

Edition 6.1 2012-11

INTERNATIONAL STANDARD

NORME INTERNATIONALE



Household and similar electrical appliances – Safety – Part 2-9: Particular requirements for grills, toasters and similar portable cooking appliances

Appareils électrodomestiques et analogues – Sécurité –
Partie 2-9: Règles particulières pour les grils, les grille-pain et les appareils de cuisson mobiles analogues



THIS PUBLICATION IS COPYRIGHT PROTECTED Copyright © 2012 IEC, Geneva, Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either IEC or IEC's member National Committee in the country of the requester.

If you have any questions about IEC copyright or have an enquiry about obtaining additional rights to this publication, please contact the address below or your local IEC member National Committee for further information.

Droits de reproduction réservés. Sauf indication contraire, aucune partie de cette publication ne peut être reproduite ni utilisée sous quelque forme que ce soit et par aucun procédé, électronique ou mécanique, y compris la photocopie et les microfilms, sans l'accord écrit de la CEI ou du Comité national de la CEI du pays du demandeur.

Si vous avez des questions sur le copyright de la CEI ou si vous désirez obtenir des droits supplémentaires sur cette publication, utilisez les coordonnées ci-après ou contactez le Comité national de la CEI de votre pays de résidence.

IEC Central Office Tel.: +41 22 919 02 11 3, rue de Varembé Fax: +41 22 919 03 00

CH-1211 Geneva 20 info@iec.ch Switzerland www.iec.ch

About the IEC

The International Electrotechnical Commission (IEC) is the leading global organization that prepares and publishes International Standards for all electrical, electronic and related technologies

About IEC publications

The technical content of IEC publications is kept under constant review by the IEC. Please make sure that you have the latest edition, a corrigenda or an amendment might have been published.

Useful links:

IEC publications search - www.iec.ch/searchpub

The advanced search enables you to find IEC publications by a variety of criteria (reference number, text, technical committee,...).

It also gives information on projects, replaced and withdrawn publications.

IEC Just Published - webstore iec.ch/justpublished

Stay up to date on all new IEC publications. Just Published details all new publications beleased. Available on-line and also once a month by email.

Electropedia - www.electropedia.org

The world's leading online dictionary of electronic and electrical terms containing more than 30 000 terms and definitions in English and French, with equivalent terms in additional languages. Also known as the International Electrotechnical Vocabulary (IEV) on-line.

Customer Service Centre - webstore.iec.ch/csc

If you wish to give us your feedback on this publication or need further assistance, please contact the Customer Service Centre: csc@iec.ch.

A propos de la CE

La Commission Electrotechnique Internationale (CEI) est la première organisation mondiale qui élabore et publie des Normes internationales pour tout ce qui a trait à l'électricité, à l'électronique et aux technologies apparentées.

A propos des publications CEI

Le contenu technique des publications de la CEI est constamment revu. Veuillez vous assurer que vous possédez l'édition la plus récente, un corrigendum ou amendement peut avoir été publié.

Liens utiles:

Recherche de publications CEI - www.iec.ch/searchpub

La recherche avancée vous permet de trouver des publications CEI en utilisant différents critères (numéro de référence, texte, comité d'études,...).

Elle donne aussi des informations sur les projets et les publications remplacées ou retirées.

Just Published CEI - webstore.iec.ch/justpublished

Restez informé sur les nouvelles publications de la CEI. Just Published détaille les nouvelles publications parues. Disponible en ligne et aussi une fois par mois par email.

Electropedia - www.electropedia.org

Le premier dictionnaire en ligne au monde de termes électroniques et électriques. Il contient plus de 30 000 termes et définitions en anglais et en français, ainsi que les termes équivalents dans les langues additionnelles. Egalement appelé Vocabulaire Electrotechnique International (VEI) en ligne.

