CSZ

Cincinnati Sub-Zero

WALK-IN STABILITY CHAMBERS AND ROOMS

Walk-In Stability Chambers and Rooms

Stability chambers are ideal for ICH Q1A stability testing, shelf life, package testing and accelerated aging.

Keeping your products on schedule allows you to deliver life-saving products to patients sooner. We understand the importance of having reliable and stable chambers to ensure tests are completed in a timely manner while complying with regulatory standards.

Whether your testing is for R&D long term storage or ongoing stability, our stability walk-in chambers provide uniform temperature/ humidity conditioned environments for worry-free operation with a control system that is easy to use.

Stability Chambers are used for testing by a variety of industries, including:

- Pharmaceutical
- Packaging
- Medical Devices
- Personal Care Products
- Consumer Products

Stability Testing Applications

Our chambers are designed to meet a variety of test specifications including ASTM standards for testing medical devices, shipping containers and packaging tests. Applications include, but are not limited to: stability testing, pharmaceutical, life science, biomedical storage and research.

The reach-in stability chambers and environmental rooms meet the stability testing ICH Q1A guidelines for drug substances and products. These chambers adhere to the sections of the test standard listed below.

Section	Description	Condition		Duration
2.1.7.1 & 2.2.7.1	Storage Conditions for Drug Substances or Products	General Case Long Term	25°C, ±2°C/60% RH ±5% RH or 30°C, ±2°C/65% RH ±5% RH	12 months
		Intermediate	30°C, ±2°C/65% RH ±5% RH	6 months
		Accelerated	40°C, ±2°C/75% RH ±5% RH	6 months
2.1.7.2 & 2.2.7.4	Drug Substances or Products for Storage in a Refrigerator	Long Term	5°C, ±3°C	12 months
		Accelerated	25°C, ±2°C/60% RH ±5% RH	6 months
2.2.7.3	Drug products packaged in Semi-Permeable Containers	Long Term	25°C, ±2°C/40% RH ±5% RH or 30°C, ±2°C/35% RH ±5% RH	12 months
		Intermediate	30°C, ±2°C/65% RH ±5% RH	6 months
		Accelerated Not More than	40°C, ±2°C/75% RH ±25% RH	6 months

Walk-In Stability Chambers and Rooms

WMST Series

Stability Temperature/Humidity Walk-In Rooms

Walk-In stability rooms are available in temperature only or temperature & humidity. These chambers are designed for stability studies and testing large batches of product.

All stability rooms meet ICH Q1A guidelines. Each conditioning system is tested before shipment. Our factory-trained service team can also assist with the assembly, start-up and training and validation.

- Wide temperature & humidity range from -20°C to +60°C to meet a variety of test and storage conditions for more versatility.
- Superb CSZ EZT-570 21 CFR Part 11 Compliant touch screen controller with data logging, data file access with USB stick, Ethernet control and monitoring, alarm notification via email and/or phone text message, data file backup system, full system security, audit trail, digital signatures, power recovery options and more.
- EIA-485 & EIA-232 computer interface for communications with software and the ability to control multiple chambers.
- Cabinet is insulated with CFC-free polyurethane foam for thermal protection. Finish consists of durable white or embossed aluminum scratch/rust resistant exterior and corrosion resistant stainless steel interior.
- 8' wide x 78" high door with heated viewing window and vapor proof lights (double doors available).
- Integral air-cooled condenser.
- 2" cable port for temperature monitoring or mapping.
- Electronic humidity sensor on humidity models.
- IQ, OQ, PQ protocol available. On-site validation is optional.

WMST Series Specifications

Workspace Volume*	512 cu. ft.	800 cu. ft	1152 cu. ft.
Internal Dimensions W X D X H ft. (cm)	8' x 8' x 8' (244 x 244 x 244)	10' x 10' x 8' (305 x 305 x 244)	12' x 12' x 8' (366 x 366 x 244)
Temperature Range	-20°C to 60°C		
Optional Humidity Range	20% to 95% RH		
Temperature Tolerance	+/- 0.3°C		
Humidity Tolerance	+/- 2.5%		
Temperature Uniformity	+/- 1.0°C or designed for your application		

Stability Walk-In Humidity Performance
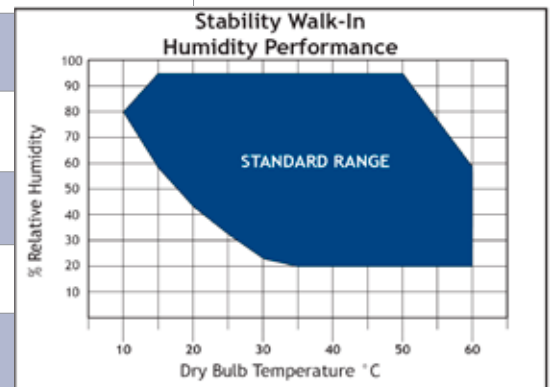
*Other sizes and configurations available.

