VEDELGAASISEADMETE TEHNILINE KIRJELDUS. RÕDUDE KÜTTEKEHAD. LÕÕRITA SOOJUST KIIRGAVAD KÜTTEKEHAD KASUTAMISEKS VÄLISTINGIMUSTES VÕI PIISAVA VENTILATSIOONIGA RUUMIDES

Specification for dedicated liquefied petroleum gas appliances - Parasol patio heaters - Flueless radiant heaters for outdoor or amply ventilated area use

EESTI STANDARDIKESKUS
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NATIONAL FOREWORD

See Eesti standard EVS-EN 14543:2017 sisaldab Euroopa standardi EN 14543:2017 ingliskeelset teksti.	This Estonian standard EVS-EN 14543:2017 consists of the English text of the European standard EN 14543:2017.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 12.07.2017.	Date of Availability of the European standard is 12.07.2017.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile standardiosakond@evs.ee.

ICS 97.100.20

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 14543

July 2017

ICS 97.100.20

Supersedes EN 14543:2005+A1:2007

English Version

Specification for dedicated liquefied petroleum gas appliances - Parasol patio heaters - Flueless radiant heaters for outdoor or amply ventilated area use

Spécifications pour les appareils fonctionnant exclusivement aux gaz de pétrole liquéfiés - Parasols pour chauffage de terrasse - Appareils de chauffage radiants non raccordés utilisés à l'extérieur ou dans des espaces largement ventilés

Festlegungen für Flüssiggasgeräte - Terrassen-Schirmheizgeräte - Abzugslose Terrassenheizstrahler zur Verwendung im Freien oder in gut belüfteten Räumen

This European Standard was approved by CEN on 27 February 2017.

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Ref. No. EN 14543:2017 E

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European foreword

This document (EN 14543:2017) 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 January 2018, and conflicting national standards shall be withdrawn at the latest by January 2018.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 14543:2005+A1:2007.

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 2009/142/EC of the European Parliament and of the Council of 30 November 2009 relating to appliances burning gaseous fuels.

For relationship with EU Directive 2009/142/EC, see informative Annex ZA, which is an integral part of this document.

The following changes were implemented with regard to the previous edition:

- addition of max pressure in the scope;
- access to the cylinder valve (only one hand movement without the use of any key or tool);
- limitation of the ignition output to 5 kW;
- requirement for internal flexibles;
- distinction between wall mounted, suspended and grounded appliances;
- requirement for water protection of electrical equipment;
- removal of any reference to EN 449 compliant appliances;
- addition of warning of the changing of tubing or flexible.

Annexes A, B and ZA are informative.

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

1 Scope

This European standard specifies the design, safety and marking requirements and test methods for flueless patio heaters for outdoor or amply ventilated area use only.

These appliances are for use exclusively with gases of the third family as defined in Clause 4.

This European standard applies to appliances that have a nominal heat input not exceeding 17 kW (based on the gross calorific value), supplied with a maximum inlet pressure of 50 mbar:

— fixed or,

— movable, including those which comprise a housing for a transportable and rechargeable liquefied petroleum gas cylinder.

This European standard does not apply to appliances equipped with a fan for either combustion or circulation of the convection air.

This European standard does not cover LPG containers for liquefied petroleum gas, their associated regulator, tubing and flexible hoses used for gas supply of appliances covered by this European standard. Regulator, tubing and flexible hoses are covered by others standards (EN 16129, EN 16436-1 and prEN 16436-2, etc.) and national regulations.

This European standard does not lay down any specific requirements for the thermal efficiency of this type of appliances, but the requirements relating to combustion, which is a safety matter, ensure that the gas fuel will burn efficiently. However a method to measure the performance is described in informative Annex B.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 125:2010+A1:2015, *Flame supervision devices for gas burning appliances — Thermoelectric flame supervision devices*

EN 126:2012, *Multifunctional controls for gas burning appliances*

EN 161:2011+A3:2013, *Automatic shut-off valves for gas burners and gas appliances*

EN 257:2010, *Mechanical thermostats for gas-burning appliances*

EN 298:2012, *Automatic burner control systems for burners and appliances burning gaseous or liquid fuels*

EN 437:2003+A1:2009, *Test gases— Test pressures— Appliance categories*

EN 549:1994, *Rubber materials for seals and diaphragms for gas appliances and gas equipment*

EN 751-1:1996, *Sealing materials for metallic threaded joints in contact with 1st, 2nd and 3rd family gases and hot water— Part 1: Anaerobic jointing compounds*

EN 751-2:1996, *Sealing materials for metallic threaded joints in contact with 1st, 2nd and 3rd family gases and hot water — Part 2: Non-hardening jointing compounds*

EN 751-3:1996, *Sealing materials for metallic threaded joints in contact with 1st, 2nd and 3rd family gases and hot water — Part 3: Unsintered PTFE tapes*

EN 1106:2010, *Manually operated taps for gas burning appliances*

EN 13611:2015, *Safety and control devices for burners and appliances burning gaseous and/or liquid fuels — General requirements*

EN 16617:2015, *Pipework — Corrugated metal hose assemblies for combustible gas — Performance requirements, testing and marking*

EN 60335-1:2012, *Household and similar electrical appliances — Safety — Part 1: General requirements (IEC 60335-1:2010, modified)*

EN 60335-2-102:2016, *Household and similar electrical appliances — Safety — Part 2-102: Particular requirements for gas, oil and solid-fuel burning appliances having electrical connections (IEC 60335-2-102:2004, modified)*

EN 60529:1991[1)], *Degrees of protection provided by enclosures (IP Code) (IEC 60529:1989)*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1
fixed heating appliance
appliance designed to be fixed, for example wall-mounted, on a table, ground-installed or suspended

3.2
movable heating appliance
self-powered heating appliance in which the gas cylinder can be fitted inside the body or chassis of the appliance, and designed to be moved without requiring lifting

3.3
amply ventilated area
volume in which the permanent opening directly connected to outdoors is at least 25 % of the walls surface

3.4
ignition device
device to ignite one or more burners directly or indirectly, for instance through a flash tube

Note 1 to entry: It may be either electric (resistance, spark, etc.) or thermal (pilot, etc.).

3.5
flame supervision device
device including a sensing element which causes the gas supply to a burner to be opened or closed according to the presence or absence of the flame which activates the sensing element

[SOURCE: EN 449:2002+A1:2007, 3.11]

3.6
atmosphere sensing device
device that is designed to shut off the gas supply when the carbon dioxide concentration of the surrounding atmosphere exceeds a given level

Note 1 to entry: Such a device normally comprises a vitiation sensitive pilot burner in conjunction with a suitable flame supervision device.

1) This document is currently impacted by the stand-alone amendments EN 60529:1991/A1:2000 and EN 60529:1991/A2:2013 and the corrigendum EN 60529:1991/corrigendum May 2013 and EN 60529:1991/AC:2016-12.