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 equipment
• 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

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
**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
- 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.