



TestEquity 3007-LN2 Temperature Chamber Specifications



Temperature Range	-100°C to +175°C (settable to -150°C but performance is not guaranteed)
Control Tolerance	±1.0°C (Measured at the control sensor after stabilization)
Uniformity	±1.0°C (Variations throughout the chamber after stabilization)
Cooling System	Cooling is exclusively with Liquid Nitrogen (LN2). Does NOT contain any mechanical refrigeration. Requires an LN2 supply pressure between 10 PSIG and 75 PSIG. Customer is responsible for all LN2 infrastructure components and providing a supply of LN2.
Cooling Rate (empty chamber)*	30°C/minute from +150°C to -100°C
Heat Up Ramp Rate (empty chamber)*	20°C/minute from -100°C to +150°C
* NOTE: Ramp rates are measured at the control sensor after a 2 hour soak at the respective start temperature with an empty chamber. Measured with set point set beyond the start and end temperatures. Ramp rates do not include the effect of proportional band when approaching set point.	
Input Power Requirements	230 V ±10%, 60 Hz, 3 PH Max Current Draw 25 A; Recommended Service 30 A 208 V -5/+10%, 60 Hz, 3 PH Max Current Draw 22.5 A;

	Recommended Service 30 A Input may be configured for nominal 208 V or 230 V in the field by changing jumpers. Call for other voltages or 50 Hz operation.
Workspace Dimensions	24" W x 21" H x 24" D (7 cubic feet)
Outside Dimensions	33" W x 79" H x 54.25" D (nominal) Door latch adds 3" to width on right side, may be removed for move-in.
Access Ports	4" Port on left and right side (two total), Supplied with foam plugs.
Net Weight	850 pounds
Instrumentation	
Temperature Controller	Watlow F4T Touch Screen Controller with Part Temperature Control , RS-232, Ethernet interface, 4.3" color graphic touch screen
Limit Controller	Independent high and low temperature limits. Triggers an audible alarm and shuts down the chamber. Relay contacts provide a safety power interlock for test sample.
Chart Recorder	(Optional) Honeywell DR4300 Series. One pen, 10" circular chart. Mounts in lower front door.

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. Due to continuous product improvement, specifications are subject to change without notice.