



Utility Voltage

HTK-HEAT TRACE KIT

The Marley HTK heat trace kit is provided for fluid cooler recirculation pumps to protect the frame of the spray pump in regions where freezing conditions are expected. The heat trace cable is factory installed on the pump casing and factory wrapped with an insulating blanket. The heat trace cable is furnished with an electrical junction box typically mounted on the vertical recirculation pump piping. Required voltage from a remote source to power the heat trace is a 2 wire plus ground feeder at 120 VAC single phase 15 amps wired to the junction box.

SEQUENCE OF OPERATION

The heat trace cable is automatically self-regulating therefore a thermostat for temperature control is not required. With 120 VAC applied to the cable the current being drawn through the cable will increase as the ambient temperature around the cable decreases. As more current is drawn the cable generates additional heat then decreases current and heat as the ambient temperature around the cable increases.



NOTE

- 1 Heat trace cable is located under the silver insulated blanket wrapped around the pump casing.
- 2 Field power wiring is connected to terminal points located inside the grey junction box.
- 3 A 15 amp feeder breaker provides adequate power for circuit.



Self-regulating heat trace cable provides safe, reliable heat tracing for freeze protection. The freeze protection cable is constructed of a self-regulating polymer core that varies its output along its entire length, saving energy and eliminating hot spots along the heated surface.

The cable features a semiconductive polymer core whose electrical resistance varies with temperature. When process temperature drops, the core's heat output increases—conversely, as process temperature rises, heat output decreases.



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Frequently Asked Questions

- Q** Is a thermostat supplied or required?
- A** A thermostat is not supplied nor is it required. The heat trace cable is self-regulating with voltage applied.
- Q** How much current does the cable draw?
- A** The heat trace cable will not draw more than 3 amps. The amount of current drawn is dependent on the ambient temperature surrounding the cable.
- Q** Who furnishes power for the cable?
- A** The power is typically 120 VAC and would be furnished by the customer or may be furnished from a power circuit located inside a Marley control panel.
- Q** Is this a two wire circuit?
- A** Two wires and a ground are required.
- Q** How are the two wire ends terminated?
- A** At one end two wires are connected to terminal point connectors inside the junction box. The opposite two wire ends are terminated in a dead end fitting supplied and installed by Marley.
- Q** Does this circuit require ground fault protection?
- A** Typically this circuit does not require ground fault protection per guidelines in National Electric Code article 427.22
- Q** Does the cable meet electrical standards
- A** Yes, the cable meets UL, CSA and FM standards

SPX COOLING TECHNOLOGIES, INC.

7401 WEST 129 STREET
OVERLAND PARK, KS 66213 USA
913 664 7400 | spxcooling@spx.com
spxcooling.com

TECH-HTK-17 | ISSUED 9/2017
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