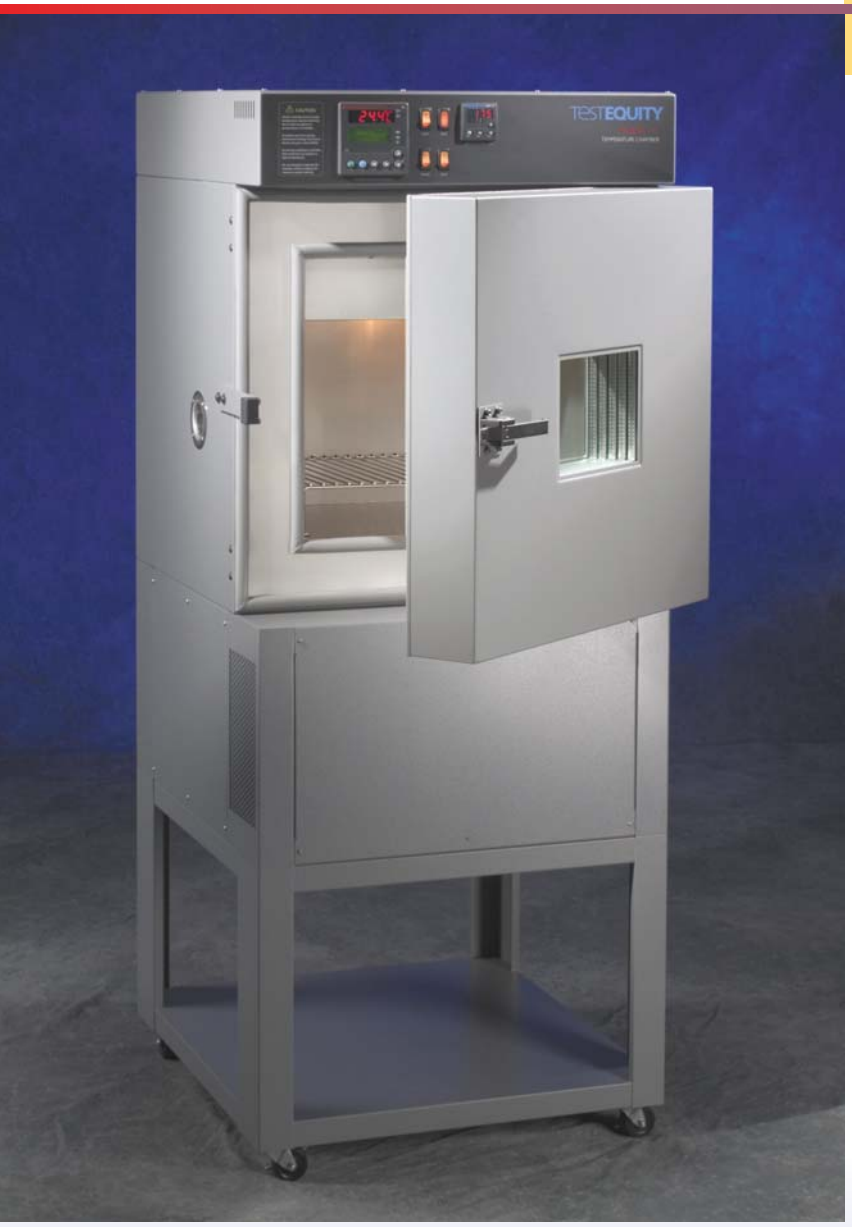
Model 115

Temperature Chamber



The new TestEquity Model 115 provides full-range temperature testing in a compact floor-standing or benchtop package. Its rugged design includes a variety of standard features, making it an exceptional value.

- 1.55 Cu Ft Workspace
- -73°C to +175°C Temperature Range
- Programmable Temperature Controller
- RS-232 Interface, Optional GPIB
- LabVIEW Drivers
- High/Low Limit Control & Alarm
- Access Ports on Left and Right Side
- Viewing Window & Interior Light
- Reversible Door
- Non-CFC Cascade Refrigeration
- Compact Floor-Standing & Benchtop Versions
- 120V Input
- Low Maintenance Design
- Fast Delivery from Stock

Programmable Temperature Controller
Easy to use microprocessor-based controller stores 256 steps in up to 40 profiles. Includes an RS-232C interface.

