CSZ
Cincinnati Sub-Zero

Temperature/Humidity, Vibration Chambers

CV-Series

AV-Series

Vibration Chambers

Cincinnati Sub-Zero's AV/CV-Series chambers offer rapid temperature change rates to reduce product development time and improve product reliability. These chambers are available for temperature & vibration testing or temperature, humidity and vibration. All models are designed for compatibility with your choice of electrodynamic or mechanical vibration systems. While each model is manufactured to standard designs, they may also be custom engineered to meet a wide range of stringent test requirements.

Features & Benefits

- Simulates up to 3 Combined Environments in one Chamber
- Versatile - Chamber may interface with your existing vibration shaker or new shaker of your choice
- Dual Purpose - May be operated as a separate temperature/humidity chamber maximizing your investment
- High performance with fast change rates for accelerated stress testing
- Customizable design to meet stringent test requirements
- User-friendly controls for easy integration into your test system
- Refrigeration design protects compressors and prolongs life keeping cool during all operating conditions
- Refrigeration design uses less power saving operating costs
- An electronic humidity sensor is used on all humidity models for accuracy and minimal maintenance*
- Humidity water filtration system is included to filter impurities and protect your chamber interior*

Temperature Range

Cascade: -73°C to +190°C (-100°F to +375°F)
Single Stage: -34°C to 190°C (-30°F to 375°F)
Tundra®: -45°C to 190°C (-49°F to 375°F)
Tundra® II: -54°C to 190°C (-65°F to 375°F)

Humidity Range

10% to 95% relative humidity as limited by a +85°C (+185°F) maximum dry bulb and +4°C (+40°F) minimum dewpoint.

Standard Features

• 2.875" Access Port	• Fused Electrical Components
• Non-Settling Fiberglass Insulation	• EIA-232/485 Computer Interface
• Fog-Free Wiperless Window	• Solid State RH Sensor*
• Diaphragm Interface to Shaker	• Refrigeration Service Taps
• Adjustable Chamber Height**	• Digital Display Temp. Limit & Alarm
• Rear Sliding Door	• Zero Ozone Depletion Refrigerants
• Brushed Stainless Steel Interior	• Refrigeration High Temperature Protection
• High Volume Air Flow	• Water Cooled Condenser
• EZT-560i Touch Screen Controller	• Refrigeration Pressure Gauges
• Internal Light with Switch	• Humidity Demineralizer Water System*

* Humidity units only   ** AV-Series Only

Optional Accessories & Custom Capabilities

• Casters	• IEEE-488 Computer Interface
• Shelving	• Running Time Meter
• Additional Access Ports	• 50 Hz. Operation
• 781C Moisture Injection System	• Electrical Disconnect Switch
• Vertical Lift Door	• EZ-View Software
• Vibration Sound Deadening	• Explosion-Proof Electrical
• Cable Notch	• Ultra High & Low Temperatures
• Solid Floor Plug	• Compliance to all Wiring Standards
• Custom-Size Chambers	• Custom Control Interface Capability
• Remote Instrument Console	

Time-Saving Features to Test Faster
EZ➔Programming   EZ➔Datalogging   EZ➔To be Connected to Your Test World

CSZ's EZT-570*i* controller offers a 7" or 10" touch screen and the latest in test chamber programming. **Flexible configurations along with a full range of user-friendly features combine to simplify programming and save valuable time for greater return on your investment.** Intuitive controller includes built-in data security & safeties to protect your chamber and product under test.

Communications & Connectivity

• Ethernet capability to remotely monitor and control multiple test chambers. Wired, wireless, local area network or World Wide Web Ethernet connectivity provides anytime, anywhere access using a PC or PDA device.

• Alarm notification system sends email and/or text phone messages in the event of a test chamber alarm, saving valuable tests while reducing downtime.

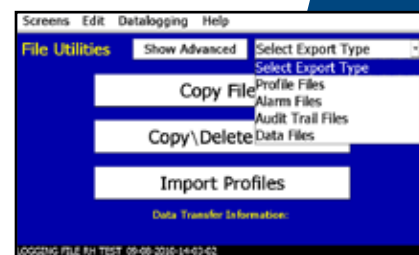• Integrated email sends data files directly from the controller with a touch of a button.

Data Logging

• Data logging with custom file names, batch & lot numbers, operator events & digital signatures.

• Automated "Ethernet" back-up of data files provides "hassle free" file management.

• Easily download profiles, alarm files, audit trail files and data files to a USB memory stick in a compatible .CSV file format. Also import profiles to other chambers saving valuable profile entry time.

• Access data files directly from controller or PC.

User Convenience & Flexibility

• Real time & historical trend graphs. Print graphs directly to a printer.

• Profile status view provides details on the profile with stop date and time.

• Profile autostart allows profiles to begin at a date, day and time.

• Help menu provides text and voice assistance in multiple languages (English, Spanish, French or Chinese).

Enhanced Functionality

• Adapt-a-tune technology provides the ultimate in chamber performance and control stability.

• Product control feature accelerates temperature cycling of the device under test.

• Product high/low limit protects product.

• Selectable power failure/recovery options.

• Fully configurable alarm settings.

• Full system security allows up to 30 different users with three different levels of security.

The Experience you Rely on...

Cincinnati Sub-Zero (CSZ) Products, Inc. is an ISO-9001 certified company with over 70 years of industry experience designing and manufacturing temperature-controlled products of the highest quality, with a commitment to total customer satisfaction.

At CSZ, we offer a complete line of both standard and custom-designed environmental simulation chambers including:

- Temperature Cycling
- Humidity
- Stability Cabinets & Rooms
- Thermal Shock
- Stress-Screening
- Altitude
- AGREE Vibration

- Freezers
- Liquid Chillers
- Liquid Chillers
- Wind & Rain
- Sand & Dust
- Other Temperature Management Solutions

Sizes range from benchtop to full walk-in/drive-in chambers.

TESTING SERVICES

CSZ Testing Services is an A2LA Accredited Test Laboratory utilizing the latest test technology. CSZ is your one stop source for all of your environmental simulation testing needs. Our testing laboratory is here to help with your product qualification testing, overflow testing and /or third party product validation. Testing capabilities include Temperature, Humidity, and/or Vibration, Thermal Shock, Burn-in, Altitude, Vibration, Shock, Salt Spray, and Cyclic Corrosion test. Serving you from two locations in Cincinnati, OH and Sterling Heights, MI. For more information please call CSZ Testing headquarters at 513-793-7774 or visit **www.csztesting.com.**

CSZ is your one stop solution for ...

- Environmental Chambers
- Freezers
- System Upgrades
- Preventative Maintenance
- Calibration Services
- Contract Testing Services

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