Environmental testing - Part 2-78: Tests - Test Cab: Damp heat, steady state (IEC 60068-2-78:2012)

EESTI STANDARDIKESKUS
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NATIONAL FOREWORD

See Eesti standard EVS-EN 60068-2-78:2013 sisaldab Euroopa standardi EN 60068-2-78:2013 ingliskeelset teksti.	This Estonian standard EVS-EN 60068-2-78:2013 consists of the English text of the European standard EN 60068-2-78:2013.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 14.06.2013.	Date of Availability of the European standard is 14.06.2013.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile standardiosakond@evs.ee.

ICS 19.040, 29.020

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 60068-2-78

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ICS 19.040; 29.020

Supersedes EN 60068-2-78:2001

English version

Environmental testing - Part 2-78: Tests - Test Cab: Damp heat, steady state

(IEC 60068-2-78:2012)

Essais d'environnement - Partie 2-78: Essais - Essai Cab: Chaleur humide, essai continu (CEI 60068-2-78:2012)

Umgebungseinflüsse - Teil 2-78: Prüfverfahren - Prüfung Cab: Feuchte Wärme, konstant (IEC 60068-2-78:2012)

This European Standard was approved by CENELEC on 2012-12-03. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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Foreword

The text of document 104/582/FDIS, future edition 2 of IEC 60068-2-78, prepared by IEC/TC 104 "Environmental conditions, classification, and methods of test" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60068-2-78:2013.

The following dates are fixed:

• latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2013-12-14
• latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2015-12-03

This document supersedes EN 60068-2-78:2001.

EN 60068-2-78:2013 includes the following significant technical changes with respect to EN 60068-2-78:2001:

The test chamber from EN 60068-3-6 has been introduced.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

Endorsement notice

The text of the International Standard IEC 60068-2-78:2012 was approved by CENELEC as a European Standard without any modification.

Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

Publication	Year	Title	EN/HD	Year
IEC 60068-1	-	Environmental testing - Part 1: General and guidance	EN 60068-1	-
IEC 60068-3-6	-	Environmental testing - Part 3-6: Supporting documentation and guidance - Confirmation of the performance of temperature/humidity chambers	EN 60068-3-6	-
IEC Guide 104	-	The preparation of safety publications and the use of basic safety publications and group safety publications	-	-

CONTENTS

INTRODUCTION

This part of IEC 60068 provides a test method of high humidity at constant temperature without condensation on the specimen over a prescribed period. This test is performed to evaluate the specimen as it is influenced by the absorption and diffusion of moisture and moisture vapour.

ENVIRONMENTAL TESTING –

Part 2-78: Tests – Test Cab: Damp heat, steady state

1 Scope and object

This part of IEC 60068 establishes a test method for determining the ability of components or equipment to withstand transportation, storage and use under conditions of high humidity.

The object of this standard is to investigate the effect of high humidity at constant temperature without condensation on a specimen over a prescribed period.

It is applicable to small equipment or components as well as large equipment, and can be applied to both heat-dissipating and non-heat-dissipating specimens.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60068-1, *Environmental testing – Part 1:General and guidance*

IEC 60068-3-6*, Environmental testing – Part 3-6: Supporting documentation and guidance – Confirmation of the performance of temperature and humidity chambers*

IEC Guide 104, *The preparation of safety publications and the use of basic safety publications and group safety publications*

3 Terms and definitions

None.

4 General test procedure

4.1 Test chamber and measuring system

The temperature and humidity chamber shall be constructed and verified in accordance with specifications IEC 60068-3-6.

The chamber and measuring system shall be such that

– sensing devices can be located in the working space to monitor the temperature and humidity,

NOTE For heat-dissipating specimens, the temperature and humidity near the specimen may be influenced by the effect of heat dissipation from the specimen.

– condensed water is drained from the chamber and not re-used unless purified,

– no condensed water from the walls and roof of the test chamber can fall on the specimen(s),