ACE HEAT TECH

Medium Wave Infrared Heaters

CONTENTS

Medium Wave Quartz Infrared Heaters

Twin Tube Medium Wave Infrared Heaters

Twin Tube Fast Medium Wave Infrared Heaters

Medium Wave Infrared Heating Modules

Clamp for Twin Tube 11x23mm

T - Type Connector (Top View)

Clamp for Twin Tube 15x33mm

T - Type Connector (Side View)

End Stop for Twin Tube Emitters

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

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 quality in electric infrared heaters, custom built heaters & infrared heating systems with advance features.

Ace Heat Tech regularly undertakes assessment of process heating and control requirements of infrared heating solution with wide variety of clients spanning diverse sectors. Besides, it also conducts studies to keep abreast of the demands of various sectors. This has helped the company gain in-depth experience and proficiency in developing practical solutions for clients. Besides offering high-quality infrared heaters in various configurations and voltage ranges, Ace Heat Tech also offers its clients service and support related to its product offerings.

In addition to undertaking diverse projects, Ace heaters also invests paramount efforts in research and developments. Ace Uses a multi-faced approach focused on:

- Innovation
- Reliability
- Affordability
- Customer support

Our easy availability and strong technical support makes us the #1 choice in applications in Textile Industries Printing Ink curing module, Heating Tunnel IR System, Drying system of IR Conveyorised for Food Industry Products, WAP Dryer Modules, Automobile Industry Paint shop, Curing, Heater Dryer Systems and many more.

Needless to say, their passion to deliver is supported by a highly motivated and skilled team that helps them scale new heights with each passing day in terms of developing products as well as serving the customers.

ACE HEAT TECH

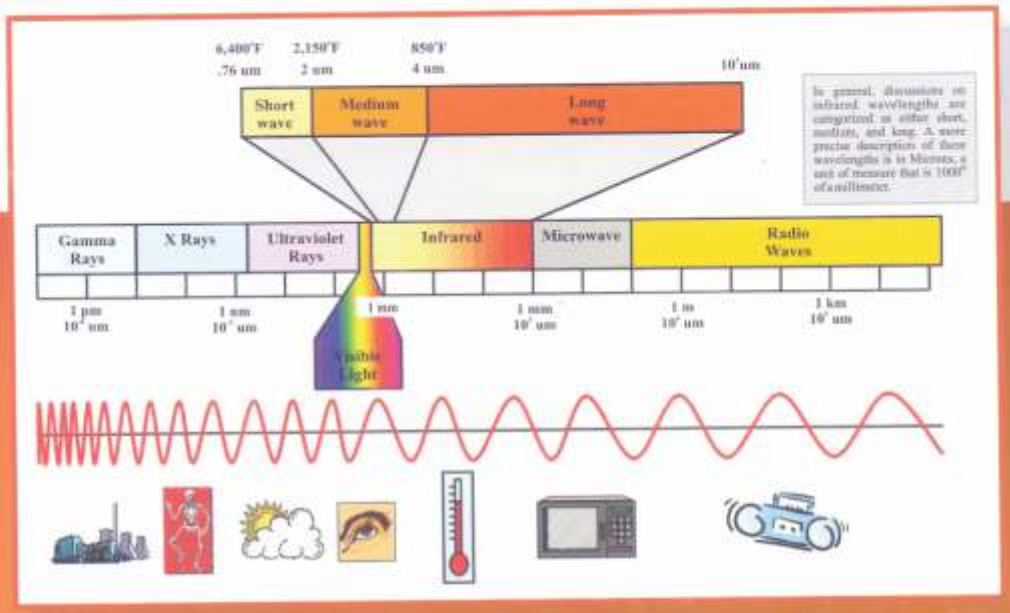
VISION

- 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 society.

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.

BASICS OF INFRARED HEATERS



Infra-red is a very radiant form of heating. A good infra-red heat source has the ability to heat objects and people directly, without having to heat the air in between.

Infra-red radiation occupies the portion of the electromagnetic spectrum between visible light and radio waves. It derives its name from Latin. The prefix 'infra' means 'below' and refers to the wavelengths that are just below the red end of the visible spectrum, hence 'infra-red'.