Service Clients - webstore.iec.ch/csc

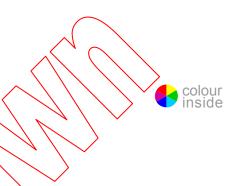
Si vous désirez nous donner des commentaires sur cette publication ou si vous avez des questions contactez-nous: csc@iec.ch.



Edition 6.1 2012-11

INTERNATIONAL STANDARD

NORME INTERNATIONALE



Household and similar electrical appliances – Safety –
Part 2-9: Particular requirements for grills, toasters and similar portable cooking appliances

Appareils électrodomestiques et analogues – Sécurité –
Partie 2-9: Règles particulières pour les grils, les grille-pain et les appareils de cuisson mobiles analogues



INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMISSION ELECTROTECHNIQUE INTERNATIONALE

ICS 13.120; 97.040.50 ISBN 978-2-8322-0484-9

Warning! Make sure that you obtained this publication from an authorized distributor. Attention! Veuillez vous assurer que vous avez obtenu cette publication via un distributeur agréé.

CONTENTS

	FO	REWORD	4
		RODUCTION	
	1	Scope	8
	2	Normative references	9
	3	Terms and definitions	9
	4	General requirement	13
	5	General conditions for the tests	13
	6	Classification	14
	7	Marking and instructions	14
	8		16
	9	Starting of motor-operated appliances	16
	10	Power input and current	16
	11	Heating	16
	12	Void	21
	13	Leakage current and electric strength at operating temperature	21
	14	Transient overvoltages	21
	15	Moisture resistance	21
	16	Leakage current and electric strength	23
	17	Overload protection of transformers and associated circuits	23
	18	Endurance	23
	19	Abnormal operation	23
	20	Stability and mechanical hazards	25
	21	Mechanical strength	26
	22	Construction	27
	23	Internal wiring.	30
	24	Components	30
	25	Supply connection and external flexible cords	31
	26	Terminals for external conductors	31
	27	Provision for earthing	31
	28	Screws and connections	32
	29	Clearances, creepage distances and solid insulation	
	30	Resistance to heat and fire	32
	31	Resistance to rusting	
	32	Radiation, toxicity and similar hazards	33
		nexes	
		nex C (normative) Ageing test on motors	
	Anı	nex R (normative) Software evaluation	40
	Rih	liography	41

Figure 101 – Examples of appliances	34
Figure 102 – Load for testing rotating spits	
Figure 103 – Vessel for testing hotplates	37
Figure 104 – Vessel for testing induction hotplates	37
Figure 105 – Probe for measuring surface temperatures	38
Figure 106 – Front view of appliance with identification of excluded areas	39
Table 101 – Quantity of liquid in the vessel	11
Table 102 – Temperature rises for external surfaces	19
iTex Syntaxus (https://standaxus.iteh.ai) Occurrent Preview //standards.iteh.ai tandx.ls/hz/e/88e990-5ae5-4659-9d79-de9a6e8cdba6	5/iec-60335-2-9-2008

INTERNATIONAL ELECTROTECHNICAL COMMISSION

HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY –

Part 2-9: Particular requirements for grills, toasters and similar portable cooking appliances

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 Quides (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.
- 2) The formal decisions or agreements of IEC on technical matters express as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
- 4) In order to promote international uniformity, IEC National committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
- 5) IEC itself does not provide any attestation of conformity. Independent certification bodies provide conformity assessment services and, in some areas, access to IEC marks of conformity. IEC is not responsible for any services carried out by independent certification bodies.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

This consolidated version of IEC 60335-2-9 consists of the sixth edition (2008) [documents 61/3651/FDIS and 61/3691/RVD] and its amendment 1 (2012) [documents 61/4448/FDIS and 61/4501/RVD]. It bears the edition number 6.1.

The technical content is therefore identical to the base edition and its amendment and has been prepared for user convenience. A vertical line in the margin shows where the base publication has been modified by amendment 1. Additions and deletions are displayed in red, with deletions being struck through.

