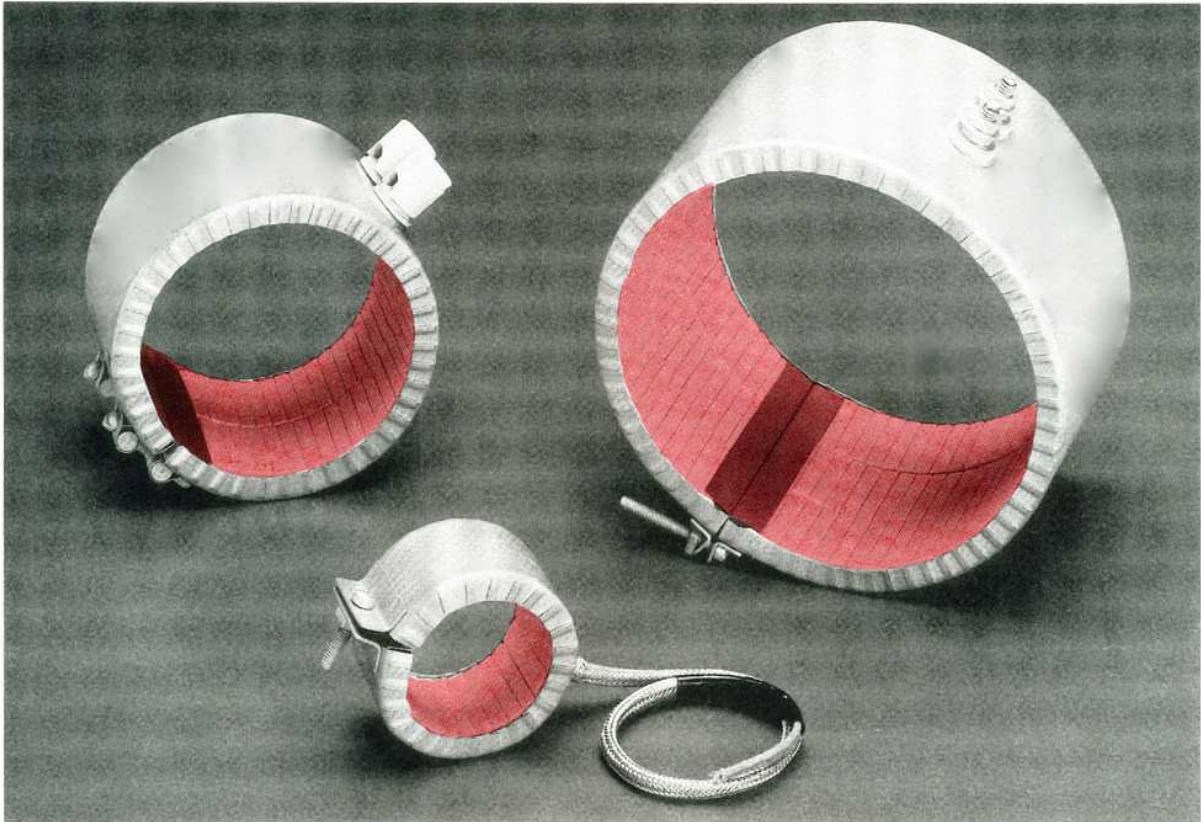


# UltraThin

Omega's High Performance Ceramic Heater  
For High Melt Resins



*Low Mass, High Temperature, High Watt Density  
Long Life – Energy Saving*



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# Omega "UltraThin" Ceramic Heaters

Omega's high performance heater band for processing high temperature engineering resins. The first improvement in ceramic heaters since the introduction of "Insulation Plus"™ by Omega in 1975.

"UltraThin" heater bands have the same basic construction as our standard ceramic heaters except they are much thinner and have a high ratio of thermal to electrical insulation. The thin ceramic insulators' used results in a lower mass construction, which improves response to control and minimizes temperature lag and overshoot.

Unexcelled as a high temperature barrel heater in any size.

The backside thermal insulation is highly efficient and results in minimal heat loss and lower sheath temperature. The "UltraThin" has averaged 100°F lower sheath temperature when tested against other high temperature heaters at 600°F cylinder temperatures.

The "UltraThin" without thermal insulation and with a perforated sheath is ideally suited for air cooled systems.

"UltraThin" heaters are constructed of all high temperature materials. The heater element itself is computer designed for maximum wire size which results in a long service life. Developed primarily for high

temperature, high watt density plastic processing machinery, this premium performance heater can be used in many other applications.

**Special Note:**

**These are completely flexible radiant heaters. Heavy clamping pressures are not required regardless of heater size.**

**No need for hinged, two piece, or expandable designs associated with mineral insulated (MI), mica or other conduction type heaters.**

## SPECIFICATIONS

<b>Wall Thickness</b>	1 <sup>1</sup> / <sub>32</sub> " (+1 <sup>1</sup> / <sub>32</sub> ", -.00)	<b>Insulation</b>	3 <sup>1</sup> / <sub>16</sub> " thick thermal insulation (ceramic fiber)
<b>Temperature</b>	Up to 1400°F	<b>Sizes</b>	Minimum ID 1 <sup>1</sup> / <sub>2</sub> " (38.1mm) - 1" wide and up
<b>Watt Density</b>	Up to 65W/Sq In (9.9 W/C <sup>2</sup> )	<b>Terminals</b>	Post Terminals Standard (10-24 Thread or 1 <sup>1</sup> / <sub>4</sub> -20 Thread)
<b>Voltage</b>	Up to 480 V (Single or three phase)	<b>Sheath</b>	Stainless Steel
<b>Resistance-Tolerance</b>	+10% -5%	<b>Lock-Up</b>	Flange or Barrel Nut Standard
<b>Wattage Tolerance</b>	+5% -10%	<b>Standard Gap</b>	1 <sup>1</sup> / <sub>4</sub> " when tightened
<b>Maximum Amperage</b>	20/Circuit		Metric sizes available

## OPTIONS

- A Armor Cable (BX)
- B Braid Over Leads
- C Plain Leads
- D Right Angle Armor
- E Right Angle Braid
- F Partial Coverage
- G T/C Hole (specify location)
- H Inner S.S. Liner
- I Ground Stud or Wire
- J Dual Voltage
- K Latch-Trunnion Lock-Up
- L Overlap on shell at gap
- M Standard Terminal Box
- N Low Profile (1" high) Terminal Box
- O Ceramic Terminal Caps
- P Quick Disconnect High Temperature Plugs

For other options consult factory

## WHEN ORDERING PLEASE SPECIFY:

- Quantity
- Inside diameter & width
- Voltage - on 2 piece bands we suggest each piece be rated at half the operating voltage; please specify total voltage
- Wattage - on 2 piece bands please specify total wattage
- Basic construction and options
- Serial no. (if known or previously ordered)
- Gap (if other than factory minimum)
- Lead length (if other than std. 12")