Medium-Wave Infra-red Heater :

The emitter operates at bright red heat. It is generally located in a quartz tube but is not sealed. Some designs use metal emitters on an insulating panel. Tubular or 'cassette' emitter configurations are available depending upon the application it is required for. Recent designs of cassettes provide much better performance than earlier linear types. Response times vary considerably between different designs.

Industrial Use - Medium-wave is used extensively for drying and curing.

Domestic and Commercial Use - Medium-wave elements are used in many applications including bathroom heaters, gazebo heaters, pendant heaters, some wall-mounted heaters and in the commercial food processing industry.

Medium wave heater is a High efficiency Heating elements, made of pure quartz tube and Fe-Cr-Al or Ni-Cr resistance wire, medium wave infrared heater are quartz heater which emits infrared wavelength around 2-4μ. The operating temperature up to 900 °C.

The advantages of quartz heaters including:

- Reach the operating temperature and cool down in a manner of seconds.
- Rapid response to the power control.
- Highly efficiency and energy saving.
- No dust whirl and odor; hence save to people and environment.
- Long service life.

The quartz tubes of MWIR heater could be made of transparent tubes or translucent tubes, outside diameter from 10mm to 25mm and overall length from 300mm to 3000mm.

Quartz heaters are available in a variety of wattages and voltages. Customized design is welcome.

