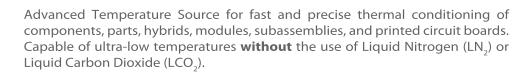
ATS-545-M THERMOSTREAM®

DATASHEET AND SPECIFICATIONS

-80° to +225°C





PERFORMANCE:

Temperature Range*

-75 to +225°C (50Hz) -80 to +225°C (60Hz) No LN₂ or LCO₂ 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

thermocouples (type T & K),

7.4 HOT 125.0 Temperature 'C DUT T Flow 0 sofa COLD -55.0 ESC CYCLE 0 CYCLE

OPERATOR **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)

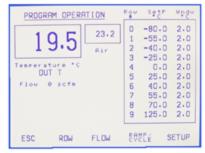
▶ ECO Friendly Feature

Heat Only Mode

reduces power usage when cold temperatures are not used

▶ Fully Adjustable Thermal Head

- ► Local & Remote Operations
- ▶ LabView™ drivers
- ▶ IEEE-488, RS232 ports
- customizable and savable test setups
- Program & Datalog Storage
- User Defined Temperature Limits



PROGRAM 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™ Thermal Chambers

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



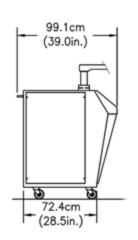
^{*} under nominal operating conditions ultimate low temperatures (±1°) achieved at 12scfm

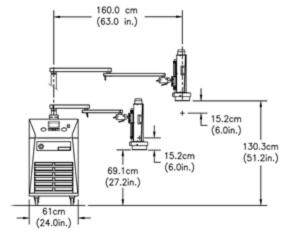
Specifications

ATS-545-M THERMOSTREAM®

Advanced Temperature Source

System Dimensions - Standard





Weights and Dimensions

Base ¹ 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

Power² 200 - 250 VAC (230V nominal),

50/60Hz 30 amp, 1phase

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)

6.2 to 7.6 BAR (90 to 110 PSIG)

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 Environment³

Operating Temperature $+20^{\circ}$ to $+28^{\circ}$ C; $+23^{\circ}$ C nominalHumidity0 to 60%; 45% nominal

Mansfield, MA 02048 TEL: 1.781.688.2300 www.inTESTthermal.com

inTEST Thermal Solutions 41 Hampden Road

TEMPTRONIC

ISO 9001 Certified



³ Under operating conditions which are greater or less than nominal, performance may be less than specification provided



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

² System is configured for operation within voltages listed above using an internal transformer. Please specify power configuration with order