

SOLID WALK-IN TESTING CHAMBERS

Thermotron Walk-in Chambers serve as a test site for large components, assemblies, and finished products. Our Solid Walk-in Chambers can be configured as a temperature or temperature humidity chamber. They are custom built to accommodate almost any size, and they feature welded walls creating an environmental room for applications requiring controlled temperature and humidity testing exceeding 85°C. Typically, for ease of installation, a Solid Walk-in Chamber works best in new construction buildings, areas with extremely large doors, or rooms where outside walls can be easily removed.

Features and Benefits

All Solid Walk-in Chambers are custom designed and engineered to meet specific testing needs. Speak with your local sales representative or an application engineer about how Thermotron can build a custom chamber for you.

Access Door

Full-width chamber access

Cascade Refrigeration Performance

-73°C to 177°C (-100°F to 350°F)

Humidity System (optional)

Full range reaches dewpoints between +5°C and +85°C

Heavy-duty Inside Floor

Customized to support your specific product load

Interior Surface Finish

304 Series Stainless steel

Special Sizes

Available to custom configure your chamber

Options

Air-cooled Condenser

Eliminate the requirement for cooling water

CE Certification

Required for European, and other select, exported units

CSA Certification

Required for Canadian exported units

Custom Ports

Customize size, shape, and location for convenient electrical and/or mechanical connections

Defrosting Capabilities

Best for extended, low-temperature testing

Dry Air Purge

Utilize compressed air to minimize moisture in the chamber

Humidity Range

Capable of 85°C, 85% RH

Humidity Purification System

Purify humidity inlet water with 5-micron pre-filter and demineralizer

LN₂ Injection

Add through a cooling coil in the conditioning plenum

Low-humidity Capabilities

For conditions below 5°C dewpoint

Multiple Door Sizes

Hinged, sliding, bi-parting, or vertical lift doors



Built to test extra large solar panels for real-world environmental factors

Minimal Spark Interior

Ideal for testing specific hazardous materials

Ramps

Assist in bringing products into the chamber

Refrigeration Quiet Package

Reduce noise levels produced by the machinery

Remote Refrigeration Package

House machinery up to 50 feet away from the chamber

Shelving

Free-standing, foldable, or wall-attached shelves

Suspended Ceiling Airflow Grid

Improves air distribution within the test area

Variable Speed Airflow Control

Provide flexibility of controlling chamber air velocity

8800 CONTROLLER

Intuitive, Robust, Secure

Thermotron's exclusive Windows®-based 8800 Controller, with 12" color touchscreen, makes chamber operation and data collection easy and reliable. Quick navigation buttons provide shortcuts to user-selected screens. The 8800 Controller is standard on all Walk-in Chambers. With this Controller, receive:

- Multi-level, password-based security system to protect data
- Test data that can be downloaded to spreadsheet formats
- An Activity Log: record and retain 15+ years of chamber history
- Product Temperature Control to improve product change rates by precisely over-compensating the air temperature to control the product temperature
- The System Monitor to detect excessive refrigeration pressures and temperatures and notify users when problems occur
- The Product Dewpoint Control to prevent condensation by maintaining the product at a higher temperature than the dewpoint of the surrounding air (*optional*)
- ThermoTrak II™ to connect up to 32 controllers to one PC (*optional*)



For more than 55 years, Thermotron has provided quality environmental test equipment. We've worked to establish a trusted reputation among our peers, and when people hear the name *Thermotron*, they have confidence in the testing of their own product. We've been building our name since 1962; now it's your turn.

**QUALITY. TRUST.
CONFIDENCE.**
— BUILD YOURS WITH A —
THERMOTRON.

T H E R M O T R O N . C O M

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