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*
  - -95 to +225°C (50Hz)
  - -100 to +225°C (60Hz)
  - No LN₂ or LCO₂ Required
- Transition Rate*
  - -55 to +125°C, approx. 12 seconds or less
  - 125 to -55°C, approx. 12 seconds or less
  - *under nominal operating conditions
- System Airflow Output*
  - 4 to 12 scfm (1.9 to 5.6 l/s) Continuous
  - *under nominal conditions
  - ultimate low temperature achieved at 8 scfm

**FEATURES:**
- **Frost Free Feature**
  - dry air purge for tester interface, prevents condensation: 0.5 to 3 scfm (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
- **Fully Adjustable Thermal Head**

**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.
ATS-770-M THERMOSTREAM®
Advanced Temperature Source

Specifications

Weights and Dimensions

Base
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
160.0 cm (63 in.)

Maximum Operating Height
130.3 cm (51.2 in.) - extended height option: 188.0 cm (74.0 in.)

Minimum Operating Height
69.1 cm (27.2 in.) - extended height option: 81.3 cm (32.0 in.)

Noise Level
<65dBA

**Footnotes:**
1. Additional 25.4 cm (10 in.) clearance is required for supply connections and cabinet ventilation

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
200 - 250 VAC (230V nominal), 50/60Hz
30 amp, 1 phase

Compressed Air
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 (90PSIG)

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

**Footnotes:**
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.

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