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de l'accréditation, de la sécurité et qualité
des produits et services

ILNAS-EN 17476:2021+A1:2022

Specifications for dedicated liquefied petroleum gas appliances - LPG vapour pressure appliances incorporating a horizontal cartridge in the chassis

Festlegungen für Flüssiggasgeräte - Mit
Dampfdruck betriebene
Flüssiggasgeräte, die eine waagerechte
Kartusche im Gehäuse enthalten

Spécifications pour les appareils
fonctionnant exclusivement aux gaz de
pétrole liquéfiés - Appareils GPL à
pression de vapeur incorporant une

02/2022



National Foreword

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**Specifications for dedicated liquefied petroleum gas
appliances - LPG vapour pressure appliances
incorporating a horizontal cartridge in the chassis**

Spécifications pour les appareils fonctionnant
exclusivement aux gaz de pétrole liquéfiés - Appareils
GPL à pression de vapeur incorporant une cartouche
horizontale dans leur châssis

Festlegungen für Flüssiggasgeräte - Mit Dampfdruck
betriebene Flüssiggasgeräte, die eine waagerechte
Kartusche im Gehäuse enthalten

This European Standard was approved by CEN on 12 March 2021 and includes Amendment 1 approved by CEN on 10 November 2021.

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COMITÉ EUROPÉEN DE NORMALISATION
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Contents

Page

European foreword.....	5
1 Scope	6
2 Normative references	6
3 Terms and definitions	7
4 Classification of appliances	10
5 Safety requirements.....	11
5.1 General.....	11
5.2 Adjustment of the burner.....	11
5.3 Materials.....	11
5.4 Assembly, cleaning and maintenance.....	12
5.4.1 Assembly	12
5.4.2 Cleaning, maintenance	12
5.5 Strength and stability	12
5.5.1 Strength	12
5.5.2 Stability.....	12
5.6 Soundness of the gas circuit assembly	13
5.7 Connections.....	13
5.8 Transport, fixing and mobility devices	13
5.9 Taps.....	13
5.10 Pressure sensitive safety device.....	13
5.11 Control handles.....	14
5.11.1 Construction.....	14
5.11.2 Marking.....	14
5.12 Injectors.....	14
5.13 Ignition devices.....	14
5.14 Flame supervision devices.....	15
5.15 Burners and radiant elements	15
5.16 Grids.....	15
5.17 Fireguards for heating appliances	15
5.18 Compartment for gas cartridge.....	16
5.19 Heat input	16
5.20 Resistance to overheating.....	16
5.21 Temperature of various parts of the appliance and cartridge	16
5.22 Temperature of panels (floors, walls)	17
5.23 Ignition, crosslighting and flame stability	17
5.24 Resistance to draught.....	17
5.25 Resistance to liquid spillage.....	17
5.26 Combustion	17
5.27 Accumulation of un-burnt gas	17
5.28 Safety at high temperature	18
5.29 Sooting - condensation.....	18
5.30 Rational use of energy of stove burners	18
5.31 Durability of markings.....	18
5.32 Strength and endurance requirements.....	18

5.33	Atmosphere sensing device	18
6	Test methods	19
6.1	General	19
6.1.1	Test gases	19
6.1.2	Test conditions	19
6.1.3	Test gases and pressures	19
6.1.4	Test vessel	20
6.2	Adjustment of the burner	20
6.3	Materials	20
6.4	Assembly, cleaning and maintenance	20
6.5	Strength and stability	21
6.5.1	Strength	21
6.5.2	Stability	21
6.6	Soundness of the gas circuit assembly	22
6.6.1	Soundness of the appliance	22
6.6.2	Soundness of burner assemblies	22
6.7	Connections	22
6.8	Transport, fixing and mobility devices	22
6.9	Taps	22
6.10	Pressure sensitive safety device design and test	22
6.11	Control handles	23
6.12	Injectors	23
6.13	Ignition devices	23
6.14	Flame supervision devices	23
6.14.1	General	23
6.14.2	Ignition delay time	23
6.14.3	Extinction delay time	23
6.15	Burners and radiant elements	23
6.16	Grids	23
6.17	Fireguards for heating appliances	24
6.17.1	Strength of fireguards	24
6.17.2	Dimensions	24
6.18	Compartments for gas cartridge	24
6.19	Verification of heat inputs	24
6.19.1	Test	24
6.19.2	Calculation of heat inputs	25
6.20	Resistance to overheating	25
6.21	Temperatures of the various parts of the appliance and cartridge	26
6.21.1	Test installation	26
6.21.2	Test method	26
6.22	Temperature of panels (floor, wall)	27
6.23	Ignition, crosslighting and flame stability	27
6.23.1	Test conditions	27
6.23.2	Test on individual burners, others being extinguished	27
6.23.3	Test on individual burners, others being lit	27
6.24	Resistance to draught	28
6.25	Resistance to liquid spillage	28
6.26	Combustion	28
6.26.1	General conditions	28
6.26.2	Stove burners	29
6.26.3	Analysis of the products of combustion	29
6.27	Accumulation of un-burnt gases	29

