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 (LN₂) or Liquid Carbon Dioxide (LCO₂).

**PERFORMANCE:**

**Temperature Range**
-85° to +300°C (50Hz)
-90° to +300°C (60Hz)

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 18 scfm (1.9 to 8.5 l/s) Continuous

* under nominal operating conditions
ultimate low (±1.0°C) achieved at 18 scfm
ultimate high (±1.0°C) achieved at 16 scfm

**FEATURES:**

- **Frost Free Feature**
  dry air purge for tester interface, prevents condensation: 0.5 to 3 scfm (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**

- **Thermal Cap**
  5.5 inch ID, High Temperature Rated
  Thermal Cap or optional

- **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**

**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)
Specifications

ATS-750-M THEROSTREAM®
Advanced Temperature Source

Weights and Dimensions

<table>
<thead>
<tr>
<th>Base¹</th>
<th>Width: 61.0 cm (24 in.), Depth: 72.4 cm (28.5 in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Height: 108 cm (42.5 in.)</td>
</tr>
<tr>
<td>System Weight</td>
<td>Not packed: 236 kg (520 lbs.)</td>
</tr>
<tr>
<td></td>
<td>Packed: 365 kg (805 lbs.)</td>
</tr>
<tr>
<td>Mobility</td>
<td>Four static dissipative, swivel caster wheels</td>
</tr>
<tr>
<td>Maximum Reach</td>
<td>160.0 cm (63 in.)</td>
</tr>
<tr>
<td>Maximum Operating Height</td>
<td>130.3 cm (51.2 in.) - extended height option: 188.0 (74.0 in.)</td>
</tr>
<tr>
<td>Minimum Operating Height</td>
<td>69.1 cm (27.2 in.) - extended height option: 81.3 (32.0 in.)</td>
</tr>
<tr>
<td>Noise Level</td>
<td>&lt;65dBA</td>
</tr>
</tbody>
</table>

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

Service and Safety

Refrigerants
HCFC and CFC-free, non-toxic, non-flammable

Serviceability
Auto-diagnostics and field replaceable modules

Over Temperature Protection
+305°C (factory set): Operator can set high and low air temperature limits

Facility Requirements

Power²
200 - 250 VAC (230V nominal), 50/60Hz
30 amp, 1 phase

Compressed Air³
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 Environment³
Operating Temperature
+20° to +28°C; +23°C nominal
Humidity
0 to 60%; 45% nominal

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

ISO 9001 Certified

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part number SL10760A

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