International Standard IEC 60335-2-9 has been prepared by IEC technical committee 61: Safety of household and similar electrical appliances.

The principal changes in this edition as compared with the fifth edition of IEC 60335-2-9 are as follows (minor changes are not listed):

- aligns the text with IEC 60335-1, Ed 4, and its Amendments 1 and 2;
- introduces requirements for pop-corn makers (3, 11.7, 19.106);
- clarifies the term household and similar purposes (1, 7.12).

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

This part 2 is to be used in conjunction with the latest edition of JEC 60335-1 and its amendments. It was established on the basis of the fourth edition (2001) of that standard.

NOTE 1 When "Part 1" is mentioned in this standard, it refers to IEC 60335-1

This part 2 supplements or modifies the corresponding clauses in EC 60335-1, so as to convert that publication into the IEC standard: Safety requirements for grills, toasters and similar portable cooking appliances.

When a particular subclause of Part 1 is not mentioned in this part 2, that subclause applies as far as is reasonable. When this standard states "addition", "modification" or "replacement", the relevant text in Part 1 is to be adapted accordingly.

NOTE 2 The following numbering system is used:

- subclauses, tables and figures that are numbered starting from 101 are additional to those in Part 1;
- unless notes are in a new subclause or involve notes in Part 1, they are numbered starting from 101, including those in a replaced clause or subclause;
- additional annexes are lettered AA, BB, etc.

NOTE 3 The following print types are used:

- a requirements: in roman type;
- test specifications; in italic type;
- notes: in small roman type.

Words in **bold** in the text are defined in Clause 3. When a definition concerns an adjective, the adjective and the associated from are also in bold.

The following differences exist in the countries indicated below.

- 3.1.9: Different loads and test methods are used (Canada and USA).
- 5.101: If the appliance incorporates a motor, the motor is tested at rated voltage (USA).
- 7.12: Identification of the connector is to be marked on the appliance (Canada and USA).
- 11.2: 9,5 mm thick plywood is used for the test corner (USA).
- 11.7: The test duration is based on the quantity of food (USA).
- 11.8: The modification does not apply (Norway).
- 11.8: A temperature rise of 100 K is allowed for the wall of the test corner (USA).
- 11.101: There are no surface temperature limits on toasters having a metallic enclosure unless they are under cabinet or wall mounted, in which case it is allowed that the temperatures may reach 100 °C if a proper marking is provided (USA).
- 15.2: A different solution is used and the test is not carried out on ovens, hotplates or cookers (USA).
- 15.101: Appliances are immersed to the marked level only (USA).
- 19.2: A 300 mm deep simulated cabinet is located 400 mm above the countertop (Canada and USA).
- 19.2: The test is different. Additional tests are carried out on hotplates and cookers (USA):
- 19.101: Different test methods and numbers of cycles are used (Canada and USA).
- 19.102: A combustible cloth is placed above the toaster and the residual bread is left in place (Canada and USA).

- 19.104: Disks having different sizes are used (USA).
- 20.101: The test is not carried out (USA).
- 21.101: The test is different (USA).
- 22.105: The requirement is not applicable (USA).
- 22.108: The test is not carried out (USA).
- 22.109: The test is not carried out (USA).
- 22.110: The test is not carried out (USA).
- 24.1.3: The test is not carried out (USA).
- 24.101: The test is not carried out (USA).
- 25.7: The free length of the supply cord is specified; in some cases, it is 1,8 m to 2,1 m for appliances intended to be connected to fixed socket-outlets, while in others it is 0,6 m to 2,1 m for appliances normally used on a table or similar surface (Canada and USA).

NOTE 4 The attention of National Committees is drawn to the fact that equipment manufacturers and testing organizations may need a transitional period following publication of a new, amended or revised EC publication in which to make products in accordance with the new requirements and to equip themselves for conducting new or revised tests.

It is the recommendation of the committee that the content of this standard be adopted for implementation nationally not earlier than 12 months nor later than 36 months from the gate of its publication.

