



Environmental Testing Chambers

PRECISION FOR YOUR RESEARCH,
INNOVATION FOR YOUR INDUSTRY



Environmental Testing Chambers

PRECISION FOR YOUR RESEARCH, INNOVATION FOR YOUR INDUSTRY

Tailored Solutions for Your Research Needs

Corepoint® Scientific's advanced environmental chambers provide precise and reliable control of temperature and humidity, ensuring critical consistency for demanding applications. Our products are purposefully designed to meet the unique requirements of various industries, enabling users to achieve dependable results across testing, research, and storage protocols.

Whether maintaining stringent stability conditions in pharmaceutical development, supporting thermal stress testing in industrial manufacturing, or conducting biological oxygen demand studies in environmental science, Corepoint chambers deliver unmatched performance and reliability.

- **Advanced PID controls:** Accurate regulation of temperature across all models.
- **Sustainable materials:** High-density insulation and hydrocarbon refrigerants reduce energy consumption.
- **Safety-focused design:** Alarms, keyed door locks, and robust construction minimize risks during critical testing.

Our Expertise, Your Advantage

Corepoint® Scientific understands that every industry and application has unique requirements. That's why our chambers are designed with flexibility and precision to meet your specific needs.



Pharmaceutical Testing



Environmental Research



Industrial Manufacturing



Scientific Discovery



Humidity Stability Chambers

Designed for precise control over humidity and temperature, these chambers are essential for applications requiring strict environmental conditions.

- **Broad temperature range:** Supports stability testing at various conditions
- **Humidity control:** Advanced ultrasonic humidification for 10% to 95% RH
- **Compliance:** Meets ICH Q1A standards for pharmaceutical stability testing



Temperature Test Chambers

Engineered to simulate extreme thermal conditions, these chambers are ideal for testing product durability and performance in industrial and scientific settings.

- **Wide operating range:** Handles temperatures from +4°C to +70°C with precise controls
- **Robust construction:** Stainless steel interiors ensure durability even under harsh conditions
- **Customizable access ports:** Flexible testing setups with optional ports



BOD Test Chamber

Ideal for environmental research, wastewater analysis, and microbiological studies, these chambers prioritize eco-conscious operation without sacrificing performance.

- **Temperature range:** Operates -10°C to +50°C for a variety of sensitive biological applications
- **Adjustable storage:** Flexible shelving configurations for multiple test types
- **Optimized lighting:** LED bar illuminates shelves with door openings, turns off with door closed





Humidity Stability Chambers

Superior Performance in Humidity Stability Testing

Corepoint® Scientific's Humidity Stability Chambers are engineered to meet the highest standards of precision and reliability in industries where environmental conditions must be controlled. Designed in compliance with ICH Q1A guidelines, these chambers play a critical role in ensuring the stability and performance of products over time.

Our chambers deliver consistent, repeatable results that meet regulatory testing requirements. With advanced temperature and humidity control, Corepoint Scientific's Humidity Stability Chambers provide unmatched reliability over extended testing periods. Requires connection to low mineral water supply line and floor drain access. See water recycler.

Precision Environmental Control:

- Temperature Uniformity: $\pm 1^{\circ}\text{C}$
- Humidity Uniformity: $\pm 3\%$ RH
- Temperature Range (Glass): $+4^{\circ}\text{C}$ to $+60^{\circ}\text{C}$
- Temperature Range (Solid): $+4^{\circ}\text{C}$ to $+70^{\circ}\text{C}$
- Humidity Range: 10% to 95% RH



NSRI492WSG/OH

NSRI231WSW/OH

Key Features

Advanced Control Capabilities

- Programmable Temperature Control: Set a ramp/soak temperature schedule with up to 21 points, recurring daily or weekly
- Remote Monitoring & Control: remotely control or monitor the controller via an RS-485 connection

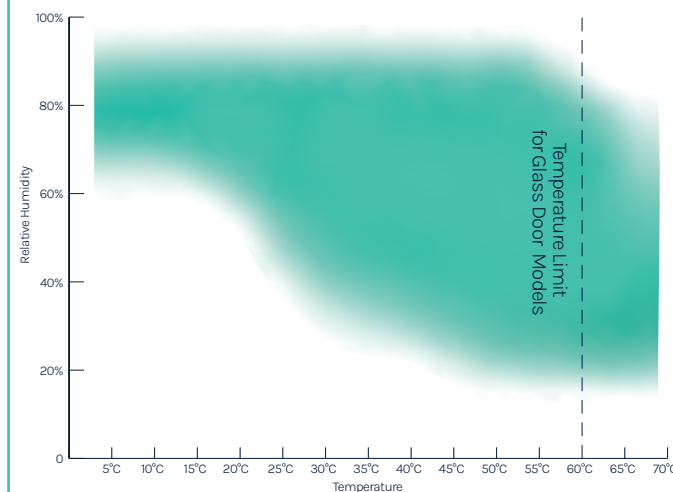
Energy-Efficient Performance

- Energy-efficient compressors and natural refrigerants reduce energy consumption, resulting in lower operational costs while maintaining high performance
- High-density urethane insulation minimizes heat loss, ensuring consistent internal temperatures
- Low-energy LED lighting provides efficient illumination

