

MULTICOIL™ Tubular Heaters

Multiple Coils and Thermocouples Packaged in One Sheath for Quick Installation

The tubular element with multiple coils and/or thermocouples inside one sheath from Watlow® answers the need for a versatile, innovative tubular heater. Watlow's patented method of packaging a thermocouple inside of a heater with one or more resistance coils, gives the ability to sense a heaters' internal temperature accurately, every time.

Moreover, this is the first tubular heater in the industry with three-phase capability. The three coil, three-phase heater will offer a compact package solution while delivering the full power required in a compact heater package. Previously three separate heaters would have been required to do the same job; therefore Watlow's MULTICOIL™ heater capabilities save money.

Performance Capabilities

- Watt densities up to 60 W/in² (9.3 W/cm²)
- Sheath temperatures up to 1600°F (870°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, reduced installation time and lower overall cost

Single-ended (Sensor not available with this package)

- Allows for mounting in a 1/2 inch NPT or 3/4 inch NPT fitting with three-phase capability

Multiple coil operations

- Reduces inventory by allowing dual voltage capability

Versatile forming capabilities

- Forms into many configurations

Internal construction with sensor

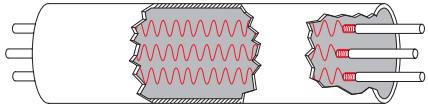
- Allows space savings because drilling and tapping of flange is unnecessary; plus, the interior thermocouple eliminates contamination buildup around the external sensing tip, reducing the possibility of false readings



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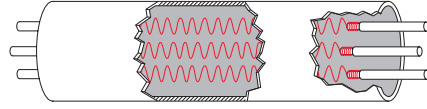
Options

Option A



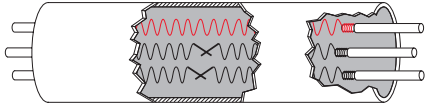
3-phase tubular, 0.475 and 0.490 inch diameter.

Option E



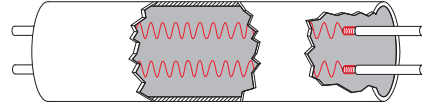
1-phase tubular with three different one phase circuits, 0.475 and 0.490 inch diameter.

Option C



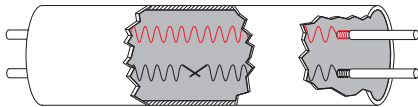
1-phase tubular with one resistance wire and two thermocouples, 0.475 and 0.490 inch diameter.

Option F



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

Option D



1-phase tubular with one resistance coil and one thermocouple, 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 a 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

- Alloy 600, 800, 840, 304 and 316 stainless steel, 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.

To be automatically connected to the nearest North American Technical Sales Office:

1-800-WATLOW2 • www.watlow.com • inquiry@watlow.com

International Technical Sales Offices: Australia, +61 3 9335 6449 • China, +86 21 3532 8532 • France, +33 1 41 32 79 70
Germany, +49 (0) 72 53 / 94 00-0 • India, +91 40 6661 2700 • Italy, +39 024588841 • Japan, +81 3 3518 6630 • Korea, +82 2 2628 5770
Malaysia, +60 3 8076 8745 • Mexico, +52 442 217 6235 • Singapore, +65 6773 9488 • Spain, +34 91 675 12 92
Taiwan, +886 7 288 5168 • United Kingdom, +44 (0) 115 964 0777