

Syringe Heater

Drug Delivery/Syringe Heaters Reduce Temperature Variation and Deliver Reliable Results

Watlow® syringe heaters were developed specifically to match the unique needs of medical injection applications. Fluid and drug delivery that maintains precise liquid temperatures and reduces fluid viscosity maximizes patient comfort and decreases risk. Body temperature injections are more easily introduced, particularly for patients in a frail or distressed condition. Used in contrast delivery system applications for angiography and CT scanning, Watlow syringe heaters maintain temperature consistency and reduce viscosity variation to increase diagnostic accuracy.

Flexible and adaptable, Watlow's syringe heaters deliver superior operational performance and long life and can be customized to meet most original equipment manufacturer (OEM) requirements.

The Watlow syringe heater is available in two configuration types with an optional, repeatable temperature sensing controller. The silicone/wire configuration accommodates varying syringe size needs. The translucent, high-tech laminate construction of the polycarbonate/foil design enables fluid levels and air bubbles to be easily viewed and monitored. Its smooth outer surface and radius on all inside corners facilitate easy cleaning.

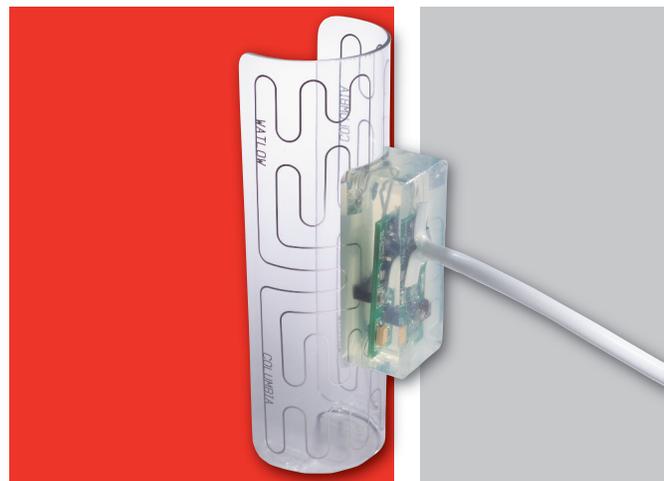
An overmold design houses the optional electronic controller and/or temperature sensor to allow trouble-free servicing and extend heater life. The overmold can be modified and color matched for a seamless, integrated appearance.

Specifications

Silicone/Wire and Polycarbonate/Foil

- Length: 5 in. (127 mm) max.
- Typical diameter: 2 in. (50 mm) to 6 in. (150 mm)*
- Voltage: dependent on application, over 48V may impact agency approvals
- Control accuracy: $\pm 5^{\circ}\text{F}$ ($\pm 3^{\circ}\text{C}$)
- Max. operating surface temperature: 185°F (85°C)
- Approximate control pod dimensions: 1 x 1 x 2.75 in. (25 x 25 x 70 mm)*
- Cord pull strength: to 20 lbs*

* Dependent on design requirements



Features and Benefits

Long operational life

- Improves system reliability
- Reduces equipment down time—minimizes the need to reschedule procedures

Two heater configurations provide flexibility and adaptability

- Provides maximum flexibility to accommodate various syringe sizes (silicon wire)
- Provides high tech look and functionality (polycarbonate/foil)

Customizable to most OEM requirements

- Allows over-mold to be modified and color matched for a seamless, integrated appearance

Optional precise, repeatable temperature sensing control

- Maximizes patient comfort
- Minimizes patient risk
- Increases the consistency of test results by eliminating temperature and viscosity variations
- Improves product life versus bimetal thermostats



COL-SYR-1210

Watlow® is a registered trademark of Watlow Electric Manufacturing 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 3381 0188 • France, +33 1 41 32 79 70
Germany, +49 (0) 72 53 / 94 00-0 • 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

©2004, 2010 Watlow Electric Manufacturing Company, all rights reserved.