The committee has decided that the contents of the base publication and its amendments will remain unchanged until the stability date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

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

IMPORTANT – The "colour inside" logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this publication using a colour printer.

The contents of the corrigendum of January 2013 have been included in this copy.

2008

INTRODUCTION

It has been assumed in the drafting of this International Standard that the execution of its provisions is entrusted to appropriately qualified and experienced persons.

This standard recognizes the internationally accepted level of protection against hazards such as electrical, mechanical, thermal, fire and radiation of appliances when operated as in normal use taking into account the manufacturer's instructions. It also covers abnormal situations that can be expected in practice and takes into account the way in which electromagnetic phenomena can affect the safe operation of appliances.

This standard takes into account the requirements of IEC 60364 as far as possible so that there is compatibility with the wiring rules when the appliance is connected to the supply mains. However, national wiring rules may differ.

If an appliance within the scope of this standard also incorporates functions that are covered by another part 2 of IEC 60335, the relevant part 2 is applied to each function separately, as far as is reasonable. If applicable, the influence of one function on the other is taken into account.

When a part 2 standard does not include additional requirements to cover hazards dealt with in Part 1, Part 1 applies.

NOTE 1 This means that the technical committees responsible for the part 2 standards have determined that it is not necessary to specify particular requirements for the appliance in question over and above the general requirements.

This standard is a product family standard dealing with the safety of appliances and takes precedence over horizontal and generic standards covering the same subject.

NOTE 2 Horizontal and generic standards covering a hazard are not applicable since they have been taken into consideration when developing the general and particular requirements for the IEC 60335 series of standards. For example, in the case of temperature requirements for surfaces on many appliances, generic standards, such as ISO 13732-1 for hot surfaces are not applicable in addition to Part 1 or part 2 standards.

An appliance that complies with the text of this standard will not necessarily be considered to comply with the safety principles of the standard if, when examined and tested, it is found to have other features which impair the level of safety covered by these requirements.

An appliance employing materials or having forms of construction differing from those detailed in the requirements of this standard may be examined and tested according to the intent of the requirements and, if found to be substantially equivalent, may be considered to comply with the standard.

HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY –

Part 2-9: Particular requirements for grills, toasters and similar portable cooking appliances

1 Scope

This clause of Part 1 is replaced by the following.



Appliances intended for normal household and similar use and that may also be used by laymen in shops, in light industry and on farms, are within the scope of this standard. However, if the appliance is intended to be used professionally to process food for commercial

consumption, the appliance is not considered to be for household and similar use only.

As far as is practicable, this standard deals with the common hazards presented by appliances that are encountered by all persons in and around the home. However, in general, it does not take into account

- persons (including children) whose
 - physical, sensory or mental capabilities; or
 - · lack of experience and knowledge

prevents them from using the appliance safely without supervision or instruction;

children playing with the appliance.

NOTE 102 Attention is drawn to the fact that

- for appliances intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary;
- in many countries additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour and similar authorities.

NOTE 103 This standard does not apply to

- stationary ovens and stationary grills (IEC 60335-2-6);
- warming plates (IEC 60335-2-12);
- frying pans and deep fat fryers (IEC 60335-2-13);
- microwave ovens (IEC 60335-2-25);
- barbecues for outdoor use (IEC 60335-2-78);
- appliances intended to burn charcoal or similar combustible fuels;
- appliances intended for commercial catering;
- appliances intended to be used in locations where special conditions prevail, such as the presence of a corrosive or explosive atmosphere (dust, vapour or gas).

2 Normative references

This clause of part 1 is applicable except as follows

Addition:

IEC 60068-2-52, Environmental testing Part 2: Tests – Test Kb: Salt mist, cyclic (sodium chloride solution)

IEC 60584-1, Thermocouples - Part 1: Reference tables

ISO 3864-1, Graphical symbols – Safety colours and safety signs – Part 1: Design principles for safety signs in workplaces and public areas

659-9d79-de9a6e8cdba6/iec-60335-2-9-2008

3 Terms and definitions

This clause of Rart 1 is applicable except as follows.

