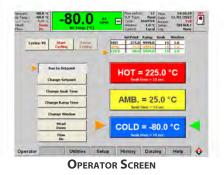
ATS-710-M THERMOSTREAM®







DATALOG SCREEN

DATASHEET AND SPECIFICATIONS

-80° 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* -75 to +225°C (50Hz) -80 to +225°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 temperatures (±1°) achieved at 12scfm

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

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

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)

- 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

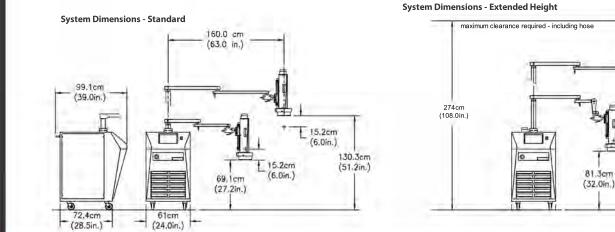
► MobileTemp[™] Thermal Chambers Temperature Chambers designed specifically for uses with ATS THERMOSTREAM[®] Systems. See Additional Datasheets for details.



Specifications

ATS-710-M THERMOSTREAM® Advanced Temperature Source

188.0cm (74.0in.)



Weights and Dimensions

The girls and Dimensions		
Base ¹	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	l.0 in.)
Minimum Operating Height	69.1 cm (27.2 in.) - extended height option: 81.3 (32.0 in.)	
Noise Level	<65dBA	
¹ an additional 20.3cm (8 in.) clearance is required for supply connections and cabir	net ventilation	
Service and 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	
Facility Requirements		
Power ²	200 - 250 VAC (230V nominal), 50/60Hz 30 amp, 1phase	
Compressed Air ³		
Clean, Dry Air (CDA)	Filtered to 5 micron particulate contamination.	
	Oil Content: <0.1 ppm, by weight, filtered to	
	0.01 micron oil contaminant.	inTEST Thermal Solutions
	Dewpoint: <10°C @ 6.2 BAR (90PSI)	EMPTRONIC
Air Supply Pressure	6.2 to 7.6 BAR (90 to 110 PSIG)	CORPORATION
Total Air Flow Rate Required	7.1 to 14.2 l/s (15-30 scfm)	inTEST Thermal Solution
	11.8 l/s (25 scfm) nominal	41 Hampden Road Mansfield, MA 02048
Air Supply Temperature	+20° to +25°C; +22°C nominal	TEL: 1.781.688.2300
Operating Environment ³		www.inTESTthermal.com
Operating Temperature	+20° to +28°C; +23°C nominal	
Operating Temperature Humidity	+20° to +28°C; +23°C nominal 0 to 60%; 45% nominal	ISO 9001 Certified

² System is configured for operation within voltages listed above using an internal transformer. Please specify power configuration with order ³ Under operating conditions which are greater or less than nominal, performance may be less than specification provided



part number SL10720B

CE