Durable Construction

- Stainless steel interiors are designed for long-lasting performance, easy cleaning, and resistance to wear and corrosion, ensuring hygienic conditions over time

Operational Envelope



Humidity Variation

$\pm 3\%$ @ $+4^{\circ}\text{C}$ to $+70^{\circ}\text{C}$ * and RH within performance graph. Humidity variation is derived from the maximum deviation of the humidity sensor during the test period.*

Temperature Uniformity

$\pm 1^{\circ}\text{C}$ @ $+4^{\circ}\text{C}$ to $+70^{\circ}\text{C}$. Uniformity is determined by measuring the maximum deviation across 9 thermocouples placed on 3 horizontal planes. Each plane contains thermocouples evenly spaced diagonally from the left and right inner walls, with the central sensor positioned at the approximate geometric center of the shelf.*

*Performance data is based on cabinet set at $+23^{\circ}\text{C}$, 50% RH ambient conditions, type T-24 Ga. thermocouples with 1.0 oz. brass slugs attached and no product in the chamber. Data may vary if; ambient conditions change, product load is added, or other changes cause interference to chamber airflow.

Product Specifications

Part No.	Description	Exterior Dimensions
NSRI231WSW/OH	23 ft ³ Single Solid Door with Humidity, 3 Adjustable Sliding Shelves	26.875"W x 36.375"D x 81.5"H
NSRI231WSG/OH	23 ft ³ Single Glass Door With Humidity, 3 Adjustable Sliding Shelves	26.875"W x 36.375"D x 81.5"H
NSRI492WSW/OH	49 ft ³ Double Solid Door With Humidity, 6 Adjustable Sliding Shelves	54"W x 36.375"D x 81.5"H
NSRI492WSG/OH	49 ft ³ Double Glass Door With Humidity, 6 Adjustable Sliding Shelves	54"W x 36.375"D x 81.5"H
NSRI723WSW/OH	72 ft ³ Triple Solid Door With Humidity, 9 Adjustable Sliding Shelves	81"W x 36.25"D x 81.5"H
NSRI723WSG/OH	72 ft ³ Triple Glass Door With Humidity, 9 Adjustable Sliding Shelves	81"W x 36.25"D x 81.5"H



Water Recycler

The water recycler is designed to be a standalone water source. The water recycler can utilize distilled water and collected condensate from a Humidity Stability Chamber, eliminating the need for a piped water supply. The water recycler also eliminates the need for a drain, as all condensate is filtered and recycled back to the cabinet. (Installation required)

Part No.	Description
NSH20-R/O	Compatible with all Humidity Stability Chambers, UV Sterilization, 120V, 60 HZ



Temperature Test Chambers

Unmatched Precision for Temperature Testing Excellence

Corepoint® Scientific's Temperature Test Chambers are designed to deliver unparalleled accuracy, reliability, and versatility for a wide array of temperature-dependent testing applications. With the ability to simulate a wide range of temperatures—both high and low—these chambers are crucial for testing products or materials' ability to withstand temperature fluctuations and extreme conditions.

Temperature Test chambers are engineered with advanced cooling systems, precision temperature controls, and a durable construction that ensures consistent performance.



NSRI732WSG/O

Part No.	Description	Exterior Dimensions
NSRI231WSW/OH	23 ft³ Single Solid Door with Humidity, 3 Adjustable Sliding Shelves	26.875"W x 36.375"D x 81.5"H
NSRI231WSG/OH	23 ft³ Single Glass Door With Humidity, 3 Adjustable Sliding Shelves	26.875"W x 36.375"D x 81.5"H
NSRI492WSW/OH	49 ft³ Double Solid Door With Humidity, 6 Adjustable Sliding Shelves	54"W x 36.375"D x 81.5"H
NSRI492WSG/OH	49 ft³ Double Glass Door With Humidity, 6 Adjustable Sliding Shelves	54"W x 36.375"D x 81.5"H
NSRI723WSW/OH	72 ft³ Triple Solid Door With Humidity, 9 Adjustable Sliding Shelves	81"W x 36.25"D x 81.5"H
NSRI723WSG/OH	72 ft³ Triple Glass Door With Humidity, 9 Adjustable Sliding Shelves	81"W x 36.25"D x 81.5"H

Uniformity is determined by measuring the maximum deviation across 9 thermocouples placed on 3 horizontal planes. Each plane contains thermocouples evenly spaced diagonally from the left and right inner walls, with the central sensor positioned at the approximate geometric center of the shelf.

