



## ATS-545-M THERMOSTREAM®

**-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<sub>2</sub>) or Liquid Carbon Dioxide (LCO<sub>2</sub>).

### PERFORMANCE:

#### Temperature Range\*

-75 to +225°C (50Hz)

-80 to +225°C (60Hz)

No LN<sub>2</sub> or LCO<sub>2</sub> 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*

### TEMPERATURE CONTROL:

#### Temperature Display & Resolution

+/- 0.1°C

#### Temperature Accuracy

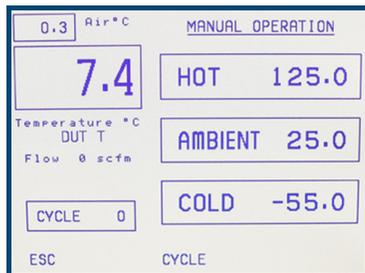
1.0°C (when calibrated against NIST standard)

#### DUT Temperature Control

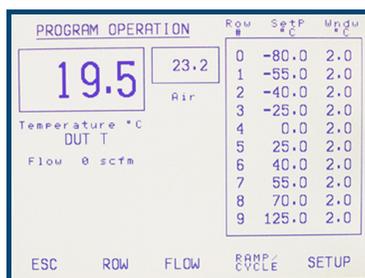
Proprietary control algorithm enables DUT temperature to be directly controlled

#### DUT Sensor Ports

Thermocouples (type T & K)



OPERATOR SCREEN



PROGRAM 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 Feature

Heat Only Mode: reduces power usage when cold temperatures are not used

#### Fully Adjustable Thermal Head

- Local & Remote Operations
- LabView™ drivers
- IEEE-488, RS232 ports
- Customizable and savable test setups
- Program & Datalog Storage
- User Defined Temperature Limits

### APPLICATION OPTIONS:

#### Thermal Cap or FlexExtender Hose

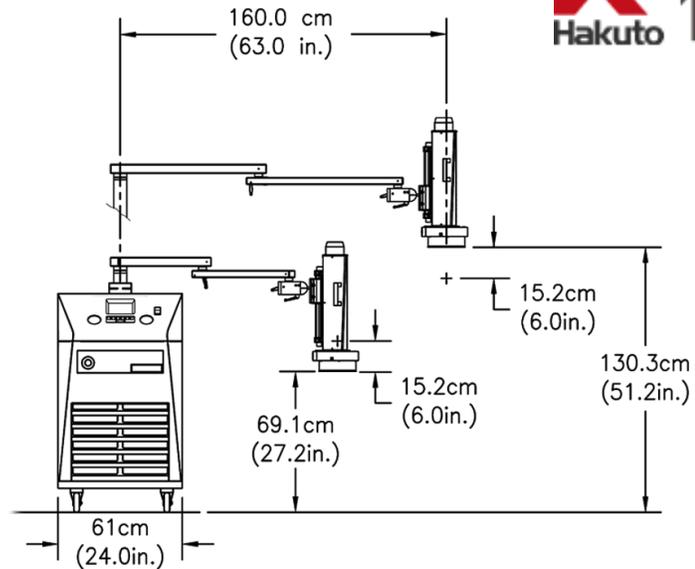
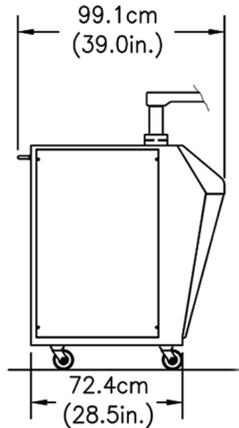
4.5 or 5.5 inch ID Thermal Cap or optional FlexExtender Hose for connection to external Thermal Chambers or enclosures

#### MobileTemp™ Thermal Chambers

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



## SYSTEM DIMENSIONS STANDARD



## FACILITY REQUIREMENTS

Power <sup>1</sup>	200 - 250 VAC (230V nominal), 50/60Hz 30 amp, 1 phase
<b>COMPRESSED AIR<sup>2</sup></b>	
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
<b>OPERATING ENVIRONMENT<sup>2</sup></b>	
Operating Temperature	+20° to +28°C; +23°C nominal
Humidity	0 to 60%; 45% nominal

## WEIGHTS & DIMENSIONS

Base <sup>3</sup>	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

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





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