

Temptronic

ATS-750-M THERMOSTREAM®

-90° to +300°C

Advanced Temperature Source for fast and precise thermal conditioning of components, parts, hybrids, modules, subassemblies, and printed circuit boards. Capable of ultra-low temperatures **without** the use of Liquid Nitrogen (LN₂) or Liquid Carbon Dioxide (LCO₂).

PERFORMANCE:

Temperature Range*

-85 to +300°C (50Hz)

-90 to +300°C (60Hz)

No LN, or LCO, Required

Transition Rate*

-55 to +125°C, approx. 10 seconds or less 125 to -55°C, approx. 10 seconds or less

System Airflow Output*

4 to 18scfm (1.9 to 8.5 l/s) Continuous

*under nominal operating conditions ultimate low: (±1°C) achieved at 18scfm ultimate high: (±1°C) achieved at 16scfm

TEMPERATURE CONTROL:

Temperature Display & Resolution

Temperature Accuracy

1.0°C (when calibrated against NIST standard)

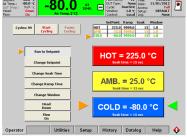
DUT Temperature Control

Proprietary control algorithm enables DUT temperature to be directly controlled

DUT Sensor Ports

Internal diode, thermocouples (T & K), RTD (100 Ohm platinum)





OPERATOR SCREEN



DATALOG SCREEN

FEATURES:

Frost Free Feature

Dry air purge for tester interface, prevents condensation: 0.5 to 3scfm (0.25 to 1.5 l/s) **ECO Friendly Features**

- Automatic Power Reduction : reduces power usage during idle periods
- Heat Only Mode: reduces power usage when cold temperatures are not used

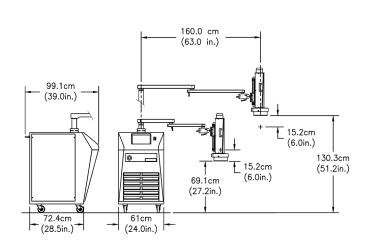
Heated Defrost Feature

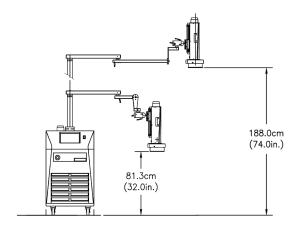
Quickly removes moisture buildup from internal chiller

Fully Adjustable Thermal Head Thermal Cap

5.5 inch ID, High Temperature Rated Thermal Cap or optional

- Windows® OS
- · Local & Remote Operations
- LabView[™] & LabWindows® drivers
- · On-Screen Help
- Ethernet, IEEE-488, RS232 ports
- USB, keyboard, mouse, & printer ports
- customizable and savable test setups
- Program & Datalog Storage (via ethernet or USB)
- User Defined Temperature Limits





SYSTEM DIMENSIONS STANDARD

SYSTEM DIMENSIONS EXTENDED HEIGHT

FACILITY REQUIREMENTS		
Power ¹	200 - 250 VAC (230V nominal), 50/60Hz, 30 amp, 1phase	
COMPRESSED AIR ²		
Clean, Dry Air (CDA)	Filtered to 5 micron particulate contamination. Oil Content: <0.1 ppm, by weight, filtered to 0.01 micron oil contaminant. Dewpoint: <10°C @ 6.2 BAR (90PSI)	
Air Supply Pressure	6.2 to 7.6 BAR (90 to 110 PSIG)	
Total Air Flow Rate Required	7.1 to 14.2 l/s (15-30 scfm), 11.8 l/s (25 scfm) nominal	
Air Supply Temperature	+20° to +25°C; +22°C nominal	
OPERATING ENVIRONMENT ²		
Operating Temperature	+20° to +28°C; +23°C nominal	
Humidity	0 to 60%; 45% nominal	

WEIGHTS & DIMENSIONS		
Base ³	Width: 61.0 cm (24 in.), Depth: 72.4 cm (28.5 in.), Height: 108 cm (42.5 in.)	
System Weight	Not packed: 236 kg (520 lbs.) Packed: 365 kg (805 lbs.)	
Mobility	Four static dissipative, swivel caster wheels	
Maximum Reach	160.0cm (63 in.)	
Maximum Operating Height	130.3 cm (51.2 in.) Extended height option: 188.0 (74.0 in.)	
Minimum Operating Height	69.1 cm (27.2 in.) Extended height option: 81.3 (32.0 in.)	
Noise Level	<65dBA	

SERVICE & SAFETY		
Refrigerants	HCFC and CFC-free, non-toxic, non-flammable	
Serviceability	Auto-diagnostics and field replaceable modules	
Over Temperature Protection	+305°C (factory set): Operator can set high and low air temperature limits	

¹System is configured for operation within voltages listed above using an internal transformer. Please specify power configuration with order ²Under operating conditions which are greater or less than nominal, performance may be less than specification provided ³An additional 20.3cm (8 in.) clearance is required for supply connections and cabinet ventilation

