

ATS-505 THERMOSTREAM®

-20° to +225°C

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 (LCO₂).

PERFORMANCE:

Temperature Range*

-20 to +225°C (50/60Hz) No LN_2 or LCO_2 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)



ATS-505 SHOWN WITH
OPTIONAL THERMAL STAND



OPERATOR SCREEN



Program Screen

FEATURES:

- Customizable & savable test setups
- Program & Datalog Storage
- User Defined Temperature Limits
- · Local & Remote Operations
- LabView[™] drivers
- IEEE-488, RS232 ports

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

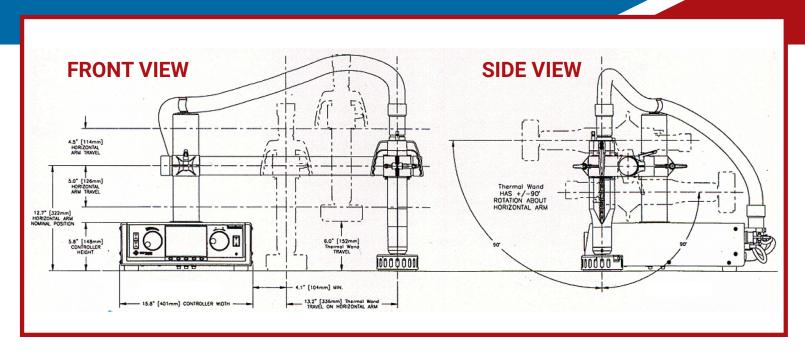
Expanding, locking, stand assembly for added stability and hands-free operation of the Thermal Wand. Rotates 340° around the controller cabinet for positioning the wand directly over the DUT.

APPLICATION OPTIONS:

Thermal Cap

3.9 or 5.5 inch ID Thermal Cap





FACILITY REQUIREMENTS		
Power ¹	200 - 250 VAC (230V nominal), 50/60Hz 30 amp, 1phase	
COMPRESSED AIR ²		
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 Required	4.0 to 6.2 l/s (8-13 scfm), 4.5 l/s (9 scfm) nominal	
Air Supply Temperature	+20° to +28°C; +23°C nominal	
OPERATING ENVIRONMENT ³		
Operating Temperature	+20° to +28°C; +23°C nominal	
Humidity	0 to 60%; 45% nominal	

WEIGHTS & DIMENSIONS		
Dimensions	Controller: 40.1cm (15.8 inches) WIDE 14.8cm (5.8 inches) HIGH 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 & 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	

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

extended periods

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

