

ATS-515 THERMOSTREAM®

-45° 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_2) or Liquid Carbon Dioxide (LCO_2) .

PERFORMANCE:

Temperature Range*

-45 to +225°C (50/60Hz) No LN_2 or LCO_2 Required

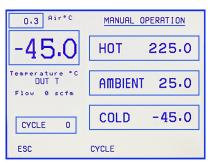
Transition Rate*

-40 to +125°C, <12 seconds +125 to -40°C, <40 seconds

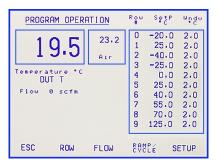
System Airflow Output*

4 to 10 scfm (1.9 to 4.7 l/s) Continuous

*Under nominal operating conditions. Transition rates achieved with 20amp system, 10scfm



OPERATOR SCREEN



PROGRAM SCREEN

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)



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

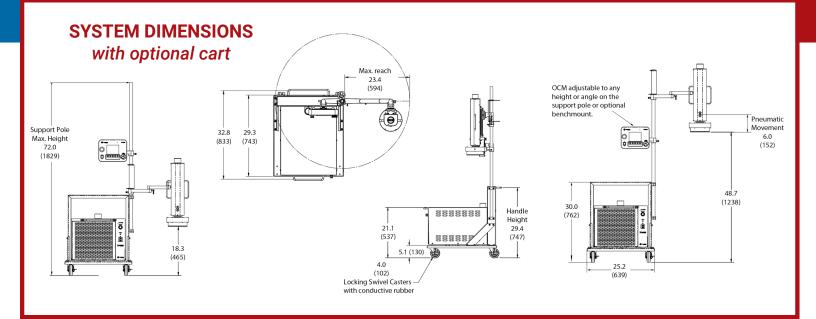
System Cart

an inTEST Company

nTEST Thermal Solutions

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





FACILITY REQUIREMENTS		
Power ¹	115 ±10% VAC, 60Hz, 20amp (15amp available) 100 ±10% VAC, 50Hz, 20amp (15amp available) 200 ±10% VAC, 50Hz, 16amp 220 ±10% VAC, 60Hz, 16amp 230 ±10% VAC, 50Hz, 16amp	
COMPRESSED AIR ²		
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: <-70°C @ 6.2 BAR (90PSI)	
Air Supply Pressure	5.5 to 7.6 BAR (90 to 110 PSIG)	
Total Air Flow Rate Required	5.7 l/s (12 scfm), 2.8 l/s (6scfm) minimum	
Air Supply Temperature	+20° to +25°C; +22°C nominal	
OPERATING ENVIRONMENT ²		
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: 247 lb (112.0 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

