

Datasheet

RIMCO Rain Gauge Heater Option

Thermostatically Controlled Heating for Cold Climate Operation

Overview

The RIM-HOPT is an internally integrated, thermostatically controlled heating element engineered to prevent the accumulation of ice and snow within the funnel, siphon, and internal components of the RIMCO rain gauge series. By maintaining above-freezing internal temperatures, the system ensures reliable precipitation measurement in cold and sub-zero environments, mitigating data loss due to ice blockages. Designed exclusively as a factory-installed option for the RIMCO rain gauges, the RIM-HOPT is delivered fully integrated and ready for immediate deployment—requiring no additional assembly or configuration.

Cold Environment Performance

The RIM-HOPT is optimized for reliable functionality in extreme cold, operating effectively in temperatures below -30°C . Its built-in thermostatic control activates the heating element when ambient temperatures drop below $+5^{\circ}\text{C}$ ($+41^{\circ}\text{F}$) and deactivates it at approximately $+6^{\circ}\text{C}$ ($+43^{\circ}\text{F}$), maintaining thermal efficiency and protecting mechanical components from freezing.

Key Features & Benefits

- Operational in environments as cold as -30°C
- Durable, long-life silicone construction
- Fully automatic operation
- Thermostatically controlled for temperature-responsive activation
- Heated funnel ensures melting of snow and ice
- Internal jacket heater prevents freezing of tipping bucket mechanisms

Technical Specifications

Operational Temperature -30°C to $+70^{\circ}\text{C}$ (-40°F to $+158^{\circ}\text{F}$)

Supply Voltage 12V* or 24V* AC/DC (48W max)
* Specify operating voltage at time of order.

Power Cable Each unit comes fitted as standard with 2 meters of two-conductor shielded cable^
^Specify desired cable length at time of order.

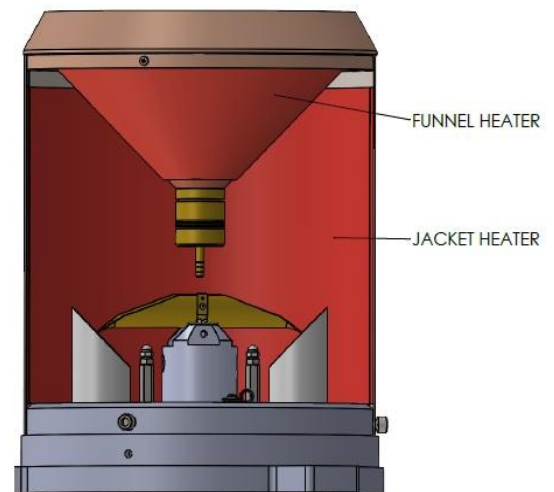


Photo Courtesy of the Australian Government - Bureau of Meteorology.

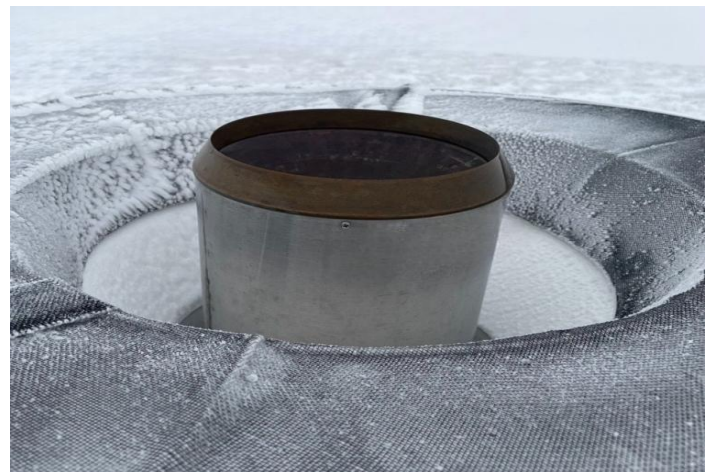


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