



Thermal Shock Chamber



STANDARDS

IEC 60068-2-14

JEDEC JESD22-A104

MIL-STD-883

Thermal Shock Chambers - Precision Testing for Rapid Temperature Resistance

Qualitest's latest Thermal Shock Chambers offer cutting-edge solutions for evaluating the reliability and durability of materials and components exposed to sudden and extreme temperature variations. Our advanced models include 2-zone, 3-zone, and horizontal thermal shock chambers, each engineered for consistent performance, high thermal transfer efficiency, and compliance with international testing standards.

Versatile Chamber Configurations

- 2-Zone Thermal Shock Chambers (also written as two-zone) alternate between high and low temperature environments using a single transfer area, making them ideal for standard thermal cycling tests.
- 3-Zone Thermal Shock Chambers introduce a room-temperature zone between the hot and cold zones, providing smoother transitions and expanded testing capability.
- Horizontal Thermal Shock Chambers offer efficient side-by-side zoning for space-saving setups and faster test cycles.

Applications of Thermal Shock Testing

Thermal shock testing is essential in ensuring the structural integrity and functional reliability of products subjected to rapid temperature fluctuations. These chambers are widely used across:

- Electronics and Semiconductors – Testing circuit boards, sensors, microchips, and battery modules to ensure thermal reliability.
- Automotive Components – Evaluating connectors, plastics, and metal parts for thermal stress resistance.
- Aerospace & Defense – Verifying performance of mission-critical components under extreme conditions.
- Medical Devices & Optics – Ensuring material stability and performance under thermal cycling.

Standards Compliance

Qualitest Thermal Shock Chambers are designed to meet key international standards, including:

- IEC 60068-2-14
- MIL-STD-883 (Method 1010)
- JEDEC JESD22-A104

These standards ensure that the chambers deliver accurate, repeatable test results in line with industry expectations.

Qualitest Advantages

- State-of-the-art Technology: Fast transfer systems, accurate control, and energy-efficient performance.
- Flexible Testing Range: Wide temperature differentials from -70°C to +200°C.
- User-Friendly Interface: Intuitive touch screen controls and remote monitoring options.
- Reliability and Support: Backed by Qualitest’s reputation for quality, service, and global reach.

Available Models:

- [Two-zone Thermal Shock Test Chambers](#)
- [Three-zone Thermal Shock Test Chambers](#)
- [Horizontal Two-Zone Thermal Shock Test Chamber](#)



ADVANCED TESTING TECHNOLOGIES

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Connect with us

Contact our **QualiTeam** today to find out how we can help your organization **select the most suitable testing solution** for your application, requirements, and budget.

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