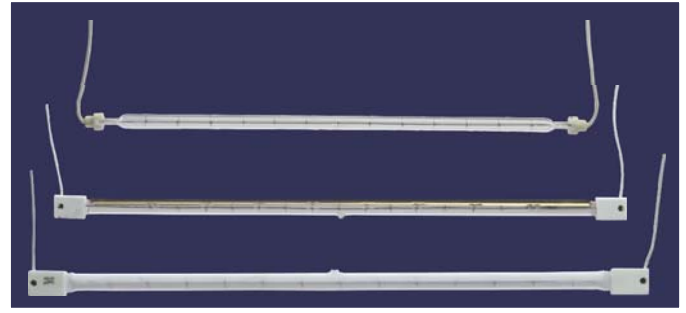
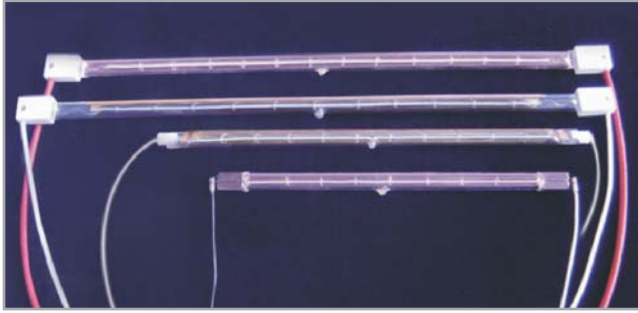


# Short Wave Quartz Infrared Heaters

**Anupam**

*Relationship beyond Heating Technology ...*



SHORT WAVE QUARTZ INFRARED HEATERS / LAMPS are used in various Industrial applications. It contains tungsten filament, helically wound, encased in quartz envelope. Tungsten as resistive element is capable of generating temperature in excess of 2750<sup>o</sup>C. Its response time is very rapid in 1 second it emits over 90% of IR energy. It is byproducts free & pollution free. Heat focus is very accurate due to compact and narrow diameter of IR tubes. Short wave IR element has maximum heating rate of 200W / inch.

The quartz envelope allows transmission of IR energy and protecting the filament from convective cooling and corrosion. Addition of small % of halogen gas in it not only increases life of emitter but also protects blackening of tube and depreciation of infrared energy. The rated life of short wave IR heater is around 5000 Hrs.

## WHITE CERAMIC COATING / GOLD COATING :

Short wave IR heaters are also available with Gold / Ceramic coating, which reduces visible glare and energy loss. It acts as reflectors and raises infrared energy output compared to infrared heaters without coating. Ceramic coating / Gold Coatings is available to hold the lamp envelope which helps in stronger & efficient radiation in a specific direction. This type of coating eliminates the need for reflective mirrors, making it space-savvy & low cost alternative.

The performance of white ceramic coating is much better than gold layer. Gold coating gradually disappears if temperature exceeds 350<sup>o</sup> C, but ceramic coating performs upto 950<sup>o</sup>C & lasts longer than the life of the lamp.

## APPLICATION :

- |                                  |   |
|----------------------------------|---|
| <b>Plastics</b>                  | - PET preform heating in Stretch blow moulding Machines |
|                                  | - Powder coating curing.                                |
|                                  | - Resins Hardening, Rubber coating drying.              |
| <b>Adhesives</b>                 | - End polymerization.                                   |
| <b>Food</b>                      | - Pasteurization / Sterilization                        |
| <b>Paper Industry</b>            | - Humidity Control.                                     |
| <b>Industrial Drying</b>         | - Paint, varnishes, dyeing.                             |
| <b>Semi Conductor industries</b> | - Heating of wafers.                                    |
| <b>Printing</b>                  | - Printing ink drying in screen and offset machines.    |

## SHORT WAVE IR HEATERS / LAMPS ARE AVAILABLE IN DIFFERENT :

- ▶ Shapes and sizes
- ▶ Wattage ranges from 200 watts to 3000 watt & more.
- ▶ Voltage ranges from 110 volts to 440 volts - AC



TWIN TUBE LAMP



MOUNTING CLIPS

# Short Wave Quartz Infrared Heaters

## STANDARD LAMPS AVAILABLE

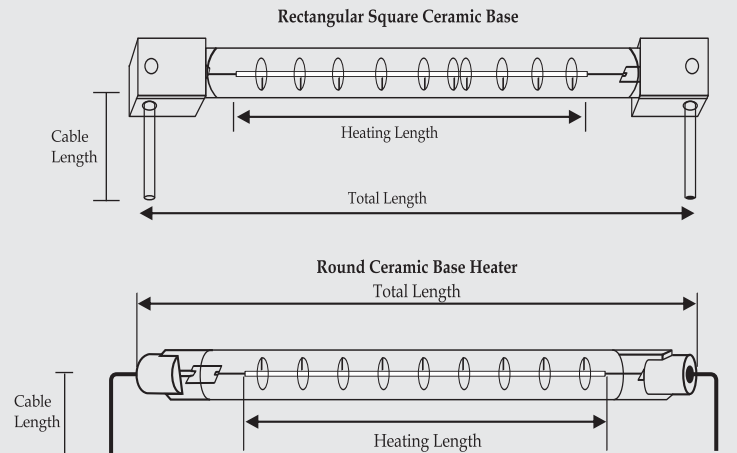
Sr. No	Total Length (mm)	Heating Length (mm)	Wattage (mm)	Voltage (V)	White Ceramic Reflector Coating	End Connection Type
1	212	160	500	240	Without Coating	Round
	212	160	1000	240	Without Coating	Round
	212	160	500	240	With Coating	Rectangular
2	348	254	1000	240	Without Coating	Round
	354	280	1000	240 / 415 V	With Coating	Rectangular
3	354	280	1500	240 / 415 V	With Coating	Rectangular
	354	280	2000	240 / 415 V	With Coating	Rectangular
	440	380	1500	400	With Coating	Rectangular
4	500	406	1500	240	Without Coating	Round
	628	558	2000	240 / 415 V	Without Coating	Round
5	628	558	1000	240	Without Coating	Round
	628	558	2000	240	With Coating	Rectangular
	628	558	1500	240	With Coating	Rectangular
6	628	558	1000	240	With Coating	Rectangular
	728	650	2500	240 / 415 V	Without Coating	Round
	875	765	3000	415	Without Coating	Round
7	950	890	2000	240	Without Coating	Round
	950	890	1000	240	Without Coating	Round
8	1120	1020	2000	240	Without Coating	Round



## ORDERING SPECIFICATIONS

- ▶ Total length in mm
- ▶ Heating length in mm
- ▶ Wattage
- ▶ Voltage
- ▶ Ceramic end connection - Square, Round, Rectangular
- ▶ Lead length in mm (Standard lead wire length at both ends = 300 mm)
- ▶ Coating available - Gold coating / Ceramic coating
- ▶ Customised lamps available on request.

## ORDERING DIAGRAM



ALL LAMPS TO BE MOUNTED ONLY IN HORIZONTAL POSITION.