ALFA HEATERS AND CONTROLLERS - F.Z.E

Pioneers in Heating Solutions

www.alfaheaters.ae

COMPANY OVERVIEW

With more than 30 years of experience in Heating Industries and highly trained Technical expertise, Alfa Heaters is one of the leading manufacturers of Industrial Heaters in Gulf. As one is aware on the field of electro-mechanical engineering, heating plays a very integral role in order to reach the mission target of the specific application. Embracing this virgin concept, the board engineers of Alfa Heaters, formulated a team, a widely experienced professionals to spearhead the manufacturing of vital heating products and services. Today, with over 30 years of experience, Alfa offers the most comprehensive and diversified heating engineering solutions and technology, thus making itself a name in this niche market and making it the most sought after organization for its expertise.

Alfa Heaters acquires the fastest turn around time for heating manufacturing and delivery in the GULF.

Our products work to increase energy efficiency and environmental protection through innovation.

ALFA HEATERS IS DEDICATED TO BUILDING LONG TERM BUSINESS RELATIONSHIPS THROUGH DELIVERANCE OF CUTTING EDGE QUALITY SERVICE, PRODUCTS AND ITS RICH EXPERTISE

The principle goal of Alfa Heaters is to become the entire Gulf region premier heating solution provider, specially to every organization which has engineering needs for its heat related requirements, thus partnering and ensuring the fulfillment of their targeted specified completion of their end product.

WHY CUSTOMERS PREFER ALFA HEATERS?

- **Total Quality Management with Lower rejection rate**
- **Instant Response and Minimum Lead Time**
- **Local Manufacturing facilitates to avoid supply chain disruptions**
- **Savings on Freight and forwarding charges**
- **Manufactured as per Gulf Standards**

ALFA HEATERS GLOBAL REACH

Alfa Heaters are being exported to more than 34 countries with 500 plus satisfied customers spread over - USA, UK, CANADA, ITALY, NETHERLANDS, IRAN, RUSSIA, AUSTRALIA, MAURITIUS, SINGAPORE, FIJI, THAILAND, MALAYSIA, PHILIPINES, TAIWAN, QUWAIT, QATAR, OMAN, UAE, BAHRAIN, SAUDI ARABIA, SRI LANKA, NEPAL, BENGLADESH, SENEGAL, MALI, GHANA, NIGERIA, TANZANIA, KENYA, ZAMBIA, SOUTH AFRICA & many more nations...

AREA OF APPLICATION

CARTRIDGE HEATERS:

Alfa Heaters offer Cartridge Heaters both High watt and Low watt Density. These heaters are designed for a long life and outstanding performance.

APPLICATION:

Cartridge heaters can be specified to meet the demand of special Application:

- Moulds & Dies
- Labeling Machines
- Packaging Equipment
- Laminating Equipment
- Heating Liquids & Gases

ORDERING INFORMATION:

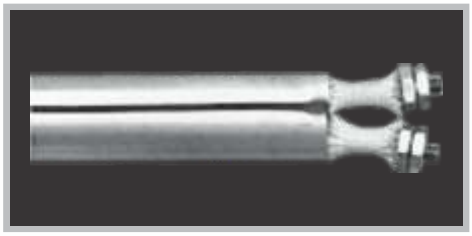
1. Diameter
2. Length
3. Wattage
4. Voltage
5. Wire lead length
6. Inbuilt Thermocouple required or not
7. Termination type

HIGH WATT DENSITY CARTRIDGE HEATER:

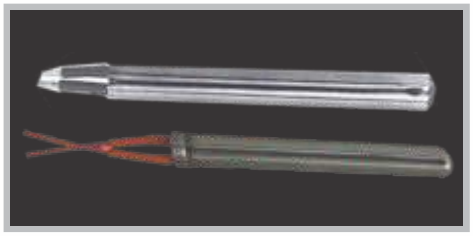
The Construction of this type varies from Low Watt Density Cartridge Heater in two aspects. The space between Ceramic bricks & the tube filled with selected grain size of high purity Magnesium Oxide (MgO). This is swaged to an extent of producing excellent heat transfer capability and dielectric strength and long life. The tube used to house the ceramic brick arrangement is of SS 316 sheath or Incoloy 800 with maximum watt density of 12 Watt/sq.cm.

LOW WATT DENSITY CARTRIDGE HEATER:

Coil is made up of helically wound coil of Nickel Chrome wire. This coil is passed through specially designed circular ceramic bricks in such a way that it is evenly stretched to form stacks of ceramic bricks. This arrangement is housed in a tube of SS 304 Sheath with maximum Watt density of 4 Watt/sq.cm.



Threaded Post Terminal



Teflon Wire

Fiberglass or Silicon Rubber Sleeving

TYPE OF TERMINATIONS

High Temperature Fully Flexible Wire

L Shaped 90° bend with SS Conduit pipe

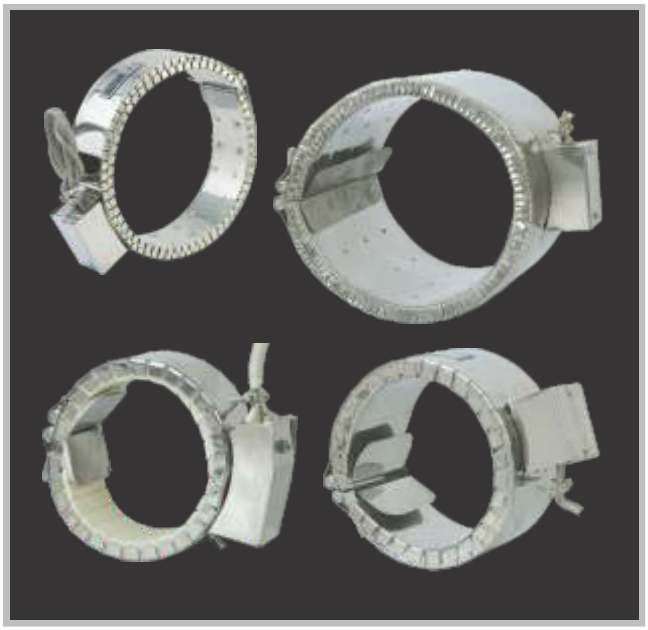
Plug type

Immersion type

Thermocouple Inbuilt Cartridge Heating

BAND HEATERS

CERAMIC BAND HEATERS:



Alfa Heaters and Controllers offer ceramic band heaters that are specifically designed and manufactured to meet the ever increasing demand for energy conservation and to improve operation efficiency. The ceramic Band Heaters transmit heat through both conduction and radiation. The construction is helically wound resistance coil of Nickel chrome wire. This coil is passed through the holes in specially designed ceramic bricks in such a way that the coil is evenly stretched and flexible ceramic heating mat gets formed.