TEXTILE PRINTING INK CURING MODULE

TOP VIEW

Figure 2 : IR Heating Module

FRONT VIEW

Figure 3 : IR Heating Module

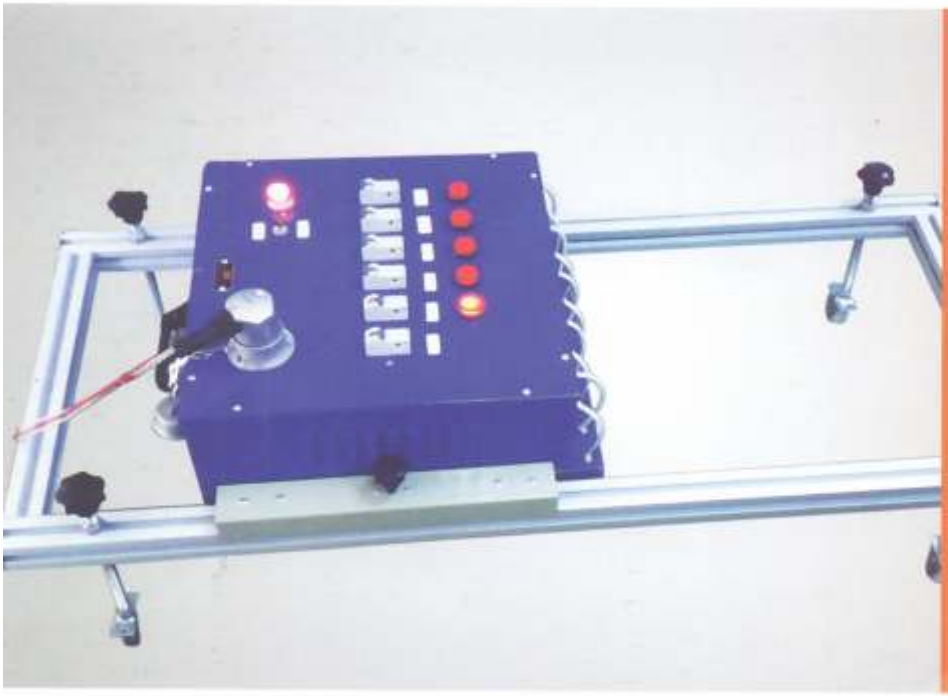


Figure 4 : IR Heating Module

HEATING TUNNEL

Figure 5 : Heating Tunnel

INSIDE VIEW

WAP DRYER MODULE

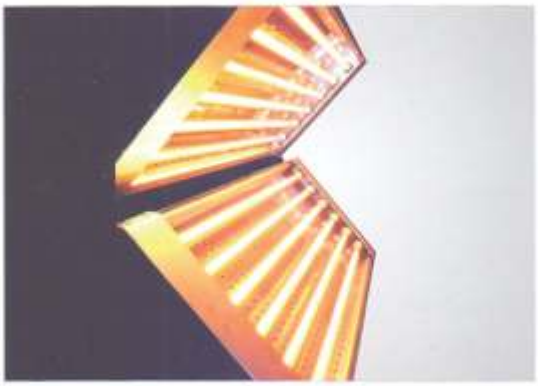


Figure 6 : Wap Dryer Module

HEATER DRYER SYSTEM

Figure 7 : Heater Dryer System

CONVEYORISED IR HEATING IN FOOD INDUSTRY

Figure 8 : IR Conveyors

DRYING GLASS INDUSTRY

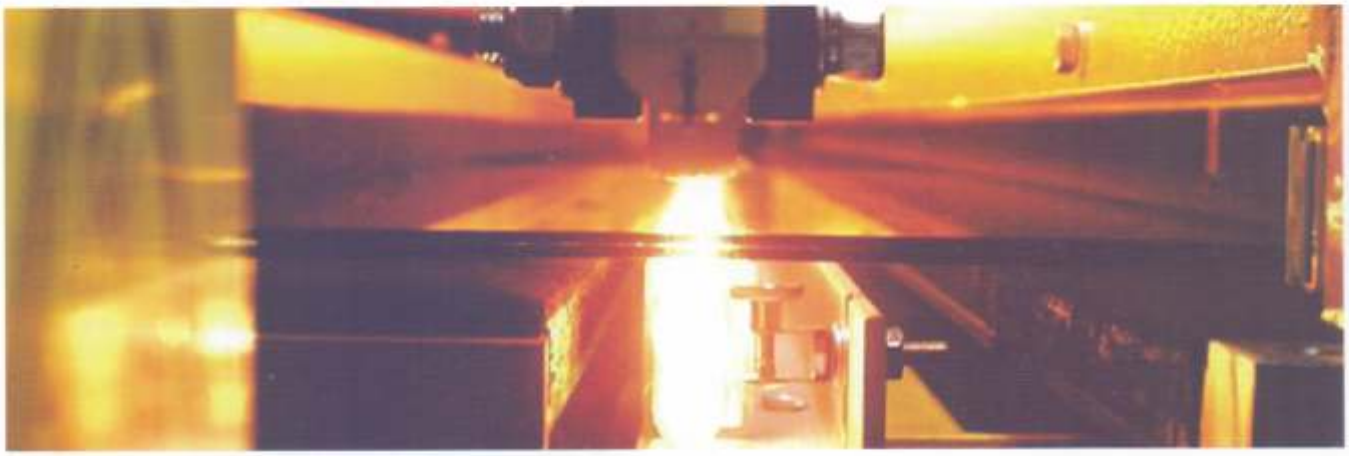


Figure 9 : Infrared Heat for Glass Processing

PAINT SHOP

Figure 10 : Automobile Industry Paint Shop

MWIR HEATER

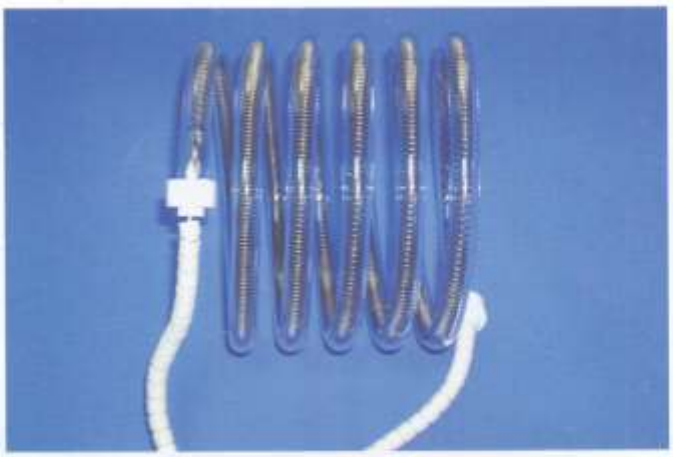


Figure 11(A) : Circular Heating MW IR Heater (Side View)

Figure 11 (B) : Circular Heating MW IR Heater (Top View)

MEDIUM WAVE QUARTZ INFRARED HEATER

We manufacture and supply superior quality Medium Wave Infrared Heater that consists of a helically wound resistance coil housed in a pure vitreous silica fused quartz tube. The quartz tubing is terminated with ceramic insulating caps that are specially designed to allow the quartz tubing to breathe. The ceramic caps are tightly fastened to the quartz tube with high temperature cement that allows the quartz to breathe. Made of high quality material, these are superior in performance and offer long serving life.

