

KODUSED GAASKUUMUTUSEGA
TOIDUVALMISTUSSEADMED. OSA 1-1: OHUTUS.
ÜLDIST

Domestic cooking appliances burning gas - Part 1-1:
Safety - General

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 30-1-1:2021 sisaldab Euroopa standardi EN 30-1-1:2021 ingliskeelset teksti.	This Estonian standard EVS-EN 30-1-1:2021 consists of the English text of the European standard EN 30-1-1:2021.
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 and Accreditation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 22.12.2021.	Date of Availability of the European standard is 22.12.2021.
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ICS 97.040.20

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English Version

Domestic cooking appliances burning gas - Part 1-1: Safety - General

Appareils de cuisson domestiques utilisant les
combustibles gazeux - Partie 1-1 : Sécurité -
Généralités

Haushalt-Kochgeräte für gasförmige Brennstoffe - Teil
1-1: Sicherheit - Allgemeines

This European Standard was approved by CEN on 22 November 2021.

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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 CEN 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 STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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

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European foreword

This document (EN 30-1-1:2021) has been prepared by Technical Committee CEN/TC 49 “Gas cooking appliances”, the secretariat of which is held by UNI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2022, and conflicting national standards shall be withdrawn at the latest by December 2024.

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

This document supersedes EN 30-1-1:2008+A3:2013.

This document has been prepared under a Standardization Request given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

The main modifications in this document with respect to the previous edition (EN 30-1-1:2008+A3:2013) are the following:

- Alignment with Regulation 2016/426/EU throughout the full text;
- Reference to the different types of gases is now given by making reference to the specific EN 437:2021 and not by introducing its requirements in this document (various clauses and Annex A);
- Reference to specific requirements for multifunctional controls is now given by making reference to the specific EN 126:2012 (5.2.14);
- Addition of requirements for appliances that enable the user to program the delayed start and the end of a cooking cycle (5.2.13);
- Removal of requirements for ovens volume calculation as reference is made to EN 15181:2017+A1:2020;
- Removal of requirements in 7.3.1.3.2 of EN 30-1-1:2008+A3:2013 for pilot flames as these devices are no more used on appliances;
- Introduction of requirements on accuracy of measuring instruments (7.4);
- More detailed info on types of inlets allowed for the connection of the appliances (5.1.6 and A.7).
- Introduction of a new Annex for multi-ring burners (Annex G).

EN 30 consists of the following parts:

- EN 30-1-1, *Domestic cooking appliances burning gas — Part 1-1: Safety - General*;
- EN 30-1-2, *Domestic cooking appliances burning gas — Safety — Part 1-2: Appliances having forced-convection ovens and/or grills*;

- EN 30-1-3, *Domestic cooking appliances burning gas — Part 1-3: Safety — Appliances having a glass ceramic hotplate*;
- EN 30-1-4, *Domestic cooking appliances burning gas — Safety — Part 1-4: Appliances having one or more burners with an automatic burner control system*;
- EN 30-2-1, *Domestic cooking appliances burning gas — Part 2-1: Rational use of energy — General*;
- EN 30-2-2, *Domestic cooking appliances burning gas — Part 2-2: Rational use of energy — Appliances having forced-convection ovens and/or grills*.

Requirements concerning the emission of NO_x are not mentioned in this document; taking account of the usage of the appliances and their low output, their contribution to environment pollution is negligible.

This document covers type testing.

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

This document specifies the requirements and methods of test for the safety and marking of freestanding and built-in domestic cooking appliances burning combustible gases given in EN 437:2021, referred to in the text as “appliances”.

The appliances covered by this document are intended to be used in a domestic dwelling.

This document covers the following types of domestic cooking appliances:

- independent freestanding hobs;
- independent built-in hobs;
- hobs and grills;
- table cookers;
- freestanding ovens;
- built-in ovens;
- freestanding or built-in grills;
- griddles;
- freestanding cookers;
- built-in cookers.

This document also applies to gas cooking appliances incorporating electrical heating elements (e.g. gas-electric cooking appliances).

For appliances intended to be used in caravans, or motorhomes/mobile homes or on board of ships or aircraft, additional requirements may be necessary.

