

# Gas heated catering equipment —

## Part 2-9: Specific requirements — Solid tops, warming plates and griddles

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The European Standard EN 203-2-9:2005 has the status of a  
British Standard

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## National foreword

This British Standard is the official English language version of EN 203-2-9:2005. Together with BS EN 203-2-1, BS EN 203-2-2, BS EN 203-2-3, BS EN 203-2-4, BS EN 203-2-5, BS EN 203-2-6, BS EN 203-2-7, BS EN 203-2-8, BS EN 203-2-10 and BS EN 203-2-11 it will supersede BS EN 203-2:1995 which will be withdrawn on the publication of all the above mentioned sub-parts.

At the time of publication of this British Standard, EN 203-2-2, EN 203-2-7, EN 203-2-10 and EN 203-2-11 were still in development.

The UK participation in its preparation was entrusted to Technical Committee GSE/19, Catering equipment (gas), which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any proposals on the interpretation, or proposals for change, and keep UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

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### Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 7 and a back cover.

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English Version

Gas heated catering equipment - Part 2-9: Specific requirements  
- Solid tops, warming plates and griddles

Appareils de cuisson professionnels utilisant les  
combustibles gazeux - Partie 2-9: Exigences particulières -  
Plaques coup de feu, plaques chauffantes et grills

Großküchengeräte für gasförmige Brennstoffe - Teil 2-9:  
Spezifische Anforderungen - Glühplatten, Wärmeplatten  
und Griddleplatten

This European Standard was approved by CEN on 22 July 2005.

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## Contents

Foreword .....	3
1 Scope .....	4
2 Normative References .....	4
6.8.101 Surface temperature of the solid top .....	4
6.10 Rational use of energy .....	5
9.3.2 Instructions for use and maintenance .....	5
Annex ZA (informative) Clauses of this European Standard addressing essential requirements or other provisions of EU Directives .....	6

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## Foreword

This European Standard (EN 203-2-9:2005) has been prepared by Technical Committee CEN/TC 106 "Large kitchen appliances using gaseous fuels", the secretariat of which is held by AFNOR.

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 April 2006, and conflicting national standards shall be withdrawn at the latest by December 2008.

This European Standard supersedes EN 203-2:1995, together with EN 203-2-1, EN 203-2-2, EN 203-2-3, EN 203-2-4, EN 203-2-5, EN 203-2-6, EN 203-2-7, EN 203-2-8, EN 203-2-10 and EN 203-2-11.

This European Standard 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 European Standard.

This European Standard sets out requirements and test methods for the rational use of energy of solid tops, warming plates and griddles.

This European Standard shall be applied in conjunction with EN 203-1 " Gas Heated Catering Equipment Part 1 – General safety rules ".

This sub-part of part 2 completes or modifies the corresponding clauses of EN 203-1.

Where a particular sub-clause of EN 203-1 is not mentioned in this sub-part of part 2, that sub-clause applies as far as is reasonable. Where this European Standard states "addition", "modification" or "replacement", the relevant text of EN 203-1 is to be adapted accordingly.

Clauses and figures in addition to EN 203-1 are numbered starting from 101.

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## 1 Scope

*Addition:*

This European Standard specifies the requirements for the construction and operating characteristics relating to the safety and rational use of energy for solid tops, warming plates and griddles, the burners of which are enclosed and the flue gases of which are evacuated by a specific way.

This European Standard only covers type testing.

## 2 Normative References

*Add:*

EN 203-1:2005, *Gas Heated Catering Equipment – Part 1 – General safety rules*

### 3.101

#### **solid top**

cooking appliance equipped with an horizontal plate for indirect cooking of food, in which the cooking surface presents a gradient of temperature

### 3.102

#### **warming plate**

cooking appliance equipped with an horizontal plate for indirect cooking of food, in which the cooking surface presents an homogeneous repartition of temperature

### 3.103

#### **griddle plate**

cooking appliance equipped with a plate for the direct cooking of food

### 3.104

#### **working surface**

surfaces on which the pans rest or the food is handled as well as the top horizontal surface of the appliance

### 6.3.2.101 Temperature of the chromium plated griddle plate

If the surface of the plate is chromium plated, no point shall have a temperature higher than 300 °C under test conditions described in 7.4.2.1 of EN 203-1:2005.

