

ECO-560/660-HT ThermoStream® Temperature Forcing System

Temperature forcing system 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 (LN_2) or Liquid Carbon Dioxide (LCO_2).

Performance:

Temperature Range*

-60 to +200°C (50/60Hz)
No LN_2 or LCO_2 Required

Transition Rate*

-40 to +105°C, approx. 15 seconds or less
105 to -40°C, approx. 35 seconds or less

System Airflow Output*

4 to 18scfm (1.9 to 8.5 l/s) Continuous

* Under nominal operating conditions. Ultimate low temperatures ($\pm 1^\circ$) achieved at 12scfm.

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 (T & K)

Features:

- **Frost Free Feature**
Dry air purge for tester interface, prevents condensation: 0.5 to 3scfm (0.25 to 1.5 l/s)
- **Local & Remote Operations**
- **LabView™ & LabWindows® driver**
- **Ethernet, IEEE-488, RS232 ports**
- **Customizable and Savable Test Setups**
- **User Defined Temperature Limits**

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
- **Manual or Automatic Flow Control**
Optional Automatic Flow Control enables main air control from digital touch screen



Operator Screen



Data Graphing Screen

Contact : Info@simacmasic.nl for more info or

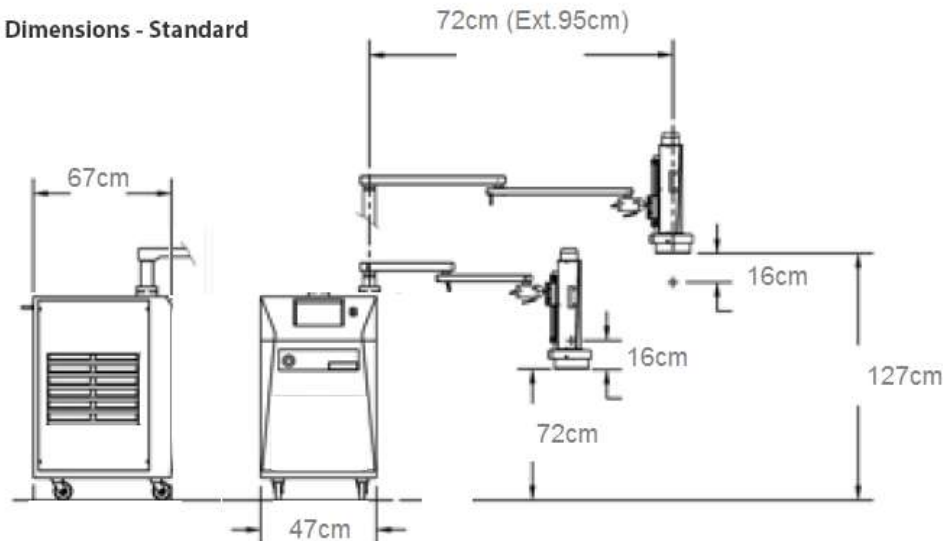
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Specifications ECO-560-M THERMOSTREAM®

With *WhisperStream* quiet technology

System Dimensions - Standard



Operator Screen



Data Graphing Screen

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ECO-560/660-HT ThermoStream Performance

Weight and Dimensions	
Base ¹	Width: 46.4 cm Depth: 66.7 cm Height: 142.2 cm
System Weight	Not packed: 181 kg Packed: 227 kg
Mobility	Locking swivel caster wheels
Maximum Reach	72 cm (Ext. 95cm.)
Maximum Operating Height	127 cm.
Minimum Operating Height	72 cm.
Noise Level	<57 dBA
¹ an additional 20.3cm (8 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 ²	200 - 250 VAC (230V nominal) 50/60Hz 30 amp, 1phase
Compressed Air ³ : 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 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 ³ Operating Temperature	+20° to +28°C; +23°C nominal
Humidity	0 to 60%; 45% nominal
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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