



ATS-635 THERMOSTREAM®

-60° to +225°C

Designed for **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 (LN₂), Liquid Carbon Dioxide (LCO₂), or compressed air.



PERFORMANCE:

Temperature Range*

-60 to +225°C

No LN₂ or LCO₂ 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

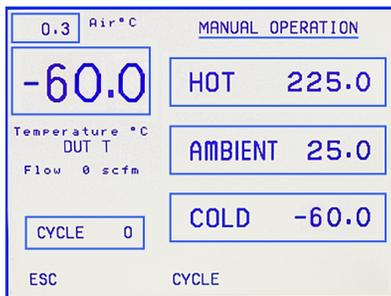
1.0°C (when calibrated against NIST standard)

DUT Temperature Control

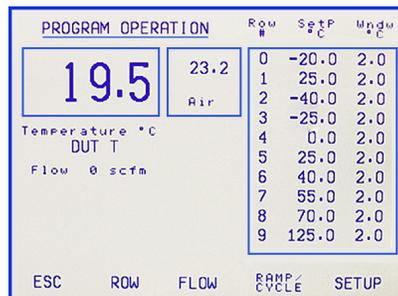
Proprietary control algorithm enables DUT temperature to be directly controlled

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

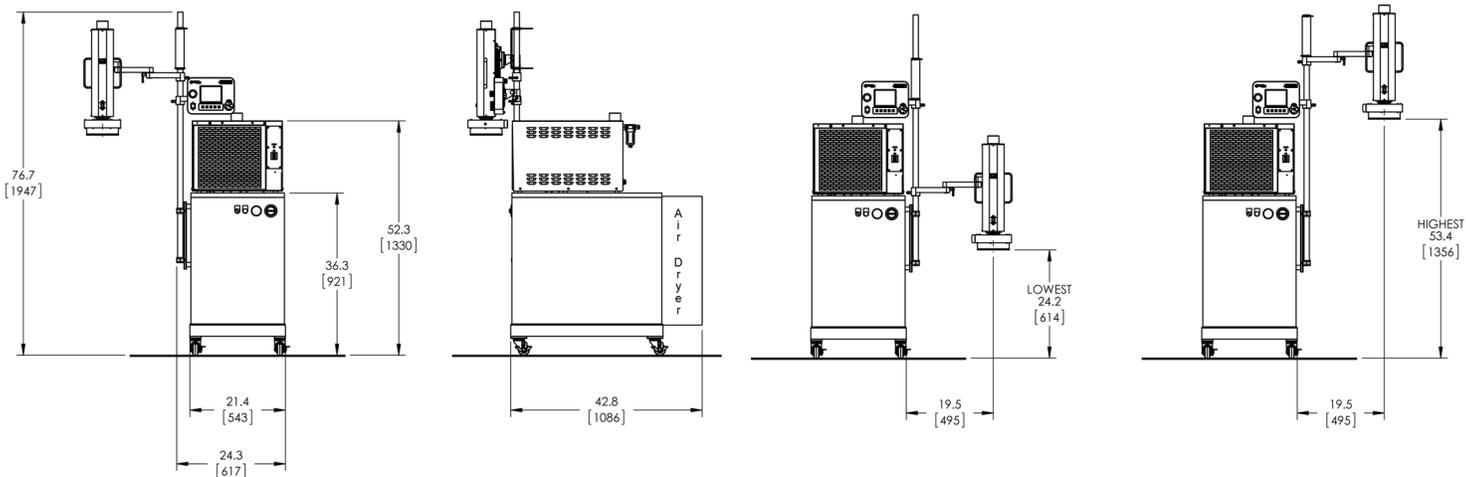
High Performance Air Dryer

(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 ¹	Chiller: 220 ±10% VAC, 60Hz, 16amp Compressor: 220 ±10% VAC, 60Hz, 30amp
OPERATING ENVIRONMENT²	
Operating Temperature	+20° to +28°C; +23°C nominal
Humidity	0 to 60%; 45% nominal

WEIGHTS & DIMENSIONS

Dimensions	Controller: 10.5 inches (26.7 cm) wide 8.1 inches (20.6 cm) high 3.8 inches (9.7 cm) deep Chiller: 20.2 inches (51.3 cm) wide 16.3 inches (41.4 cm) high 29.5 inches (74.9 cm) deep
Weight	System (with external Compressor): 550 lb (249.5 kg) Chiller: 157 lb (71.2 kg) Chiller with Cart: 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

¹System is configured for operation within voltages listed above. Please specify power configuration with order.

²Under operating conditions which are greater or less than nominal, performance may be less than specification provided

