

საქართველოს სტანდარტი

საოჯახო გაზზე მომუშავე ქვების კონვექციით ჰაერის სივრცის გათბობა,
დამხმარე ვენტილაციის სანთურებით რომლის სითბო არ აღემატება 70 კვტ-ს

საინფორმაციო ნაწილი. სრული ტექსტის სანახავად შეიძინეთ სტანდარტი.

საქართველოს სტანდარტებისა და მეტროლოგიის
ეროვნული სააგენტო
თბილისი

საინფორმაციო მონაცემები

1 შემუშავებულია საქართველოს სტანდარტების და მეტროლოგიის ეროვნული სააგენტოს სტანდარტების დეპარტამენტის მიერ

2 დამტკიცებულია და შემოღებულია სამოქმედოდ საქართველოს სტანდარტების და მეტროლოგიის ეროვნული სააგენტოს 2018 წლის 17 აგვისტოს № 85 განკარგულებით

3 მიღებულია გარეკანის თარგმნის მეთოდით სტანდარტიზაციის ევროპული კომიტეტის სტანდარტი ენ 1319:2009 „საოჯახო გაზზე მომუშავე ქვების კონვექციით ჰაერის სივრცის გათბობა, დამხმარე ვენტილაციის სანთურებით რომლის სითბო არ აღემატება 70 კვტ-ს“

4 პირველად

5 რეგისტრირებულია საქართველოს სტანდარტების და მეტროლოგიის ეროვნული სააგენტოს რეესტრში: 2018 წლის 17 აგვისტო №268-1.3-013909

აკრძალულია ამ სტანდარტის გადაცემა მესამე პირებისათვის ან/და მისი სხვა ფორმით გავრცელება

საინფორმაციო ნაწილი. სრული ტექსტის სანახავად შეიძინეთ სტანდარტი.

English Version

Domestic gas-fired forced convection air heaters for space heating, with fan-assisted burners not exceeding a net heat input of 70 kW

Générateurs d'air chaud à convection forcée utilisant les combustibles gazeux pour le chauffage de locaux à usage d'habitation, comportant des brûleurs avec ventilateur de débit calorifique inférieur ou égal à 70 kW (sur pouvoir calorifique inférieur)

Warmluftgerzeuge mit erzwungener Konvektion zum Beheizen von Räumen für den häuslichen Gebrauch, mit gebläseunterstützten Gasbrennern mit einer Nennwärmebelastung gleich oder kleiner als 70 kW

This European Standard was approved by CEN on 1 November 2009.

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 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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, 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.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: Avenue Marnix 17, B-1000 Brussels

საინფორმაციო ნაწილი. სრული ტექსტის სახსრავად შეიძინეთ სტანდარტი.

Contents

Page

Foreword.....4

1 Scope6

2 Normative references6

3 Terms and definitions8

3.1 Appliance and its constituent parts8

3.2 Adjustment, control and safety devices..... 11

3.3 Operation of the appliance 13

3.4 Gases 16

3.5 Conditions of operation and measurement 18

3.6 Marking of the appliance and packaging 19

4 Classification of systems..... 19

4.1 Classification according to the nature of the gases used (Categories)..... 19

4.2 Classification according to the gases capable of being used 19

4.3 Classification according to the mode of evacuation of the combustion products 21

5 Construction and design requirements 23

5.1 General..... 23

5.2 Adjusting, control and safety devices 30

5.3 Ignition devices 37

5.4 Flame supervision system 37

5.5 Start-gas flame establishment..... 38

5.6 Main flame establishment 41

5.7 Main burner 41

5.8 Facility for remote control 41

5.9 Thermostats and control of air temperature 42

5.10 Gas pressure test points..... 42

6 Operational requirements 43

6.1 Safety of operation 43

6.2 Efficiency 51

7 Test methods..... 52

7.1 General..... 52

7.2 Construction and design 61

7.3 Safety of operation 61

7.4 Efficiency 91

8 Marking and instructions 99

8.1 Marking of the appliance..... 99

8.2 Marking of the packaging 100

8.3 Utilization of symbols on the appliance and packaging..... 101

8.4 Instructions 103

9 Evaluation of POCED conformity and their associated terminals..... 105

9.1 General..... 105

9.2 Type testing 105

9.3 Factory production control (FPC) 106

Annex A (informative) National situations 108

A.1 General..... 108

A.2 Categories listed in the body of the standard and marketed in different countries 108

A.3 Appliance supply pressures corresponding to the categories given in A.2 110

A.4 Special categories marketed nationally or locally 111

საინფორმაციო ნაწილი. სრული ტექსტის სახსრავად შეიძინეთ სტანდარტი.