High/Low Temperature Limit Controller and Alarm
Provides user-adjustable independent protection against excess temperatures.

Viewing Window and Interior Light
Six-pane window minimizes thermal losses.

Shelf
A stainless steel wire shelf ensures proper airflow around your test sample for uniform temperature distribution.

Casters
The Model 115F floor-standing version includes casters to permit easy movement, making the chamber truly portable.

Two 2" Access Ports
Lets you attach wires and sensors to your test sample through both the left and right side of the chamber.

120 Volt Input
Plugs into a standard 120 Volt, 20 Amp outlet.

World's Best Chamber Warranty
Only TestEquity offers a 3-year warranty on parts and 1-year warranty on labor at your domestic site. Our nationwide service network is qualified to do the job right. And we always have replacement parts in stock for immediate shipment.

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Easy to Use Programmable Controller

Up to 256 steps can be programmed into as many as 40 nameable profiles. The context sensitive information key and guided steps make profile programming fast and easy. A four-line backlit LCD displays programming, setup, operating and help information. A large LED readout indicates the actual chamber temperature with 0.1° resolution. Internal logic provides refrigeration compressor control for responsive and reliable performance. Includes an RS-232 interface. Optional GPIB interface is available.

High/Low Limit Controller & Alarm

Provides independent protection against excess temperatures. Both high and low limits can be set. The limit controller will shut down the chamber and trigger the audible alarm in the event of an out of limit condition.

Reversible Chamber Door

The chamber door is reversible, allowing the door to open from the left or right side.

Reliability and Safety That's Designed In

Non-CFC refrigerants are used in a cascade (two compressors) configuration. Pressure controls keep the operating pressures within safe limits regardless of load conditions. Liquid injection ensures cool compressor operation during high-temperature cool down for long life. Sequential starting of each compressor reduces the current demand on start-up. Compressors are protected by high/low pressure switches. Care has been taken to use a minimum number of fittings, joints and welds to reduce the possibility of refrigerant leaks.

All electrical control components are UL approved. The nichrome air-heater has a low watt-density and even heat distribution for reliable performance and fast response. A fusible link provides fail-safe protection against thermal runaways, in addition to the microprocessor-based high/low limit controller.

We use a combination of structural foam and fiberglass blanket insulation for a higher combined R-factor than just fiberglass alone. The side and rear panels are removable to permit complete access to the refrigeration system for ease of service and preventive maintenance.

Temperature Range	-73°C to +175°C				
Control Tolerance	±0.2°C				
Uniformity	±0.5°C				
Cool Down Time (empty)					
		End Temp			
Start Temp	**+23°C**	**0°C**	**-40°C**	**-55°C**	**-65°C**
+23°C	---------	5 min	20 min	30 min	40 min
+85°C	16 min	25 min	45 min	57 min	69 min
Heat Up Time	5°C/minute typical (empty)				
Live Load Capacity	+23°C	0°C	-40°C	-55°C	-65°C
	300 W	255 W	160 W	110 W	80 W
Input Voltage	120 VAC nominal (110 to 126 VAC), 1 PH, 60 Hz				
Current Draw	Max Current Draw 15 A ; 20 A Service Required				
Line Cord	6' with NEMA 5-20P Plug				
Inside Dimensions	16" W x 12" H x 14" D (1.55 Cubic Feet)				
Outside Dimensions	**115B Benchtop**	24" W x 44" H x 26" D			
	115F Floor	24" W x 61" H x 26" D			
Installed Clearance	12" from the rear required for ventilation				
Access Ports	2" Port on left and right side (two total)				
Weight	**115B Benchtop**	Net: 275 lbs; Shipping: 320 lbs			
	115F Floor	Net: 300 lbs; Shipping: 345 lbs			
Sound Level	52 dBA in cooling mode				

NOTE: Performance is typical and based on operation at 23°C (73°F) ambient and nominal input voltage with an empty chamber. Designed for use in a normal conditioned laboratory. Operation at higher ambient temperatures will result in decreased cooling performance. Operation above 30°C (85°F) or below 16°C (60°F) ambient is not recommended.

Model 115B Benchtop Version

Available Options

- GPIB Interface
- Additional Shelves
- Additional Ports
- 50 Hz Export Version

Also Available for Rent

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