Cincinnati Sub-Zero



Walk-In Series

Temperature/Humidity Chambers





ISO-9001
CERTIFIED

Pre-Engineered Performance

Walk-In Test Chambers

Cincinnati Sub-Zero s Walk-In chambers are used to test a wide range of products under specific temperature and humidity conditions. Whatever you need to test, from circuit boards to full-size vehicles, our Walk-In chambers are designed to provide the solutions you need to meet your most demanding test requirements. Applications include, but not limited to, automotive testing, electronic testing, aerospace testing, material storage, coating preparation, or packaging materials evaluation. Wind, rain, solar, acoustic or vibration systems can also be added to your Walk-In chamber to simulate different environments. Each chamber is configured and fully tested at the factory to meet your test specifications of today and for many years to come. Our factory-trained personnel can also assist with the installation and start-up of your new Walk-In Chamber.

WM-Series Modular Walk-In Chambers

Modular Walk-In chambers use pre-fabricated panels and offer flexibility to meet virtually any test or size requirement. These chambers are easily assembled, installed and can be expanded for future applications. Modular chambers are constructed of 4 thick polyurethane-foamed panels that lock together to form a tightly sealed chamber. Select from stainless steel, aluminum, or galvanized construction to fit your specific needs. Standard floors will support evenly distributed loads to 600 lbs./sq. ft. However, floor reinforcement is available for larger capacities.

Modular Walk-In Performance	
Single Stage Temperature Range -34°C (-30°F) to +85°C (+185°F) Ultimate low -40°C (-40°F) **Cascade Temperature Range** -68°C (-90°F) to +85°C (+185°F) Ultimate low -73°C (-100°F)	**Humidity Range** 10% to 95% RH relative humidity as limited by a +70ºC (+158ºF) maximum dry bulb, +4ºC (+40ºF) minimum dewpoint and +63ºC (145ºF) maximum dewpoint. **Power Requirements** 460, 230/240, 208 volts, 3 phase, 60 hertz.

WW-Series Welded Walk-In Chambers

Welded Walk-In chambers are fabricated to allow wider temperature and humidity ranges. Each chamber is constructed using a zinc coated exterior and a Type 304 stainless steel interior with a polyurethane enamel finish. Fiberglass insulated walls are 6 thick with seams that are continuously welded to form a hermetically sealed unit inside a structural steel frame.

Welded Walk-In Performance	
Single Stage Temperature Range -34°C (-30°F) to +177°C (+350°F) Ultimate low -40°C (-40°F) **Cascade Temperature Range** -68°C (-90°F) to +177°C (+350°F) Ultimate low -73°C (-100°F)	**Humidity Range** 10% to 95% RH relative humidity as limited by a +85ºC (+185ºF) maximum dry bulb, +4ºC (+40ºF) minimum dewpoint. **Power Requirements** 460, 230/240, 208 volts, 3 phase, 60 hertz.

Modular Panel or Welded Walk-In Chamber?

Benefit	Modular Panel Type	Welded Type
Economical	X	
Easy Move-In & Assembly	X	
Easy Installation	X	X
Choice of interior and exterior finishes	X	
Extended Temperature Range		X
Extended Humidity Range		X
Fast Change Rate	X	X

Standard and Custom Options for the Walk-In Series ...

STANDARD FEATURES INCLUDED WITH YOUR WALK-IN CHAMBER

Chamber
- ☑ Modular Panel or Welded Construction
- ☑ Aluminum, Galvanized, or Stainless Steel Interior
- ☑ Non-Settling Low K Factor Foam or Fiberglass Insulation
- ☑ Safety Release Latches
- ☑ Window with *Wiper
- ☑ Removable Service Panels
- ☑ Interior Light(s) with Switch
- ☑ Fan Guards

Refrigeration
- ☑ Refrigeration High Temperature Protection
- ☑ Refrigeration Pressure Gauges
- ☑ Refrigeration Reset (3 HP & Over)
- ☑ Compressor Overload Protection
- ☑ Refrigeration Service Taps
- ☑ *Humidity Demineralizer Cartridge
- ☑ Water-Cooled Condenser
- ☑ Zero Ozone Depletion Refrigerants
- ☑ Compressor Crankcase Heater
- ☑ Pressure Relief Devices

