W A T L O

Guick Ship • One to three day shipment.

Cable Heaters

STARFLOW Circulation Heater

Throughout many steps in the semiconductor manufacturing process, Watlow cable circulation heaters help to improve process time and operating efficiency. Using clean, hot gases reduces wafer drying time. Flameless dry heat efficiently solders and desolders electronic circuits and boards. Heated gas streams quickly dry and cure circuit boards without using a large baking oven, saving precious floor space. Watlow's STARFLOW circulation heater is specifically designed to meet the requirements of these applications.

The STARFLOW circulation heater is engineered to heat a flowing gas stream up to temperatures of 1400°F (760°C). The 316L stainless steel chamber houses a small diameter sheathed element, which allows for quick response to both heat up and cool down cycles. Watlow's starwound coiled cable heater provides extremely efficient and reliable heating by maximizing the contact area of the gas or fluid with the element.

Because the element is sheathed, the unit can operate in gas streams that require a clean environment as well as atmospheres that contain contaminants and moisture. This provides superior performance compared to units with internally exposed or open element wires.

Features and Benefits

- Small diameter heater allows for quick response times.
- Internal star wound heater element provides fast, efficient heating.
- Sheathed element can run in clean or impure streams.
- Flexibility in configurations allows for adaptablity to any process.
- **316L stainless steel construction** is rugged and corrosion resistant.
- Electropolishing available on all wetted surfaces to reduce particulate contamination.
- Thermocouple Type J or K options provide precise control and high limit safety.
- Replaceable thermocouple and heating element reduces replacement costs.
- Shipment from stock reduces downtime.

Applications

- Semiconductor processing
- Curing and drying
- Electronics
- Heat shrinking
- Thermal forming/sealing

steps in the anufacturing

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Cable Heaters

F.O.B.: St. Louis, Missouri



Viton® and Teflon® are registered trademarks of E.I. du Pont de Nemours & Company.

Т = Teflon[®] encapsulated Viton[®] (392°F/200°C)

= Aflas® (446°F/230°C)

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Availability