ATS-605 THERMOSTREAM®

DATASHEET AND SPECIFICATIONS



OPTIONAL THERMAL STAND

Designed for **60Hz operation only**, this Advanced Temperature Source is 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 (LCO₂).

PERFORMANCE:

Temperature Range*
-20 to +225°C
No LN, or LCO, Required

System Airflow Output*

4 to 10 scfm (1.9 to 4.7 l/s) Continuous

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

TEMPERATURE CONTROL:

Temperature Display & Resolution +/- 0.1°C

Temperature Accuracy

1.0°C (when calibrated against NIST standard)

-20° to +225°C

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

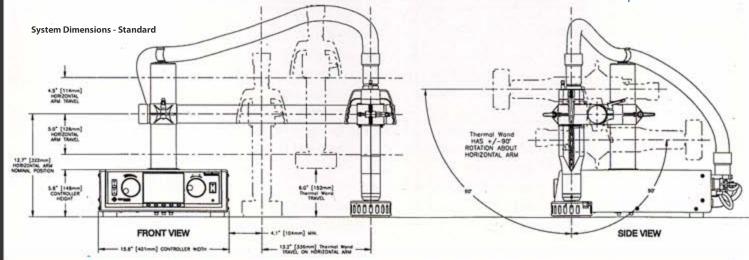
3.9 or 5.5 inch ID Thermal Cap



Specifications

ATS-605 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

Power¹ 60Hz only, system does not operate at 50Hz

115 \pm 10% VAC, 60 Hz 15 amp, 1phase 230 \pm 10% VAC, 60 Hz 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)

5.6 kg/cm (90 PSIG) nominal

Total Air Flow Rate Required4 to 5 l/s (8-10 scfm)
4.5 l/s (9 scfm) nominal

+20° to +28°C; +23°C nominal

Air Supply Temperature
Operating Environment²

+20° to +28°C; +23°C nominal

Operating Temperature +20° to +28°C; +23°C nor 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



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ISO 9001 Certified



