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Miljötålighetsprovning – Del 2-13: Provningsmetoder – M: Lågt lufttryck

*Environmental testing –
Part 2-13: Tests –
Test M: Low air pressure*

Som svensk standard gäller europastandarden EN IEC 60068-2-13:2021. Den svenska standarden innehåller den officiella engelska språkversionen av EN IEC 60068-2-13:2021.

Nationellt förord

Europastandarden EN IEC 60068-2-13:2021

består av:

- **europastandardens ikraftsättningsdokument**, utarbetat inom CENELEC
- **IEC 60068-2-13, Fifth edition, 2021 - Environmental testing - Part 2-13: Tests - Test M: Low air pressure**

utarbetad inom International Electrotechnical Commission, IEC.

Tidigare fastställd svensk standard SS-EN 60068-2-13, utgåva 1, 2001, gäller ej fr o m 2024-04-07.

ICS 19.040.00

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EUROPEAN STANDARD

EN IEC 60068-2-13

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2021

ICS 19.040

Supersedes EN 60068-2-13:1999 and all of its amendments and corrigenda (if any)

English Version

**Environmental testing - Part 2-13: Tests - Test M: Low air pressure
(IEC 60068-2-13:2021)**

Essais d'environnement - Partie 2-13: Essais - Essai M:
Basse pression atmosphérique
(IEC 60068-2-13:2021)

Umgebungseinflüsse - Teil 2-13: Prüfverfahren - Prüfung M:
Niedriger Luftdruck
(IEC 60068-2-13:2021)

This European Standard was approved by CENELEC on 2021-04-07. 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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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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Ref. No. EN IEC 60068-2-13:2021 E

SEK Svensk Elstandard

SS-EN IEC 60068-2-13, utg 2:2021

European foreword

The text of document 104/889/FDIS, future edition 5 of IEC 60068-2-13, 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 IEC 60068-2-13:2021.

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) 2022-01-07
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2024-04-07

This document supersedes EN 60068-2-13:1999 and all of its amendments and corrigenda (if any).

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

Endorsement notice

The text of the International Standard IEC 60068-2-13:2021 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60068-2 (series) NOTE Harmonized as EN IEC 60068-2 (series)

IEC 60721-3 (series) NOTE Harmonized as EN 60721-3 (series)

IEC 60068-2-2 NOTE Harmonized as EN 60068-2-2

IEC 60068-2-39 NOTE Harmonized as EN 60068-2-39

IEC 60721-2-3 NOTE Harmonized as EN 60721-2-3

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60068-1	-	Environmental testing - Part 1: General and guidance	EN 60068-1	-

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ENVIRONMENTAL TESTING –**Part 2-13: Tests – Test M: Low air pressure**

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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IEC 60068-2-13 has been prepared by IEC technical committee 104: Environmental conditions, classification, and methods of test. It is an International Standard.

This fifth edition cancels and replaces the fourth edition, published in 1983. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) alignment with recently revised parts of IEC 60068-2;
- b) Clause 5: severities aligned with IEC 60721-2-3 and IEC 60721-3 (all parts);
- c) addition of Annex A (guidance on selecting the duration of exposure).

The text of this International Standard is based on the following documents:

FDIS	Report on voting
104/889/FDIS	104/893/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

A list of all parts in the IEC 60068 series, published under the general title *Environmental testing*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

ENVIRONMENTAL TESTING –

Part 2-13: Tests – Test M: Low air pressure

1 Scope

This part of IEC 60068 specifies methods of test applicable to specimens which, during transportation, storage or in service, can be subjected to low air pressure.

The object of the low air pressure test is to determine the ability of components, equipment or other articles to be used, transported or stored at low air pressure.

Components, equipment or other articles to be used, transported or stored under a simultaneous combination of high or low temperature and low air pressure, where the combination is important for the stresses imposed on the articles or for the failure mechanisms, are then tested in accordance with IEC 60068-2-39.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. 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*