

TYPE "G" INFRARED HEATER



SPECIAL FEATURES

- Low to medium radiant energy with maximum emitter temperature of 1000 degrees F.
- Flat solid surface, no reflectors, no waste of energy, no maintenance.
- Low cost, heavy duty, durable, rugged emitter face.
- Highest ratio of power input to usable radiant energy.
- Full radiant output maintained throughout its long lifetime.
- Standard sizes and wattages. Consult our technical staff for information and assistance.
- Special sizes can be designed for any type of equipment.

The Type "G" Heater is a low watt density unit, wide area, infrared heater module, that is easy to mount, wire and operate.

The Casso-Solar Infrared Heater, Type "G", is available from stock, in a selection of popular sizes.

With new product and process technology under continuous development, production equipment is required to give precise and flexible control over production quality, while operating efficiently with minimum maintenance. For over forty years, Casso-Solar Corporation has been providing our customers the competitive edge.

HIGH EFFICIENCY, LOW TO MEDIUM HEAT WITH THE BLACK RADIANT QUARTZ FACE

The Casso-Solar Infrared Heater®, Type "G", has a woven quartz cloth surface, finished with a special high temperature black coating for high emissivity. The quartz face has the properties of being transparent to the infrared energy generated within the module, over the usable wavelengths of 3.5-6.0 microns. This corresponds to emitter temperatures of up to 1000 degrees F (550 degrees C).

The quartz surface acts like a thermopane window, isolating the emitting source within, from the ambient surroundings, minimizing convection losses. Efficiencies of up to 80% can be realized in converting electrical power input to usable energy.

MATCHING THE HEATER EMISSION TO THE PRODUCT

Like all Casso-Solar Infrared Heaters® the Type "G" can be tuned to match the peak absorption point of the material to be processed. The special coil layout design provides uniform radiation on the product.

MAINTENANCE AND DOWNTIME MINIMIZED

The simple, compact and sturdy construction of the "G" heater allows it to be used in many applications. It does not require external reflectors, which need to be cleaned or replaced, and there is no reduction in radiant output over its life. The "G" heater is resistant to vibration and shock, due to its one piece bonded construction.

LOW COST WITH HIGH EFFICIENCY

The Casso-Solar Infrared Heater®, Type "G", is designed for low cost, low watt density applications such as screen printing and thermoforming. Standard sizes, wattages and voltages are available. As with all Casso-Solar Infrared Heaters®, quartz is the emitting material. Power consumption is minimized with high conversion of input energy to usable infrared output.

EASY TO CONTROL

Through use of either a fast cycling percentage timer or a time proportioning controller with closed loop feedback, the process can be accurately controlled and repeated. Power to the heaters can be provided through either magnetic or solid state contactors, and interfaced with either of the above control options.

Sales & Technical Information

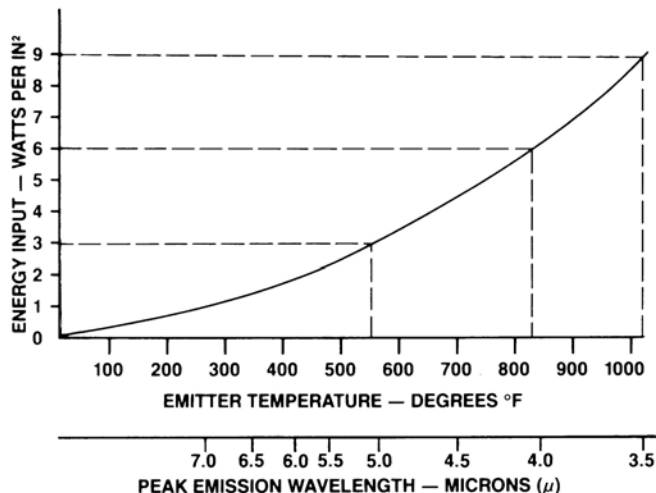
800-988-4455

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 Website: www.cassosolar.com
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230 US Route 202, P.O. Box 163, Pomona, NY 10970