**Note** A limit of 350 °C is allowed until the RoHS (restriction of hazardous substances) directive is applicable.

### 6.3.2.102 Fire hazard in the sauce tray

During the warming test the temperature of the content of the sauce tray shall not be higher than 200 °C under test conditions described in 7.4.2.2 of EN 203-1:2005, and 7.4.2.2.101 of this European Standard.

### 6.3.2.103 Overheat limit device

In case of malfunction of the thermostat working under normal conditions no danger conditions shall arise.

### 6.8.101 Surface temperature of the solid top

The temperature stated by the manufacturer in the user's instructions shall be reached under the test condition of 7.4.2 of EN 203-1:2005

## 6.10 Rational use of energy

No efficiency requirements.

### 7.4.2.2.101 Sauce tray oil temperature

The test is carried out the sauce tray filled with 1/3 of its volume with sunflower oil and the temperature is measured in the centre of the oil volume.

### 7.4.2.101 Working thermostat out of use

If the plate is equipped with a thermostat, the warning test is repeated with the thermostat out of use.

It shall be verified that once the thermal equilibrium has been reached or after the intervention of a safety device no danger condition arises, and the requirements of 6.3.2 of EN 203-1:2005 shall be met.

### 7.6.2.101 Sampling of the combustion products

For precise measurement the sampling probe shall be adapted to the geometry of the part being tested and located in a manner so as to obtain a representative sample of combustion products, i.e as near as possible of the mean composition of all the combustion products. The sampling apparatus shall be either of the probe type surrounding the test zone, allowing a global sampling or of several measuring points around the zone.

## 9.3.2 Instructions for use and maintenance

*Add the following indent:*

- minimum temperature of the hottest point of the solid top;

## Annex ZA (informative)

### Clauses of this European Standard addressing essential requirements or other provisions of EU Directives.

This European standard 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

**WARNING** : Other requirements and other EU Directives may be applicable to the product(s) falling within the scope of this standard.

The following clauses of this European Standard are likely to support requirements of Directive 90/396/EEC "Gas appliances"

Compliance with the clauses of this European Standard provides one means of conforming with the specific essential requirements of the Directive concerned and associated EFTA regulations.

**Table ZA.1**

Essential requirements	Subject	Requirements of EN 203-2-9 as integration of EN 203-1:2005	Comments
1	Annex I General conditions		
1.1	Marking and instructions Instructions for the installer Instruction for the user Warnings Official languages		
1.2.1	Information from the technical instruction		
1.2.2	Contents of the instructions for use and maintenance		
1.2.3	Marking on the appliance and packaging		
1.3	Fittings		NA
2	Materials		
2.1	Characteristics		
2.2	Guarantee		
3	Design and construction		
3.1	General		
3.1.1	Stress resistance		
3.1.2	Condensation		
3.1.3	Risk of explosion		
3.1.4	Penetration by air and water		"Water penetration": not applicable



3.1.5	Auxiliary energy normal fluctuation		
3.1.6	Auxiliary energy abnormal fluctuation		
3.1.7	Electrical hazards		
3.1.8	Pressurised parts		NA
3.1.9	Safety device failure: - Flame supervision device - Shut-off device - Gas governor - Shut-off components - Regulating and limiting device		
3.1.10	Safety/adjustment		
3.1.11	Protection of parts adjusted by the manufacturer		
3.1.12	Marking of control levers and devices		
3.2	Release of unburned gas		
3.2.1	Risk of gas leakage		
3.2.2	Risk of accumulation in appliance		
3.2.3	Risk of accumulation in room		
3.3	Ignition		
3.4	Combustion		
3.4.1	Flame stability Concentration of harmful substances in combustion products		
3.4.2	Release of combustion products		
3.4.3	Release of combustion products in room (for appliance connected to flue, with abnormal draught)		NA
3.4.4	CO limit in room (heating appliance and water heater not connected)		NA
3.5	Rational use of energy	6.10	NA
3.6	Temperature	6.3.2.101, 6.3.2.103	6.3.2.102,
3.6.1	Floor and adjacent panels		
3.6.2	Adjustment levers		
3.7			"Water for sanitary use": not applicable

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