Figure 12 : MWIR Quartz Heater

Figure 13 : MWIR Quartz Heaters

Figure 14 : MWIR Quartz Heater of Size - OD19mm & ID 15mm

Figure 15 : MWIR Quartz Heater of Size - OD15mm & ID 12mm

SALIENT FEATURES

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

APPLICATIONS

- Shrink Packaging Machines
- Lamination Industries
- Drying Textiles
- Curing Rubber

MEDIUM WAVE INFRARED HEATING MODULES

Our Medium wave infrared heating modules are configured with a resistance wire, which is enclosed in a Quartz Tube of 8mm outer diameter. The quartz tubes are placed parallel to each other and are mounted in a special housing. The size of this heater exactly compatible to ceramic infrared heater.

Figure 16 : MWIR Heating Modules

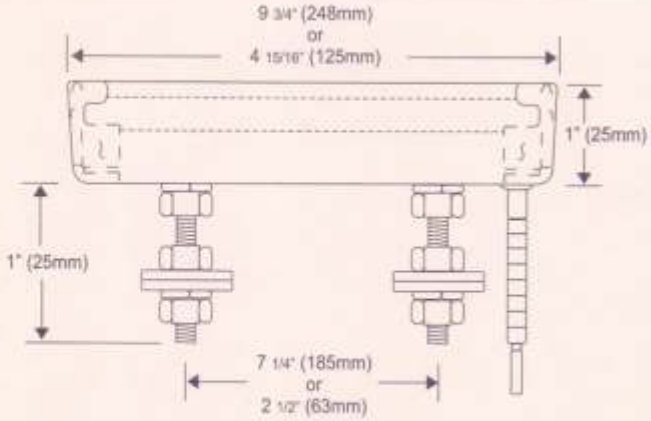


Figure 16 : Dimensions for MWIR Module in length wise

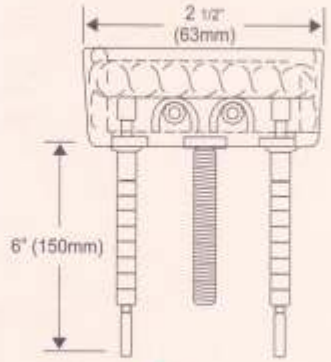


Figure 16 : Dimensions for MWIR Module in width wise

SALIENT 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 2.5 to 3.0m
- Lower power consumption

APPLICATIONS

- Thermo forming
- Plastic Forming
- Shrink Packaging Tunnels
- Laminating
- Curing Rubber
- Drying Textiles
- Drying Lacquers and Paints

TWIN TUBE MEDIUM WAVE INFRARED HEATER

- 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 11 x 23mm and 15 x 33mm

Figure 17 : Twin Tube Medium Wave Infrared Heaters

TYPE OF TWIN TUBE MEDIUM WAVE IR EMITTERS :

