DTS

Double Duty Thermal Shock Chambers

CSZ
Cincinnati Sub-Zero

Double-Duty Thermal Shock Chambers

Test twice as much product at the same time!

The DTS Air-to-Air Thermal Shock Chambers are designed to perform tailored environmental stress screening of component and board level electronic assemblies. This system is designed for large components/loads and ideal for manufacturing environments.

DTS chambers consist of three zones: a hot chamber on each end with a cold chamber in the middle. This design allows product to be moved between the zones simultaneously with two product baskets - exposing twice as much product in one system to maximize your investment.

Standard Features
The EZT-570i controller provides flexibility and a full range of user-friendly features that combine to simplify programming along with built-in safeties to protect your chamber and product under test.
RS-232/485 serial communications with Ethernet control & monitoring.
Smooth carriage transfer via a pneumatic air cylinder designed with multiple safeties. The air cylinder is protected from the environment to insure long life.
Door safety interlocks prevent the door from being opened during operation.
Removable panels provides easy access to all systems for maintenance purposes.
Rapid airflow through the workspace to facilitate fast part temperature change rates.
Environmentally safe, zero ozone depletion potential refrigerants are used to protect the environment.

Specifications	DTS-16-22-22	DTS-27-30-30
Workspace Volume	16 cu. ft. (453L)	27 cu. ft. (765L)
Product Test Area Dimensions	30"W x 30" D x 30"H (76.2cm x 76.2cm x 76.2cm)	36"W x 36"D x 36"H (91.4cm x 91.4cm x 91.4cm)
Exterior Dimensions	200"W x 88"D x 94"H (508cm x 224cm x 239cm)	218"W x 94"D x 100"H (554cm x 239cm x 254m)
Temperature Range	Hot Chamber : +70°C to +210°C (+158°F to +410°F) Cold Chamber: -75°C to + 190°C (-103°F to +375°F)	
Product Load (Based on Mill-Std 883G, Method 1010.8 Test Condition C)	50 lbs each (23 kg)	100 lbs each (45 kg)
Maximum Product Load	200 lbs (90 kg)	200 lbs (90 kg)
Recommended Minimum Service Amps	230V, 3 Ph 460V, 3 Ph 400 Amps 225 Amps	230V, 3 Ph 460V, 3 Ph 500 Amps 275 Amps

Optional Accessories	
Additional Basket/Shelf	Digital Output Option
Chart Recorders	Digital Input Option
Digital High/Low Limit & Alarm	Main Power Disconnect Switch
Run Time Meter	Dry Air Purge
IEEE-488 Interface	LN2 Boost
EZ-View Software	

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

CSZ's EZT-570i 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, 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 stick in a compatible .CSV file format. 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).
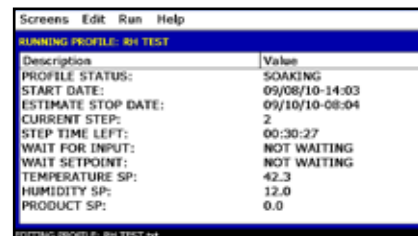
Enhanced Functionality

• 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.

Remote control using smart phone or tablet

File utility screen

Profile status screen

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

- HALT/HASS
- Freezers
- 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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