

MAURITIAN
STANDARD

MS EN
26:1997

First edition
2008-11-15

**Gas-fired instantaneous
water heaters for the
production of domestic hot
water, fitted with
atmospheric burners**

ICS: 91.140.65



Mauritius Standards Bureau

Moka

This national standard is the identical implementation of EN 26:1997 and is adopted with the permission of CEN, Avenue Marnix 17, B-1000 Brussels, Belgium.

National foreword

This Mauritian Standard is identical with the European Standard **EN 26:1997**, *Gas-fired instantaneous water heaters for the production of domestic hot water, fitted with atmospheric burners*. It was adopted by the Mauritius Standards Bureau in 2008 on the recommendation of the **Mechanical Engineering Standards Committee** through its **Subcommittee on Household Electrical Appliances** and approved by the **Standards Council** on **29 August 2008**. It was notified in the Government Gazette on **15 November 2008** *.

For the purposes of this Mauritian Standard the following changes should be made:

the words 'European Standard' should be read as 'Mauritian Standard';

the 'decimal comma' should be replaced by the 'decimal point';

***General Notice No 2100 of 2008**



COPYRIGHT PROTECTED DOCUMENT

© MSB 2008

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 or posting on the internet or an intranet, without permission in writing from Mauritius Standards Bureau at the address below

*Mauritius Standards Bureau
Villa Road
Moka
Mauritius*

*Telephone + (230) 433 3648
Fax + (230) 433 5051/ 433 5150
E-mail msb@intnet.mu*

Foreword

This European Standard has been prepared by Technical Committee CEN/TC 48, Domestic gas-fired water heaters, the Secretariat of which is held by AFNOR.

It has been established to deal with the aspects related to:

- safety, rational use of energy; and
- fitness for purpose.

Whilst awaiting common specifications for methods of sampling and measuring NO_x, which are being prepared, this document does not specify particular provisions applicable to these substances. This matter will be dealt with eventually.

This European Standard supersedes EN 26:1977, EN 26:1977/A3:1984 and EN 26:1977/A4:1984, and includes corrigendum 1998.

The different significant technical terms are as follows:

Normative annexes are an integral part of the standard. Informative annexes are only given for information. In this standard, Annexes B, C, D, J, K are normative and annexes A, E, F, G, H, ZA are informative.

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 the EU Directive(s).

For the relationship with EU Directives, see informative Annex ZA, which is an integral part of this standard.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Foreword to amendment A1

This amendment EN 26:1997/A1:2000 to EN 26:1997 has been prepared by Technical Committee CEN/TC 48, Domestic gas-fired water heaters, the Secretariat of which is held by AFNOR.

This amendment to the European Standard EN 26:1997 shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2001, and conflicting national standards shall be withdrawn at the latest by April 2001.

This amendment does not change requirements and test methods contained in EN 26:1997. It modifies EN 26:1997 by the addition of requirements and test methods for type testing of type C water heaters with a fan incorporated in the combustion air supply circuit or in the combustion products evacuation circuit.

This amendment to the European Standard EN 26:1997 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 standard.

To fulfil the Gas Appliance Directive, this amendment contains normative paragraphs specifying requirements for combustion products evacuation ducts which are part of a water heater. Constructional requirements may arise from the Construction Products Directive.

In respect of adverse effects on the quality of water intended for human consumption, caused by the product covered by the standard:

- 1) This standard provides no information as to whether the product may be used without restriction in any of the Member States of the EU or EFTA.
- 2) It should be noted that, while awaiting the adoption of verifiable European Criteria, existing national regulations concerning the use and/or the characteristics of this product remain in force.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Foreword to amendment A2

This document EN 26:1997/A2:2004 has been prepared by Technical Committee CEN/TC 48, Domestic gas-fired water heaters, the secretariat of which is held by AFNOR.

This Amendment to the European Standard EN 26:1997 shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by December 2004, and conflicting national standards shall be withdrawn at the latest by December 2004.

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.

With this amendment, the requirements and test methods for type B instantaneous water heaters with fan assisted combustion are introduced in EN 26. In addition requirements and test procedures for resistance to freezing are introduced.