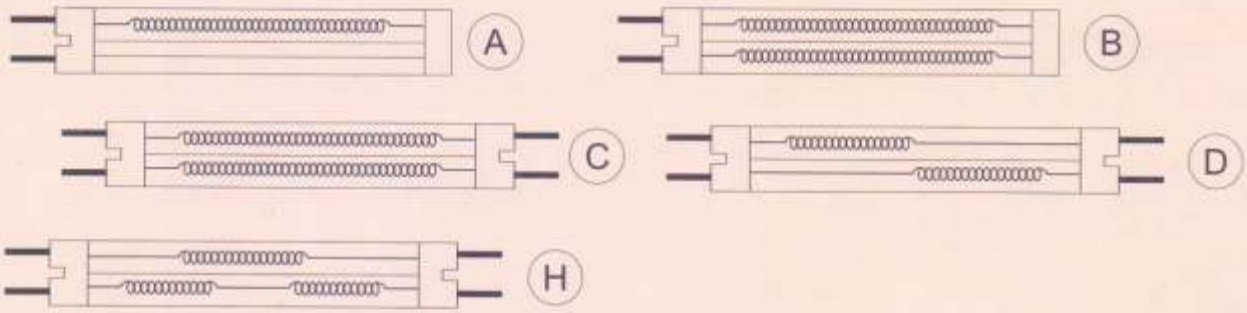


Figure 18 : Type of Twin Tube Medium Wave IR Emitters

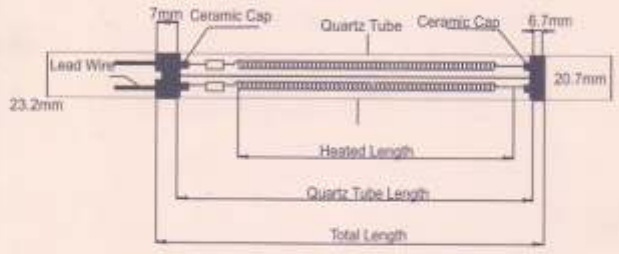


Figure 19 - 1: T-MW1123B

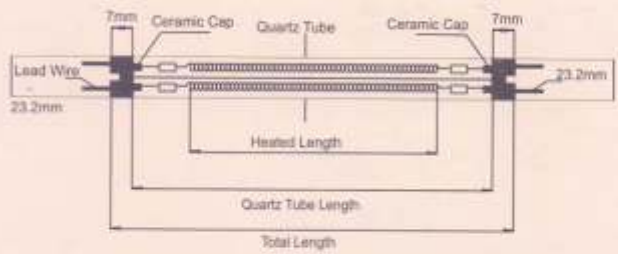


Figure 19 - 2: T-MW1123BC

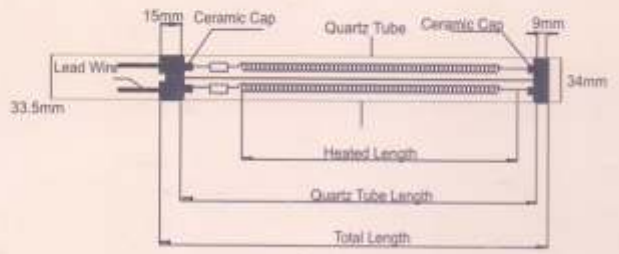


Figure 19 - 3: T-MW1533B

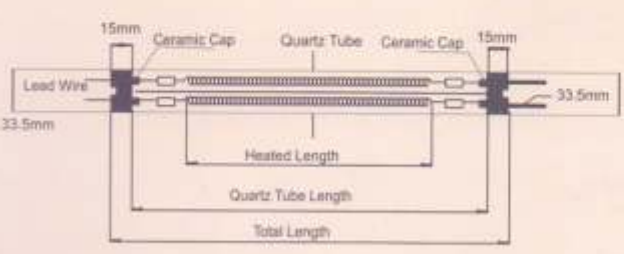


Figure 19 - 4: T-MW1533BC

TWIN TUBE FAST MEDIUM WAVE INFRARED HEATERS

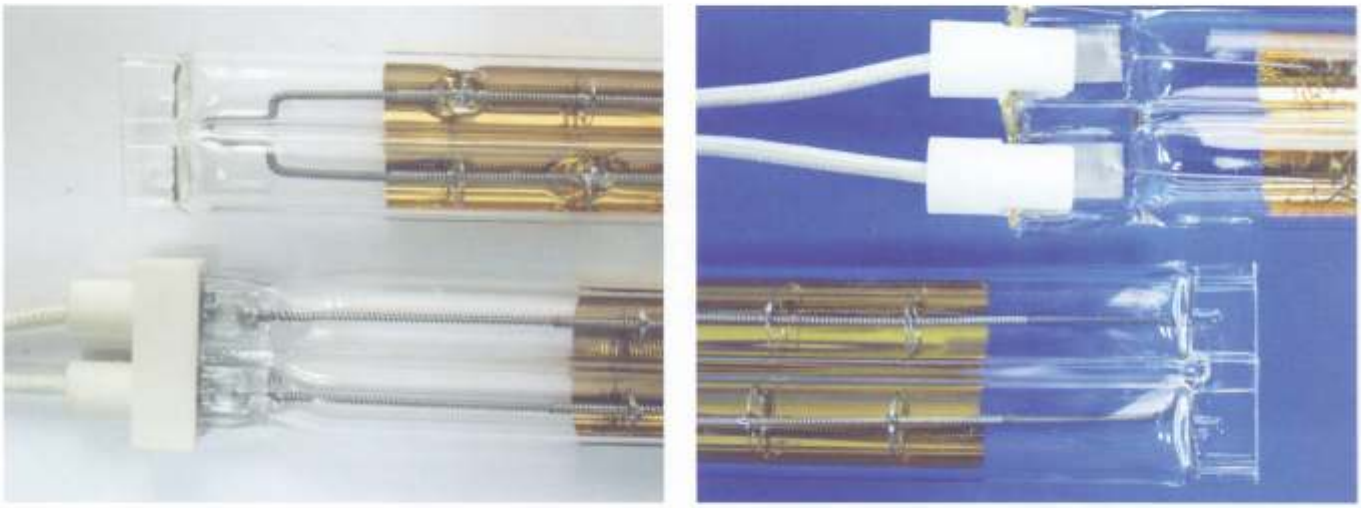


Figure 20 : Twin Tube Fast Medium Wave IR Emitters (T-FMW)

TYPE OF TWIN TUBE MEDIUM WAVE FAST IR EMITTERS :

