



KERONE

(An Iso 9001-2008 Company)



Automobile Industry



Pharmaceutical Industry



Rubber & Plastic Industry



Chemical Industry



Food Industry



Oil & Gas Industry

• **Aerospace Industry**

• **Steel Industry**

• **Paper Industries**

Infrared Heaters

About KERONE



KERONE is possessing experience of 40 years in engineering excellence.

KERONE is one of the most admired and valuable company for customer satisfaction.

KERONE is pioneer in application and implementation engineering.

KERONE is having immense expertise in manufacturing and implementing various types of heaters and dryers.

KERONE is possessing employee strength of more than 140 experts continuously putting efforts for happy industrial heating solutions.

KERONE has reported annual revenue of \$8 to \$10 Million , increasing year-on-year.

40
YEARS
OF
MANUFACTURING EXCELLENCE



ENGINEERING



EXCELLENCE



Vision

- Turn into world leader in providing specialized, top-notch quality and ecological industrial heating, cooling and drying solution across the globe.
- To attain global recognition as best of quality and environment friendly engineering solution company.

Mission

- To enhance the value of customer operation through our customer need centric engineering solution.
- We are committed to provide our customers, unique and best in class products in Industrial heating, drying and cooling segment, with strategic tie-up for the technical know-how with renowned leader in the industry specific segment.
- We are company that believes in strong ethics and timely commitment helps to build long term relationship.



Value Propositions



40 years of rich experience

Sound infrastructure

Adherence to standards

Timely delivery

Highly customized product

Cost effective solutions

Team of experts delivering quality

Great after sale support



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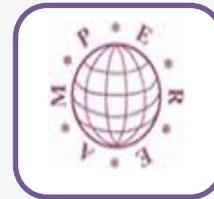
A CRISIL-NSIC RATED COMPANY
ISO-9001-2008 COMPANY
AFFILIATED TO THE UNIVERSITY OF NOTTINGHAM
MEMBER OF A.M.P.E.R.E.(EUROPE)



ASCB(E) Certification for
Best practice



IRQAO Certified for
quality



Member of A.M.P.E.R.E.
(Europe).



ISO 9001-2008
Certified company



Recognized and Rated by
CRISIL



CRISIL Verified

In Association with SVCH-Technologii,
Moscow (Russia)

Introduction of Infrared



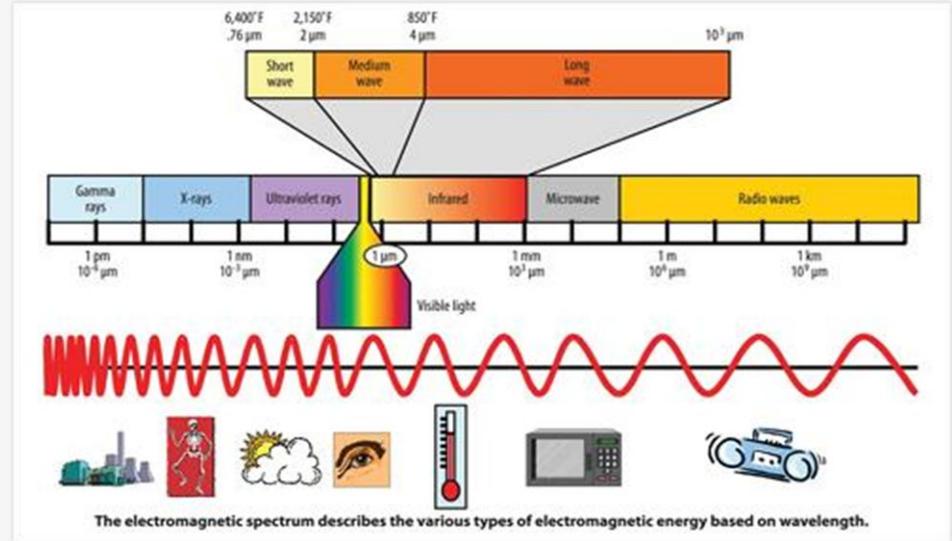
Infrared Heaters are part of Electromagnetic heating family.

Infrared heaters uses IR radiating waves falls just below visible light spectrum.

Infrared radiators heats produces heat on the surface of material.

Heat is transferred from outer surface to inner body.

Infrared heating system produces heat same as 'SUN' from hot surface to cold surface.



Infrared Heater Classification

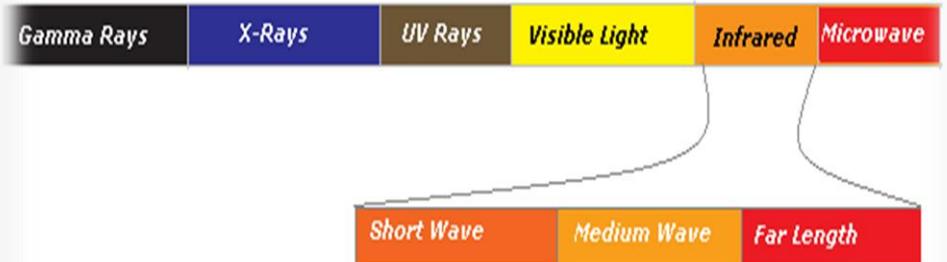


Infrared Heaters are basically classified based on its emitting wave length :

Short Wave
(780 nm to 1400 nm)

Far Infrared
(3000 nm
0 and Above)

Medium
Wave
(1400 nm and
3000 nm)



Infrared Heaters Vs Conventional Heaters



Infrared Heaters

IR heating systems are fast heating system, results in saving of time.

