

Model K49

Disk Drive Thermal Conditioner

The K49 Disk Drive Thermal Conditioning System is an easy to use, accessible bench-top unit for disk drive failure analysis, debugging and thermal stress testing. The compact unit provides many of the thermal conditioning functions of a large environmental chamber without any of the hassles. Instead of scheduling time in a chamber and investing time to interconnect test probes through the chamber ports just to open the door, move them again and wait, users enjoy easy access to drive electronics and connections with the drive in a thermal environment right on the bench-top. This simple flexibility is particularly valuable in failure analysis and thermal stress testing.

Users simply plug the compact unit in at a bench-top power outlet and slide the drive into the thermal stage to begin analysis. Integrated microprocessor-based controls and the interactive user interface (24 character by 2 line LCD) let the user adjust set-point temperatures from -5 to +75 degrees C. Additional control functions allow the user to set temperature slew rates and even configure the unit to auto-cycle through temperature and time profiles.

The thermal stage, with its unique stabilization system, minimizes drive vibration and mechanical stress. Optional adapters make the unit compatible with packages smaller than standard 3.5" drives.

A unique combination of solid state thermoelectric cooling modules in conjunction with a heat-pipe-based heat sink place the thermal stage just 1.5" above the bench-top. This allows the user to probe suspect drives, monitor drive operation, and cycle stage temperature while sitting comfortably at the bench. The design also directs cooling air flow out the back of the unit, away from the user.

Never before has a bench-top system made so much capability so affordable. Contact Pond Engineering for a demonstration unit and see for yourself how the K49 Disk Drive Thermal Conditioning System can make your job easier and your time more effective.



Specifications

System Setpoint Range:	-5°C to 75°C
Remote Interface:	RS-232 Standard IEEE-488 Optional
Thermal Stage:	Aluminum
Accepts Std. 3.5" Drive	5.75 in (14.61 cm) Long 1.00 in (2.54 cm) Deep 4.01 in (10.19 cm) Wide
Optional Adapter Available for 2.5" Drive	
User Interface:	24 Character, 2 Line LCD 3 Push Buttons
Power Requirements:	85 to 265 Volts, 1.5 Amps Max., A.C. 47 to 63 Hz.
System Physical Dimensions:	9.00 in (22.8 cm) Wide 15.78 in (40.1 cm) Deep 11.28 in (28.7 cm) High

This system is compatible with standard size commercially available 3.5" disc drives, adapters are available for any smaller drive package. Call or E-mail for details.

To Order or For More Information:

Call Pond Engineering at (303)651-1678
 or FAX (303)651-1668
 or E-mail stanpond@pondengineering.com

All the Capability of This...



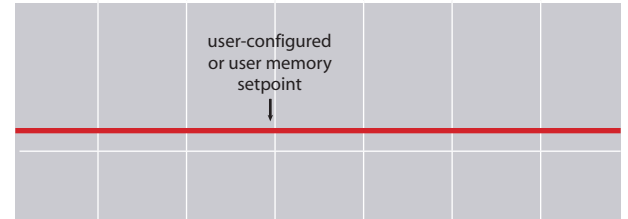
All the controls, functions and conditions you need - with hassles you don't...inflexible schedules, uncomfortable positions, tangled cords, unfamiliar instruments and multiple trips to name a few.

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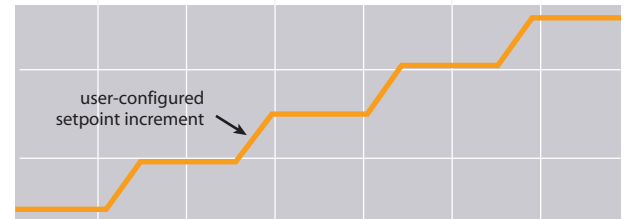


Precision controls, functions and conditions you configure and use, hassle-free, whenever you like, with your own instruments, in the convenience and comfort of your own workstation.

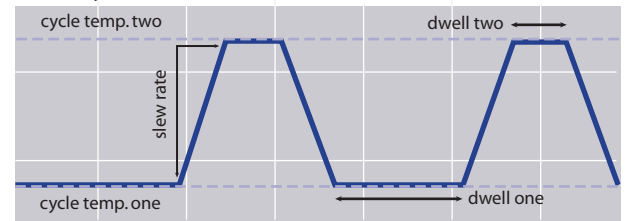
user setpoint mode



one-touch increment mode



user cycle mode



- ① Interactive User Interface with 24 Character by 2 Line Liquid Crystal Display
- ② Durable Brushed Stainless Steel Cabinet
- ③ User Programmable "One Touch" Keys Adjust Stage Temperature Up or Down with a Single Press of a Button
- ④ Microprocessor Based Digital PID Controller
- ⑤ Universal Input Switching Power Supplies Allow Operation With AC Line Power Worldwide
- ⑥ Thermal Stage Sized for Industry Standard 3.5in Disk Drives, Adapters Available for Smaller Packages
- ⑦ Solid State Thermoelectric Modules with Heat Pipe based Heat Sink Allows Low Thermal Stage Height
- ⑧ Compact unit fits easily on the benchtop; 9" wide x 16" front-to-back x 12" tall