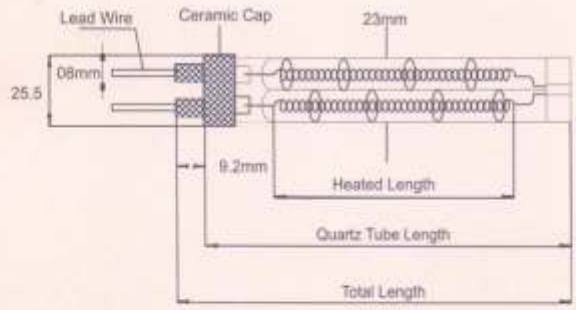


Figure 21 - 1: T-FMW1533B

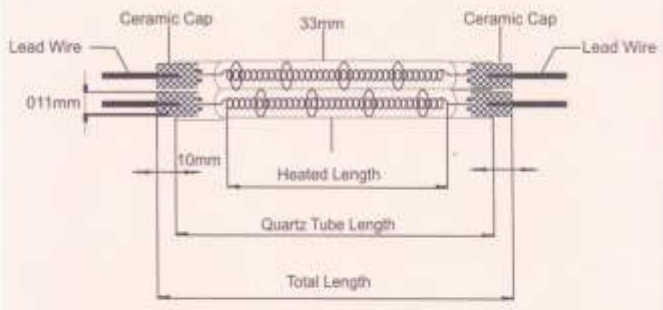


Figure 21 - 2: T-FMW1533C

SPECIFIACTIONS

- Color temperature 1800 °K
- IR wavelength between short wave and medium wave
- Response time around 1 ~2 seconds
- Average working life 7000 hours
- Gold or ceramic coating at rear side as a reflectors
- Dimensions 15x33mm
- Max. overall length up to 4M
- Vertical and horizontal emitters are available

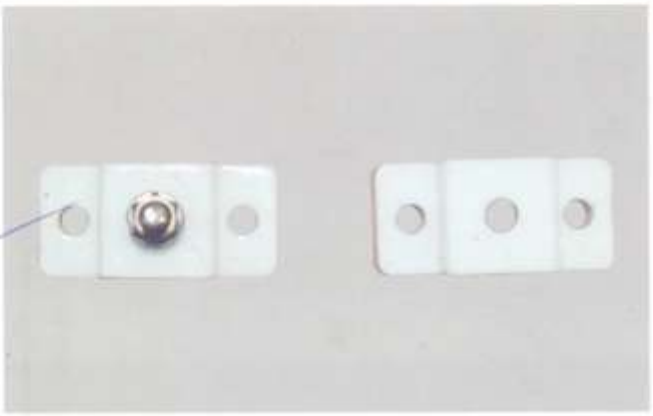


Figure 22 : T - Type Connector (Top View)

