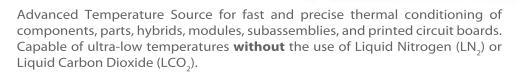
# **ATS-730-M** THERMOSTREAM®

# DATASHEET AND SPECIFICATIONS

-90° to +225°C





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

-85 to +225°C (50Hz) -90 to +225°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°) achieved at 18scfm extended height derated 3 to 5 °C

## **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)

#### **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** 

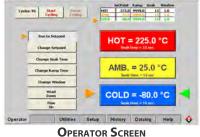
reduces power usage when cold temperatures are not used

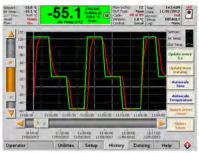
# ► Heated Defrost Feature

quickly removes moisture buildup from internal chiller

**Fully Adjustable Thermal Head** 

- ▶ 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





DATALOG SCREEN

# **APPLICATION OPTIONS:**

► Thermal Cap or FlexExtender Hose 4.5 or 5.5 inch ID Thermal Cap or optional FlexExtender Hose for connection to external Thermal Chambers or enclosures

#### **►** MobileTemp<sup>™</sup> Thermal Chambers

Temperature Chambers designed specifically for uses with ATS THERMOSTREAM® Systems. See Additional Datasheets for details.

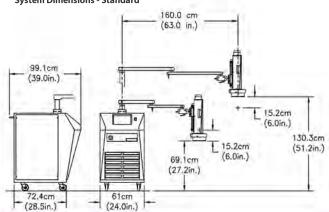


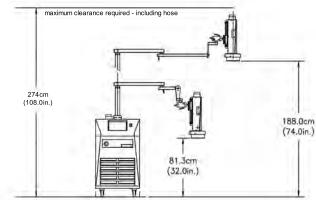
# **Specifications**

# ATS-730-M THERMOSTREAM<sup>®</sup>

**Advanced Temperature Source** 

# System Dimensions - Standard System Dimensions - Standard





# **Weights and Dimensions**

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

Height: 108 cm (42.5 in.)

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

Packed: 365 kg (805 lbs.)

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

Maximum Reach 160.0cm (63 in.)

Maximum Operating Height130.3 cm (51.2 in.) - extended height option: 188.0 (74.0 in.)Minimum Operating Height69.1 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 **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**

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

30 amp, 1 phase

Compressed Air<sup>3</sup>

**Air Supply Pressure** 

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) 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

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

Operating Environment<sup>3</sup>

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

ISO 9001 Certified

TEMPTRONIC

**inTEST** Thermal Solutions 41 Hampden Road

Mansfield, MA 02048

TEL: 1.781.688.2300

www.inTESTthermal.com

CE

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



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

System is configured for operation within voltages listed above using an internal transformer. Please specify power configuration with order