ACE HEAT TECH

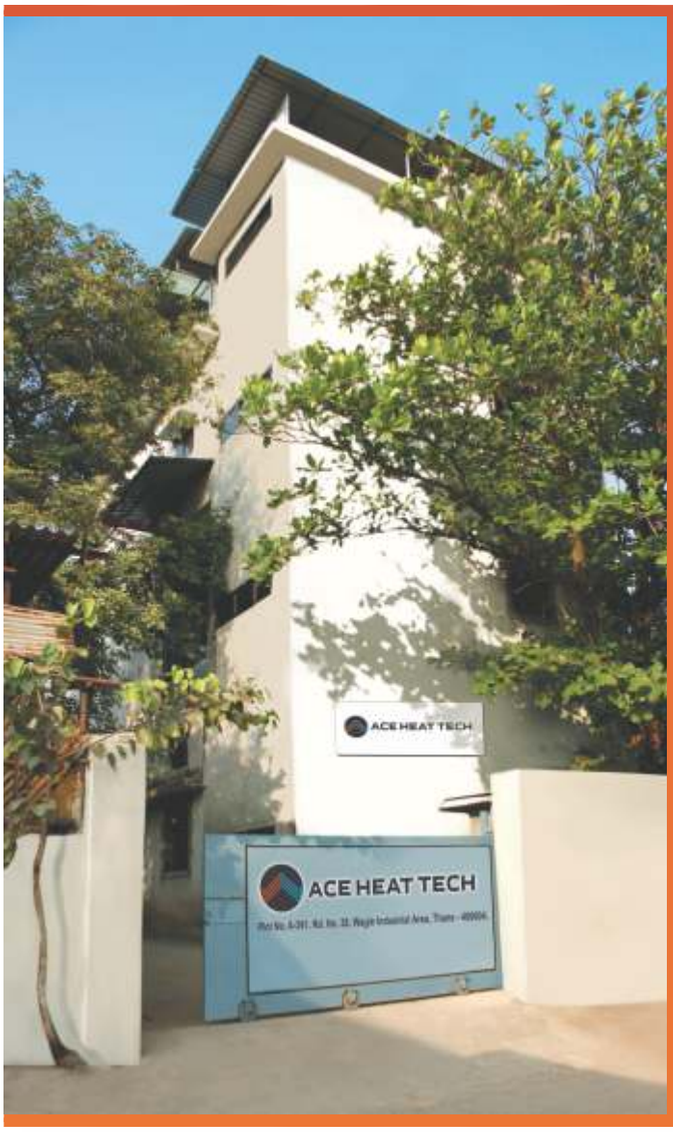
The World Standard in
Quality IR Heating

Short Wave Infrared Heaters

Ceramic Infrared Heaters

Medium Wave Infrared Heaters

ACE HEAT TECH
INFRARED HEATING SYSTEMS



As the world turned in time over the new millennium, India saw a new chapter being written in Quality Heating with Ace Heat Tech being formed. In the year 2000, we started redefining quality in electric infrared heaters, custom built infrared heaters and industrial temperature controllers.

In addition to undertaking diverse projects, Ace Heat Tech invests huge effort in research and development. We use a multi-faceted approach focused on:

- **Innovation**
- **Reliability**
- **Affordability**
- **Customer support**

Easy availability and strong technical support makes us the #1 choice. Our applications range from:

Ceramic IR heaters - in Thermoforming, Vacuum-forming, Hot Stamping Machines and baby Warmers(Incubators), PVC Pipe Socket Belling Machines, Drying of Food Industry Products, Printing and Textile Industry, Stretch Blow Moulding Machines, Paint Shops, Powder Coating Ovens, Screen Printing, Curing, Printing Ink Drying in Offset Machines, Stentors.

Short wave IR heaters – in Stretch Blow Moulding Machines, Paint Shops, Powder Coating Ovens, Screen Printing, Curing, Printing Ink Drying in Offset Machines.

Medium wave IR heaters - in Textile Industry, Printing Ink Curing Modules, Heating Tunnel IR Systems, Drying of IR Conveyorised Food Industry Products, WAP Dryer Modules, Automobile Industry, Paint Shops, Curing, Heater Dryer Systems and many more.

