Irish Standard
I.S. EN 624:2011

Specification for dedicated LPG appliances - Room sealed LPG space heating equipment for installation in vehicles and boats

I.S. EN 624:2011

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English Version

Specification for dedicated LPG appliances - Room sealed LPG space heating equipment for installation in vehicles and boats

Spécification pour les appareils fonctionnant exclusivement aux GPL - Appareils de chauffage à circuit étanche fonctionnant aux GPL à installer dans les véhicules et bateaux

Festlegungen für flüssiggasbetriebene Geräte - Raumluftunabhängige Flüssiggas-Raumheizgeräte zum Einbau in Fahrzeugen und Booten

This European Standard was approved by CEN on 8 January 2011.

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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

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Foreword

This document (EN 624:2011) has been prepared by Technical Committee CEN/TC 181 “Dedicated LPG 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of an identical text or by endorsement, at the latest by September 2011, and conflicting national standards shall be withdrawn at the latest by September 2011.

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 624:2000.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

NOTE 1 Attention is drawn in particular to EN 1949, *Specification for the installation of LPG systems for habitation purposes in leisure accommodation vehicles and in other road vehicles*, in regard to the harmonization of operating pressures to be used in vehicles.

NOTE 2 Test methods and means of assessment for Clause 5 are given in Clause 6.

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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This European standard specifies the characteristics of safety, construction, performance and efficiency, the test methods and marking, of room sealed space heating equipment of type C (see CEN/TR 1749) with combustion air intake and outlet for the products of combustion in the wall, roof or floor, combined or not. These are referred to in the body of the text as "heaters", burning LPG, for vehicles and boats.

This European standard only covers room sealed heaters also including those which have a combustion air fan, an integral hot air fan or both, only for vehicles and boats which are used for residential, recreational and commercial purposes.

This European standard applies to heaters which are installed either outside or inside the habitable volume, but which have a combustion circuit sealed from the vehicle's interior, and nominal heat input which does not exceed 10 kW (H_s) operated at supply pressure of 30 mbar, 28 mbar, 37 mbar and 50 mbar, using, where appropriate, 12 V or 24 V DC electrical supply.

Room sealed LPG space heating appliances for vehicles and boats are using very often warm air as a heat transfer medium. Annex B specifies additional requirements for appliances using water as a heat transfer medium.

For private cars and vehicles or boats used for the transport of dangerous goods or for commercial personnel transport additional requirements may be necessary.

This European standard does not cover requirements for storage water heaters (boilers) (see EN 15033). For appliances producing additional sanitary hot water (combi-boilers), see relevant clauses of EN 15033.

NOTE If a LPG operated heater is installed in a motorized vehicle being subject to European road traffic legislation, the directives of the Council for the approximation of the laws, regulations and administrative provisions of the member states relating to the heating of the interior of motor vehicles should be applied.

These heaters are also suitable for caravan holiday homes.

2 Normative references

The following referenced documents are indispensable for the application 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 161:2001, *Automatic shut-off valves for gas burners and gas appliances*

EN 298:2003, *Automatic gas burner control systems for gas burners and gas burning appliances with or without fans*

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

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

EN 1057, *Copper and copper alloys — Seamless, round copper tubes for water and gas in sanitary and heating applications*

EN 10226-1, *Pipe threads where pressure tight joints are made on the threads — Part 1: Taper external threads and parallel internal threads — Dimensions, tolerances and designation*

EN 10226-2, *Pipe threads where pressure tight joints are made on the threads — Part 2: Taper external threads and taper internal threads — Dimensions, tolerances and designation*