

Multiple Coils and Thermocouples Packaged in One Sheath for Quick Installation

Looking for a customized, yet reasonably-priced tubular heater with a built-in thermocouple for accurate temperature measurement?

Then call Watlow today. We'll give you more options with fast turnaround times.

Watlow's new tubular element with multiple coils and/or thermocouples inside one sheath answers your need for a versatile, innovative tubular heater. Our new, patent-pending method of packaging a thermocouple inside of a heater with one or more resistance coils, gives you 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 lower amperage 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 new multicoil heater capabilities save you money.

Need Options? We have the options you're looking for...

Watlow has the capability to put up to two coils in a 0.375 or 0.430 diameter heater and up to three coils in a 0.475 or 0.490 diameter heater. Any one or more of these coils can be a resistance wire or a thermocouple. The bending formations are virtually limitless; while mounting options are similar to other Watlow tubular heaters. The three-phase multicoil heaters can be single ended with three leads for three-phase wye hook up. Watlow recommends using an epoxy moisture seal or silicone-based seal.

Watlow's multicoil heaters are available in all standard materials such as Incoloy®, 304 and 316 stainless steel, and can be formed into almost any configuration. Our five thermocouple and/or coil options for multicoil tubular configurations will meet most requirements; however, we are always interested in discussing the use of different materials or changing the number of coils and thermocouples.

Applications

- Process
- Medical
- Plastics
- Semiconductor
- Milled groove
- Plating
- Oven heating
- Food service



Features and Benefits

Three-phase capability

- Only one element required versus three as in the past, lower amperage, reduces installation time and overall cost

Internal thermocouple

- High-limit sensing internal to heater, no additional parts required reducing assembly cost, extremely responsive and accurate

Single ended

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

Multiple coil options

- Allows for dual voltage capability to reduce inventory

Versatile forming capabilities

- Can be formed into virtually any configuration

Internal construction

- Space savings, drilling and tapping flange unnecessary
- Interior thermocouple eliminates contamination buildup around the external sensing tip
- Reduces the possibility of false readings due to buildup



WATLOW

HAN-COIL-119

Watlow Industries

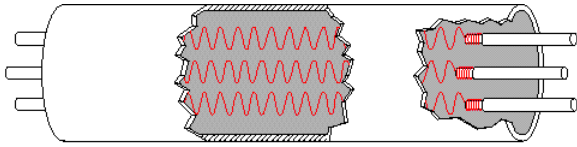
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Incoloy® is a registered trademark of the Inco family of companies.

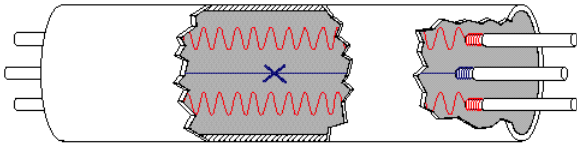


Options

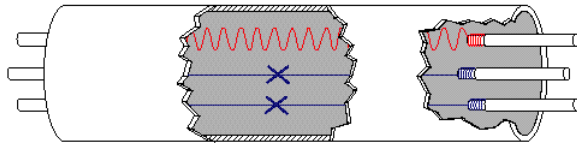
A) 3-phase tubular, 0.475 and 0.490 diameter.



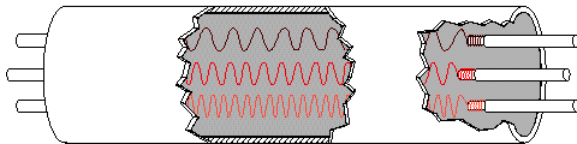
B) 1-phase tubular with two resistance wires and one thermocouple, 0.475 and 0.490 diameter.



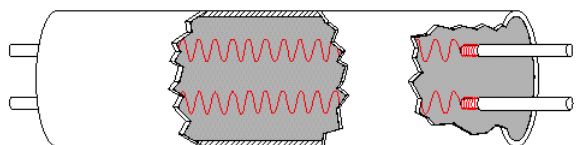
C) 1-phase tubular with one resistance wire and two thermocouples, 0.475 and 0.490 diameter.



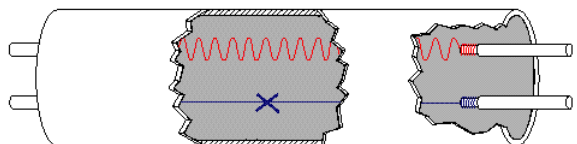
D) 1-phase tubular with three different one phase circuits, 0.475 and 0.490 diameter.



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



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



U.S. Patent Pending

Sil-A-Blend™ is a trademark of Radix Wire Company

Additional Specifications

- Termination style is currently limited to lead wires 200°C Sil-A-Blend™ or 250°C GGS.
- Moisture seals are required.
 - Options:
 - Standard epoxy with temperature rating to 266°F. Typical applications include water/oil immersion.
 - Lavacone with temperature rating to 300°F. Typical application includes air heating.
 - High-temp ceramic rated to 2800°F.
 - Consult factory for other moisture seal options.
 - ULTRAGARD with temperature rating to 700°F (375°C).
- Mounting options include:
 - Mounting brackets
 - Locator washers
 - Mounting collars
 - Water-tight bulkheads
- Maximum trim length is 237 inches. Heater designs with trim length greater than 120 inches must be reviewed with factory.
- Sheath materials:
 - Incoloy®
 - 304 and 316 stainless steel
 - Consult factory for other sheath material options.
- For internal thermocouple options, Type K is used. Consult factory for Type J thermocouple options.

Your Authorized Watlow Distributor Is:

United States Sales Offices: Atlanta/Greenville, (770)908-9164 • Austin, (512)249-1900 • Charlotte/Columbia, (704)541-3896 • Chicago, (847)458-1500 • Cincinnati, (513)398-5500 • Cleveland, (330)467-1423 • Dallas, (972)422-4988 • Denver, (303)798-7778 • Detroit, (248)651-0500 • Houston, (281)355-6015 • Indianapolis, (317)575-8932 • Kansas City, (913)897-3973 • Los Angeles, (714)935-2999 • Maryland/Virginia, (410)840-8034 • Minneapolis, (612)431-5700 • Nashville, (615)264-6148 • New England, (603)882-1330 • New York/New Jersey/Philadelphia, (215)345-8130 • New York, Upstate, (716)438-0454 • Orlando, (407)351-0737 • Phoenix, (602)708-1995 • Pittsburgh, (412)323-0548 • Portland, (503)245-9037 • St. Louis, (314)878-4600 • Sacramento, (707)425-1155 • San Diego, (760)728-9188 • San Francisco, (408)980-9355 • Seattle, (425)222-4090 • Tampa/St. Petersburg, (813)926-3600 • Tulsa, (918)496-2826 • Winston Salem/Raleigh, (336)766-9659 • Wisconsin, (414)723-5990

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