

PRODUCT OVERVIEW:

The RTI four channel liquid thermal management controller (RTI-4C) is an advanced thermal management tool sized to fit into a rack or stand alone on a workstation. The hardware schematic includes a proprietary controller and a modular rack power supply system (RTI-4PS). The controller has four channels with connectors for one to four RTI thermal heads equipped with an onboard converter which communicates with the controller.

Because the hardware is modular, the RTI-4C controller can be positioned for easy access with clear view of the controls and LCD display. The RTI-4PS power supply connects to the controller remotely offering flexible set-up either close to or at a distance from the controller without affecting performance. Versatile design, rapid setup, and simplified operation makes the RTI-4C a convenient yet powerful thermal management tool.



RTI-4C Controller unit sitting on top of RTI-4PS unit with universal chiller head

PRODUCT FEATURES:

- ◆ User Friendly Design
 - Automatic configuration for each thermal head
 - On-board memory stores thermal head data by serial #
 - LCD display with easy-to-navigate menu
- ◆ No Electrical Noise
 - Analog voltage output to thermal head
 - Zero EMI noise into the DUT
 - Temp readings converted to digital and provides precise measurement regardless of umbilical length
- ◆ High Performance
 - Automatically controls output voltage to +30V
 - 110VAC or optional 220VAC power output
 - Proprietary RTI-4C for improved dynamic performance
 - Reduces power consumption 40% over standard controller hardware systems

PERFORMANCE FEATURES:

- ◆ Cold Temperature Device Testing from -45°C to +5°C
- ◆ Accurate, controlled hot temperature from ambient to +150°C
- ◆ Large selection of standard and custom patented and patent pending thermal heads to meet most any requirement



RTI-4C Controller unit and RTI-4PS unit back side

SPECIFICATIONS* FOR RTI-4C CONTROLLER:

Dimensions (in.)	10.41(L) x 17.66(W) x 5.51(H)
Weight	12.8 lbs. (5.8 kg)
Power Requirements	AC 110-120V (50-60 Hz) 1ph, 3A
Deliverable Power	840W, 20A max per channel, 28A max total
Thermal Head Configuration	4 channel "S" series (2 channel for 3042 RTI-4C)
Compatible Fluid Systems	Chiller and RTI PCS
Control Panel	LCD display, DC power switch, DC channel buttons (4), Keypad
Thermal Head Indicators	LED: power, error, heating, cooling
Peripheral Interfaces	USB (4), RS232 (1), Ethernet 10-100 (1)
Thermal Head Interface	RS485
Set Point Temp Tolerance	<1.0°C
Operational Ambient Temp	41°F to 95°F (5°C to 35°C)

SPECIFICATIONS* FOR RTI-4PS POWER SUPPLY:

Dimensions (in.)	12.41(L) x 17.66(W) x 11.21(H)
Weight	41.4 lbs. (18.78 kg)
Power Requirements	AC 110-120V (50-60 Hz) 1ph, 3A
Control Panel	AC power switch (1)
Indicators	LED: power, error
Operational Ambient Temp	41°F to 95°F (5°C to 35°C)



*Specifications are subject to change without notice



Sample Thermal Head Configurations