This mat is covered with insulating fiber wool for eliminating heat emission on outer side of the band. Serrated cylindrical stainless steel housing is used to enclose the heating mat along with insulation wool.

This makes the heater very flexible and very easy to install. We can manufacture the heaters with maximum watt density of 7 watt per square centimeter with maximum temperature 760°C.

These are also available with blower. The heaters are without insulation materials and blowers are installed on the outer side of the heater. The ceramic band heaters can be fitted with termination of customers choice.

DESIGN FEATURE:

- Energy saving
- Minimal heat loss
- Built-in thermal insulation
- Uniform temperature
- Maximum flexibility for easy installation
- Longer heater life

APPLICATIONS:

1. Blow Moulding
2. Injection Moulding
3. Film Extruders
4. Plastic & Rubber processing
5. Heating Pipes
6. Extrusion Barrels & Dies

ORDERING INFORMATION:

1) Wattage 2) Voltage
3) Phase -1 Phase / 3 Phase
4) Inside Diameter 5) Width
6) Lead wire Type 7) Lead wire Length
8) Thermocouple Location
9) Construction-one piece / Two piece
10) Lead wire Insulation - Fiber Glass Sleeving - BMS Braided metal Sleeve - Armour Type
11) Clamping - Screw Terminals - Euro Plug - Terminal Box protection

APPLICATIONS:

- Wire & Cable Industry
- Heating Barrels of Plastic Injection Moulding Machines & Extruders
- Die & Die holders heating of Plastic Extruders & Blow Moulding Machines
- Heat Treating of pipes
- Any application requiring heat applied to a cylindrical surface.

TYPE OF TERMINATIONS

Ceramic Band General Purpose Terminal Boxes

Ceramic Band Clamping Variations Spring Loaded

Ceramic Band Terminations (Screw Terminals)

Ceramic Band Heater With Inside SS Cover

MICA BAND HEATERS:

These heaters are made of precisely wound resistance element for quickly transfer of heat. The Mica Band Heaters are specifically designed with closed ends to protect against contamination.

DESIGN FEATURES:

- Constructed by using best natural mica
- Flexibility to incorporate hole and contacts
- Faster heating time compared to other heaters
- Most economical among all heaters.

ELECTRICAL AND MECHANICAL RATING:

Minimum Width - - - - - - - - - - - - 15.9 mm
Minimum inside Diameter - - - - - - 20 mm
Nominal Watt Density - - - - - - - - 3-4 W/ cm2
Maximum Voltage - - - - - - - - - - - 480 VAC
Maximum recommended Voltage - 240 VAC
Maximum Ampere - - - - - - - - - - - 10 Amp
Resistance Tolerance - - - - - - - - - +10%, -5%
Wattage Tolerance - - - - - - - - - - - +5%, -10%

TYPE OF TERMINATIONS

Screw Terminal

Covered Screw Terminal

Plug & Socket

SEALED MICA BAND HEATERS:

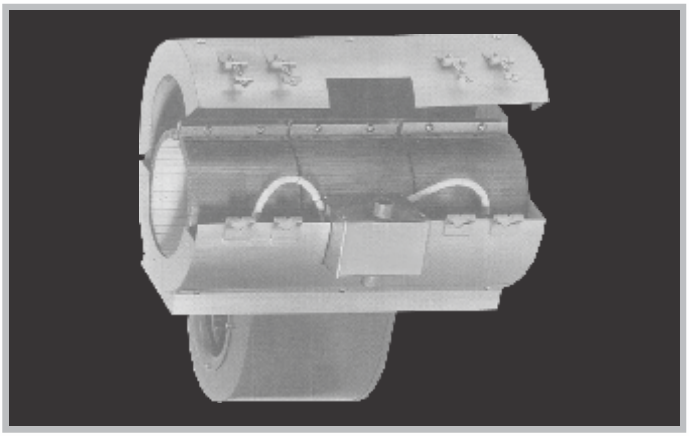
These heaters are used in nozzle where there is a lot of material leakage. Because of its compact design the heater is not affected by any material leakage. It is a plastic proof heating element. The heater is designed to provide optimal heat distribution in a compact space.

FEATURES:

- Maximum Diameter 110 mm & width 80 mm
- Various Clamping
- Inbuilt Thermocouple possible

AIR COOLED BLOWER HEATERS:

These are used in extrusion processes where heating and cooling is required. Ceramic band Heater is covered with as perforated ss body and blower is designed for use on plastic extrusion machine. The blower will be used for cooling. The air enters the shroud and circulates around the ceramic band heaters and the barrel. Thereby removes the heat from the heater and the process and exits from the opposite of entrance port.



TUBULAR AIR HEATERS

These are the most versatile of all electric heating elements capable of being formed into virtually any configurations. The coil is made up of helically wound coil of Nickel Chrome wire which is housed in a tube of SS 304 Sheath. The space between the coil & tube is filled with specifically selected grain size of high purity Magnesium Oxide (MgO). This increases thermal conductivity, dielectric strength & heater life. The filled tube is then evenly compressed in swaging machine such that the diameter of the tube gets reduced. This holds the coil firmly in the center of the tube. The terminals are SS screw type. Each end of the coil is welded to the screw's inner end which remains covered in the tube and the other end of the screw portrudes outside the tube which is to be connected to the power supply.