6.28	Safety at high temperature	29
6.29	Sooting - condensation	30
6.30	Rational use of energy of stove burners	30
6.31	Durability of the markings.....	31
6.32	Strength and endurance test.....	32
6.33	Atmosphere sensing devices.....	32
7	Markings.....	32
7.1	Appliance marking	32
7.2	Packaging marking	33
8	Instructions for use, maintenance and assembly	33
8.1	General.....	33
8.2	Instruction contents.....	33
	Annex A (normative) Characteristics of test vessels (see 6.5.2.3).....	42
	Annex B (normative) Tests on taps.....	43
B.1	Resistance to temperature	43
B.2	Endurance.....	43
	Annex C (normative) Vitiation room	44
C.1	Dimension.....	44
C.2	Sealing requirement	44
C.3	Construction.....	44
	Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Regulation (EU) 2016/426/EC	46
	Bibliography	49

European foreword

This document (EN 17476:2021+A1:2022) has been prepared by Technical Committee CEN/TC 181 “Appliances and leisure vehicle installations using liquefied petroleum gas and appliances using natural gas for outdoor use”, 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 2022, and conflicting national standards shall be withdrawn at the latest by August 2022.

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

This document includes Amendment 1 approved by CEN on 10 November 2021.

This document supersedes A1 EN 17476:2021 A1.

The start and finish of text introduced or altered by amendment is indicated in the text by tags A1 A1.

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 Regulation (EU) 2016/426 of the European Parliament and of the Council of 9 March 2016 on appliances burning gaseous fuels and repealing Directive 2009/142/EC.

For relationship with EU Regulation (EU) 2016/426, see informative Annex ZA, which is an integral part of this document.

Appliances covered by this document differ from the ones covered by EN 521:2019+AC:2019 by the fact that the gas cartridge is incorporated inside the appliance body in a position which can create particular situations which need different approach than these used in EN 521:2019+AC:2019.

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

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

1 Scope

This document specifies the construction characteristics, performances and marking related to safety and the rational use of energy of portable, flat gas appliances directly supplied at the LPG vapour pressure, incorporating a gas cartridge complying with EN 417:2012, inserted horizontally in the chassis.

NOTE 1 These appliances are referred to in the body of the text as “appliances”.

This document covers appliances for outdoor or in well ventilated areas uses only.

This document does not cover appliances supplied by an external gas source.

For example, the following types of appliances are covered:

- a) cooking appliances (stoves, barbecues);
- b) heating appliances.

This document specifies the requirements applicable to these appliances or their functional sections whether or not the latter are independent or incorporated into an assembly.

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

This document covers neither appliances supplied with LPG in the liquid phase nor appliance with fixed integral container which could be refilled by the user.

This document does not cover appliances of direct pressure propane category.

Requirements for rational use of energy have been considered for stove burners.

NOTE 2 However, such requirements have not been considered for the other types of appliances because:

- for barbecues, this type of cooking varies according to the type of food and region where the appliance is used;
- for heating appliances, all the heat produced is discharged into the environment.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 30-1-1:2008+A3:2013, *Domestic cooking appliances burning gas - Part 1-1: Safety - General*

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

EN 437:2018, *Test gases — Test pressures — Appliance categories*

EN 549:2019, *Rubber materials for seals and diaphragms for gas appliances and gas equipment*

3 Terms and definitions

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

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1

stove

cooking appliance incorporating one or several burners and a pan support(s) designed in such a way that it(they) can support the vessels containing the food

3.2

flat portable gas appliance

flat appliance operating with a gas cartridge horizontally placed in the chassis

3.2.1

flat portable gas stove

flat portable gas appliance for which the length and/or width is bigger than its height

Note 1 to entry: Figure 1 gives an example of flat portable gas stoves (single and double burners).

3.2.2

flat portable gas heater

flat portable gas appliance intended to heat environment

Note 1 to entry: Figure 2 gives an example of flat portable gas heater.

3.2.3

barbecue

flat portable gas appliance the main function of which is to roast and/or grill food

Note 1 to entry: Cooking is carried out by radiant heat and, possibly, by convection and conduction.

Note 2 to entry: Figure 4 gives an example of barbecue covered by this document.

3.3

vapour pressure appliance

appliance for which the pressure at the gas inlet is equal to the pressure in the gas cartridge

Note 1 to entry: A pressure reducing device may be incorporated in the gas circuit, between the gas inlet and the injector.

3.4

gas cartridge

non-refillable container with a maximum capacity of 1 000 ml filled with gas or a gas mixture

Note 1 to entry: An example of gas cartridges to be horizontally inserted in appliances is given in Figure 3.

Note 2 to entry: Gas cartridges are not fittings.

3.5

cooking device

device supplied with the appliance designed to hold or receive the food to be cooked