



Thermon
South Africa (Pty) Ltd.



Infrared Zone heating (comfort heating):

Types:

Ceramic IR heaters offer exceptional durability. Emitting in the long-wave spectrum they hardly display any visible glow, which is advantageous when light sources are unwanted.

Infrared elements for comfort heating

Infrared zone heaters are ideally suited for fast and efficient comfort heating where heat is required in large, open spaces where convection heating (air heating) is uneconomical.

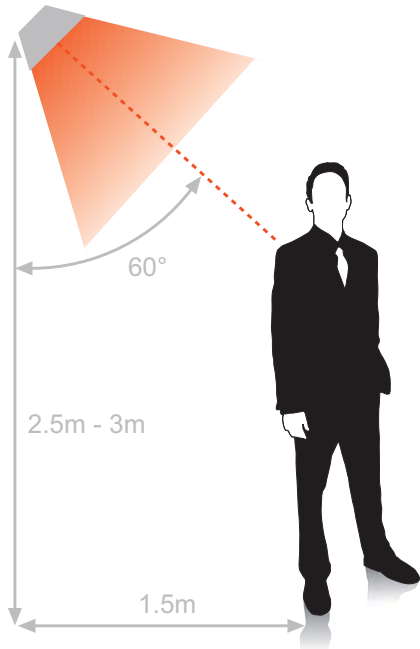
Typical Applications:

Entrance halls, reception desks, warehouses, factories, bathrooms, entertainment areas, open-air restaurants, dining rooms, studios, youth clubs, etc.

Benefits:

- **Instant warmth:** IR transfers 3-5 times quicker than hot air processes and requires only a very short warm up period
- **Efficiency:** The angle of the beam at 70° allows targeting of heating energy where it is required, yielding approximately 96% efficient energy conversion
- **No heat losses:** Because IR energy penetrates the air similar to visible light, it cannot be blown away by wind or rise to the roof through convection
- **Environment-friendly:** IR heaters emit no vapors thereby, alleviating an environment for germ growth. Unlike gas and oil heaters, IR heaters do not deprive the air of oxygen
- **Unobtrusive:** IR heaters are small and inconspicuous. When mounted high they do not pose an obstruction, nor do they make any noise.





Infrared installation guide

1. Determine the overall heating requirements

$$\frac{B \times D \times \text{Heating Index}}{1\,000} = \text{Total kW required}$$


B = length to be heated in metres, D = width to be heated in metres
Heat index = intensity in watts per m², determined from Heating Index table

Heating index table

130 – 170	Shops, meeting halls, recreation rooms, clubs, pubs
150 – 170	Offices, canteens, waiting rooms, entrance halls
150 – 200	workshops, factories, garages, public buildings, restaurants
180 – 220	Warehouse, loading bays, large workshops and factories
220 – 240	Churches

2. Determine the number of comfort heaters by dividing the kW rating of the units available into the total kW loading

3. A 10-15% overlap is recommended to give even coverage

	Stock code	Type	Power (Watt)	Volts (V)	Height: A (m)	Area coverage: B x C (m)
	UHI-LYIRW-E1000	Ceramic	1000	230	2.5	2.5 x 2.5
Replacement element:						
	UHI-LYFSR--1000	Ceramic	1000	230		

Thermon South Africa (Pty) Ltd

Tel: +27 21 762 8995 | +27 11 966 9800

Email: sales@thermon.co.za

Web: www.thermon.co.za

Warning:

Do not hang clothes directly over the heater. Synthetic material will soften/melt if positioned too close to the heater. Maintain a safe distance of 1 metre. Do not replace the cable with conventional PVC cable.

