



## ATS-535 THERMOSTREAM®

### -60° to +225°C



Designed for **50/60Hz operation**, this Advanced Temperature Source is 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>), Liquid Carbon Dioxide (LCO<sub>2</sub>), or compressed air.

#### PERFORMANCE:

##### Temperature Range\*

-60 to +225°C

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

##### Transition Rate\*

-40 to +125°C, <12 seconds

+125 to -40°C, <40 seconds

##### System Airflow Output\*

5scfm (2.4 l/s) Fixed Flow Rate

\*Under nominal operating conditions.

#### TEMPERATURE CONTROL:

##### Temperature Display & Resolution

+/- 0.1°C

##### Temperature Accuracy

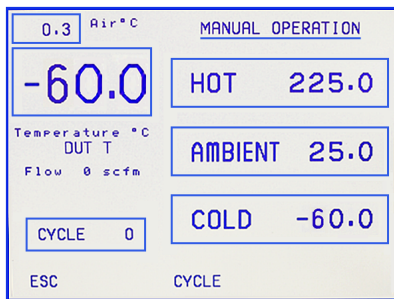
1.0°C (when calibrated against NIST standard)

##### DUT Temperature Control

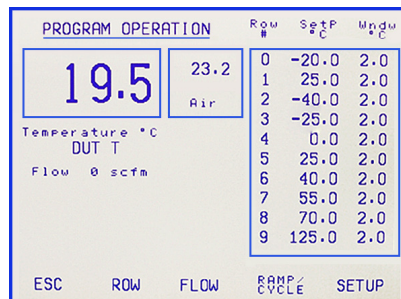
Proprietary control algorithm enables DUT temperature to be directly controlled

##### 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)

##### 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

5.5 inch ID Glass Thermal Cap to enclose your test subject

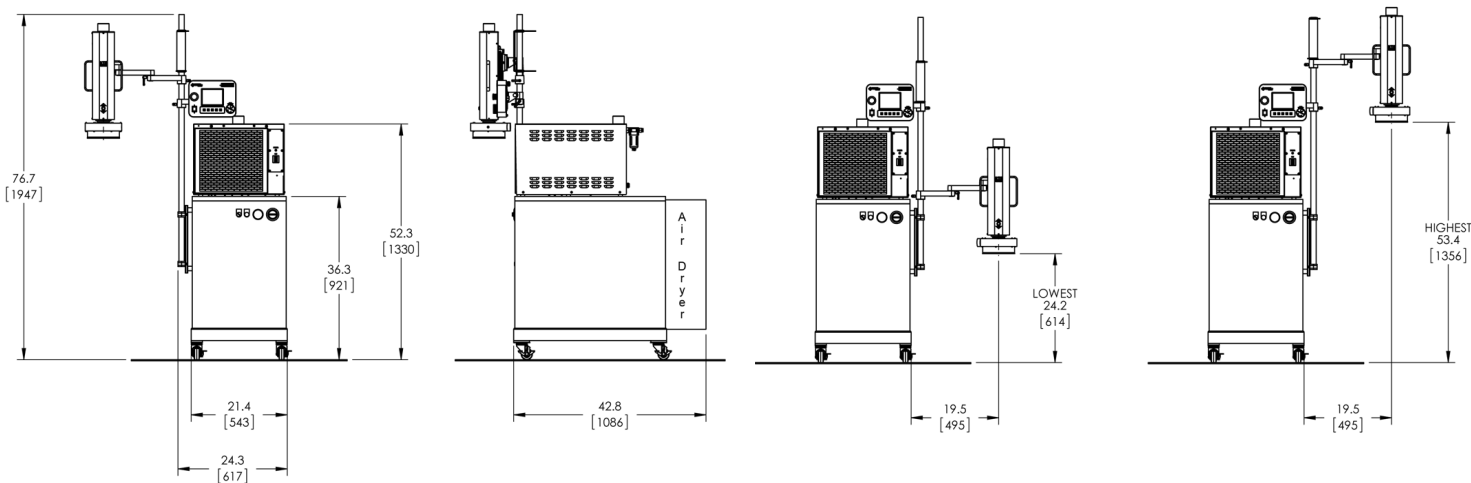
##### High Performance Air Dryer

(optional) A 20scfm air dryer for drying supply air to <-70°C dewpoint, refer to air dryer data sheet (SL10690) for technical specifications

##### System Cart

(optional) A castered, heavy-duty, steel cart for portability and easy mounting of thermal head and operator control module





*Note: Thermal head may be mounted on left or right side of system*

## FACILITY REQUIREMENTS

Power <sup>1</sup>	<b>Chiller:</b> 220 ±10% VAC, 50/60Hz, 16amp <b>Compressor:</b> 220 ±10% VAC, 50/60Hz, 30amp
<b>OPERATING ENVIRONMENT<sup>2</sup></b>	
Operating Temperature	+20° to +28°C; +23°C nominal
Humidity	0 to 60%; 45% nominal

## WEIGHTS & DIMENSIONS

Dimensions	<b>Controller:</b> 10.5 inches (26.7 cm) wide 8.1 inches (20.6 cm) high 3.8 inches (9.7 cm) deep <b>Chiller:</b> 20.2 inches (51.3 cm) wide 16.3 inches (41.4 cm) high 29.5 inches (74.9 cm) deep
Weight	<b>System (with external Compressor):</b> 550 lb (249.5 kg) <b>Chiller:</b> 157 lb (71.2 kg) <b>Chiller with Cart:</b> 215 lb (97.5 kg)
Noise Level	<60dBA

## 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. 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