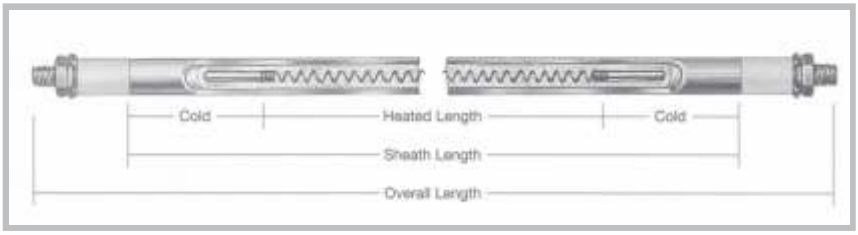
APPLICATION:

- Air Heating
- Forming machines
- Immersion in liquids
- Hot runner moulds
- Oven and Dryers
- Dish Washer
- Sterilizing Equipment
- Oil Water and Solvents
- Immersion Heater

ORDERING INFORMATION:

- Sheath material
- Diameter
- Overall Length
- Heated Length
- Wattages & Voltages
- Bend formation type & dimensions
- Fin material & diameter
- Thermostat if required
- Flange Dimensions

Standard Diameter available 7mm, 8mm & 11mm with M4 or M6 threaded stud terminal with Ceramic Insulator.

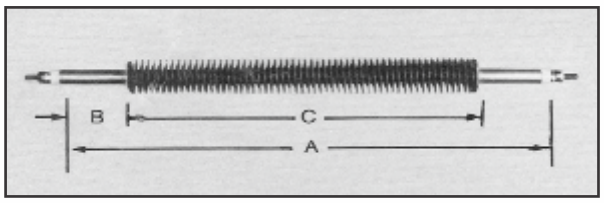


DESIGN FEATURES:

Resistance Tolerance	+10%, - 5%
Wattage Tolerance	+5%, -10%
Maximum Sheath Temp.	SS--- 650°C, Copper --- 200°C, Incoloy --- 875°C
Maximum Voltage	480 V AC
Maximum current	40 Amp

DIFFERENT TYPES:

TYPE 1



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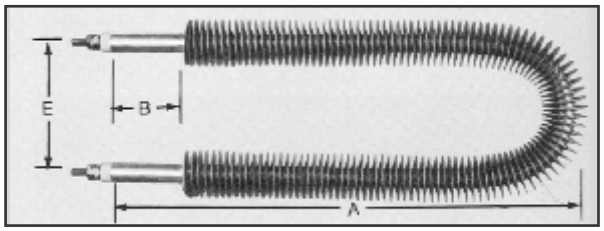

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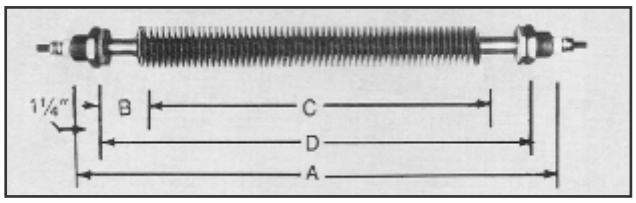

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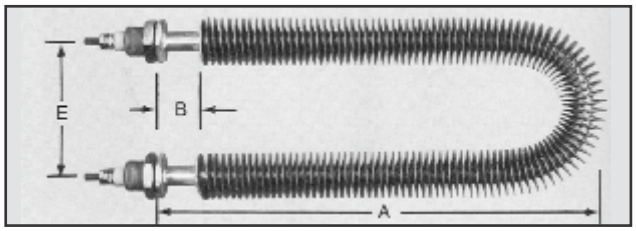


IMMERSION HEATERS

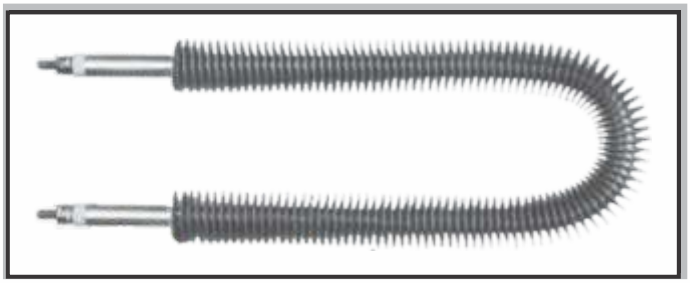
Tubular immersion heating elements are formed into hairpin that are brazed to flange of size 1", 1.5", 2", 2.5" or 3" in brass or SS material. Temperature can be controlled by using thermostat if required.

These heaters are used where liquids are to be heated directly by immersion of heater. Here maximum watt density of 8watt/ sq.cm is obtained. Virtually 100% energy efficiency is achieved as all heat is generated within the liquid or process.

Various mounting options like screwed flanged and side mountings are possible. These are used in lot of applications like Hot water storage tanks, preheating of oil process air equipment, boiler equipment etc.

FINNED TUBULAR HEATERS

Finned Tubular provide rapid and fast heat transfer for Air heating application. These heaters are highly effective in industrial and commercial application where hot air is required. These are constructed by mounting fins in SS or MS Sheath on normal tubular heaters.



CIRCULATION HEATERS

These heaters are used in forced or natural circulation system to heat flowing gases or liquids. Flanged immersion heater, vessel, insulation, terminal enclosure, mounting brackets and inlet and outlet connections are provided. Thermostat is provided for temperature controlling.

PORCELAIN HEATERS

These heaters are of replaceable type and are highly suitable for various applications that include oil heating, geyser, chemical and water heating. Our range of Porcelain Heating Element is made out of Open helical coils of high resistance wire and is covered with fluted refractory bobbins.