Key Features

Temperature Uniformity*

- Temperature control range: 4°C to 70°C
- Temperature stability is maintained within ±0.1°C of set points

Advanced Control Capabilities

- Programmable Temperature Control: Set a ramp/soak temperature schedule with up to 21 points, which can be configured for daily or weekly recurrence.
- Remote Monitoring & Control: Access and manage the chamber remotely via an RS-485 connection for enhanced convenience and flexibility.

Superior Cooling and Heating Systems:

- Equipped with reliable refrigeration systems, ensuring a quick response to temperature changes
- High-efficiency heaters are employed to ramp up temperatures swiftly while maintaining accuracy

Energy-Efficient Design:

- Using natural refrigerants and eco-conscious technology, these chambers reduce energy consumption and operational costs
- Low power consumption during long-term tests ensures

Durable Construction

- Stainless steel interiors are designed for long-lasting performance, easy cleaning, and resistance to wear and corrosion, ensuring hygienic conditions over time.

BOD Test Chamber

Optimized for Accurate Biological Oxygen Demand Testing

Corepoint Scientific's BOD Test Chamber is designed to provide optimal conditions for Biological Oxygen Demand (BOD) testing, crucial for environmental and water quality analysis. These chambers maintain the required temperature, ensuring precise control over environmental conditions that influence the biological activity of microorganisms during BOD testing.

Key Features

- **Temperature Range:** -10°C to 50°C with precise control
- **Storage Capacity:** 23 cu. ft. with five adjustable wire shelves
- **Energy Efficiency:** HC refrigerants with eco-friendly operation
- **Safety Features:** Audible and visual alarms for deviations and door ajar notifications



CPBOD231WSW/O

Part No.	Description	Exterior Dimensions
CPBOD231WSW/O	23 ft³ Single Solid Door, 5 Adjustable Wire Shelves	26.875"W x 36.375"D x 81.5"H

Environmental Chamber Accessories

Part No.	Description
Additional Sliding Shelves	Consult with our customer service experts about additional 304 stainless steel perforated sliding shelf options for Stability and Temperature Test Chambers
NS-TM360-XXXX	Factory temperature mapping to include 15 probes in air and 3 probes in sample solution for 360 minutes with temperature readings every 60 seconds.
NS-IOPQ-NSRI	Installation, operation and performance qualification for Humidity Stability and Temperature Test Chambers. Must be purchased at the same time as equipment. Please note on-site validation service is not included with this IOPQ documentation/book.
NSWD-AP225	Pre drilled 2" access port with exterior self-closing metal cover, Temperature Test and BOD Chambers only. Factory installation required.
NS-TMD-18	Single probe temperature monitoring device, visual and audible alarms, F°/C° switchable, operating range: -50°C to +70°C
NS-DDL1-18 (Single Probe), NS-DDL2-18 (Dual Probe)	Single or Dual probe temp. monitoring device, USB transfer, visual and audible alarms, F°/C° switchable, operating range: -50°C to +60°C
NS-WF-DDL-18	Dual probe temp. monitoring device with WiFi transfer, visual and audible alarms, F°/C° switchable, operating range: -50°C to +60°C
NS-WIFI1-DL (Single Probe), NS-WIFI2-DL (Dual Probe)	Single or Dual probe digital data logger, WiFi transfer, visual and audible alarms, F°/C° switchable, operating temperature range: -20°C to +90°C
NS-WF-DDL-18 (NSRI)	Single probe WiFi Datalogger Ambient Monitoring Hygrometer/Thermometer with remote notification



Why Choose

Corepoint® Scientific

At Corepoint, we go beyond precision engineering. Here's why industry leaders trust our environmental testing chambers:

Proven Performance: Our stability chambers meet ICH Q1A standards, ensuring regulatory compliance for pharmaceutical stability testing.

Cost-Efficiency: Energy-efficient compressors and natural refrigerants minimize operational costs without compromising performance.

Durable and Reliable: Stainless steel interiors and advanced construction ensure long-term performance, even under harsh conditions.

Expertise Across Industries: Trusted by pharmaceutical, industrial, and environmental research sectors.



Innovation at the Core
Environmental Testing Chambers

www.corepointscientific.com
843.821.8010



12082024