ATS-505 THERMOSTREAM®

DATASHEET AND SPECIFICATIONS

-20° to +225°C



ATS-505 SHOWN WITH OPTIONAL THERMAL STAND

Advanced Temperature Source for fast and precise thermal conditioning of components, parts, hybrids, modules, subassemblies, and printed circuit boards. Capable of low temperatures **without** the use of Liquid Nitrogen (LN₂) or Liquid Carbon Dioxide (LCO₃).

PERFORMANCE:

Temperature Range*
-20 to +225°C (50/60Hz)
No LN, or LCO, Required

System Airflow Output* 4 to 10 scfm (1.9 to 4.7 l/s) Continuous

+-20°C temperature achieved at 4scfm under nominal operating conditions

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)

FEATURES:

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



OPERATOR SCREEN

SYSTEM OPTIONS:

► Benchmount Stand Assembly

Attaches the Thermal Wand Stand Assembly directly to a bench top. Can be mounted up to 30.5cm (12 inches) from controller chassis.

► Pneumatic Wand Lift Assembly

Automates the raising and lowering of the Thermal Wand for the loading and unloading of the DUT.

► Thermal Stand Assembly

Expanding, locking, stand assembly for added stability and hands-free operation of the Thermal Wand. Rotates 340° around the controller cabinet for positioning the wand directly over the DUT.



PROGRAM SCREEN

APPLICATION OPTIONS:

► Thermal Cap

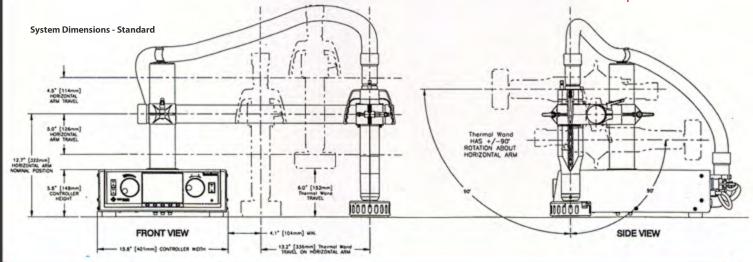
3.9 or 5.5 inch ID Thermal Cap



Specifications

ATS-505 THERMOSTREAM®

Advanced Temperature Source



Weights and Dimensions

Dimensions Controller: 40.1cm (15.8 inches) WIDE x 14.8cm (5.8 inches) HIGH x 48.9cm (19.2 inches) DEEP

Thermal Wand: 8cm (3 inches) DIAMETER, 36cm (14 inches) LONG

Stand: 48.25cm (19 inches) approximately above benchtop to top of post

Reach from Vertical Post: standard, 51cm (20 inches)

Weight Controller with Thermal Wand and Hose: 14.5 kg (32lbs.)

Thermal Wand Stand Assembly: 7kg (5.5 lbs.)

Thermal Cap: .45 kg (1lb.)

Noise Level <70dBA

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 ¹ 200 - 250 VAC (230V nominal),

50/60Hz 10 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: ambient to -40°C

Air Supply Pressure 5.6 to 7kg /cm2 (80 to 90 PSIG)

Total Air Flow Rate Required

5.6 kg/cm (90 PSIG) nominal
4 to 5 l/s (8-10 scfm)

4.5 l/s (9 scfm) nominal

Air Supply Temperature +20° to +28°C; +23°C nominal

Operating Environment²

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

Humidity 0 to 60%; 45% nominal

Reduced performance at operating conditions less than or greater than nominal 2-40C dewpoint is nominal for low temperature testing for extended periods

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



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

ISO 9001 Certified