FEATURES:

- Power Saver / BMS Compatible
- Constructed as standard Units.
- Tailored to suit customer's specific requirement

APPLICATIONS:

- Geyser
- Water Heating
- Oil Heating
- Chemical Heating

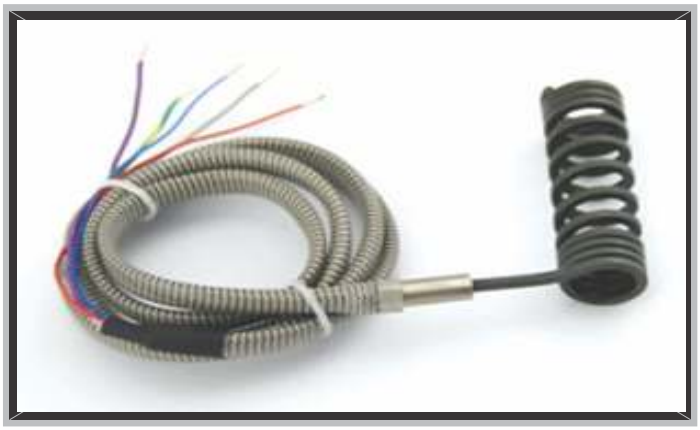
COIL HEATERS

Coil Heaters are an advance concept of thermal engineering has a construction similar to high watt density cartridge heaters. These heaters are also known as high performance tubular heaters. The basic construction of these heaters consists of compacted MgO, high temperature resistance wire and chrome Nickel Steel Tube.

These heaters can be constructed with or without built-in thermocouples.

APPLICATIONS:

- Hot Runner Nozzles & Bushings
- Tube extrusions
- Pipe Forming



FEATURES:

- Standard sizes available with various cross section
- Various watt density option available
- Designed for even heat profile
- Precision fit on Hot Runner Nozzles
- Highly non-corrosive

SHORT WAVE INFRARED HEATERS

Short Wave IR Lamp transmits heat in the form of electromagnetic waves at a velocity of approximately 3,00,000 Km/Sec i.e., at the speed of light. These lamps are not only the fastest in transmitting heat but are most suitable for specific applications involving vacuum technology and dust free (clean room) conditions.

REFLECTOR: The Reflector is used for 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 to mitigate the Infrared Radiation intensity of the filament. It is fixed all over the SW IR lamp in combination with another reflector.

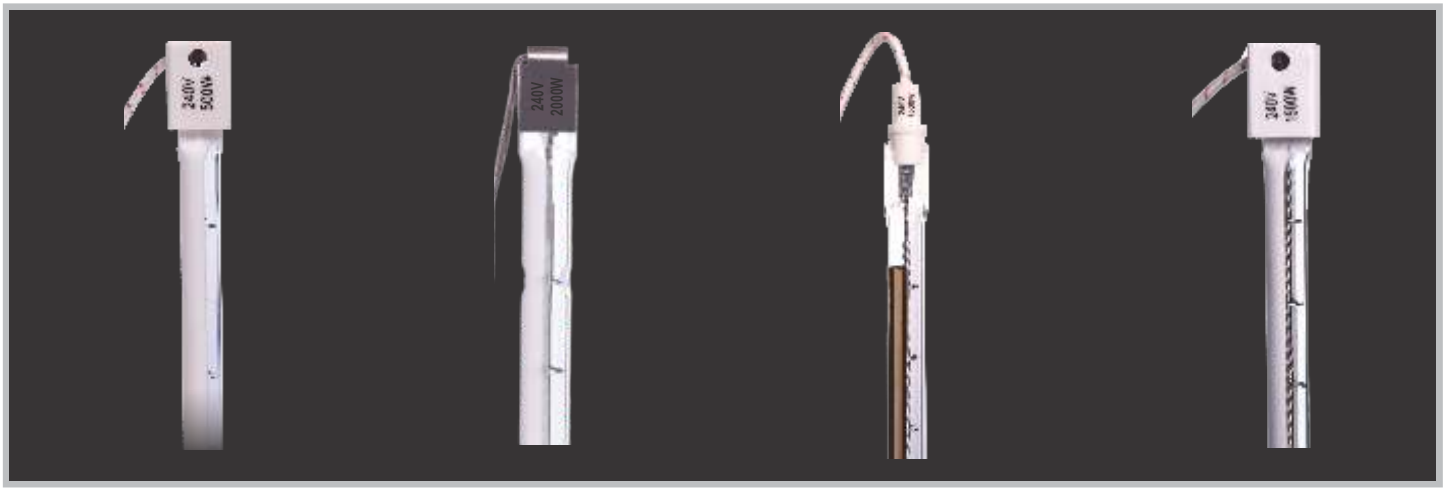
ADVANTAGES:

1. Improved energy transmission on material
2. Reliable heating
3. Possible to obtain an additional distance irradiated energy

Short Wave Infrared Heaters without Coating

APPLICATIONS:

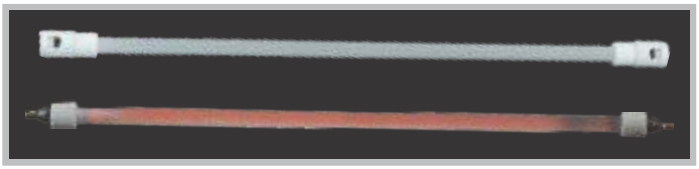
SHORT WAVE IR HEATERS are used in Stretch PET Bottle Machines, Paint Shops, Powder Coating Ovens, Screen Pad Printing, Curing, Drying, Printing Ink Drying in Offset Machines, Trolley Type Short wave IR Modules.



Short Wave Infrared Heaters with Coating (Reflectors)

MEDIUM WAVE QUARTZ INFRARED HEATERS

Quartz Heaters consist of a helically wound resistance coil housed in a pure vitreous silica fused quartz tube. The Quartz tubing is terminated with specially designed ceramic insulating caps which are securely fastened to the quartz tube with high temperature cement providing excellent support to the power connecting termination. Quartz Heaters are designed to be used in a horizontal position only. Quartz Heaters are available in various diameters like 8, 10, 12, 15, 19mm and length from 300 to 1500mm.



APPLICATIONS:

MEDIUM WAVE IR HEATERS - in Textile Industry, Printing Ink Curing Modules, Heating IR Tunnel Systems, Drying of IR Conveyor Food Industry Products, WAP Dryer Modules, Automobile Industry, Paint shops, Curing, Heater Dryer Systems and many more.

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

SINGLE / TWIN TUBE QUARTZ IR EMITTERS WITH GOLD COATING

Gold plating is done on quartz tube over 180°. These heaters reflect the radiant energy through the opening area only, improving element efficiency by as much as 20% compare to without gold plating heater. Energy cost savings are realized. Reflectors are often not needed. Surrounding work area temperatures are cooler. These heaters are also available with and without gold plating.