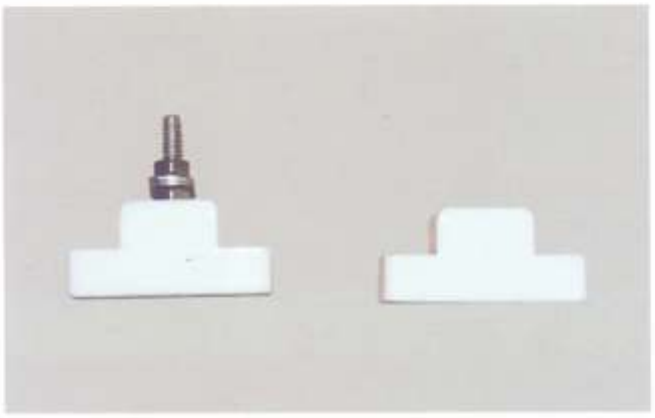


Figure 22 : T - Type Connector (Side View)

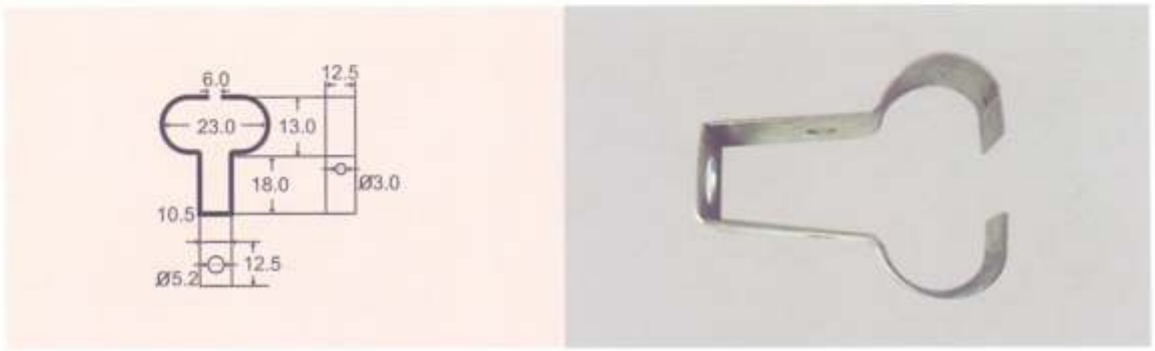


Figure 23 : Clamp for Twin Tube - 11x23mm

Figure 24 : Clamp for Twin Tube - 15x33mm

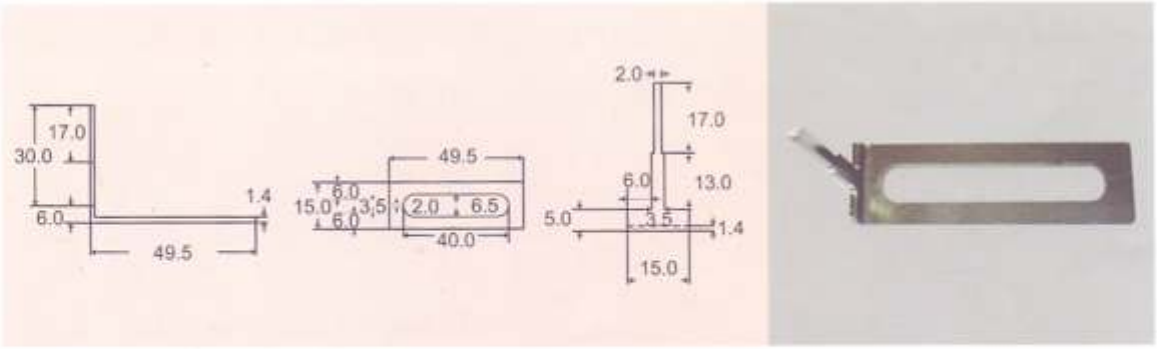
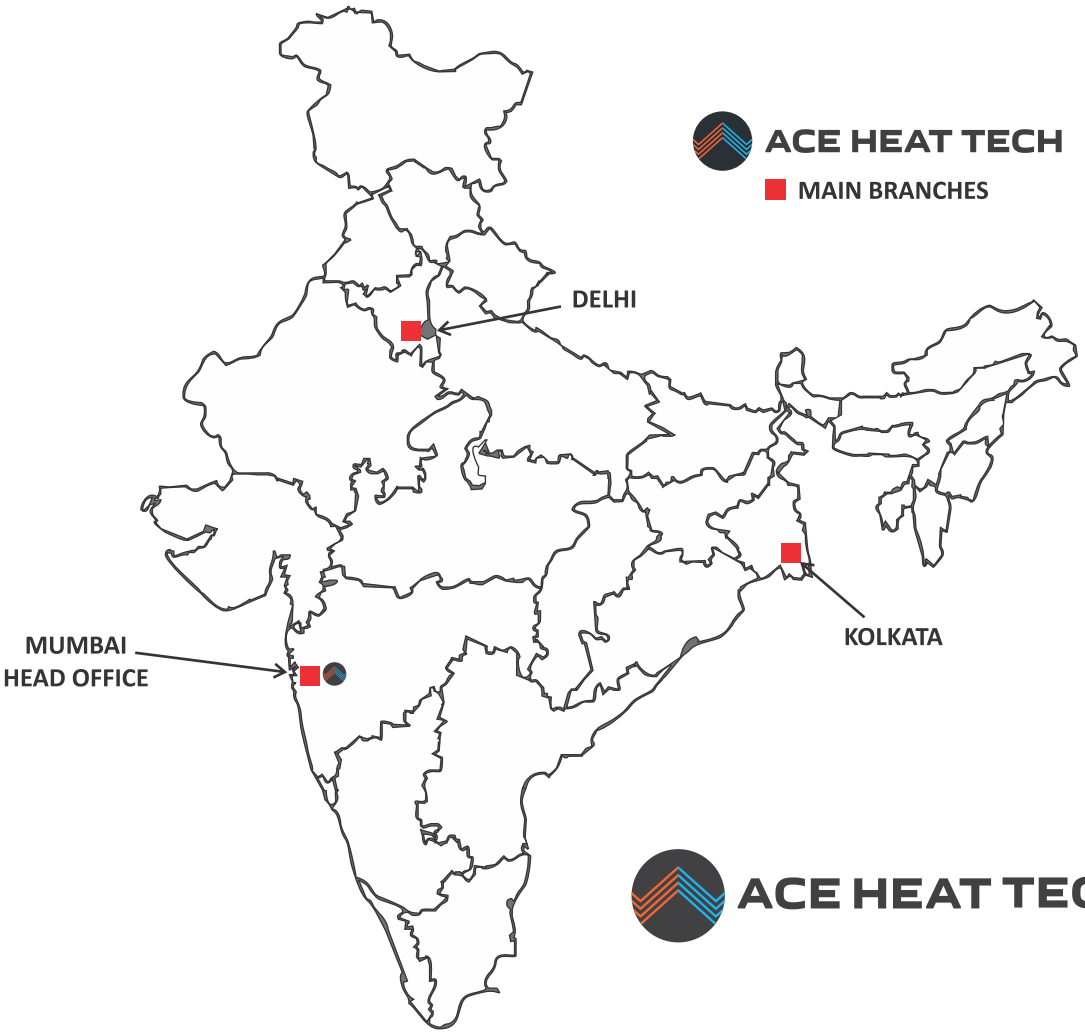


Figure 25 : End stop for Twin Tube Emitters



MUMBAI HEAD OFFICE
Plot No. A-391, Road No. 28,
Wagle Industrial Area,
Thane - 400 604. Mumbai. INDIA.
Tel: 091-22-6829 6000
Telefax: 091-22-2580 0835
Whatsapp: 99207 78029
Email: sales@aceheattech.com

DELHI BRANCH
Plot No. P-50, First Floor,
Pandav Nagar,
Mayur Vihar, Phase - 1,
New Delhi - 110 091.
Tel.: 011 - 4987 6005
M.: 78350 17343 / 96508 75342
delhisales@aceheattech.com

KOLKATA BRANCH
124/4, 2nd Floor,
Regent Colony,
P.S. Jadavpore
Kolkata - 700 040.
Tel.: 033 - 4601 4448
M.: 99033 79762
kolkatasales@aceheattech.com

www.aceheattech.com