

ATS-515 THERMOSTREAM®

DATASHEET AND SPECIFICATIONS

-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 (LN₂) or Liquid Carbon Dioxide (LCO₂).

PERFORMANCE:

Temperature Range*

-45 to +225°C (50/60Hz)

No LN₂ or LCO₂ Required

Transition Rate*

-40 to +125°C, <12 seconds

+125 to -40°C, <40 seconds

System Airflow Output*

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

*Under nominal operating conditions.

Transition rates achieved with 20amp system, 10scfm

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

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

► Benchmount

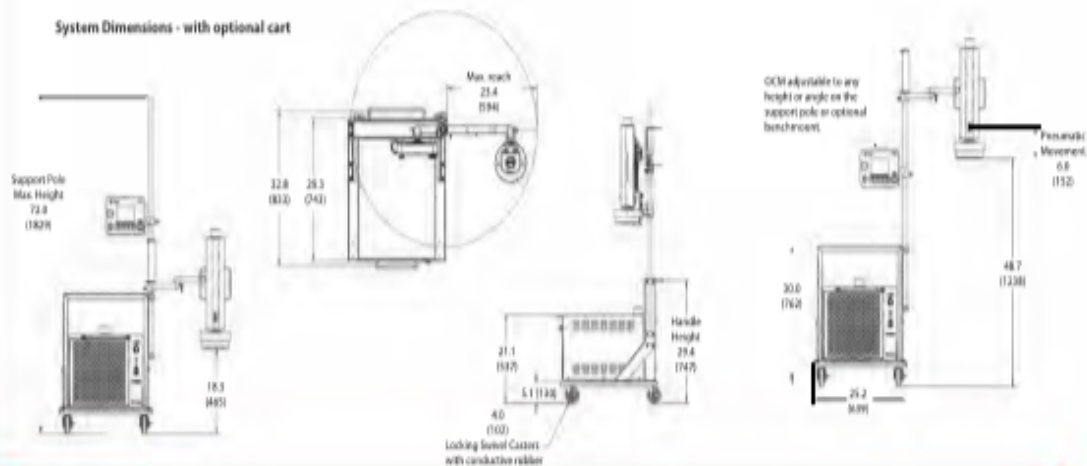
(optional) conveniently clamps the thermal head to a benchtop or workstation



Specifications

ATS-515 THERMOSTREAM[®] Advanced Temperature Source

System Dimensions - with optional cart



Weights and Dimensions

Dimensions	Controller: 26.7cm (10.5 inches) wide X 20.7cm (8.13 inches) high X 9.8cm (3.8 inches) deep Chiller: 51.3cm (20.2 inches) wide X 41.4cm (16.3 inches) high X 74.9cm (29.5 inches) deep
Weight	System: 112.0kg (247lbs.) Chiller: 74.5kg (157lbs) Chiller with Cart: 100.8kg (215lbs)
Noise Level	<60dBA

Service and 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

Facility Requirements

Power¹	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
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Compressed Air¹

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)
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Air Supply Pressure	5.5 to 7.6 BAR (90 to 110 PSIG)
Total Air Flow Rate Required	5.7 l/s (12 scfm)

Air Supply Temperature	+20° to +25°C; +22°C nominal
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Operating Environment²

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



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ISO 9001 Certified



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

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