

Multiple Coils and Thermocouples Packaged in One Sheath for Quick Installation

The MULTICOIL™ tubular heater packages a thermocouple inside of a heater with one or more resistance coils. Watlow's patented technology enables the heater to sense its internal temperature accurately and consistently.

As the first tubular heater with a three coil, three-phase capability, it offers a compact package solution while delivering the full power needed. There is also a cost savings in using a single heater package versus using three separate heaters previously required to perform the same job.

Performance Capabilities

- Watt densities up to 60 W/in² (9.3 W/cm²)
- Incoloy® sheath temperatures up to 1200°F (650°C)
- 304 and 316 stainless steel sheath temperatures up to 1200°F (650°C)

Typical Applications

- Foodservice
- Process
- Medical
- Milled groove
- Plastics
- Plating
- Oven heating
- Semiconductor



Features and Benefits

Three-phase capability

- Results in one element versus three, lower amperage versus single-phase solutions, reduced installation time and lower overall cost

Internal thermocouple

- Allows responsive and accurate, internal, high-limit sensing and reduced assembly costs
- Offering ANSI Type K for higher efficiency

Single-ended (Sensor not available with this package)

- Allows for mounting in a ½ inch NPT or ¾ inch NPT fitting with three-phase capability

Multiple coil operations

- Reduces inventory by allowing dual voltage capability

Versatile forming capabilities

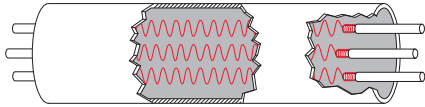
- Forms into many configurations—51 standard formations

Internal construction with sensor

- Allows space savings because drilling and tapping of flange is unnecessary; plus, the interior thermocouple eliminates contamination buildup around the external sensing tip, reducing the possibility of false readings

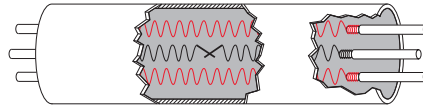
Options

Option A



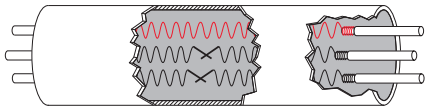
3-phase tubular, 0.475 and 0.490 inch diameter.

Option B



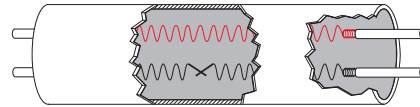
1-phase tubular with two resistance wires and one thermocouple, 0.475 and 0.490 inch diameter.

Option C



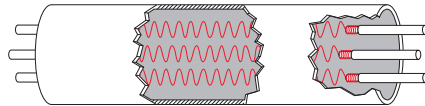
1-phase tubular with one resistance wire and two thermocouples, 0.475 and 0.490 inch diameter.

Option D



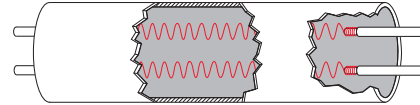
1-phase tubular with one resistance coil and one thermocouple, 0.375, 0.430, 0.475 and 0.490 inch diameter.

Option E



1-phase tubular with three different one phase circuits, 0.475 and 0.490 inch diameter.

Option F



1-phase tubular with two resistance coils, 0.375, 0.430, 0.475 and 0.490 inch diameter.

Specifications

Termination Styles

- Lead wires 392°F (200°C) Sil-a-Blend® or 482°F (250°C) GGS.

Moisture Seals (Required)

Moisture seal options include:

- Epoxy with temperature rating up to 356°F (180°C). Typical applications include water/oil immersion.
- Lavacone with temperature rating up to 221°F (105°C). Typical application includes air heating.
- High-temperature ceramic rated up to 2800°F (1538°C).
- Contact your Watlow representative for other moisture seal options.

Mounting options

- Mounting brackets
- Locator washers
- Mounting collars
- Water-tight bulkheads

Maximum trim length

- 237 in. (6020 mm), heater designs with trim length greater than 120 in. (3048 mm) must be reviewed by your Watlow representative.

Sheath materials

- Incoloy®, 304 and 316 stainless steel is used. Contact a Watlow representative for other sheath material options.

Internal thermocouple options

- Type K is used. Contact a Watlow representative for Type J thermocouple options.

Watlow® is a registered trademark of Watlow Electric Manufacturing Company.

MULTICOIL™ is a trademark of Watlow Electric Manufacturing Company.

Sil-A-Blend® is a registered trademark of Radix Wire Company.

Incoloy® is a registered trademark of Special Metals Corporation.

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