Walk-In Chambers Customized to Meet Your Needs

A variety of options are available for enhanced performance and combined environments with custom configurations designed to meet your specific requirements.

Optional Accessories

- Access ports
- Wire shelves
- Entry ramp
- Reverse osmosis water filtration system*
- Dry air purge system

- Windows-based software package
- IEEE-488 computer interface
- Temperature recorders
- Redundant refrigeration system

This room is designed to store bottles of pharmaceutical product at -70°C. With over 4800 cu.ft. of conditioned interior space, the chamber is divided into four zones that can each hold up to 288 bottles.

EZT-570 Controller   21 CFR Part 11 Compliant

The Next Generation Controller with Smartphone Technology

Communications & Connectivity

- Remotely monitor and/or Control the chamber for anytime, anywhere access from any device (PC, smarphone or tablet) using LAN/VNC.

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

- Multiple chambers may also be controlled using VNC or optional EZ-View PC software to monitor control CSZ chambers and download profiles.

- Ethernet TCP/IP, EIA-232, EIA-485 Communications

Save valuable time with the ease of use of the EZT-570 featuring fewer steps to accomplish your daily testing needs while incorporating simplified operation and programming to test faster.

Profiling

- Profiling includes up to 99 steps and 1000 cycles.

- Program ramp steps entering time or °C/min.

- Easily review profile using trend chart or list of steps

- Profile status view displays current step, estimated start/stop date and time.

- Profiles may be transferred to different chambers via USB or optional EZ-View software.
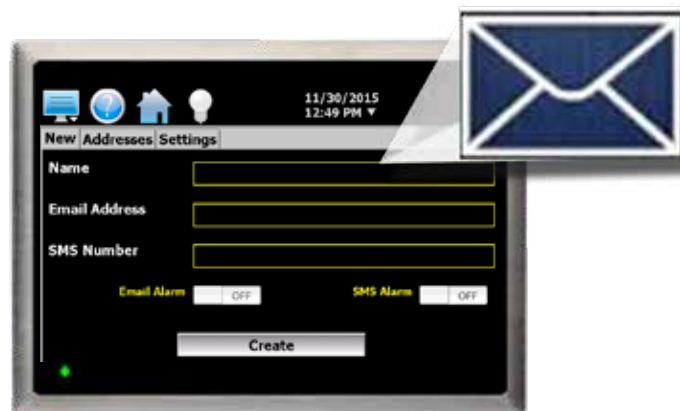
Data Logging

- Configurable log interval, data file length, filename, operator entered batch & lot information as well as an unlimited number of operator notes saved to the data file.

- Easily download profiles, alarm files, audit trail files and data files using USB or email from controller in a compatible .csv file format.

- Files may also be automatically backed up daily for hassle-free file management using FTP. FTP/FileWeb/DataWeb (LAN/WAN).

- Email built-in to send data, alarm, audit trail files directly from controller. Also create and send new emails.

- Open and plot historical data files.

User Convenience & Flexibility

- Controller may be configured in any of one of 28 languages- one setting updates icons, menus and help screen.

- Selectable power failure/recovery options.

- Full system security allows up to 30 different users with four different levels of security.

- Audit trail files track changes in settings by each user.

- Import/export configuration settings to other controllers saving time. (Personalized to your use)

- Configurable alarms and maintenance alerts.
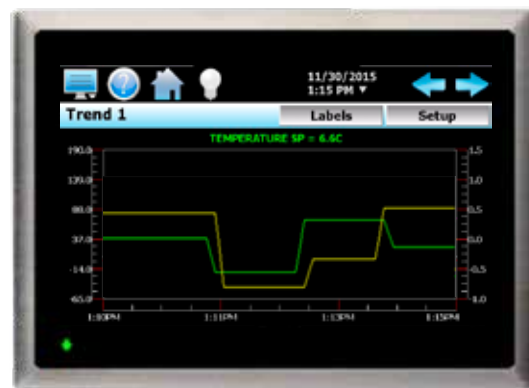
Cincinnati Sub-Zero is a product brand of Weiss Technik North America, Inc. Weiss Technik North America is a member of the Weiss Technik group of companies, a division of the Schunk Group with its headquarters in Heuchelheim, Germany. Weiss Technik is the world's largest manufacturer of environmental simulation systems and employs more than 2,900 people in 18 group companies in 15 countries.

Request Information

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The Testing Standard.

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