TYPE "G" INFRARED HEATERS

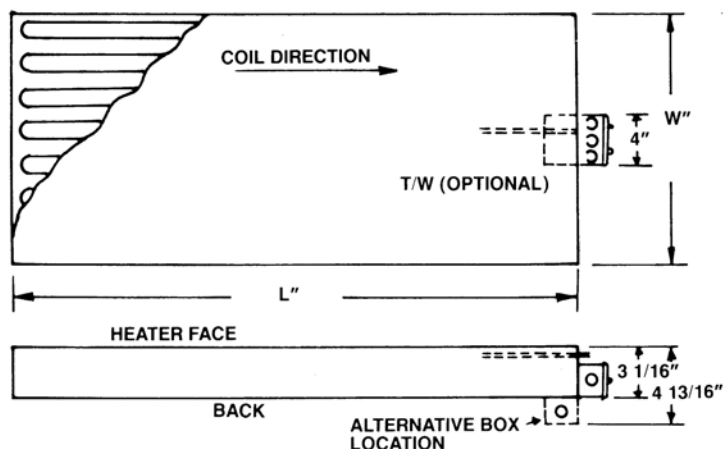
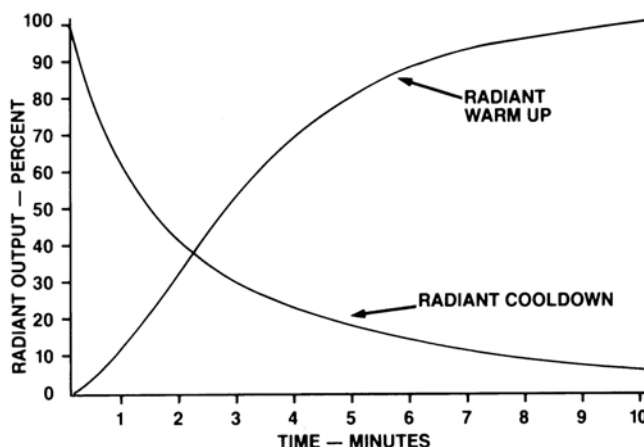


EMISSION OUTPUT CURVE

The emission output curve at left compares emitter temperature versus watt density and the corresponding wavelength emitted. For example, emitter temperature of 850°F, would correspond to a peak wavelength emission of 4.0 microns with a free air watt density of approximately 7 watts per square inch. The key to efficiency is to select the emitter wavelength that best matches the peak absorption of the product to be processed.

WARM-UP CURVE

The warm-up curve at right shows the response time of the Type "G" heater, in free air, from a cold start to full output; and from full output to a cooled condition. Warmup and cool down times will be affected by the operating environment.



| PART NO. APPROX. | SIZE | | WATTS | VOLTAGE | WT. |
|---------------------|------|---|-------|---------|-----|
| | A | B | | | |

| | | | | | |
|------------|-----|-----|------|--------------|-----|
| G2424375B1 | 24" | 24" | 3750 | 230, 1 phase | 30# |
| G1624350B1 | 16" | 24" | 3500 | 230, 1 phase | 20# |
| G1024220B1 | 10" | 24" | 2200 | 230, 1 phase | 15# |
| G0630155B1 | 6" | 30" | 1550 | 230, 1 phase | 10# |
| G0618100B1 | 6" | 18" | 1000 | 230, 1 phase | 6# |

G1212130B1 12" x 12" 1350 230, 1 phase 5#
Thermowells available on all sizes and are mounted on the end with the box. Order heater with suffix "T" on the part number.

All heater sizes are actual overall case dimensions. All heater cases are 3-1/16" deep. Terminal box may be mounted on the edge or side of heater. Customer to mount heaters by screwing into the case. Complete installation and operating instructions are provided with each heater.

SPECIAL SIZE HEATERS

The "G" heater can be custom designed in size, wattage, voltage and mounting configuration to your system specifications. Maximum watt density, 9 watts per square inch, maximum voltage is 600 volts. Please contact our Sales Department for custom applications.

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1-800-988-4455