A.5	Test gases corresponding to the special categories given in A.4	117
A.6	Gas connections in the various countries	120
A.7	Flue connections in the various countries	122
Annex B	(informative) Equivalence rules	123
B.1	Conversion to categories within a restricted Wobbe index range	123
B.2	Conversion to categories within an identical Wobbe index range	123
B.3	Conversion to categories within a wider Wobbe index range	124
Annex C	(normative) Classification according to the evacuation of the combustion	125
C.1	Type B ₁	125
C.2	Type B ₂	126
C.3	Type B ₄	127
C.4	Type B ₅	129
C.5	Type C ₁	130
C.6	Type C ₃	131
Annex D	(normative) Requirements and tests for the ducting of C₆ appliances	132
D.1	Requirements	132
D.2	Test methods	132
Annex E	(informative) A-deviations	136
E.1	General	136
E.2	Switzerland	136
Annex F	(normative) Special national conditions	137
F.1	General	137
F.2	Belgium	137
F.3	Italy	137
F.4	Poland	137
Annex G	(informative) Identification of gas types in use in various countries	138
Annex H	(informative) National solutions for countries whose national bodies are Affiliate Members of CEN	139
H.1	Categories listed in the body of the standard and marketed in different countries	139
H.2	Appliance supply pressures corresponding to the categories given in H.1	139
H.3	Special categories marketed nationally or locally	139
H.4	Gases and test pressures corresponding to the special categories given in H.3	139
Annex I	(informative) Calculation of conversions of NO_x	140
Annex J	(informative) An example of sampling plans	141
J.1	Sampling plans	141
J.2	Inspection levels and procedures	142
Annex ZA	(informative) Relationship between this European Standard and the Essential Requirements of EU Directive 90/396/EEC	143
Annex ZB	(informative) Clauses of this European Standard addressing the provisions of the EU Construction Products Directive	145
ZB.1	Scope and relevant characteristics	145
ZB.2	Procedure(s) for attestation of conformity of [construction products]	147
ZB.3	CE marking and labelling	150
	Bibliography	152

Foreword

This document (EN 1319:2009) has been prepared by Technical Committee CEN/TC 180 “Domestic and non-domestic gas-fired air heaters and non-domestic gas-fired overhead radiant heaters”, 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 June 2010, and conflicting national standards shall be withdrawn at the latest by June 2010.

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 1319:1998.

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 EC Directive(s).

For relationship with EU Directive(s), see informative Annexes ZA and ZB, which are integral parts of this document.

This revision modifies EN 1319:1998. It has been prepared to incorporate requirements for combustion products evacuation ducts, POCEDs, supplied as an integral part of the system to support the EU Directive 89/106/EEC on construction products under mandate M105. To this end it extends the scope of the standard to cover type B₄ and B₅ appliances.

Furthermore, the opportunity presented by this revision has been taken to update the standard in respect to EN 437:2003.

NOTE For countries requesting special categories (specified in EN 437), the absence of specific information concerning A.4.3 and A.4.4 implies that the general requirements described in the body of the standard (see 5.1.1, 5.2.2, 5.2.3 and 5.2.5) also apply to these special categories.

Other European Standards covering gas-fired air heaters are:

EN 525, *Non-domestic direct gas-fired forced convection air heaters for space heating not exceeding a net heat input of 300 kW*

EN 621, *Non-domestic gas-fired forced convection air heaters for space heating not exceeding a net heat input of 300 kW, without a fan to assist transportation of combustion air and/or combustion products*

EN 778, *Domestic gas-fired forced convection air heaters for space heating not exceeding a net heat input of 70 kW, without a fan to assist transportation of combustion air and/or combustion products*

EN 1020, *Non-domestic forced convection gas-fired air heaters for space heating not exceeding a net heat input of 300 kW incorporating a fan to assist transportation of combustion air or combustion products*

EN 1196, *Domestic and non-domestic gas-fired air heaters — Supplementary requirements for condensing air heaters*

EN 12669, *Direct gas-fired hot air blowers for use in greenhouses and supplementary non-domestic space heating*

საინფორმაციო ნაწილი. სრული ტექსტის საწარმოო შექმნის სტანდარტი.

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, 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.

საინფორმაციო ნაწილი. სრული ტექსტის სახასიათოდ შეიძინეთ სტანდარტი.