

ATS-730E-T THERMOSTREAM®

-90° to +225°C

Advanced Temperature Source 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* - No LN, or LCO, Required -90 to +225°C

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**

Internal Diode, Thermocouples (T & K), RTD (100 Ohm platinum), Digital DUT



E Series Systems Equipped with Embedded Software Controls, Eliminating Windows® OS

- · Minimizes software and hardware obsolescence concerns
- · Improved responsiveness of the touch screen
- · Faster system boot and startup times

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 Features

- Automatic Power Reduction: reduces power usage during idle periods
- Heat Only Mode: reduces power usage when cold temperatures are not used

Heated Defrost Feature

Quickly removes moisture buildup from internal chiller

- Embedded Control System
- Local & Remote Operations
- Ethernet, IEEE-488, RS232 ports
- Customizable and savable test setups
- Datalog Storage (USB)
- User Defined Temperature Limits

- · Significant reduction in security vulnerabilities

APPLICATION OPTIONS:

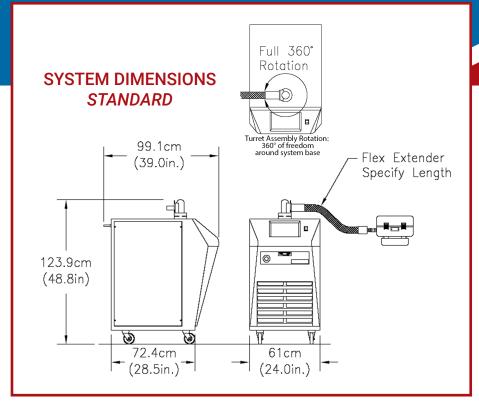
FlexExtender Hose

FlexExtender Hose for connection to external Thermal Chambers or enclosures. 2', 4', or 6' length standard, custom lengths available. Note: FlexExtender length affects performance

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 18scfm





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: <10°C @ 6.2 BAR (90PSI)	
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	
Air Supply Temperature	+20° to +25°C; +22°C nominal	
OPERATING ENVIRONMENT ²		
Operating Temperature	+20° to +28°C; +23°C nominal	
Humidity	0 to 60%; 45% nominal	

WEIGHTS & DIMENSIONS		
Base ³	Width: 61.0 cm (24 in.), Depth: 72.4 cm (28.5 in.), Height: 123.9 cm (48.8 in.)	
System Weight	Not packed: 226 kg (500 lbs.), Packed: 341 kg (762 lbs.)	
Mobility	Four static dissipative, swivel caster wheels	
FlexExtender Length	FlexExtender hose available in 1', 2', and 4' standard lengths, custom lengths available	
Noise Level	<65dBA	

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	

¹System is configured for operation within voltages listed above using an internal transformer. Please specify power configuration with order ²Under operating conditions which are greater or less than nominal, performance may be less than specification provided



³An additional 20.3cm (8 in.) clearance is required for supply connections and cabinet ventilation