

# MaxiZone™

## MZ High Temperature Insertion Heaters

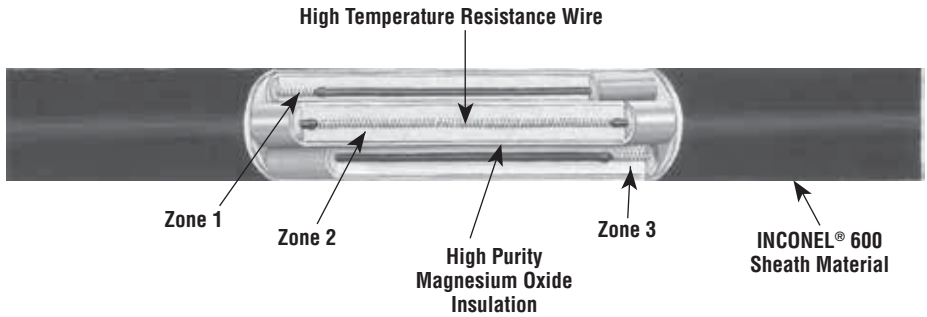
- 1500°F to 1800°F (815°C to 982°C)
- Inconel® 600 Sheath
- Exact, Uniform Temperatures with 2 or 3 Independently Controllable Zones
- Radiant Heat Transfer Allows Undersized Heaters for Easy Removal and Replacement
- Special Bending Capabilities
- Standard Diameter 0.495" (12.5 mm), 0.685 (17.4 mm) and 0.935" (23.75 mm) with Lengths of 18 Inches (457 mm) to 15 Feet (4572 mm)
- Quick Disconnect Plug and Jack

### Description

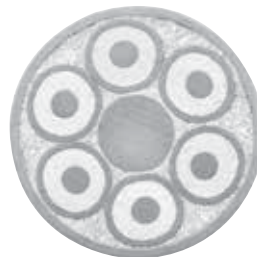
The MaxiZone® High Temperature insertion heaters produce continuous sheath temperatures to 2,000°F (1,095°C). They are designed to achieve precise, uniform temperatures with two or three independently controlled heating zones along the length of the sheath. Radiant heat transfer enables MaxiZone heaters to be smaller than the openings in which they are to be placed for easy insertion and removal.

### Applications:

- Zone control in high temperature platens
- Titanium or carbon fiber hot forming process (super plastic)
- Aerospace, aircraft manufacturing
- Metal die casting
- Super heated gas
- Fluidized beds catalytic reaction



MaxiZone Plug for 2 or 3 zone application.\*



Two to Six separate metal sheathed elements are arranged and swaged in place in an INCONEL® 600 Outside Sheath

### Specifications

Temperature..... 1,500° - 1,800°F (815°-982°C)  
 Avail. Diameters.....495 ± .005 in.  
 (12.5 ± .127mm) (Single Zone Only)  
 .685 ± .005 in. (17.4 ± .127mm)  
 .935 ± .005 in. (23.75 ± .127mm)  
 Other Diameters available. Consult Factory.  
 Lengths..... 18 in-15 ft. (457.2 -4,572 mm) ±3%  
 Heated Length  
 Tolerance..... Consult Factory  
 Sheath Material ..... INCONEL® 600  
 Resistance Tolerance ..... +10% / -5%  
 Wattage Tolerance..... +5% / -10%  
 Power..... 30 to 50 W/in<sup>2</sup>  
 Voltage..... 110 to 480 Vac

Part #	Zones	No. of Wires	Max. Voltage	Max. Amps
PCW-7183-1	2	4	600	30
PCW-6570P	3	6	600	30

\*Other plugs are available for single zone applications.

Heater Diameter	Platen Hole Size	Minimum Heated Length Per Zone	Minimum Heated Length	Maximum Heated Length
.495" (12.5 mm)	.563 or .625" (14.3 or 15.9 mm)	—	8" (203.2 mm)	170" (4318 mm)
.685" (17.4 mm)	.75 or .875 (19.05 or 22 mm)	8" (203.2 mm)	8" (203.2 mm)	172" (4369 mm)
.935" (23.75 mm)	1 or 1.25" (25.4 or 31.75 mm)	8" (203.2 mm)	8" (203.2 mm)	165" (4191 mm)

\*.495 diameter available in single zone only

\*\* Overtemperature thermocouple option for .685 and .935 diameters only