

United

AN ISO 9002
COMPANY

Bulletin #71

ENVIRONMENTAL CHAMBER



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

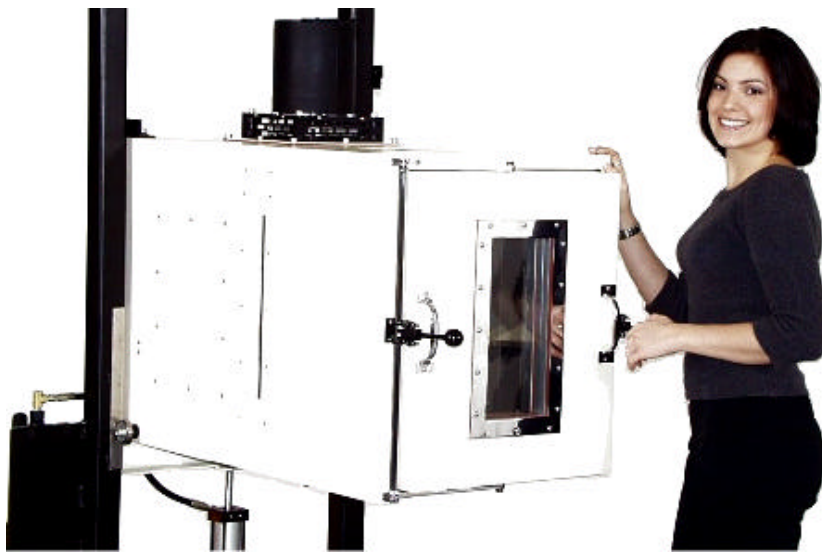
Adjustable Door Latches

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
- Temperature is read directly from digital display

Heating System:

- Eight quartz-enclosed heating elements
- Contamination-proof
- Enhance temperature stability

Insulation:

- High-density ceramic fiber
- 14-gauge steel outer shell
- 300-series stainless steel inner liner

Cooling:

- Cooling medium: CO₂ or LN₂
- Solenoid valve controls flow of cooling medium

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

Specifications :

	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	CO ₂ or LN ₂		
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
Window Size	4-5/8" x 7-1/4" (11.7cm x 18.4cm)	5-5/8" x 7-1/4" (14.3cm x 18.4cm)	5-5/8" x 7-1/4" (14.3cm x 18.4cm)
Internal Workspace	9"W x 20"H x 20"D (22.9cm x 50.8cm x 50.8cm)	15-1/2"W x 20"H x 20"D (39.4cm x 50.8cm x 50.8cm)	15-1/2"W x 20"H x 20"D (39.4cm x 50.8cm x 50.8cm)
External Dimensions	13"W x 24-1/2"H x 38-1/2"D (33.0cm x 62.2cm x 97.8cm)	20-1/2"W x 24-1/2"H x 38-1/2"D (52.1cm x 62.2cm x 97.8cm)	20-1/2"W x 24-1/2"H x 38-1/2"D (52.1cm x 62.2cm x 97.8cm)
Weight	275 lbs. (125 kg)	325 lbs. (148 kg)	325 lbs. (148 kg)

Check Our

WEB

Site

www.tensiletest.com

The logo for United Testing Systems, Inc. features the word "United" in a bold, white, sans-serif font inside a black rectangular box. To the right of this box is a horizontal bar with a red top half and a blue bottom half.

United

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Manufactured in the USA by United Calibration Corporation