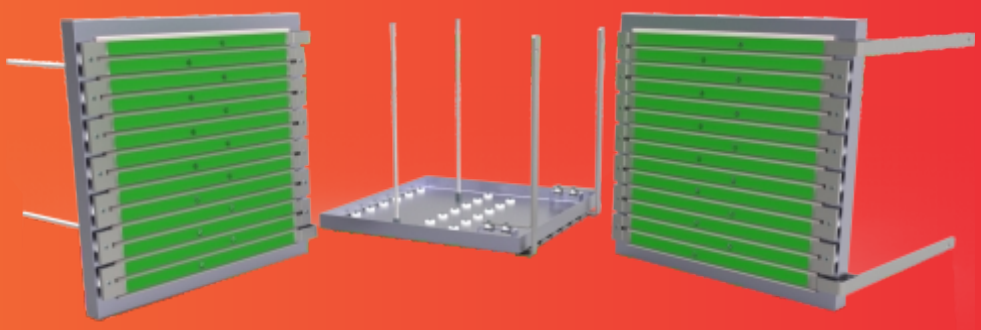
Marathon Tempwatt

Engineered Solution for Heating

INDUSTRIAL INFRARED HEATERS



Infrared heaters are electric heaters specifically designed to emit infrared heat, where heating by other means is not ideal. As they rely on infrared energy, they are able to transmit heat without losing it to the outside. Infrared heaters use either quartz element or tubular element that radiate ample heat because it attains high temperatures. Terminals are protected by waterproof housing and are used in conjunction with control panels. If the tubular elements need to be replaced, they are available at an economic cost. Different lengths and sizes are available to meet specifications. Industrial infrared heaters are high intensity heaters and used where high temperatures are necessary. These heaters are simple, economic, easy to clean, cost effective and efficient.

Categorized as the most useful heaters, they are designed to work in large and exposed areas (indoor and outdoor) and heavy duty projects. Some areas include arenas, ice rinks, gymnasium, aircraft hangars etc. Some industries that have realized the effectiveness of infrared heating and incorporated their benefits to provide quality services include:

- Medical
- Mining/Oil/Gas
- Construction/Manufacturing
- Thermoforming

Medical: Hospitals, clinics and medical institutions implement infrared radiant heating in separating platelets from the blood, neutralizing viruses and bugs and cleaning incubators hygienically.

Mining/Oil/Gas: The mining, oil and gas industries combine infrared and microwave heat to clean the oil laced sand from the crude oil tanks, hence enhancing their productivity and quality.

Construction/Manufacturing: Infrared radiant heaters are helpful in binding different materials together in extreme temperatures, which can satisfy both domestic and industrial needs.

Thermoforming: The plastic thermoforming industry has gained wide profit margins, by reducing average expenses on thermoforming, through the use of infrared heating.

TEMPSENS INSTRUMETS (I) PVT. LTD.
B-188A, Road No.-5, M.I.A., Madri, Udaipur - 313 003 (Rajasthan) INDIA
Ph.: +91 294 3057700 Fax: +91 294 3057750
E-mail: info@tempsens.com
www.tempsens.com

Application	Construction Type	Features
Conveyorised or batch type Ovens Drying Curing	Single tubular element (Type 1)	The mineral insulated alloy sheath heating element prevents splashing and vibration and provides a longer service life than other source types.
De-greasing, Weld preheating, Roll heating, Drying, Sterilization	Double tubular element (Type 2)	Two series wired heating elements in Reflectors
Outdoor installations Wash-down exposed areas	Hairpin tubular element with moisture resistant terminal housing (Type 3)	N/A
Industrial applications with medium intensity infrared heat: Paint spray, Booths, Curing, Drying Softening resins, Vinyl and Plastics	Quartz tube (Type 4)	Horizontal mounting for tube fixtures
High intensity heat applications	Double quartz tube elements (Type 5)	Horizontal mounting for tube fixtures
High intensity radiation, on/off heating: Baking, Drying, Curing (paint, varnishes, lacquers, adhesives, softening plastics, food processing)on/off heating: Baking, Drying, Curing (paint, varnishes, lacquers, adhesives, softening plastics, food processing)	Quartz lamp element (Type 6)	Horizontal mounting for tube fixtures

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