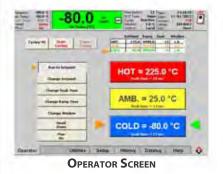
ATS-710-T THERMOSTREAM[®]

DATA SHEET AND SPECIFICATIONS





System shown with optional enclosure



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_a) or

PERFORMANCE:

Liquid Carbon Dioxide (LCO₂).

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

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



DATALOG SCREEN

APPLICATION OPTIONS:

FlexExtender Hose

FlexExtender Hose for connection to external Thermal Chambers or enclosures. 2', 4', or 6' length standard, custom lengths available.

note: FlexExtender length affects performance

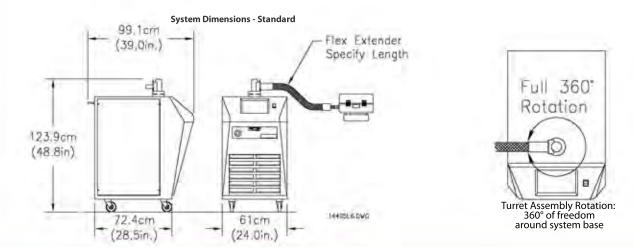
▶ MobileTemp[™] Thermal Chambers

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



Specifications

ATS-710-T THERMOSTREAM[®] Advanced Temperature Source



Weights and Dimensions

Base ¹	Width: 61.0 cm (24 in.), Depth: 72.4 cm (28.5 in.) Height: 123.9 cm (48.8 in.)
System Weight	Not packed: 226 kg (500 lbs.) Packed: 341 kg (762 lbs.)
Mobility	Four static dissipative, swivel caster wheels
FlexExtender Length	FlexExtender hose available in 1', 2', and 4' standard lengths custom lengths available
Noise Level	<65dBA

¹ an additional 20.3cm (8 in.) clearance is required for supply connections and cabinet ventilation

Service and Safety		
Refrigerants	HCFC and CFC-free, non-toxic, non-flammable Auto-diagnostics and field replaceable modules	
Serviceability		
Over Temperature Protection	+230°C (factory set): Operator can set high and low	w air temperature limits
Facility Requirements		
Power ³	200 - 250 VAC (230V nominal), 50/60Hz 30 amp, 1 phase	
Compressed Air ^a		
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
Air Supply Temperature	+20° to +25°C; +22°C nominal	Mansfield, MA 02048 TEL: 1.781.688.2300
Operating Environment ³		www.inTESTthermal.com
Operating Temperature	+20° to +28°C; +23°C nominal	
Humidity	0 to 60%; 45% nominal	ISO 9001 Certified
System comfigured for operation within voltages lines above using in interna- Under operating constitutions which are greater or less that normal, performance		CE