MW QUARTZ IR HEATING MODULES

A resistance wire is enclosed in a small diameter quartz tube running parallel to each other and mounted in a special housing. The two sizes are designed to be installed in the same dimensional spacing as the ceramic infrared elements. IR heating modules half are available in different wattages from 125 to 650 watt and IR heating modules full are available from 250 to 1000 watt.

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 µm
- Low power consumption

APPLICATIONS:

- Thermo forming
- Plastic forming
- Shrink packaging tunnels
- Laminating
- Curing rubber
- Drying textiles
- Drying lacquers and paints

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
Temperature: up to 720°C
Max. watt density: 64.0 kW/m2
Wavelength: 2-10 µm

HTS SERIES (ENERGY SAVING)

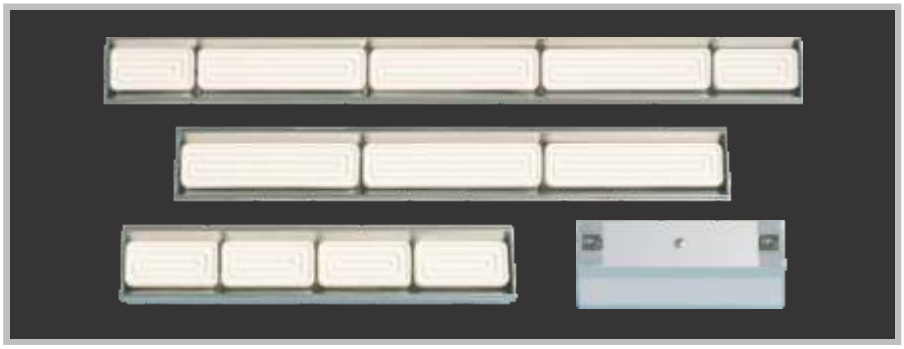
a) 122mm x 122 mm - 250 W to 1000 W
b) 245mm x 60 mm - 250 W to 1000 W
c) 122mm x 60 mm -125 W to 500 W
d) 60mm x 60 mm - 60 W to 250 W
Temperature: up to 860° C
Max. watt density: 64.0 kW/m2
Wavelength: 2-10 µm

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
Temperature: up to 720° C
Max. watt density: 64.0 kW/m2
Wavelength: 2-10 µm

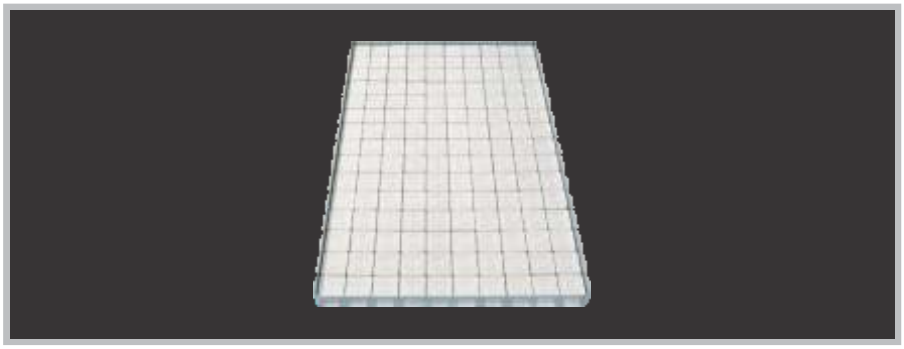
EBF SERIES (ENERGY SAVING)

a) 100mm x 250mm
b) 100mm x 1250 mm
c) Other lengths on request
Temperature: up to 860°C
Max. watt density: 48.0 kW/m2
Wavelength: 2-10 µm



BSI SERIES (IR SYSTEM)

125mm x 250mm up to 1000mm x 1500 mm
Other sizes on request
Temperature: up to 860° C
Max. watt density: 64.0 kW/m2
Wavelength: 2-10 µm



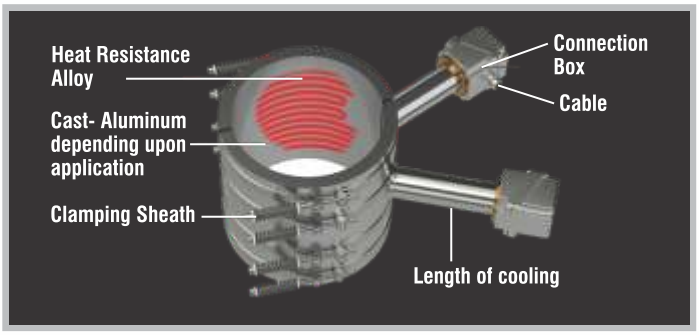
CAST - IN HEATERS

Cast-in heaters are designed for heating solids or indirect heating. Cast-in heating elements are ideal for applications requiring homogeneous indirect heat. Cast-in heaters are often used in plastics industry, packaging industry, food industry and many others. The cast-in heating plates and heating bands consist of one or several electrical resistance embedded in a block of aluminum, brass, bronze or cupronickel alloy providing excellent thermal conductivity.

Usual applications: Heating plates for presses, extruded dies and sheaths, heating plates for homogeneous heating (rubber, aerated concrete curing) sealing on packaging lines mill.

FEATURES:

- Indirect heating
- Block of aluminum, brass, bronze or copronickel alloys
- Process temperature up to +400°C (aluminum), +650°C (copronickel). Maximum +750°C.
- Maximum weight: Aluminum 400kg / Copronickel 300kg
- Can be equipped with cooling circuits to optimize the industrial process



ADVANTAGES:

- High protection against corrosion
- As this is indirect heating, the heating resistance is protected. The solid or fluid to be heated is not in contact with the resistance.
- Gravity moulding ensures an excellent material homogeneity and thus a perfect heat transfer.
- The end-to-end control of the design and production chain allows us to deliver a product which suits your process perfectly
- Can be equipped with cooling circuits to optimize the industrial process
- Resistance in severe industrial surroundings (impacts, vibration)

OPERATING CONDITIONS:

- Extreme environments: -60°C to +80°C
- Onshore / Offshore environment
- Hazardous areas (ATEX/IECEx) and NEC 505
- Normal (non-ATEX)

SINGLE CHANNEL POWER CONTROLLER

We offer a uniquely designed Digital Power Controller, power controlling device that is configured with imported solid-state current control cascade unit, which is powered by single phase supply.