Our passion to deliver is supported by a highly motivated and skilled team that helps us develop international standard products that not only meet but often exceed the demands of quality-conscious

Figure 1 : The Company Ace Heat Tech in Mumbai, India

VISION

- To be the first choice in cost-effective, ecological and healthy energy-efficient IR heating solutions.
- To provide global quality options in planning, designing, production, implementation and execution.
- To continue pioneering work and develop products that help create better industries and a healthier

MISSION

We consistently produce high-standard designed infrared heaters that are the industry benchmark in quality and performance. In any and every kind of heating and drying task, we endeavour to offer the widest range of installations, modifications or for extending machines and plants.

CERAMIC INFRARED HEATERS

FSR series — Proved Quality

a) 245mm x 60mm - 250 W to 1000 W
b) 122mm x 60mm - 125 W to 500 W
c) 60mm x 60mm - 60 W to 250 W

typ. up to 720 °C
max. 64.0 kW/m²
2-10 µm

Figure 2 : Elstein FSR Series

HTS series — Energy Saving

a) 122mm x 122 mm - 250 W to 1000 W
b) 245mm x 60 mm - 250 W to 1000 W
c) 122mm x 60 mm - 125 W to 500 W
d) 60mm x 60 mm - 60 W to 250 W

typ. up to 860°C
max. 64.0 kW/m²
2-10 µm

ENERGY SAVING SERIES

Figure 3 : Elstein HTS Series

FSF series

a) 122mm x 122 mm - 250 W to 1000 W
b) 245mm x 60 mm - 250 W to 1000 W
c) 122mm x 60 mm - 125 W to 500 W
d) 60mm x 60 mm - 60 W to 250 W

max. 64,0 kW/m²
typ. up to 720°C

Figure 4 : Elstein FSF Series

EBF series — Energy Saving

a) 100mm x 250 to
b) 100mm x 1250 mm
c) Other lengths on request

typ. up to 860 °C
max. 48.0 kW/m²
2-10 µm

Figure 5 : Elstein EBF equipped with heaters on the HTS Series

BSI series — IR system, even geometry

125mm x 250mm to
1000mm x 1500 mm
Other sizes on request

typ. up to 860 °C
max. 64.0 kW/m²
2-10 µm

Figure 6 : Elstein BSI Construction Panel 1250*1875 mm Equipped with HTS

Ace Heat Tech backed by Elstein, is developer, patent holder and manufacturer of ceramic infrared heaters.

THERMO FORMING MACHINE

Figure 7 : Thermo forming Machine

VACUUM FORMING MACHINES

Figure 8 : Vacuum forming Machine

HOT STAMPING MACHINE

Figure 10 : Hot Stamping Machine

PIPE SOCKETING BELLING WITH MACHINES

Figure 9 : Pipe Socketing Belling with Machines

SHORT WAVE INFRARED HEATERS

Short wave infrared generates heat by heating the object it meets with, without heating the air around it, Even effective and instant heat without pre, it more easily travel through the

Figure 11 : Short Wave Infrared Heaters Without Coating

Figure 12 : Short Wave Infraed Heaters with Coating (Reflectors)

Reflector : The Reflector are used to better efficiency and target on material through all transmission rays energy emitted by Infrared Lamp.

The High Efficient Reflector are as following:

1. **Gold Reflector :** It is a Layer of Gold which is deposited on the layer of Infrared Glass Tube able to reflect more than 90% of IR radiation to achieve the maximum working temperature of about 600°C.

2. **White Reflector :** It is a Ceramic layer fixed on the infrared Glass tube to reflect, emits reflects about 70% of radiation as compared to gold it is less effective to the material. It can withstand up to 900°C.

3. **Ruby Reflector :** it is use mitigate the Infrared Radiation intensity of the filament. It is fixed all over the SW IR lamp in combination with another reflector.

