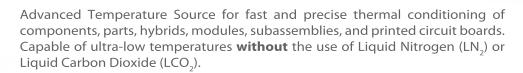
# **ATS-515** THERMOSTREAM®

### DATASHEET AND SPECIFICATIONS

-45° to +225°C





**Temperature Range\*** 

-45 to +225°C (50/60Hz) No LN, or LCO, 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** 

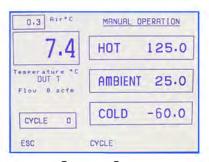
1.0°C (when calibrated against NIST standard)

**DUT Temperature Control** 

proprietary control algorithm enables DUT temperature to be directly controlled

**DUT Sensor Ports** 

thermocouples: type T & K



**O**PERATOR **S**CREEN

#### **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<sup>™</sup> 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



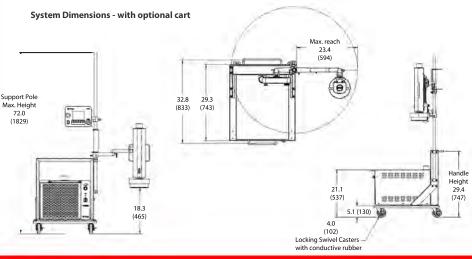
**PROGRAM SCREEN** 

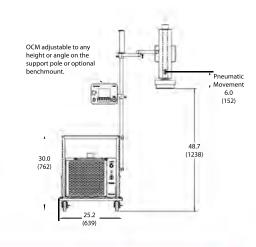


## **Specifications**

### **ATS-515 THERMOSTREAM®**

Advanced Temperature Source





### **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**

RefrigerantsHCFC and CFC-free, non-toxic, non-flammableServiceabilityAuto-diagnostics and field replaceable modules

Over Temperature Protection +230°C (factory set): Operator can set high and low air temperature limits

### **Facility Requirements**

**Power<sup>2</sup>** 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

Clean, Dry Air (CDA)

Solution VAC, 50H2, 16amp

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 +20° to +25°C; +22°C nominal

**Air Supply Temperature** +20° to +25°C; +22°C nomi

**Operating Environment**<sup>3</sup>

**Operating Temperature** +20° to +28°C; +23°C nominal

**umidity** 0 to 60%; 45% nominal

<sup>2</sup> System is configured for operation within voltages listed above. Please specify power configuration with order.



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ISO 9001 Certified





<sup>&</sup>lt;sup>3</sup> Under operating conditions which are greater or less than nominal, performance may be less than specification provided.