FEATURES:

- Compact design, suitable for control panel flush mounting with panel, having a cutout size of 90mm x 90mm & 72mm x 72mm

Supply voltage indication features:

- Input: 220 +/- 10% volts, 50 Hz
- Output: 16 Amps, 25 Amps or 40 Amps rated output, with required connected load of equipment arranged in series
- Output Terminal: For Phase / Neutral & two terminals for Series Load to be connected, which can be heaters and equipment
- Adequate capacity heat sink is provided
- Configured with imported solid-state current control cascade unit
- Precise & smooth % of supply voltage adjustment
- Configured with digital read-out indication for % supply of voltage

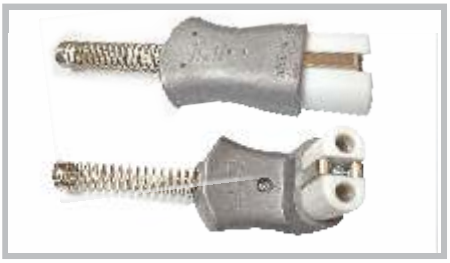
APPLICATIONS:

- Compact design having 96mm x 96mm x 150mm & 96mm x 96mm x 65mm standard casing
- Smooth & attractive surface finish for flush mounting, which enables lucrative yet manageable control device.

HIGH TEMPERATURE PLUGS

These high temperature plugs are used for connecting a power supply to a heating element. We supply them as a straight or right angle design for fitting options.

They are suitable for 3 to 35 A and voltages from 220 to 600 V. They have a maximum working temperature of 500°C and are manufactured from aluminium and silicone with 2 x 6mm connection hole and a spring strain relief.



CERAMIC HEATER CONNECTORS

Ceramic Heater connectors with open type, closed type and T - Type busbar supports are available in our range of accessories and are mainly used for heaters. These multi pole connectors have stainless steel contacts. These connectors are used at sites where the operating environment sets high demands on the heat resistance of the connector.

The connectors available in range of 5 Amps to 30 Amps.

HEATER WIRES

We have two different types of Heater Wire namely Fibreglass Wire & Teflon Wires with different sizes. Our Heater Wires can withstand high temperature. Heater Wire can be used in Heaters, Ovens & wherever heating connection required with Excellent Ductility, Minimum Distortion, High Conductivity, Durability etc.

STAINLESS STEEL CLAMPS

Stainless Steel Clamps used to hold or install on both end of Quartz or Quartz Tubes. It can be mounted on ceramic cap or ceramic holders or Quartz Tubes. Stainless Steel Clamps can be supplied with or without ceramic bush and adjustment hardware.

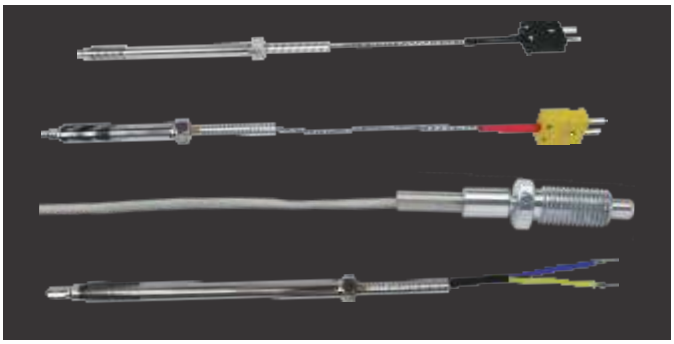
INDUSTRIAL HEATING OVENS

We at Alfa Heaters provide High Temperature Industrial Heating Ovens for various size and power output as per customer demand ranging from 5 kW up to 150 kW and above as per request. Each of our heater is made with high grade ceramic material which can withstand high temperatures up to 700^{0}C. Our infrared Oven works on infrared heating principle for efficient and effective heating. We have best in class safety standards in accordance with international safety norms. Industrial ovens are mainly made in high grade SS material, complying all the safety norms and features in Pharmaceutical and Food Industries. The advantage of using Infrared oven is, it reduces the heating time up to half and saves a lot of energy, ensuring higher quality at the same time.

Applications: Paint finishing, Powder coating, Plastic moulding, Ink drying and Automobile.

TEMPERATURE SENSORS (THERMOCOUPLES)

Alfa Heaters offer an array of Temperature Sensor, that are specialized, customized and required in any temperature measurement and closed loop control process. By using latest technology and methodology, we offer an impressive range of Thermocouples for a variety of industrial process applications such as blast Furnace, Thermoforming controlled extrusion line, Sponge iron plant, Cement etc.



PROXIMITY SENSORS

PR Series — Standard Cylindrical Inductive Proximity Sensors

- Excellent noise resistance with specialized sensor IC
- Built-in surge protection circuit, reverse polarity
- Protection circuit (DC 3 - wire types), and over current protection circuits (DC types)

PRD Series — Cylindrical Inductive Proximity Sensors with long sensing distance

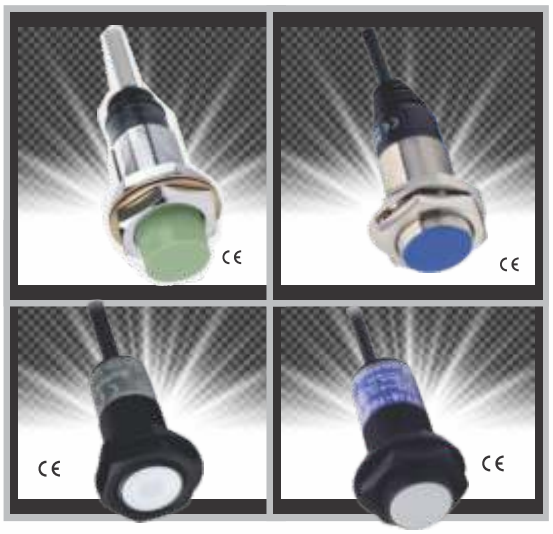
- Long sensing distance and excellent noise resistence with specialized sensor IC
- Simple operation, reliable performance, and high durability
- Built-in surge protection circuit, reverse polarity
- Protection circuit and over current protection circuit
- Operator indicator (red LED)
- IP67 protection structure (IEC standard)

