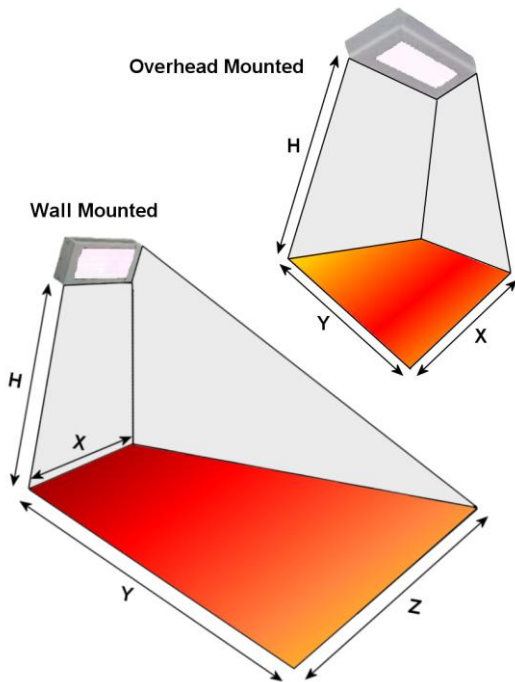
- The perfect solution for Infra red heating without any associated light.
- Ideal for small spaces or low level ceilings.
- Wattages as low as 150W available.
- Technical support.
- Design and planning advice.
- Full range of infra red heaters for both fixed and mobile systems.

Heat Requirements

A simple calculation can be made regarding the total amount of heat required in any given area, by using the guidelines in the watts/m² below

Choose the nearest figure to the application of work undertaken and premises type, then multiply this by the total area in m². This will give you an idea as to the total amount of wattage required for heating the area.

The size and type of heaters can then be compared with the *table below* to find the most suitable models. A 10 – 15% overlap is recommended to ensure even coverage of the area. Due consideration should be given to the power supply required, mounting locations and safety requirements.



w/m ² required			
	Heavy work	Light work	Spot Heating
Highly insulated	150	200	250
Insulated	175	225	250
Un-insulated	200	250	275
Light cladding	250	300	300
Badly insulated/damp	300	300	300

Spot Heating

As an additional guide to spot Heating, we would also recommend heating from two directions, to cover the area from opposite sides. This will ensure an overall feeling of comfort and warmth. A heat loading of 250 – 300w/m² can be considered as a guide for this type of area.

	Wall Mounted				Area Covered	Overhead Mounted			Area Covered
	H	X	Y	Z		H	X	Y	
HLC10 or HLC15	2.5m	3.0m	2.2m	5.0m	8.8m ²	3.0m	3.0m	3.5m	10.5m ²
	3.0m	3.2m	3.0m	5.8m	13.5m ²	3.5m	3.3m	4.0m	11.5m ²
HLC20 or HLC30	2.5m	3.2m	2.3m	5.3m	9.8m ²	3.5m	3.3m	4.0m	11.5m ²
	3.0m	3.4m	3.2m	6.0m	13.5m ²	4.0m	4.5m	4.2m	18.0m ²
HLC30L or HLC45	3.0m	3.5m	3.3m	6.2m	16.0m ²	3.5m	3.3m	4.0m	12.2m ²
	3.5m	3.6m	3.6m	7.0m	19.1m ²	4.2m	4.5m	4.2m	18.9m ²

Please Note:- Each Emitter can be either 220-240v 1000w, 1500w

Recommended mounting heights

1000w Ceramic emitters
 HLC10 - Min 2.2mtrs Max 3.0mtrs
 HLC20 - Min 2.2mtrs Max 3.5mtrs
 HLC30L - Min 3.0mtrs Max 4.5mtrs

1500w Ceramic emitters
 HLC15 - Min 2.2mtrs Max 3.2mtrs
 HLC30 - Min 2.2mtrs Max 4.0mtrs
 HLC45 - Min 3.0mtrs Max 5.0mtrs

	HLC15	HLC30	HLC45
Length	405mm	405mm	405mm
Height	190mm	345mm	495mm
Depth	72mm	72mm	72mm
Weight	1.75Kg	2.75Kg	3.5Kg



La Grand E.V.O

Opzoomerstraat 21 b
 3023 SE Rotterdam
 tel. 010-2449966
 lagrand-evo@planet.nl
 www.lagrand-evo.nl