ATS-645-M THERMOSTREAM®

DATASHEET AND SPECIFICATIONS





-80 to +225°C 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 temperatures (±1°C) achieved at 12scfm

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

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.



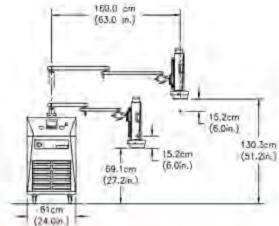
Specifications

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Advanced Temperature Source

System Dimensions - Standard





Weights and Dimensions

Base¹ 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

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

Service and Safety

RefrigerantsHCFC and CFC-free, non-toxic, non-flammableServiceabilityAuto-diagnostics and field replaceable modules

Over Temperature Protection +230°C (factory set): Operator can set high and low air temperature limits

Facility Requirements

Power² 60Hz only, system does not operate at 50Hz

200 - 250 VAC (230V nominal), 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)

Air Supply Pressure 6.2 to 7.6 BAR (90 to 110 PSIG)

Total Air Flow Rate Required7.1 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 ³

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



inTEST Thermal Solutions 41 Hampden Road Mansfield, MA 02048 TEL: 1.781.688.2300 www.inTESTthermal.com

ISO 9001 Certified



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

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