3.1.9 Replacement:

normal operation

operation of the appliance as specified in the following subclauses:

NOTE 101 Appliances not mentioned but which nevertheless perform one of the functions are operated as specified for this function as far as possible.

3.1.9.101 Toasters are loaded with the maximum number of slices of white bread specified in the instructions and operated in cycles, each cycle consisting of an operating period and a rest period. The bread is approximately 24 h old and the dimensions of the slices are approximately 100 mm \times 100 mm \times 10 mm. The rest periods have a duration of 30 s or the minimum period needed for the resetting of a control, whichever is longer. The slices of bread are replaced during each rest period. The operating period is established by adjusting controls to give the bread a golden-brown colour. For **toasters** without a control, each operating period is terminated as soon as the colour of the bread turns golden-brown.

Toasters incorporating a device for heating rolls are loaded with the maximum number of rolls specified in the instructions. The **toaster** is operated in cycles, each cycle consisting of an operating period followed by a rest period of 30 s when the rolls are turned or replaced. The control is adjusted in accordance with the instructions. If instructions are not given, the control is adjusted for the toasting operation.

Sandwich-toasting attachments are loaded with one or more sandwiches that are positioned in accordance with the instructions to produce the most unfavourable result. Each sandwich comprises two slices of white bread filled with a single slice of suitable cheese having an area equal to a slice of bread and a thickness of approximately 5 mm. The toaster is then operated in accordance with the instructions in cycles, each cycle consisting of a toasting operation followed by a rest period of 30 s, or the minimum period needed for the resetting of a control, whichever is longer.

NOTE Processed cheese and other cheeses that readily melt when heated are suitable.

- **3.1.9.102** Rotary grills are operated with the load on the rotating spit shown in Figure 102.
- **3.1.9.103** Waffle irons having a thermostat are operated with the thermostat adjusted to the highest setting. Other waffle irons are operated so that the temperature at the centre of the heated surface is maintained at 210 °C \pm 15 °C by switching the supply on and off.
- **3.1.9.104** Ovens are operated with the door closed. Ovens having a **thermostat** are operated so that the mean temperature in the centre of the cavity is maintained at 240 °C \pm 4 °C or at the value obtained with the **thermostat** adjusted to its highest setting, if this results in a lower temperature. Other **ovens** are operated so that the temperature in the centre of the cavity is maintained at 240 °C \pm 15 °C by switching the supply on and off.
- 3.1.9.105 Roasters are operated with the lid closed. The mean temperature in the centre of the container is maintained at 240 °C \(\frac{1}{2} \) C, if necessary by switching the supply on and off.
- 3.1.9.106 Radiant grills and rotary grills are operated with the controls adjusted in accordance with the instructions or, if instructions are not provided, with the controls adjusted to the highest setting. Doors or lids are open unless otherwise specified in the instructions.

Contact grills having a thermostat are operated with the thermostat adjusted to the highest setting. Other contact grills are operated so that the temperature at the centre of the heated surface is maintained at $275 \, ^{\circ}\text{C} \pm 15 \, ^{\circ}\text{C}$ by switching the supply on and off.

Raclette grills are operated with doors or lids open, unless otherwise specified in the instructions. Controls are adjusted in accordance with the instructions, pans being in position or removed, whichever is more unfavourable.

3.1.9.107 Barbecues are operated with food supports in the lowest position. Controls are adjusted to the highest setting, any covers or shields being positioned in accordance with the instructions.

NOTE Barbecues are operated without water even if the use of water is recommended.

3.1.9.108 Hotplates, other than induction hotplates, are operated with vessels containing water. The vessels are made of unpolished commercial quality aluminium, have a flat bottom and are covered with a lid. A suitable vessel is specified in Figure 103. Controls are adjusted to their highest setting until the water boils and then adjusted so that the water simmers. Water is added to maintain the level during boiling.

