

Thermoelectric Temperature Chamber

- ◆ 0.96 Cu Ft Workspace
- ◆ Temperature Range +10°C to +60°C
- ◆ Platinum RTD Temperature Sensor
- ◆ Programmable Temperature Controller
- ◆ RS-232 Interface, Optional GPIB and LAN
- ◆ Thermoelectric Cooling and Heating - No Compressors, No Heaters
- ◆ Low-Noise Operation, <50 dBA
- ◆ Weighs only 52 Pounds



Thermoelectric Cooling and Heating

Thermoelectric (Peltier) Devices are used for cooling and heating instead of a compressor and heater. Lower noise than compressor-based systems and highly reliable.

Low Power Consumption

Draws less than 6 Amps at 115 Volts. You can plug it into any standard wall receptacle, with plenty of power to spare for other equipment. The internal power supply is switchable for 230 Volts, 50 Hz operation in other countries.

High Reliability

No compressors to fail, no refrigerant to leak, no heaters to burn up.

Two Cable Slots

Lets you attach wires and sensors to your test sample through both the left and right side of the chamber without disconnecting your wires.

Programmable Temperature Controller

Allows ramp/soak programming with up to four profiles and 40 total steps. A bright LED readout indicates the actual chamber temperature and set point with 0.1° resolution. Auto-tuning allows you to optimize the control response to suit your unique application. RS-232C interface is included. Optional interface for GPIB or LAN is available, and can be added at any time.

Model TEC1



Specifications

Temperature Range	+10°C to +60°C			
Control Tolerance	±0.1°C			
Uniformity	±1.0°C (+15°C to +55°C)			
Cool Down Time (empty chamber)				
Start Temp	End Temp			
+55°C	+37°C	+23°C	+15°C	+10°C
	7 min	16 min	23 min	Ultimate
Heat Up Time (empty chamber)				
Start Temp	End Temp			
+15°C	+23°C	+37°C	+55°C	+60°C
	2 min	5 min	11 min	Ultimate
Live Load Capacity	+37°C	+23°C	+15°C	+10°C
	90 W	50 W	35 W	20 W
Input Voltage	88 to 132VAC / 176 to 264VAC, 50/60 Hz (internal switch for voltage range)			
Current Draw	6A at 115 VAC, 3.5A at 230 VAC			
Inside Dimensions	16" W x 8" H x 13" D (0.96 cubic feet)			
Outside Dimensions	24.7" W x 12" H x 20.4" D (nominal)			
Cable Slots	1" x 3" Cable Slot on left and right side			
Weight	Net: 52 lbs			

NOTE: Performance is typical and based on operation at 23°C (73°F) ambient and nominal input voltage. This product is designed for use in a normal conditioned laboratory. Operation at higher ambient temperatures will result in decreased cooling performance. Operation above 27°C (80°F) will have a significant impact on low-temperature operation.

Visit www.testequity.com/tec1 for complete specifications.

www.testequity.com

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