This document does not apply to:

- a) outdoor appliances;
- b) appliances connected to a combustion products evacuation duct;
- c) appliances having a pyrolytic gas oven;
- d) appliances incorporating flame supervision devices and having an automatic ignition device for which the duration of the ignition attempt is limited by design;
- e) appliances equipped with a burner that is periodically ignited and extinguished under the control of an automatic on/off device;
- f) appliances equipped with an oven and/or with a grill having a fan:
 - 1) either for the supply of combustion air or for the evacuation of the products of combustion;
 - 2) or for the circulation of the products of combustion within the compartments;
- g) appliances incorporating one or more hob or grill burners that enable the user to program the delayed start of the cooking cycle;

- h) appliances of categories I_{2N}, I_{2R}, I_{3R}, I_{2E(S)}, I_{2E(R)}, I_{2Esi}, I_{2Er}, I_{2R} and the equivalent double and triple categories which include these indices;
- i) appliances of category II_{2E+3B}.

This document does not cover the requirements relating to third family gas cylinders, their pressure regulators and their connection.

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.

EN 30-1-4:2012, *Domestic cooking appliances burning gas - Safety - Part 1-4: Appliances having one or more burners with an automatic burner control system*

EN 88-1:2011+A1:2016, *Pressure regulators and associated safety devices for gas appliances - Part 1: Pressure regulators for inlet pressures up to and including 50 kPa*

EN 125:2010+A1:2015, *Flame supervision devices for gas burning appliances - Thermoelectric flame supervision devices*

EN 126:2012, *Multifunctional controls for gas burning appliances*

EN 161:2011+A3:2013, *Automatic shut-off valves for gas burners and gas appliances*

EN 257:2010, *Mechanical thermostats for gas-burning appliances*

EN 437:2021, *Test gases - Test pressures - Appliance categories*

EN 549:2019, *Rubber materials for seals and diaphragms for gas appliances and gas equipment*

EN 751-1:1996, *Sealing materials for metallic threaded joints in contact with 1st, 2nd and 3rd family gases and hot water - Part 1: Anaerobic jointing compounds*

EN 751-2:1996, *Sealing materials for metallic threaded joints in contact with 1st, 2nd and 3rd family gases and hot water - Part 2: Non-hardening jointing compounds*

EN 1106:2010, *Manually operated taps for gas burning appliances*

EN 1116:2018, *Furniture - Kitchen furniture - Coordinating sizes for kitchen furniture and kitchen appliances*

EN 10226-1:2004, *Pipe threads where pressure tight joints are made on the threads - Part 1: Taper external threads and parallel internal threads - Dimensions, tolerances and designation*

EN 10226-2:2005, *Pipe threads where pressure tight joints are made on the threads - Part 2: Taper external threads and taper internal threads - Dimensions, tolerances and designation*

EN 15181:2017+A1:2020, *Measuring method of the energy consumption of gas fired ovens*

EN 60068-2-75:2014, *Environmental testing - Part 2-75: Tests - Test Eh: Hammer tests (IEC 60068-2-75:2014)*

EN 60335-1:2012,¹ *Household and similar electrical appliances - Safety - Part 1: General requirements (IEC 60335-1:2010, modified)*

EN 60335-2-6:2015,² *Household and similar electrical appliances - Safety - Part 2-6: Particular requirements for stationary cooking ranges, hobs, ovens and similar appliances (IEC 60335-2-6:2014, modified)*

EN 60335-2-102:2016, *Household and similar electrical appliances - Safety - Part 2-102: Particular requirements for gas, oil and solid-fuel burning appliances having electrical connections (IEC 60335-2-102:2004, modified)*

EN 60584-1:2013, *Thermocouples - Part 1: EMF specifications and tolerances (IEC 60584-1:2013)*

EN 60730-1:2016,³ *Automatic electrical controls - Part 1: General requirements (IEC 60730-1:2013, modified)*

EN IEC 60730-2-7:2020, *Automatic electrical controls - Part 2-7: Particular requirements for timers and time switches (IEC 60730-2-7:2015)*

EN ISO 228-1:2003, *Pipe threads where pressure-tight joints are not made on the threads - Part 1: Dimensions, tolerances and designation (ISO 228-1:2000)*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <https://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

3.1 General terms and definitions:

3.1.1

conversion

operation carried out by a professional on an appliance at the time of a change of gas

3.1.2

removable

can be removed without the aid of a tool

3.1.3

reference conditions

15 °C and 1 013,25 mbar

¹ As impacted by EN 60335-1:2012/AC:2014, EN 60335-1:2012/A11:2014, EN 60335-1:2012/A13:2017, EN 60335-1:2012/A1:2019, EN 60335-1:2012/A2:2019, EN 60335-1:2012/A14:2019 and EN 60335-1:2012/A15:2021.

² As impacted by EN 60335-2-6:2015/A1:2020 and EN 60335-2-6:2015/A11:2020.

³ As impacted by EN 60730-1:2016/A1:2019.