NOTE 1 The lid is positioned so that steam does not affect the test.

Induction hotplates are operated with vessels, as specified in Figure 104, containing cooking oil. Controls are adjusted to their highest setting until the oil temperature reaches 180 °C \pm 4 °C and are then adjusted so that this temperature is maintained. The oil temperature is measured 1 cm above the centre of the bottom of the vessel.

Induction wok hotplates are operated with a wok pan supplied by the manufacturer with the **induction wok hotplate** at the point of sale.

For all **hotplates**, the diameter of the bottom of the vessel is approximately equal to the diameter of the **cooking zone** and the quantity of liquid is specified in Table 101. The vessel is positioned centrally on the **cooking zone**.

Table 101 - Quantity of liquid in the vessel

Diameter of cooking zone	Quantity of water or oil
mm	I
≤110	0,6
>110 and ≤145	1,0
>145 and ≤180	1,5
>180 and ≤220	2,0
>220 and ≤300	3,0

NOTE 2 If several cooking zones are marked for one hotplate, the most unfavourable zone is used for the test.

NOTE 3 For non-circular **cooking zones**, the smallest non-circular **yessel** is used that will cover the **cooking zone** as far as possible, taking into account the **hob** rim and other vessels. The quantity of liquid is determined on the basis of the minor diameter of the **cooking zone**.

- **3.1.9.109** Raclette appliances are operated with the controls adjusted in accordance with the instructions or, if instructions are not provided, with the controls adjusted to the highest setting.
- 3.1.9.110 Food dehydrators are operated empty.
- 3.1.9.111 Breadmakers are operated using the most unfavourable cycle and ingredients specified in the instructions.

NOTE The most unfavourable cycle may be for a function such as jam-making that allows the heating element and the kneading motor to operate simultaneously.

- 3.1.9.112 Pop-corn makers are operated with the container filled with the maximum quantity of corn seeds specified in the instructions and, where relevant, with the maximum quantity of oil specified in the instructions.
- 3.1.9.113 Candy floss appliances are operated without ingredients.

3.101

toaster

appliance intended for toasting slices of bread by radiant heat

3.102

waffle iron

appliance having two heated hinged plates that are shaped to contain batter

3.103

oven

appliance having a heated cavity with a door and constructed so that food that may be in a container can be placed on a shelf

3.104

roaster

appliance having a heated container with a lid and constructed so that food can be placed in it

3.105

rotary grill

appliance having a visibly glowing heating element and a rotating spit to support the food

NOTE A rotary grill is also known as a rotisserie.

3.106

radiant grill

appliance having a visibly glowing heating element and a support on which food can be placed

NOTE A radiant grill may be placed in a compartment with or without a door.

3.107

contact grill

appliance having a heated surface on which food is placed. It may have a second heated surface to cover the food

NOTE A contact grill with only one heated surface is known as a griddle.

3.108

sandwich-toasting attachment

accessory for use with a toaster for toasting sandwignes,

3.109

raclette grill

appliance for melting slices of cheese placed in small pans positioned under the heating element

NOTE Raclette grills may have a surface that is used as a griddle

3.110

raclette appliance

radiant grill for melting the surface of a large piece of cheese

3.111

barbecue

radiant grill having a heating element located under the food support

3.112

hotplate

appliance having one or more heating units on which vessels can be placed for cooking purposes

NOTE Hotplates do not incorporate an oven or grill.

3.113

induction hotplate

hotplate that can heat at least one metallic vessel by means of eddy currents

NOTE The eddy currents are induced in the bottom of the vessel by the electromagnetic field of a coil.

3.114

cooker

appliance incorporating a hotplate and an oven

NOTE Cookers may incorporate a grill.

3.115

food dehydrator

appliance for dehydrating food by means of heated air