PRA Series — Cylindrical Spatter-Resistant Inductive Proximity Sensors

- Coated with teflon for high heat resistance (prevent malfunction from welding spatter)
- Excellent noise resistance with specialized sensor IC
- Built-in surge protection circuit
- Built-in over current protection circuit

PRDA Series — Cylindrical Spatter-Resistant Inductive Proximity Sensors with long sensing distance

- Coated with teflon for high heat resistance (prevent malfunction from welding spatter)
- Long sensing distance and excellent noise immunity with specialized sensor IC



IR HEAT BULB

Alfa Heaters has become a leading global supplier of LED and infrared heat lamps with superior quality and value price. Our mission is “Brighten the 21st century to the world with excellent service and light bulb products”. The major products sold throughout the world are ‘ One piece Blown LED PAR38" and Infrared Heat bulb” with “LLEDUS” and “Heat plus” brand respectively. The unique characteristics of one piece blown PAR38 is its effectiveness and efficiency from one piece construction by using strong and glass for heat, but light weight. In serving the world markets through our modern production facilities, we continuously invest over five (5%) percent of our annual sales in new technology, new product development, top quality and high productivity programs. New products include ‘LED PAR30/PAR38 light bulb” providing tremendous energy-efficient benefits over ninety (90%) percent compared to an incandescent bulb. Alfa Heaters lighting product lines have been adapted and certified for using in global markets, and it includes reflector incandescent, LED bulb for outdoor flood-light, and IR heat bulb for pig / chick / animal habitats. In partnership with the lighting industry, Alfa Heaters develops lighting solutions for serving worldwide customers.

R 40 / IR / RUBY

PAR 38 / IR / RUBY

FEATURES:

- Fade resistant ruby stained red
- Specially designed filament
- More heat less light (high heat output)
- Moisture Proof (Hard Glass)
- Screwed glass & No coated copper base
- Reinforced rim bulb-shaped

APPLICATIONS:

- Therapeutic and other medical purpose
- Food Purpose
- Bathroom or Healthy Purpose
- Pig, Chicks / Animal farming

LAMP PROTECTOR BROOD LAMP

FEATURES:

- Sturdy bulb guard protects from animal
- Heavy gauge stainless steel base
- Aluminum with Gold anodizing
- Porcelain socket and 10 inch cord
- Use 100V ~ 250 Volt and 100W ~ 375 Watt range
- Separate hanger clip and hanger attaches to the lamp holder
- 3 way switch
- Box of 10

BL 300

LAMP STAND

LS - 100

QUARTZ GLASS

Alfa is specialized in Industrial Quartz Glass Products & Quartz Accessories. Quartz Glass tubes both transparent clear tube & translucent milky tubes. Glass tube have purity, good spectral transmission, well controlled dimension and lower OH. Quartz has a nominal purity of 99.99%. These are highly resistive to thermal shock due to extremely low co-efficient of thermal expansion. These Quartz tubes have excellent electrical strength that remain highly stable with temperature variation.

We have regular stock of Transparent Clear Quartz Tube, Translucent Milky tubes, Quartz Rod, Quartz Plate, One End Closed Quartz Tube, Quartz Crucibles etc.

We also have Quartz fabrication unit where we can fabricate infrared heaters, Quartz tubes of any shape and other Quartz items according to requirement.

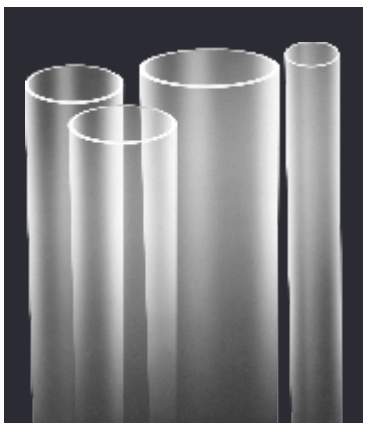
CLEAR QUARTZ TUBE

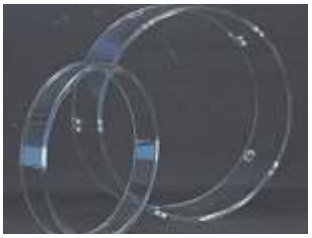
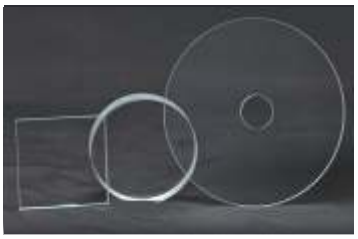
The clear quartz glass tubes are obtained through the use of different types of raw materials like natural or synthetic quartz sand. Quartz glass tube have ultra high purity, good spectral transmission, well controlled dimensions and lower (OH) Hydroxyl.

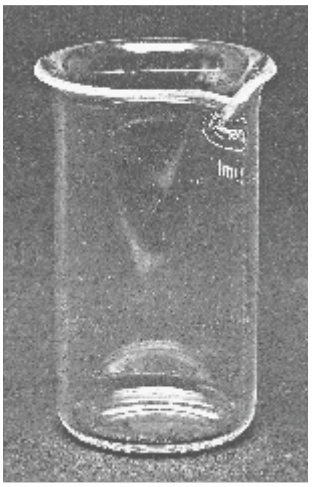
These are highly resistance to thermal shock due to extremely Low co-efficient of thermal expansion.

These Quartz Tubes have excellent electrical strength that remains highly stable with temperature variation.

These Quartz tubes are available from 2mm inside diameter to 200mm outside diameter up to 3000mm length.





