

Environmental Test Chamber

-100° F to 1000° F (-73° C to 537° C)

For use in advanced materials testing applications where temperature control is critical



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UNITED TESTING SYSTEMS


Environmental Test Chamber

-100° F to 1000° F (-73° C to 537° C)

Engineered and manufactured in accordance with United's exacting quality standards, the United Environmental Chamber provides unparalleled accuracy and ease of operation while offering the assurance of years of reliable, service. Designed to allow both tensile and compression testing to be conducted in a high or low-temperature environment, the chamber can be utilized with a variety of universal testing machines.

Standard Features of the United Environmental Chamber:

- Double Articulating Door
- Remote Control Panel
- Quartz Enclosed Heaters
- Stainless Steel Interior
- Ceramic Fiber Insulation
- Interior Lighting
- Over-temperature Safety Switch
- Viewing Window
- Door-activated Cutoff Switch
- Adjustable Door Latches
- Breakaway Safety Plugs
- 1/3 HP 1,725-rpm Fan Motor
- Height-adjustable Floor Stand

Control System:

- Digital temperature controller
 - Remote control enclosure
- Time-proportioning auto reset feature

Safety Features:

- Door-activated cutoff switch
 - Over-temperature switch
 - Breakaway plugs
- Thermocouple break protection

Add-on Options

- Hand ports for internal sample manipulation
- Side window (use with laser extensometer)
 - Lower-limit temperature to -300°F
- Solid state, digital high or low safety controls
 - Dimensional changes
 - Special paint

	UEC 2.0-600	UEC 3.5-600	UEC 3.5-1000
Interior Volume	2.0 ft ³	3.5 ft ³	3.5 ft ³
Temperature Controls	± 2°F after stabilization		
Power	220V AC Single Phase 60Hz		
Heating	Electrical resistance		
Cooling	CO2 or LN2		
Insulation Material	High-density Ceramic Fiber		
Inner Liner	Stainless steel		
Temperature Range	- 100° F to + 600° F	- 100° F to + 600° F	- 100° F to + 1000° F
Front Window Size	4-5/8" x 7-1/4" (11.7 cm x 18.4 cm)	5-5/8" x 7-1/4" (14.3 cm x 18.4 cm)	
Internal Workspace	9"W x 20"H x 20"D (22.9 cm x 50.8 cm x 50.8 cm)	15-1/2"W x 20"H x 20"D (39.4 cm x 50.8 cm x 50.8 cm)	
External Dimensions	13"W x 24-1/2"H x 38-1/2"D (33.0 cm x 62.2 cm x 97.8 cm)	20-1/2"W x 24-1/2"H x 38-1/2"D (52.1 cm x 62.2 cm x 97.8 cm)	
Weight	275 lbs. (125 kg)	325 lbs. (148 kg)	