
Watt-Flex® Split-Sheath Cartridge Heaters



The Leading Technology in Cartridge Heaters

- Improves Heat Transfer
- Reduces Maintenance Costs
- Reduces Cost of Process Heating

Dalton

Continuous Heating Coil

- Eliminates cold sections
- Even heat profile
- One element → On/Off operation



WATT-FLEX® SPLIT-SHEATH CARTRIDGE HEATER



CONVENTIONAL CARTRIDGE HEATER

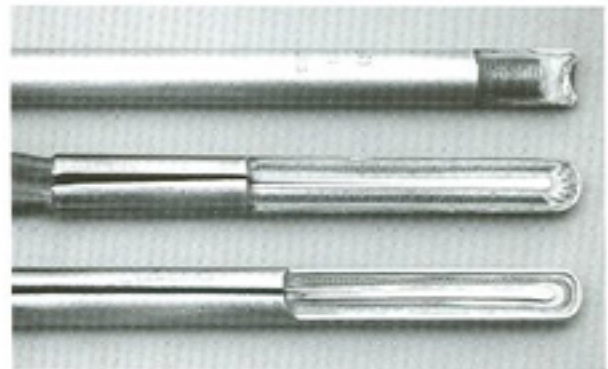
Tip Options

- Cool tip
- Hot tip

CONVENTIONAL TIP

WATT-FLEX COOL TIP

WATT-FLEX HOT TIP



CONVENTIONAL HEATERS WARP



WATT-FLEX HEATER HALVES EXPAND INDEPENDENTLY

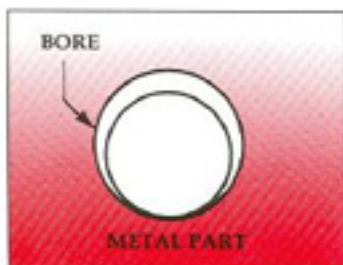
Compaction of MgO

Denser/more uniform for

- Better dielectric
- Better heat transfer
- Longer heater life

Expansion when energized

- Wall-to-wall contact with bore
- Use in oversized bores



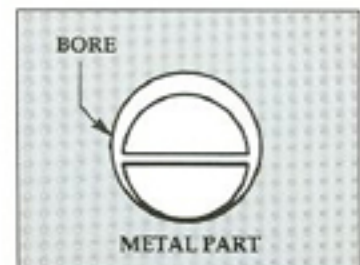
ENERGIZED CONVENTIONAL CARTRIDGE HEATER



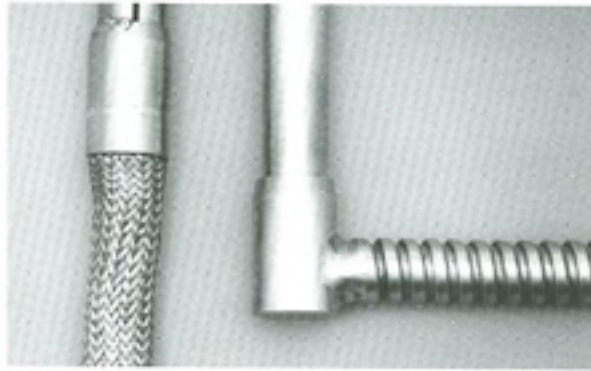
ENERGIZED WATT-FLEX HEATER

Contraction when de-energized

- Warranted removal



DE-ENERGIZED WATT-FLEX HEATER

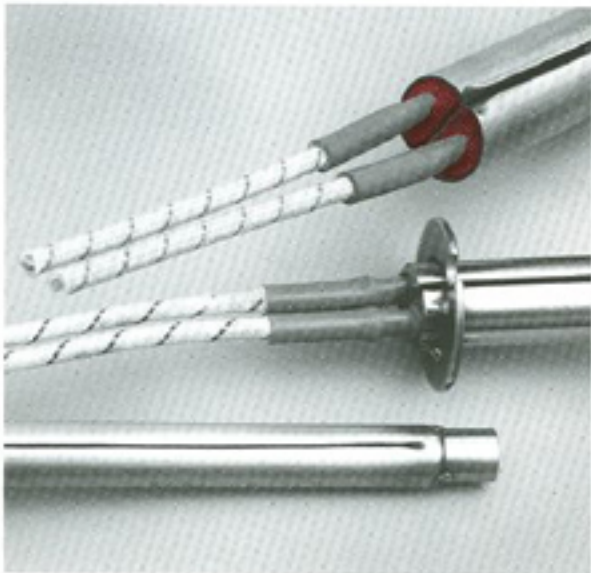
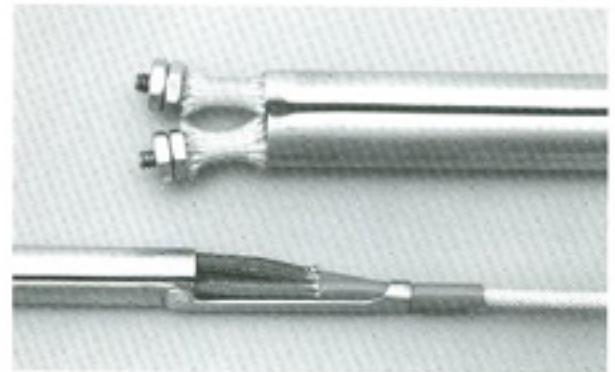