CRYSTAL QUARTZ MUSICAL BOWLS OR CHAKRA QUARTZ SINGING BOWLS

We are the stockist & suppliers of Quartz Musical Bowl. Musical Bowls made of pure crystal quartz and also available with different designs and models. The sound affects brain wave activity, one can travel into an altered state of consciousness, it is probably that, they release different hormones and neuro-chemicals which can suppress pain, strengthen will power in one's creative talents and overcome addictions. Quartz Crystal music holds the vibration of white light, which ultimately refracts into the rainbow and acts directly on chakras when played. It has the power to bring about a positive shift in our consciousness, and as our awareness expands, we grow in our physical form.

Discover the magic of " Singing" Crystal Bowls.

Use them to enhance your energy.....

Use them innovative ways.....

Meditation | Healing | Entertainment | Cleansing | Pets & Children | Energy Work (Reiki, Healing Touch etc..) | Message Therapy | Traditional Ceremonies | Church Services

Singing bowls were historically made throughout Asia. Today they are made in Nepal, India, Japan, China and Korea. The best known types are from the Himalayan region and are sometimes referred to as Himalayan Singing Bowls.

FEATURES

Our Crystal Singing Bowls are manufactured from 99.99% pure quartz crystal, and are the finest, pristine, crystal singing bowls. The crushed quartz is heated to at least 1100 degrees in the manufacturing. Then, they are tested to determine the musical note. Although the larger bowls have a deeper, lower octave, tone, it is not the size that determines the 'note' of the bowl.

The bowls are associated with the musical scale, starting with C, then D, E, F, G, A and B. These notes are in turn associated with the Seven Chakras of the Human System.

APPLICATION: Sound therapy and meditation

HEALING: Chakra aligning and total cleansing

Transmitting energies, Energizing the Physical and Energetic Bodies

Fengshui

SUITE CROWDS

Sound Therapists, Massage Practitioners, Medical Doctors, Chiropractors, Reiki Practitioners, Musicians, Singers, Voice Coaches, Meditation Teachers and Energy Workers choose our bowls when they want the best sound quality, resonance and customer service for their practices, clients and own reputations.

SINGING BOWL ACCESSORIES

Rubber O - Ring

Rubber stick or Suede singing bowl mallet.

- The Purest Quartz Crystal 99.99%
- Each size have all tune CDEFGAB
- Strong & long sound

Energy Center	Location	Element	Issues	Right	Color of chakra (bowls are white)	Note
1st Root	Base of spine	Earth	Physical needs	To have	Red	C
2nd Sacral	Lower abdomen	Water	Sexuality, emotions	To feel	Orange	D
3rd Solar Plexus	Solar plexus	Fire	Power, vitality	To act	Yellow	E
4th Heart	Heart	Air	Love	To love	Green	F
5th Throat	Throat	Sound	Communication	To speak	Blue	G
6th Third Eye	Brow	Light	Intuition	To see	Indigo	A
7th Crown	To pe of Head	Thought	Understanding	To Know	Violet	B

CLEAR COLORED QUARTZ BOWLS

Size: 6, 7, 8, 9 & 10 inches

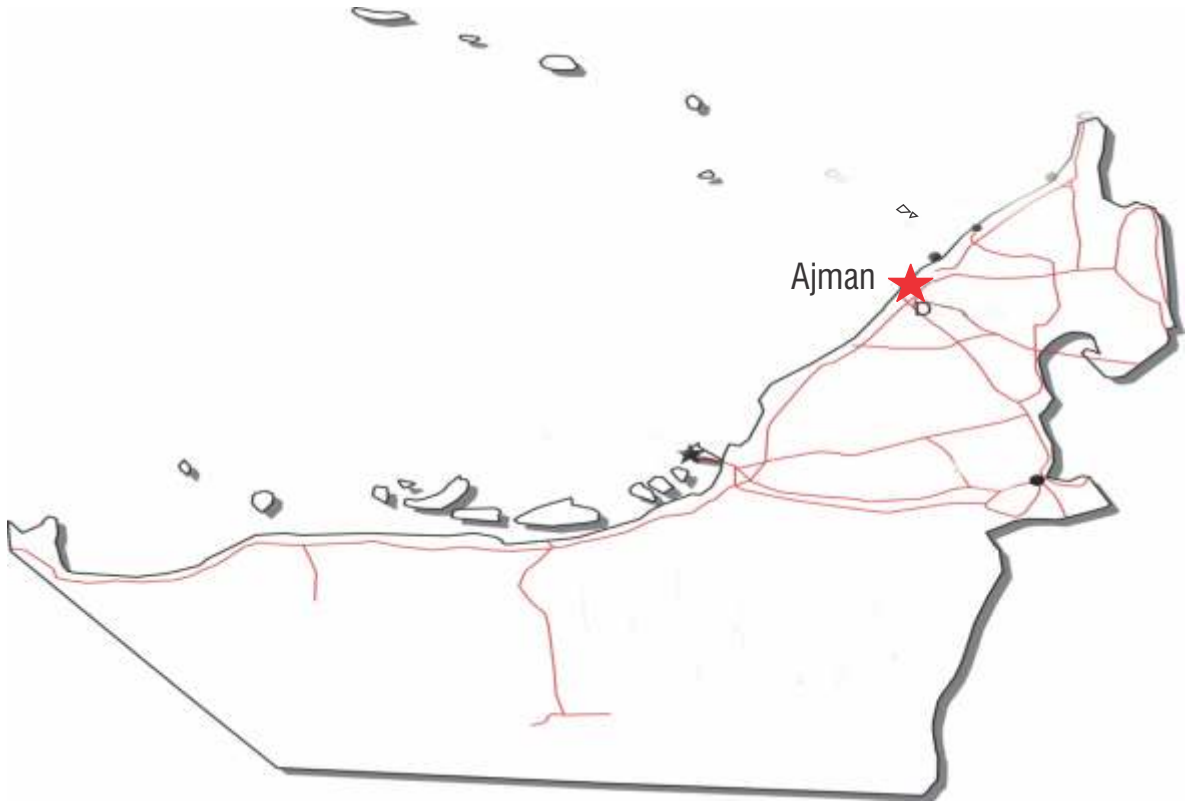
CLEAR TRANSPARENT BOWLS

COLORED SINGING BOWLS

Size: 6 to 16 inches (except 15")

ALFA HEATERS AND CONTROLLERS - F.Z.E

Pioneers in Heating Solutions



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