ATS-810-M THERMOSTREAM®

DATASHEET AND SPECIFICATIONS



PERFORMANCE:

Temperature Range*
-80 to +225°C
No LN₂ or LCO₂ 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°C) 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

TEMPERATURE CONTROL:

Temperature Display & Resolution +/- 0.1°C

Temperature Accuracy

1.0°C (when calibrated against NIST standard)

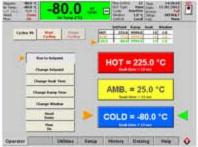
DUT Temperature Control

proprietary control algorithm enables DUT temperature to be directly controlled

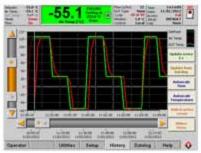
DUT Sensor Ports

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



OPERATOR SCREEN



DATALOG **S**CREEN

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

► MobileTemp™ Thermal Chambers

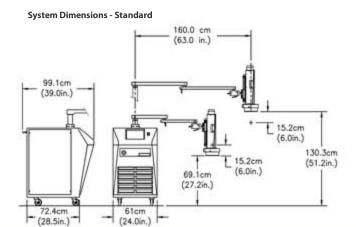
Temperature Chambers designed specifically for uses with ATS THERMOSTREAM® Systems. See Additional Datasheets for details.

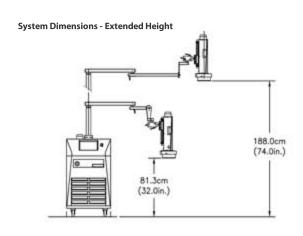


Specifications

ATS-810-M THERMOSTREAM

Advanced Temperature Source





Weights and Dimensions

Base¹ Width: 61.0 cm (24 in.), Depth: 72.4 cm (28.5 in.)

Height: 108 cm (42.5 in.)

Not packed: 236 kg (520 lbs.) **System Weight**

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 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 air temperature limits

Facility Requirements

Power² 60Hz only, system does not operate at 50Hz

200 - 250 VAC (230V nominal), 60Hz, 30 amp, 1phase

Compressed Air³

Filtered to 5 micron particulate contamination. Clean, Dry Air (CDA)

Oil Content: <0.1 ppm, by weight, filtered to

0.01 micron oil contaminant. Dewpoint: <10°C @ 6.2 BAR (90PSI)

6.2 to 7.6 BAR (90 to 110 PSIG) **Air Supply Pressure 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 Environment³

+20° to +28°C; +23°C nominal **Operating Temperature** 0 to 60%; 45% nominal **Humidity**



³ Under operating conditions which are greater or less than nominal, performance may be less than specification provided



inTEST Thermal Solutions 41 Hampden Road Mansfield, MA 02048 TEL: 1.781.688.2300 www.inTESTthermal.com

ISO 9001 Certified





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