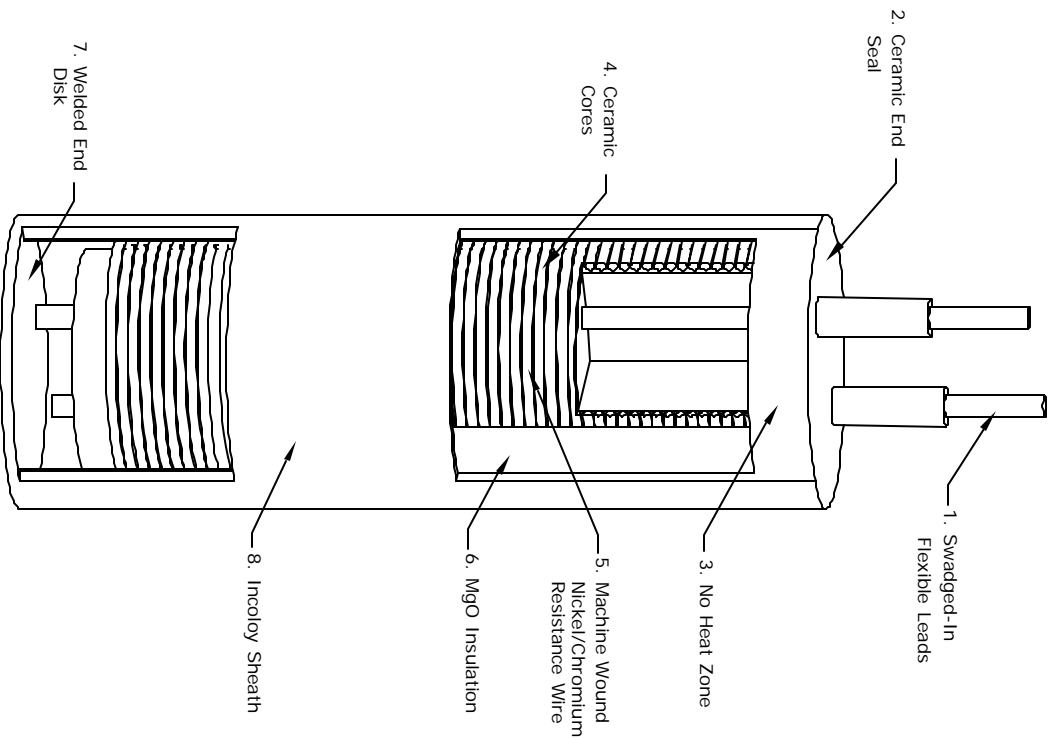


HIGH-DENSITY CARTRIDGE HEATERS

Megawatt high-density cartridges are round tubular heaters with electrical terminations on one side. These dependable heaters are made to withstand tough industrial usage. With a tolerance of ± 0.002 " on their outside diameter to secure a tight fit inside receptacle holes, and rock hard compaction of MgO insulation through swaging, these heaters can attain 1500°F sheath temperature. Megawatt cartridges are available with various termination styles and mounting attachments.



In high-density cartridges heaters the resistance wire loops are positioned as close as possible to the outside shell. Because the MgO powder insulation around these loops is compacted by swaging and transformed into a very hard medium, heat transmission is very efficient. Megawatt cartridges can have up to 200 W/in² watt densities. Cartridges are usually supplied usually supplied with lead wires.

The attachment of the leads to the central pins is done internally, in a 3/8" cold section. In excessively hot applications the length of this cold section could be increased.

To facilitate installation and avoid excessive air pockets, cartridges are made 0.004" less than nominal size of the receivable hole with a tolerance of ± 0.002 ".

Megawatt cartridges can be dual-voltage, three-phase, and/or be supplied with a ground terminal. With ten different terminal styles, mounting attachments and various optional features, Megawatt high-density cartridges are widely used in numerous high temperature applications.