

ATS-770E-M THERMOSTREAM®

-100° to +225°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 (LN_2) or Liquid Carbon Dioxide (LCO_2) .

PERFORMANCE:

Temperature Range* - No LN_2 or LCO_2 Required -100 to +225°C

Transition Rate*

-55 to +125°C, approx. 12 seconds or less 125 to -55°C, approx. 12 seconds or less

System Airflow Output*

4 to 12scfm (1.9 to 8.5 l/s) Continuous

TEMPERATURE CONTROL:

Temperature Display & Resolution +/- 0.1°C

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), Digital DUT



E Series Systems Equipped with Embedded Software Controls, Eliminating Windows[®] OS

- · Significant reduction in security vulnerabilities
- \cdot Minimizes software and hardware obsolescence concerns
- \cdot Improved responsiveness of the touch screen
- · Faster system boot and startup times

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

inTEST Thermal Solutions

• 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

- Embedded Control System
 Custor
 - Customizable and savable test setups
- Local & Remote Operations
- Datalog Storage (USB)

an inTEST Company

- Ethernet, IEEE-488, RS232 ports User Defined Temperature Limits
- MobileTemp[™] Thermal Chambers
 - Temperature Chambers designed specifically for uses with ATS THERMOSTREAM® Systems. See Additional Datasheets for details.

APPLICATION OPTIONS:

Thermal Cap or FlexExtender Hose

4.5 or 5.5 inch ID Thermal Cap or

optional FlexExtender Hose for

connection to external Thermal

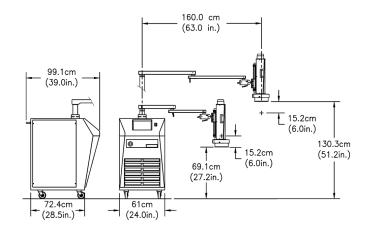
Chambers or enclosures

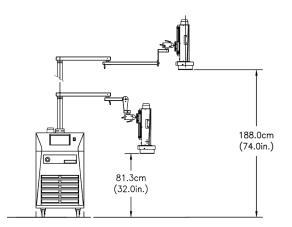
*Under nominal operating conditions Ultimate low temperature achieved at 18scfm



info@inTESTthermal.com | 1.781.688.2300 41 Hampden Road | Mansfield, MA 02048 USA







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	+230°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

