ATS-730-T THERMOSTREAM®

DATASHEET AND SPECIFICATIONS

-90° to +225°C



System shown with optional enclosure

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 (LCO₃).

PERFORMANCE:

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

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

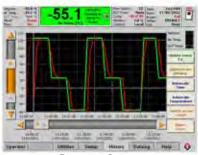
► Heated Defrost Feature

quickly removes moisture buildup from internal chiller

- ▶ Windows® OS
- ► Local & Remote Operations
- ► LabView[™] & LabWindows[®] 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



OPERATOR SCREEN



DATALOG SCREEN

APPLICATION OPTIONS:

▶ FlexExtender Hose

FlexExtender Hose for connection to external Thermal Chambers or enclosures. 2', 4', or 6' length standard, custom lengths available.

note: FlexExtender length affects performance

► MobileTemp[™] Thermal Chambers

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

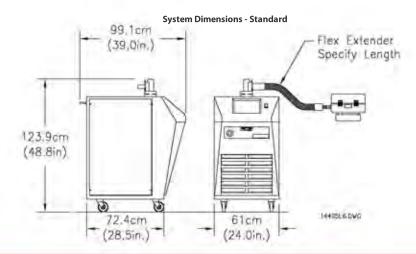


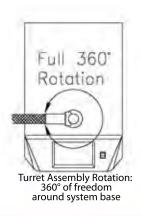
^{*} under nominal operating conditions ultimate low temperatures (±1°) achieved at 18scfm

Specifications

ATS-730-T THERMOSTREAM®

Advanced Temperature Source





Weights and Dimensions

Base¹ Width: 61.0 cm (24 in.), Depth: 72.4 cm (28.5 in.)

Height: 123.9 cm (48.8 in.)

System Weight Not packed: 226 kg (500 lbs.)

Packed: 341 kg (762 lbs.)

Mobility Four static dissipative, swivel caster wheels

FlexExtender Length FlexExtender hose available in 1', 2', and 4' standard lengths

custom lengths available

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

Power² 200 - 250 VAC (230V nominal), 50/60Hz

30 amp, 1 phase

Compressed Air³

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 3

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

www.inTESTthermal.com

TEMPTRONIC

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I system configured for operation within voltages littles above using an internal hardsomer. Please specify gover configuration with order lander operating constions which are greater of less than normal, performance may be less than operationation provided.





¹ an additional 20.3cm (8 in.) clearance is required for supply connections and cabinet ventilation