
Plinski kuhalni aparati za gospodinjstvo - 2-2. del: Smotrna raba energije - Aparati z ventilatorskimi pečicami in/ali žari

Domestic cooking appliances burning gas - Part 2-2: Rational use of energy - Appliances having forced-convection ovens and/or grills

Haushalt-Kochgeräte für gasförmige Brennstoffe - Teil 2-2: Rationelle Energienutzung - Geräte mit Umluftbacköfen und/oder Strahlungsgrilleinrichtungen

Appareils de cuisson domestiques utilisant les combustibles gazeux - Partie 2-2 : Utilisation rationnelle de l'énergie - Appareils comportant des fours et/ou des grilloirs à convection forcée

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ICS:

97.040.20	Štedilniki, delovni pulti, pečice in podobni aparati	Cooking ranges, working tables, ovens and similar appliances
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oSIST prEN 30-2-2:2017

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English Version

Domestic cooking appliances burning gas - Part 2-2: Rational use of energy - Appliances having forced- convection ovens and/or grills

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This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 49.

If this draft becomes a European Standard, CEN 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.

This draft European Standard was established by CEN 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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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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European Foreword

This document (prEN 30-2-2:2017) has been prepared by Technical Committee CEN/TC 49 “Gas cooking appliances”, the secretariat of which is held by UNI.

This document is currently submitted to CEN Enquiry.

This document will supersede EN 30-2-2:1999.

This document has been prepared under a mandate 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.

This Part 2-2, “Rational use of energy”, of EN 30 complements Part 1-2 “Safety of forced-convection ovens and/or grills”.

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prEN 30-2-2:2017 (E)**1 Scope**

This standard sets out the requirements and test method for the rational use of energy of gas cooking appliances having forced-convection ovens and/or grills using combustible gases described in Clause 1 of EN 30-1-2:2012.

This standard covers only type testing.

NOTE The calorific values given in this standard are based on the gross calorific value (H_g) as defined in EN 30-1-1:2008+A3:2013.

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 amendment) applies.

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

EN 30-1-2:2012, *Domestic cooking appliances burning gas - Safety - Part 1-2: Appliances having forced-convection ovens and/or grills*

EN 30-2-1:2015, *Domestic cooking appliances burning gas - Part 2-1: Rational use of energy - General*

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3 Terms and Definitions

For the purpose of this standard, the definitions given in Clause 3 of EN 30-1-2:2012 and in EN 30-2-1:2015 are applicable.

4 Performance requirements**4.1 Efficiency**

4.1 of EN 30-2-1:2015 applies.

4.2 Maintenance consumption of the oven

If an appliance has a conventional oven, 4.2 of EN 30-2-1:2015 applies for this oven.

For dual purpose ovens, the requirements of 4.2 of EN 30-2-1:2015 apply when the fan is not in operation.

When a forced convection oven operates with the convection fan in operation, particular requirements hereafter apply.

Under the test conditions specified in 5.3 of this standard, the maintenance consumption of the oven shall not exceed the value obtained using the formula:

$$C_e = 0,93 + 0,035 v$$

where:

v is the useful volume of the oven, expressed in cubic decimetres, defined in 6.1 of EN 15181:2017

5 Test methods

5.1 General

5.1.1 Burner supply

5.1.1 of EN 30-2-1:2015 applies with the following additions.

For forced convection ovens, the burner is supplied according to the appliance category with one of the reference gases indicated in 7.1.1.1 of EN 30-1-2:2012, or the actual gas distributed complying with the requirements of 7.1.1.2 of EN 30-1-2:2012.

The burner is adjusted, within $\pm 2\%$ of its nominal heat input in accordance with 7.1.3 of EN 30-1-2:2012.

5.1.2 Test conditions

5.1.2 of EN 30-2-1:2015 applies.

5.1.3 Test pans

5.1.3 of EN 30-2-1:2015 applies.

5.2 Efficiencies

5.2 of EN 30-2-1:2015 applies.

5.3 Maintenance consumption of the oven

5.3 of EN 30-2-1:2015 applies with the following additions.

When a forced convection oven operates with the convection fan in operation, the test conditions are as follows:

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With the oven empty, the burner control device is adjusted so that, under steady-state conditions, the mean temperature rise measured at the geometric centre of the oven as defined in 7.1 of EN 15181:2017 is 155 K or the maximum attainable if it is not possible to achieve a temperature rise of 155 K.

The corresponding gas consumption is measured and it is verified that the requirements of 4.2 of this standard are met.