

# Temptronic

# **ATS-525** THERMOSTREAM®

-60° 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<sub>2</sub>) or Liquid Carbon Dioxide (LCO<sub>2</sub>).

#### **PERFORMANCE:**

#### **Temperature Range\***

-60 to +225°C (50/60Hz) 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

#### **TEMPERATURE CONTROL:**

# **Temperature Display & Resolution**

+/- 0.1°C

#### **Temperature Accuracy**

1.0°C (when calibrated against NIST standard)

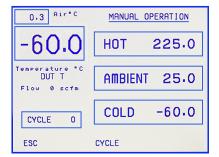
# **DUT Temperature Control**

Proprietary control algorithm enables
DUT temperature to be directly controlled

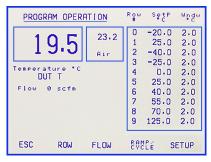
#### **DUT Sensor Ports**

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<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

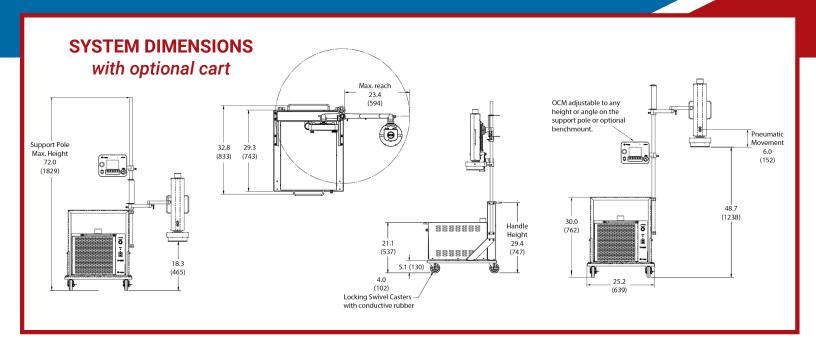
# **High Performance Air Dryer**

(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

<sup>\*</sup>Under nominal operating conditions.



FACILITY REQUIREMENTS		
Power <sup>1</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	
COMPRESSED AIR <sup>2</sup>		
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 <sup>2</sup>		
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	<b>System:</b> 247 lb (112.0 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