Advantages:

1. Improved energy transmission on material

SHORT WAVE IR HEATER APPLICATIONS

Figure 13 : Pet Bottles Machine

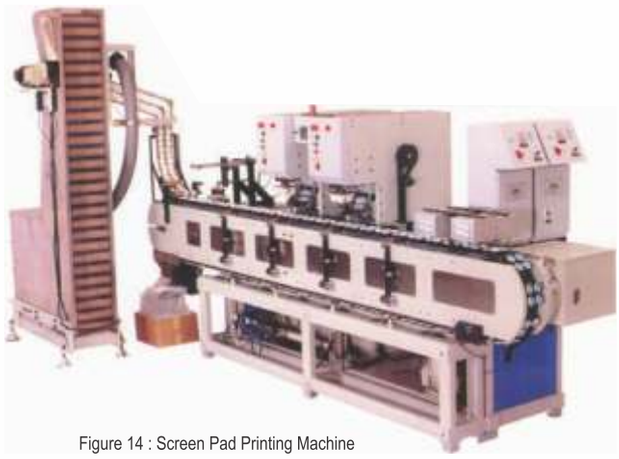


Figure 14 : Screen Pad Printing Machine

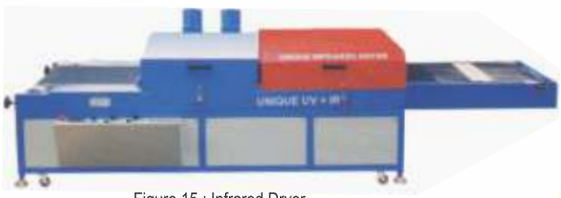


Figure 15 : Infrared Dryer

Figure 16 : Hand Held Short Wave IR Module

Figure 17 : Trolly Type Short Wave IR Heating Module

SHORT WAVE INFRARED HEATING MODULES

Figure 18 : Type-IRN (Narrow)

Figure 19 : Type-IRW (Wider)

Infrared modules are the ideal solution in the application of infrared heat technology. They save the user design costs and time, but are substantially less expensive than complete infrared systems.

Wider modules IRW type is available in above specification with same lengths of 145 mm (width) X 80 mm (depth).

MEDIUM WAVE INFRARED HEATERS

MEDIUM WAVE QUARTZ INFRARED HEATER

Figure 20 : MWIR Quartz Heater

FEATURES

- Quartz Infrared Heater is available in diameters of 8, 10, 12, 15 and 19mm
- Available in lengths from 300mm to 1500mm
- Can be used only in horizontal position
- Fitted with specially designed heating coil to ensure longer life
- Least maintenance required

TWIN TUBE MEDIUM WAVE INFRARED HEATER

Figure 21 : Twin Tube Medium Wave Infrared Heaters

FEATURES

- Operating temperature 900° C
- Using Ni-Cr or Fe-Cr-A1 resistance wire as filaments
- Response time around 1 minute
- IR wavelength between 2-4 M
- Average working life up to 10000 hours
- Gold or ceramic coating at rear side as a reflectors
- Dimensions 11mm x 23mm and 15mm x 33mm Max. overall length up to 3mm

MEDIUM WAVE INFRARED HEATING MODULES

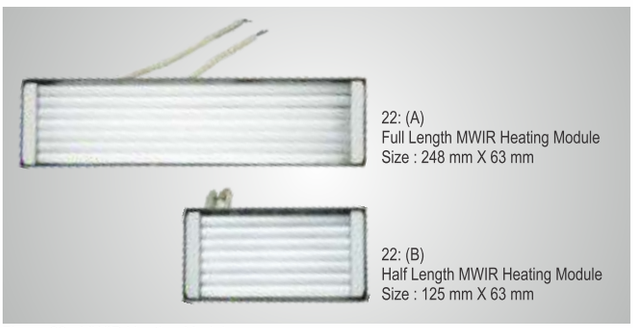


Figure 22 : MWIR Heating Modules

FEATURES

- Good radiant efficiency up to 80%
- Very rapid Heat-up, Cool-down time 30 to 60 seconds
- Watt density up to 40 watts / sq. inch
- Infrared wavelength Range from 2.5m to 3.0m
- Lower power consumption

