

ICS 19.040



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 2424.7-2024

**Environmental testing - Part 3: Supporting documentation and
guidance - Measurements in temperature chambers for tests A
(Cold) and B (Dry heat) (with load)**
(English Translation)

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Foreword

This document was drafted in accordance with the rules provided in GB/T 1.1-2020
Directives

for Standardization - Part 1.Rules for the Structure and Drafting of Standardizing
Documents.

This document is Part 7 of GB/T 2424.The parts of GB/T 2424 that have been issued are
shown

in Appendix NA.

This document serves as a replacement for GB/T 2424.7-2006 Environmental Tests for Electric

and Electronic Products - Measurements in Temperature Chambers for Tests A and Tests B (with load). In comparison with GB/T 2424.7-2006, apart from structural adjustments and editorial modifications, the main technical changes are as follows.

- a) The content of "Table 1 -- Test Conditions" is modified (see 3.1; 3.1 of Version 2006);
- b) The requirements for "temperature sensor" are modified (see 4.2.2; 4.1.1 of Version 2006);
- c) The content of "location of test load" is modified (see 5.2.2, 5.2.1 of Version 2006);
- d) "Location of the chamber wall sensor" is deleted (see 5.3.2 and Figure 2 of Version 2006).

This document identically adopts IEC 60068-3-7:2020 Environmental Testing - Part 3-7. Supporting Documentation and Guidance - Measurements in Temperature Chambers for Tests

A (Cold) and B (Dry heat) (with load).

This document makes the following minimal editorial modifications.

---To coordinate with the existing standards, the title of the Standard is modified into Environmental Testing - Part 3. Supporting Documentation and guidance - Measurements in Temperature Chambers for Tests A (Cold) and B (Dry heat) (with load);

---Appendix NA (informative) "Constituent Parts of GB/T 2424" is added.

Please be noted that certain content of this document may involve patents. The institution issuing this document does not undertake the responsibility of identifying these patents.

This document was proposed by and shall be under the jurisdiction of National Technical Committee 8 on Environmental Conditions and Environmental Testing for Electrical and Electronic Products of Standardization Administration of China (SAC/TC 8).

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Environmental Testing - Part 3.Supporting Documentation

and Guidance - Measurements in Temperature Chambers

for Tests A (Cold) and B (Dry heat) (with load)

1 Scope

This document provides a uniform and reproducible method for confirming whether the temperature test chambers comply with the requirements specified by the test methods in IEC

60068-2-1 and IEC 60068-2-2 when there are radiating or non-radiating test samples and under

the condition where there is air circulation in the working space. This document is mainly applicable to users when conducting routine test chamber performance monitoring.

2 Normative References

The contents of the following documents constitute indispensable clauses of this document through the normative references in the text. In terms of references with a specified date, only

versions with a specified date are applicable to this document. In terms of references without a

specified date, the latest version (including all the modifications) is applicable to this document.

GB/T 2424.5-2021 Enviromental Testing - Part 3.Supporting Documentation and Guidance

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Confirmation of the Performance of Temperature Chambers (IEC 60068-3-5.2018, IDT)

3 Terms and Definitions

The following terms and definitions are applicable to this document.

The terminology databases used for standardization maintained by ISO and IEC can be found

below.

3.1 test specification

Test procedures for test chambers with or without forced air circulation. It is applicable to test

chambers of all sizes.

NOTE: Table 1 summarizes the test conditions of IEC 60068-2-1 and IEC 60068-2-2; the temperature surge test conditions have been deleted in earlier versions of these documents.

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