



Heat Trace Controller Comparison

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