

## Lightweight, Sturdy Radiant Heater Panel

The RAYMAX® 1120 radiant heater panel is lightweight, yet sturdy and durable. The emitter sheath is stainless steel with a black coating providing a highly efficient radiating surface. The heater's low mass allows rapid start-up and fast response to controllers.

The patented RAYMAX heater features 1 in. (25 mm) wide emitter strips which are individually replaceable for lower maintenance costs. Weighing only 5.5 lbs/ft<sup>2</sup> (26.8 kg/m<sup>2</sup>), the heater is easy to mount.

### Performance Capabilities

- Face temperature up to 1100°F (595°C) maximum
- Watt densities up to 20 W/in<sup>2</sup> (3 W/cm<sup>2</sup>) maximum
- Maximum voltage up to 480VAC
- UL® component recognized versions are available

### Features and Benefits

#### Replacement emitters

- Reduces cost

#### High temperature mica

- Isolates nickel chromium resistance wire, permitting longer heater life

#### High emissivity coating on emitter strips

- Improves radiant heating efficiency

#### 7/8 in. (22.2 mm) thick thermal insulation

- Backs the emitter strips to reduce backside losses

#### Uniform full surface heat source

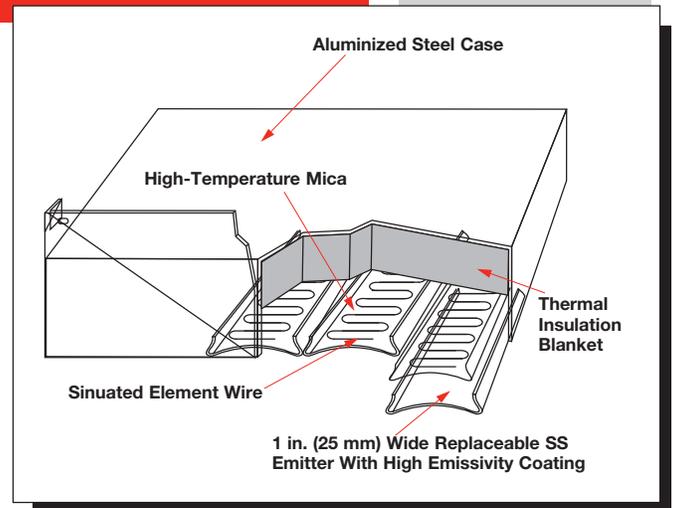
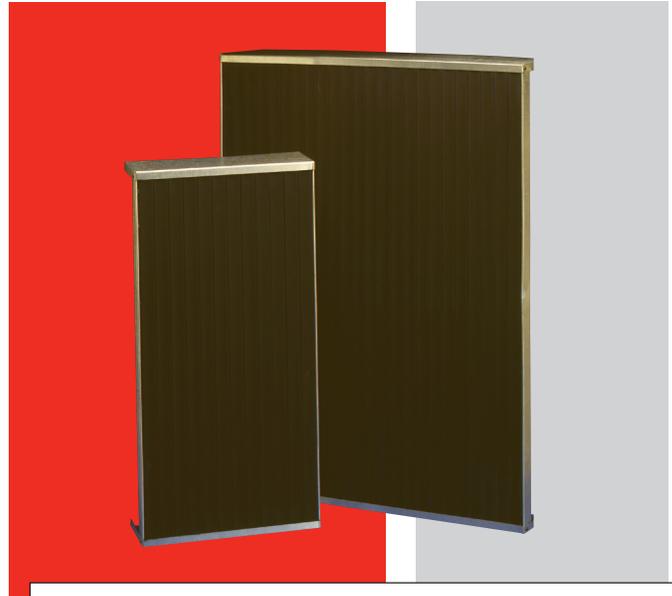
- Provides better, more even heat

#### Special requirements are easily met

- Assures availability of custom sizes and ratings

#### Next day shipment on RAPID SHIP heaters

- Provides quick delivery to meet customer's needs



### Typical Applications

- Thermoforming
- Textile drying
- Paint curing
- Powder coating fusing
- Shrink wrapping
- Circuit board soldering

## Sizes and Ratings

**Face Temperature:** 1100°F (595°C) max.

**Wattage:** Watt densities up to 20 W/in<sup>2</sup> (3 W/cm<sup>2</sup>)

**Voltage:** Customer specified up to 480V. Balanced 3-phase available on unit widths divisible by three.

**Note:** Small heaters may not be able to be built at high voltages. Contact your Watlow representative to discuss specific application requirements.

**Terminals:** Non-standard locations are available. Please specify.

**Tolerance:** ±1/16 in. (1.6 mm)

**Typical Peak Energy Wavelength:** 3-3.5 microns

**Note:** New designs require a minimum charge per design.

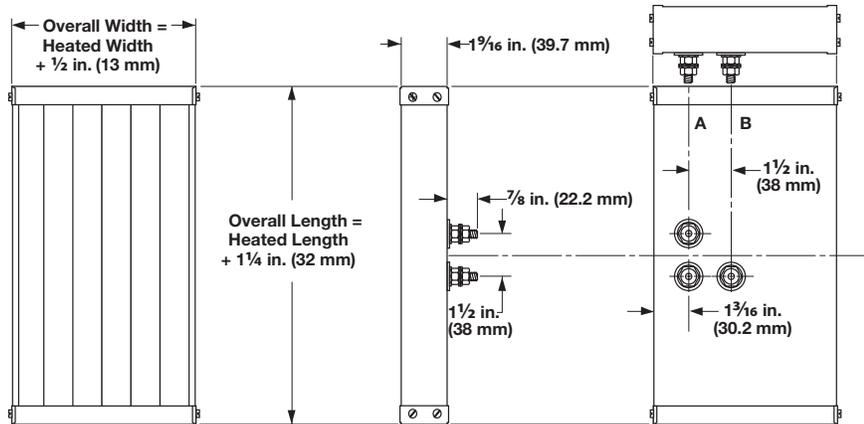
## Specifications

Heater Dimensions	Min.	Max.	Increments
Width: in. (mm)	1 (25)	24 (610)	1 (25.0)
Length: in. (mm)	6 (152)	72 (1829)	0.06 (1.5)
Area: in <sup>2</sup> (cm <sup>2</sup> )	6 (39)	864 (5574)	Any

**Note:** Less than maximum length x width may exceed the maximum area.

## Options

- Terminal box
- Thermowell
- Thermocouple welded to hot face
- Thermocouple pocket
- Mounting studs



Panel Overall Size in. (mm)		Panel Heated Size in. (mm)		Volts	Watts	Watt Density W/in <sup>2</sup> (W/cm <sup>2</sup> )	Approx. Net Wt. lbs (kg)	Delivery	Part Number
Width	Length	Width	Length						
6 1/2 (165)	25 1/4 (641)	6 (152)	24 (610)	240	2880	20 (3.1)	6 (2.7)	RS	P0624AX050
12 1/2 (318)	13 1/4 (337)	12 (305)	12 (305)	240	2880	20 (3.1)	6 (2.7)	RS	P1212AX030
12 1/2 (318)	25 1/4 (641)	12 (305)	24 (610)	240	5760	20 (3.1)	12 (5.4)	RS	P1224AX062
12 1/2 (318)	49 1/4 (1251)	12 (305)	48 (1219)	480 3-phase	11,520	20 (3.1)	24 (10.8)	RS	P1248AX073

## RAPID SHIP

- RS - Next day shipment

**Notes:** • Panels are equipped with a terminal box, a thermocouple well with bayonet adapter and mounting studs.

- Radiant panels must be properly applied for safe operation.
- Please contact your Watlow representative with the application before ordering.

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