MEDIUM WAVE INFRARED HEATERS APPLICATIONS

PAINT SHOP

Figure 23 : Automobile industry Paint Shop

HEATING TUNNEL

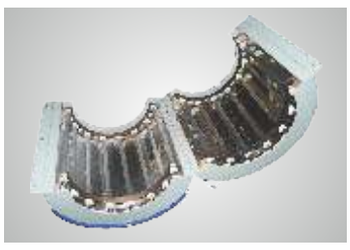


Figure 24: Heating Tunnel

TEXTILE PRINTING INK CURING MODULE

Figure 25 : Textile Printing Ink Curing Module

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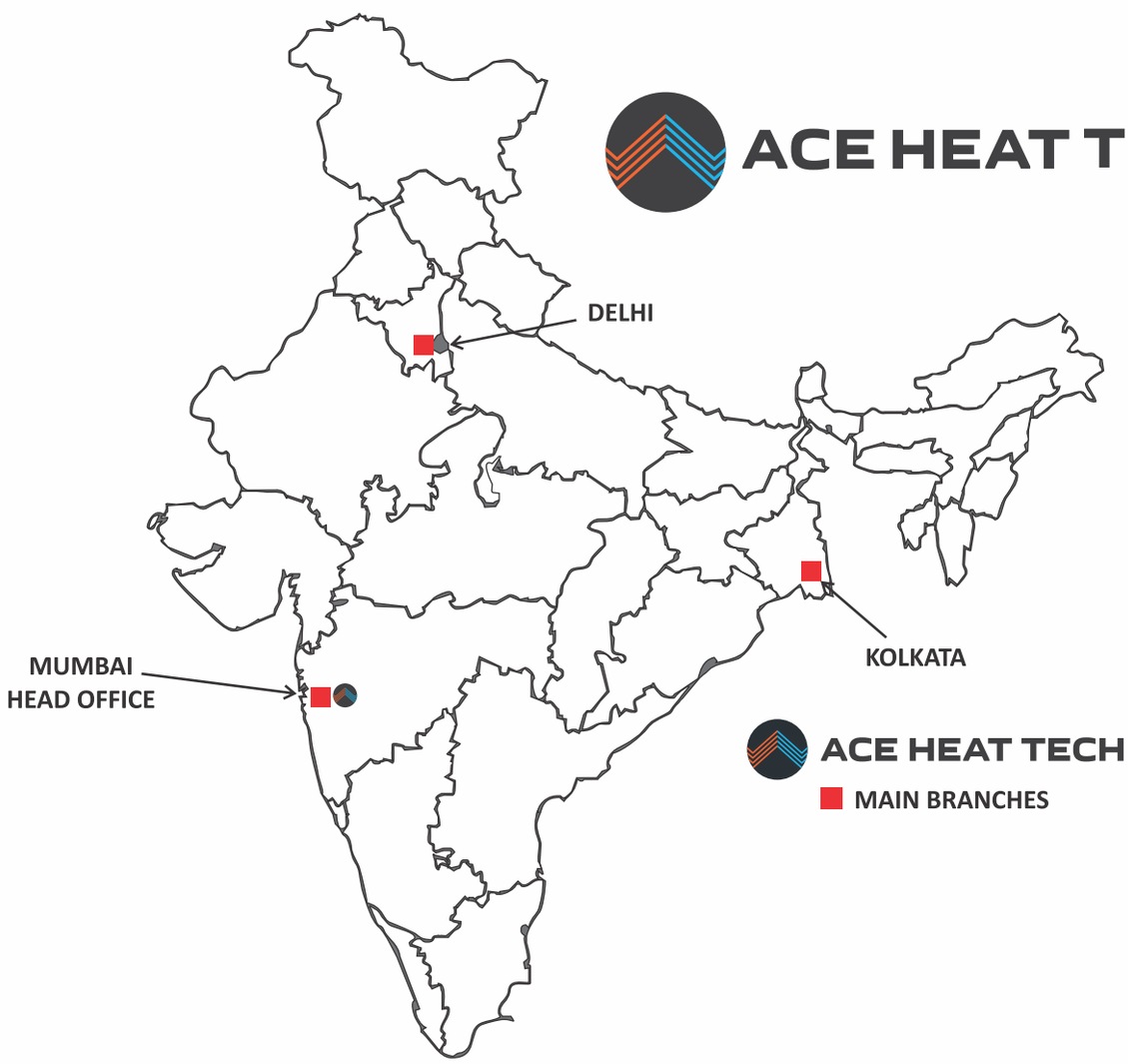

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