

# Heat Trace Controller Comparison

	<b>Frio S1-A</b>	<b>Chromalox ITC1</b>
<b>Voltage</b>	120-277 VAC 50/60 Hz.	120-277 VAC 50/60 Hz.
<b>Current</b>	30 A	40 A
<b>Relay Type</b>	Double-pole Mechanical	SSR
<b>Enclosure</b>	NEMA 4X, IP67	NEMA 4X, IP66
<b>Dimensions</b>	6.29in x 7.55in x 3.625 in	10in x 8 in 6 in
<b>Operating Temperature</b>	-30 °C to 60 °C	-40 °C to 40 °C
<b>RTD Input</b>	PT 100 RTD	PT 100 RTD
<b>Thermistor Input</b>	Frio Thermistor Included (10k NTC)	-
<b>Local Communications</b>	Modbus RS-485	Modbus RS-485
<b>BACnet Connectivity</b>	w/ Gateway	w/ Gateway
<b>Wi-Fi Connectivity</b>	802.11 Dual Band 2.4 GHz & 5 GHz	-
<b>Ethernet Connectivity</b>	Ethernet (RJ45, Cat 5 or 6)	-
<b>GFEP Test</b>	Yes	Yes
<b>GFEP Trip Level</b>	Adjustable 30-300 mA	Adjustable 30 - 150 mA
<b>Alarm Output</b>	Dry Contact	Dry Contact
<b>GFEP Alarm</b>	Yes	Yes
<b>Sensor Failure Alarm</b>	Yes	Yes
<b>Low Temperature Alarm</b>	Yes	Yes
<b>High Temperature Alarm</b>	Yes	Yes
<b>Low Current Alarm</b>	Yes	Yes
<b>High Current Alarm</b>	Yes	Yes
<b>Power Loss Alarm</b>	Yes	Yes
<b>Network Loss Alarm</b>	Yes	-
<b>Heater On LED</b>	Yes	Yes
<b>Alarm LED</b>	Yes	Yes
<b>Status LED</b>	Yes	-
<b>Ambient Control</b>	Yes	Yes
<b>Pipe Sensing Control</b>	Yes	Yes
<b>Cloud Platform Compatible</b>	Yes	-
<b>Mobile Device Compatible</b>	Yes	-
<b>Cloud-Based Monitoring</b>	Yes	-
<b>Cloud-Based Control</b>	Yes	-
<b>Hybrid Cloud Control</b>	Yes	-
<b>Spot Check Verification</b>	Yes	-
<b>Automatic Installation Report</b>	Yes	-
<b>SMS Notifications</b>	Yes	-
<b>Email Notifications</b>	Yes	-
<b>Remote Test/Reset</b>	Yes	-
<b>Remote Override</b>	Yes	-
<b>Remote Settings Configuration</b>	Yes	-
<b>Remote Device Management</b>	Yes	-