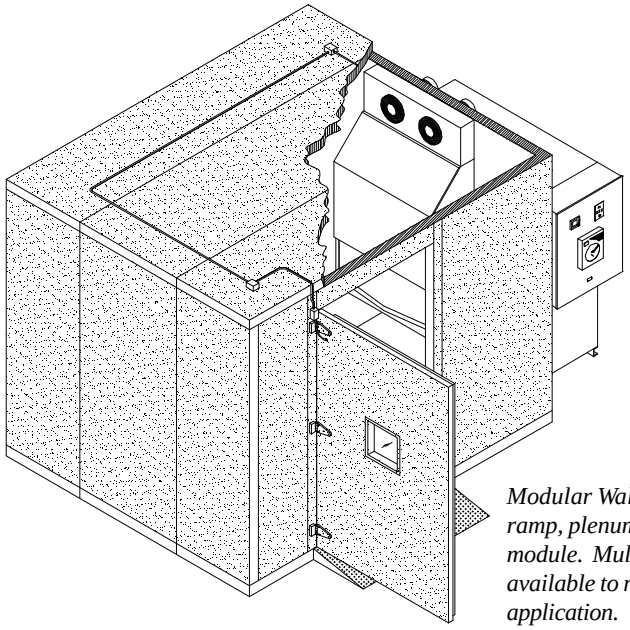
Electrical
- ☑ Programmable Controller
- ☑ Digital Display Temp. Limit & Alarm
- ☑ EIA-232/485 Computer Interface
- ☑ Solid State Humidity Sensor
- ☑ Fused Electrical Components
- ☑ Oil Pressure Switches (3 HP & Over)
- ☑ High and Low Pressure Switches (3 HP & Over)

*Humidity units only

Performance can be further enhanced with an extensive variety of optional accessories and custom capabilities. A complete selection of optional accessories are available without causing long delays in shipment.

OPTIONAL ACCESSORIES
- ☑ Access Ports
- ☑ Outdoor Roof Kit
- ☑ Additional/Oversize Doors
- ☑ Entry Ramp
- ☑ Reinforced Treaded Floor
- ☑ Heated Door Frame
- ☑ A Selection of Programmable Controllers
- ☑ Windows-Based Software Packages
- ☑ IEEE-488 Computer Interface
- ☑ Running Time Meter
- ☑ 50 Hz. Operation
- ☑ Temperature Recorders
- ☑ Electrical Disconnect Switch
- ☑ Internal or External Emergency Stop Switch
- ☑ Vapor Proof Lights
- ☑ Remote Instrument Console
- ☑ Refrigeration Sound Deadening Package
- ☑ Dry Air Purge System
- ☑ Recirculating Humidity Water Supply
- ☑ Extended Relative Humidity Range
- ☑ Air Cooled Condenser
- ☑ Remote Refrigeration System
- ☑ Special Paint Colors Available

CUSTOM CAPABILITIES
- ☑ Explosion-Proof Electrical
- ☑ LN_2/CO_2 Boost Cooling
- ☑ Ultra Low Temperatures
- ☑ Ultra High Temperatures
- ☑ Solar Simulation
- ☑ Custom-Size Chambers
- ☑ Custom Control Interface Capability
- ☑ Compliance to Special Wiring Standards
- ☑ Vibration Simulation
- ☑ Sound Attenuation
- ☑ Wind Simulation
- ☑ Rain Simulation
- ☑ CE Approval



Modular Walk-In Chamber showing ramp, plenum, and conditioning module. Multiple configurations are available to meet your specific application.

Meeting the needs of our customers...

Cincinnati Sub-Zero has designed thousands of test chambers for special applications. We can custom design the right environmental testing system for you. Whether you require environmental test chambers, thermal shock/temperature cycling units or special calibration bath systems, CSZ is prepared to design and build the test chamber to fit all your needs.

Parts

CSZ maintains a complete parts inventory that are readily available for overnight delivery - increasing your uptime.

Service

Our factory-trained dealer service organizations throughout the world are supported by CSZ field service technicians. This combination of experts assures timely, professional and cost-effective installation, start-up, and service.

With Sales and Service locations across the United States, we can provide complete customer support for all of your environmental simulation needs.



CSZ
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