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Specifications for dedicated liquefied petroleum gas – Portable vapour pressure liquefied petroleum gas appliances

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**Mauritius Standards Bureau
Moka**

This national standard is the identical implementation of EN 521:2006 and is adopted with the permission of CEN, Avenue Marnix 17, B-1000 Brussels, Belgium.

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National foreword

This Mauritian Standard is identical with the European Standard **EN 443:2008**, *Helmets for firefighting in buildings and other structures*. It was adopted by the Mauritius Standards Bureau in 2010 on the recommendation of the **Mechanical Engineering Standards Committee Subcommittee on Household Electrical Appliances** and approved by the **Standards Council** on **31 October 2007**. It was notified in the **Government Gazette** on **09 February 2008***.

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

- (i) the words 'European Standard' should be read as 'Mauritian Standard';
- (ii) the 'decimal comma' should be replaced by the 'decimal point';

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English Version

Specifications for dedicated liquefied petroleum gas appliances - Portable vapour pressure liquefied petroleum gas appliances

Spécifications pour les appareils fonctionnant
exclusivement aux gaz de pétrole liquéfiés - Appareils
portatifs alimentés à la pression de vapeur des gaz de
pétrole liquéfiés

Festlegungen für Flüssiggasgeräte - Tragbare, mit
Dampfdruck betriebene Flüssiggasgeräte

This European Standard was approved by CEN on 28 December 2005.

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. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of 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.



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PREVIEW

Foreword

This European Standard (EN 521:2006) has been prepared by Technical Committee CEN/TC 181 "Dedicated liquefied petroleum gas appliances", 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 August 2006, and conflicting national standards shall be withdrawn at the latest by August 2006.

This European Standard supersedes EN 521:1998.

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 document.

This European Standard only applies to type testing.

In 2001 the Netherlands raised a formal objection in respect of 5.7.2.1 "appliances fitted to pierceable cartridges" of standard EN 521:1998, on the grounds that it does not fully satisfy the essential requirements of Directive 90/396/EEC.

The decision of the commission was that the standard EN 521:1998 shall continue to confer the presumption of conformity to the relevant provisions of Directive 90/396/EEC.

At the same time, the European mandate M/327 was created, with the aim of taking into account the risks emerged by the particular condition of the replacement of the gas cartridge in portable (camping) gas appliances, in order to improve the intrinsic level of safety with regards to the replacement of the cartridge. The revision of this European Standard is an answer to this mandate M/327.

In the view of answering to this mandate, CEN/TC 181/WG 4 carried out a study on the pierceable appliances, whose conclusions are integrated in this European Standard. The modifications brought to this European Standard are focused on 5.7.2.1, and are the answer to the mandate M/327.

A new informative annex (Annex C) is also included, and supplements the changes brought to paragraph 5.7.2.1. It gives examples of authorized solutions, which specify the connecting requirements regarding the replacement of pierceable cartridges.

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 specifies the construction and performance characteristics related to safety and the rational use of energy of portable appliances burning liquefied petroleum gases at the vapour pressure within the gas container. It also defines test methods and the requirements for marking and the information to be given in the instructions.

NOTE These appliances are referred to in the body of the text as "appliances".

This European Standard applies to various types of portable appliances burning liquefied petroleum gases at vapour pressure and designed to be used with (non refillable) cartridges as complying with EN 417 or any types of gas cylinders other than cartridges. For example the following types of appliances are covered:

a) cooking appliances (hotplates, grills, barbecues...).

This European Standard does not cover barbecues that can be used indoors;

b) lighting appliances;

c) heating appliances.

This European Standard only applies to appliances with a maximum heat input of up to 3 kW (H_2) for outdoor use only;

d) blowlamps.

This European Standard only applies to blowlamps without a flexible hose;

e) laboratory burners.

The requirements apply to these appliances or their functional sections whether or not the latter are independent or incorporated into an assembly.

This European Standard only applies to type examination.

Appliances covered by this European Standard are not connected to a flue for the discharge of products of combustion and are not connected to the mains electricity supply.

This European Standard covers neither appliances supplied with LPG in the liquid phase nor those incorporating a fixed gas reservoir which may or may not be refilled by the user. This European Standard does not cover gas containers or flexible hose.

It does not apply to smokers' lighters covered by EN ISO 9994.

Requirements for rational use of energy have been included for hotplate burners.

However, such requirements have not been included for the other types of appliances because:

- for grills and barbecues, this is a type of cooking which is achieved by various means such as radiant elements; in addition this type of cooking varies according to the type of food and region where the appliance is used;
- for lighting appliances, the consumption is insignificant because these appliances have a very low rate and are used only for a few hours in a year;
- for heating appliances, all the heat produced is discharged into the environment;