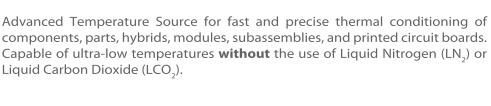
# **ATS-750-M** THERMOSTREAM®

#### DATASHEET AND SPECIFICATIONS

-90° to +300°C





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

- -85 to  $+300^{\circ}$ C (50Hz)
- -90 to +300°C (60Hz) No LN, or LCO, Required

#### **Transition Rate\***

-55 to +125°C, approx. 10 seconds or less 125 to -55°C, approx. 10 seconds or less

#### **System Airflow Output\***

4 to 18scfm (1.9 to 8.5 l/s) Continuous

\* under nominal operating conditions ultimate low (±1.0°C) achieved at 18scfm ultimate high (±1.0°C) achieved at 16scfm

#### **TEMPERATURE CONTROL:**

**Temperature Display & Resolution** +/- 0.1°C

#### **Temperature Accuracy**

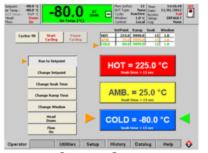
1.0°C (when calibrated against NIST standard)

#### **DUT Temperature Control**

proprietary control algorithm enables DUT temperature to be directly controlled

#### **DUT Sensor Ports**

internal diode, thermocouples (T & K), RTD (100 Ohm platinum)



**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 Features

Automatic Power Reduction reduces power usage during idle periods
Heat Only Mode
reduces power usage when cold

reduces power usage when cold temperatures are not used

#### **▶** Heated Defrost Feature

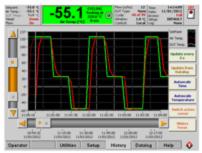
quickly removes moisture buildup from internal chiller

#### ► Fully Adjustable Thermal Head

#### ► Thermal Cap

5.5 inch ID, High Temperature Rated Thermal Cap or optional

- ► Windows® OS
- ► Local & Remote Operations
- ► LabView<sup>™</sup> & LabWindows<sup>®</sup> drivers
- ► On-Screen Help
- ► Ethernet, IEEE-488, RS232 ports
- ► USB, keyboard, mouse, & printer ports
- customizable and savable test setups
- Program & Datalog Storage (via ethernet or USB)
- User Defined Temperature Limits



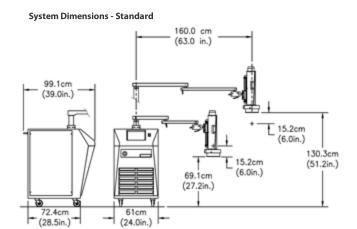
**D**ATALOG **S**CREEN

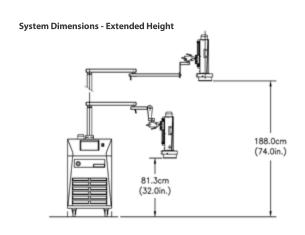


## **Specifications**

### ATS-750-M THERMOSTREAM®

Advanced Temperature Source





#### **Weights and Dimensions**

Width: 61.0 cm (24 in.), Depth: 72.4 cm (28.5 in.) Base 1

Height: 108 cm (42.5 in.)

Not packed: 236 kg (520 lbs.) **System Weight** 

Packed: 365 kg (805 lbs.)

**Mobility** Four static dissipative, swivel caster wheels

Maximum Reach 160.0cm (63 in.)

**Maximum Operating Height** 130.3 cm (51.2 in.) - extended height option: 188.0 (74.0 in.) **Minimum Operating Height** 69.1 cm (27.2 in.) - extended height option: 81.3 (32.0 in.)

**Noise Level** <65dBA

#### **Service and Safety**

Refrigerants HCFC and CFC-free, non-toxic, non-flammable Auto-diagnostics and field replaceable modules Serviceability

**Over Temperature Protection** +305°C (factory set): Operator can set high and low air temperature limits

#### Facility Requirements

Power<sup>2</sup> 200 - 250 VAC (230V nominal), 50/60Hz

30 amp, 1 phase

Compressed Air<sup>3</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: <10°C @ 6.2 BAR (90PSI)

**Air Supply Pressure** 6.2 to 7.6 BAR (90 to 110 PSIG) **Total Air Flow Rate Required** 7.1 to 14.2 l/s (15-30 scfm)

11.8 l/s (25 scfm) nominal +20° to +25°C; +22°C nominal

**Air Supply Temperature** Operating Environment<sup>3</sup>

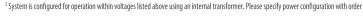
**Operating Temperature** +20° to +28°C; +23°C nominal

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



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Mansfield, MA 02048



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



TEL: 1.781.688.2300 www.inTESTthermal.com

ISO 9001 Certified





<sup>&</sup>lt;sup>1</sup> an additional 20.3cm (8 in.) clearance is required for supply connections and cabinet ventilation