Heater Accessories

- Straight or right-angle headers
- Stainless steel flexible conduit
- Stainless steel braid

Lead Modifications

- Standard or high-temperature leads
- Threaded post terminals
- Clip support
- Quick disconnect
- Ceramic leads

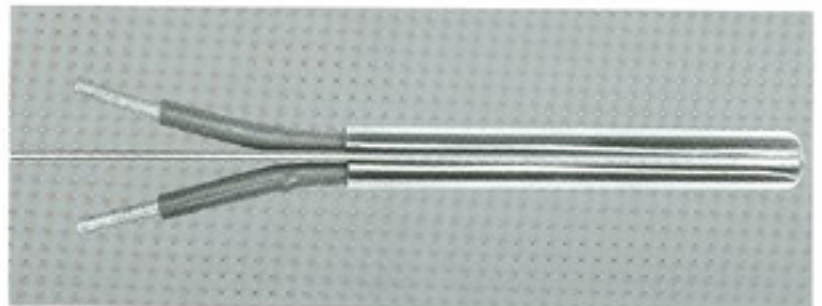


Heater Modifications

- Contaminant protection: RTV or ceramic potting
- Stainless steel flange
- Extra cold section at terminal end
- Distributed wattage
- Integral ground wire
- Puller end plug

External Thermocouple

- Replaceable thermocouple
- Temperature sensing of exterior sheath for greater accuracy
- Position of sensing determined by thermocouple insertion



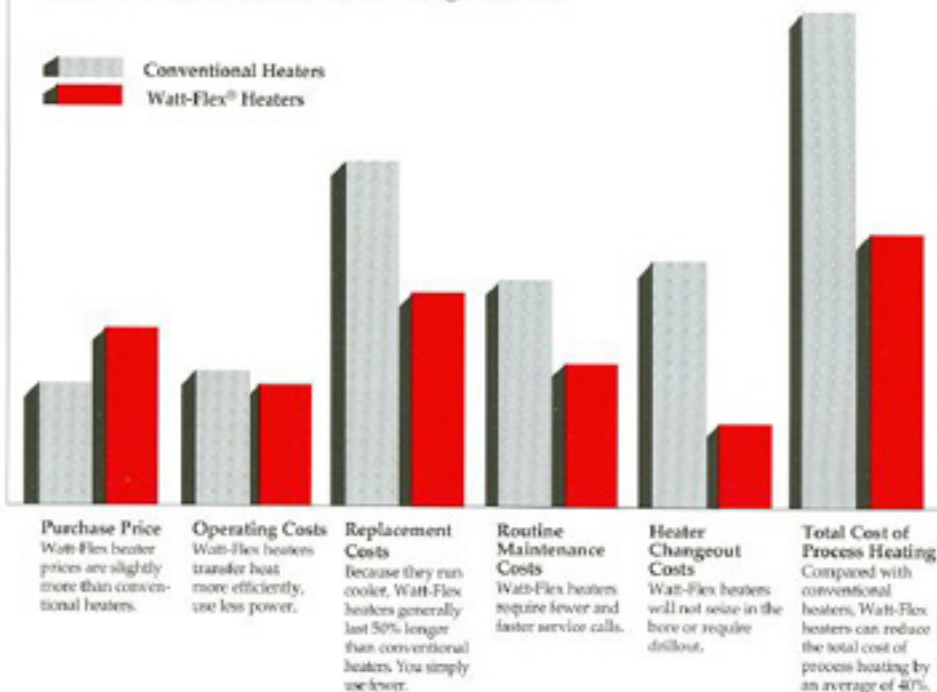
Watt-Flex® Heaters Reduce The Cost of Process Heating

Watt-Flex Cartridge Heaters run more efficiently, use less power, last longer, and are much simpler and faster to replace than conventional cartridge heaters. The chart at right shows how Watt-Flex heaters reduce the cost of process heating.

The Cost of Process Heating

Watt-Flex vs. Conventional Cartridge Heaters

■ Conventional Heaters
■ Watt-Flex® Heaters



Knowledgeable Field Salespeople

Dalton Electric has highly knowledgeable, factory-trained salespeople to assist you in solving your most demanding process heating problems.

In addition, technical/customer service engineers are also on hand for telephone consultation. Just call: (978) 356-9844.

Fast, Responsive Delivery

Normal delivery for Watt-Flex heaters is 4 weeks. However, for rush orders, Dalton Electric will build and ship heaters anywhere within the United States or Canada in as little as 1 week.

With distributors throughout North America, Europe, and the world, many orders can be filled directly from local stock.

Dalton

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