Instant heating of the material, hence no warm up time.

Environmental friendly and green heating solution, no carbon emission.

100% energy utilization, Heats only desired spot of material.

Better floor utilization index.

No Temperature loss in surrounding, ambient workplace.

Conventional Heaters

Conventional heaters have slow heating rate, heat is transferred via means of air.

Instant heating does not takes place, it requires warm-up of surrounding.

Produces carbon or toxic gases hence not much environmental friendly heating solutions.

100% energy utilization is not possible, as material is heated by surrounding hot air.

Poor floor utilization index.

Surrounding air temperature rises with rise in heater temperature.

Infrared Heaters Vs Microwave Heaters



Infrared Heaters

IR heating systems utilizes electromagnetic system uses wavelength of about 0.01 centimeters.

Heats the object from surface of object.

Compact system providing better floor utilization index.

Infrared heaters are better substitution of traditional convention heaters.

Depth of heat penetration is lower in infrared heaters as it heats from surface.

Rate of heating depends on the surface characteristics of material.

Microwave/RF Heaters

IR heating systems utilizes electromagnetic system uses wavelength of about 1 centimeters.

Heats the objects from within the object.

Microwave heaters also does not require larges space hence offers better floor utilization index.

Microwave heaters cant not substitute the conventional heaters.

Depth of heat penetration is higher in Microwave heaters.

Rate of heating depends on the moisture content within the material.

IR heater in Pharmaceutical Industries



Pharmaceutical industries has various application require efficient heating/drying for quality and hygienic output.



Drying of Tablets



Aqueous film coating



Chemical Processing



Powder Making

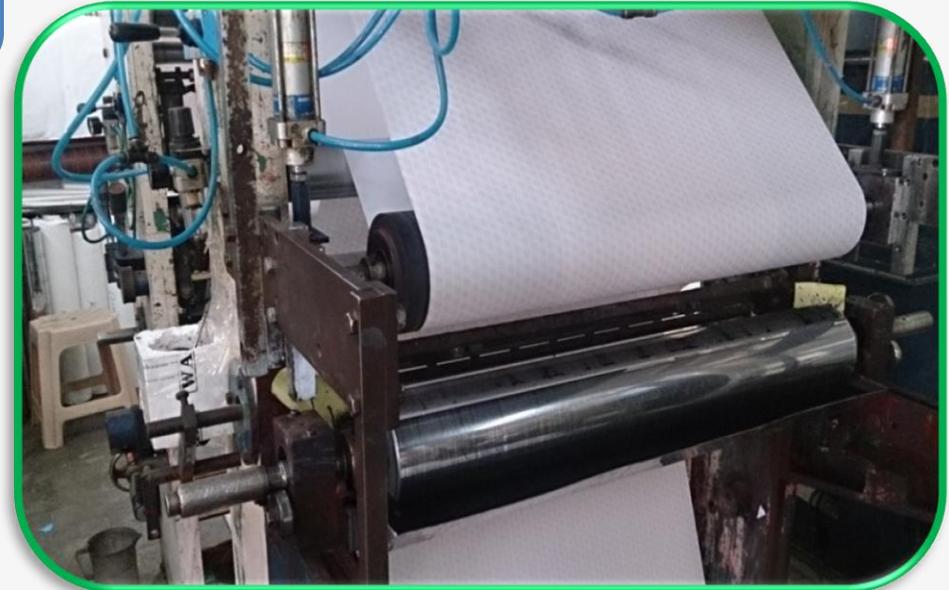


Herbs Drying



Bottle Sterilization

Infrared Dyer for Bandage manufacturing





Infrared Dyer for Pharma



Infrared Dyer for Herbs dryer





Infrared based Umbrella dryer



Infrared Dyer for Bottle Sterilization





Infrared for Powder making



Infrared oven for chemical Processing



IR heater in Plastic and Rubber Industries



Plastic and Rubber has increased its application in various application, so the demand. Below and few important applications those require heating:



Plastic Thermoforming



Rubber extrusions



Curing thermoset plastics



Drying for injection molding



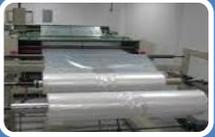
IR heater in Plastic and Rubber Industries



Rubber Curing



Plastic Annealing



Heat thermoset composites



Plastic Welding



Re-glossing



IR heater in Packaging



The packing industry is evolving with large amount of packed goods required to be transported with care. Following are the areas require IR heating:



Activate adhesives



Seal plastic foil packages



Safety seal bottles



Shrink film



IR heater in Paper Production and Printing



Paper is one of the oldest industrial production process that require heating at very large scale from manufacturing to Printing. Below are some application in which IR fits in:



Corrugated cardboard adhesive curing



Dry paper sheet



Drying of Printing Ink



Coating of Paper



IR heater in Glass and Ceramics



Infrared Heaters find multiple application in Glass and Ceramics:



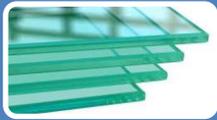
Bend glass



Bond double-pane and laminated safety glass



Dry extruded ceramic



Temper glass



Fire glazes





Infrared heaters and dryers find following applications in metal industries:



Foundries



Annealing



Brazing and soldering



Stress relief of springs



IR heater in Automobile Industries



Infrared heaters and dryers find following applications in Automobiles:



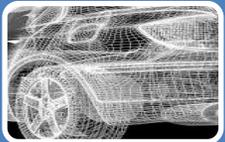
Drying Paints



Super plastic forming



Rapid heat treating



Weld stress relief



Trusted Partner of following consultants



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