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

Foreword to amendment A3

This document (EN 26:1997/A3:2006) has been prepared by Technical Committee CEN/TC 48 “Domestic gas-fired water heaters”, the secretariat of which is held by AFNOR.

This Amendment to the European Standard EN 26:1997 shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2007, and conflicting national standards shall be withdrawn at the latest by April 2007.

This amendment includes requirements relative to the metallic, plastic and other non-metallic materials that are used in water heaters and which come into contact with water intended for human consumption. It is intended to ensure that products of this kind complying with these requirements meet current technological development and requirements which will result from the application of the EAS (European Approval Scheme) of the European Commission, with regard to the service life of water heaters and their physiological suitability.

NOTE As long as no European regulations are enforced (EAS) national regulations stay in force.

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

1 Scope

This European Standard defines the specifications and test methods concerning the construction, safety, rational use of energy and fitness for purpose, and also the classification and marking of gas-fired instantaneous water heaters for the production of domestic hot water, hereafter called “water heaters”.

This European Standard applies to water heaters:

- of types A_{AS}, B₁₁, B_{11BS}, B₁₂, B_{12BS}, B₁₃, B_{13BS}, B₁₄, B₂₂, B₂₃, B₃₂, B₃₃, B₄₄, B₅₂, B₅₃, C₁₁, C₁₂, C₁₃, C₂₁, C₂₂, C₂₃, C₃₂, C₃₃, C₄₂, C₄₃, C₅₂, C₅₃, C₆₂, C₆₃, C₇₂, C₇₃, C₈₂ and C₈₃;¹⁾
- fitted with atmospheric burners;
- equipped with atmospheric burners assisted by a fan for the supply of combustion air or evacuation of combustion products or fully premixed burners;
- using one or more combustible gases corresponding to the three gas families in accordance with Table 3 and at the pressures stated in Table 6 and Table 7 of 7.1.4;
- of nominal heat input not exceeding 45 kW;
- with an ignition burner or with direct ignition of the main burner.

This European Standard applies to type C²⁾ water heaters as listed in 4.3.3:

- types C₁, C₃ and C₅ water heaters including their combustion air supply and combustion products evacuation ducts and their terminal(s);
- types C₂ and C₄ water heaters including their connection ducts but without the shared duct system; this shared duct system is part of the building;
- type C₆ water heaters without any ducts; the ducts are separately approved and marketed;
- type C₇ water heaters up to the draught diverter/air inlet but without the secondary flue;
- type C₈ water heaters with their connecting ducts but without the chimney, which is part of the building.

In this European Standard, the heat inputs are expressed in relation to the net calorific value (H_i):

- water heaters of types B₂₁, B₃₁, B₄₁, B₄₂, B₄₃ and B₅₁.

This standard only covers water heaters where the fan, if any, is an integral part of the appliance.

This European Standard does not contain all the requirements necessary for:

- boiling water appliances;
- appliances intended to be connected to a mechanical means of evacuating the combustion products;
- appliances which fulfil a dual role of space heating and heating water for the production of domestic hot water;
- appliances making use of the heat of condensation of the water contained in the combustion products.

This European Standard:

- does not apply to appliances not intended to be connected to a flue when they are not fitted with an atmosphere sensing device;
- takes account of the information given in Technical Report CR 1472 with respect to marking;
- only covers type testing.

Matters which relate to quality assurance systems, production tests and the certification of auxiliary controls are not dealt with in this European Standard.

If the manufacturer indicates that the appliance has been tested in accordance with EN 26, the appliance must conform completely with the requirements of this European Standard.

Type B appliances shall be fitted with a combustion products discharge safety device to comply with essential requirement 3.4.3 of the EC Directive. In this European Standard, the appliance is identified as type B_{11BS}.

¹⁾ National installation regulations may specify further requirements and may limit the modes of installation permitted in the territory of a CEN member state.

²⁾ Except for type C₆ water heaters, type C water heaters are marketed with ducts. Combustion products evacuation ducts in areas of the building other than the room in which the water-heater is installed or ducts or chimneys which are part of the building are also subject to the Construction Products Directive. National installation regulations may specify further requirements and may limit the modes of installation permitted in the territory of a CEN member state.