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Standards

Irish Standard  
I.S. EN 1319:2009

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

## I.S. EN 1319:2009

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Údarás um Chaighdeáin Náisiúnta na hÉireann

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)

Warmluft erzeuger 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.

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## 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of an identical text or by endorsement, at the latest by June 2010, and conflicting national standards shall be withdrawn at the latest by June 2010.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 B<sub>4</sub> and B<sub>5</sub> 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*

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.

## 1 Scope

This European Standard specifies the requirements and test methods for the safety and efficiency of domestic gas-fired air heaters with a fan to assist the transportation of combustion air and/or combustion products, hereafter referred to as appliances.

This European Standard applies to Type B<sub>12</sub>, B<sub>12AS</sub>, B<sub>12BS</sub>, B<sub>13</sub>, B<sub>13AS</sub>, B<sub>13BS</sub>, B<sub>14</sub>, B<sub>14AS</sub>, B<sub>14BS</sub>, B<sub>22</sub>, B<sub>23</sub>, B<sub>42</sub>, B<sub>42AS</sub>, B<sub>42BS</sub>, B<sub>43</sub>, B<sub>43AS</sub>, B<sub>43BS</sub>, B<sub>44</sub>, B<sub>44AS</sub>, B<sub>44BS</sub>, B<sub>52</sub>, B<sub>53</sub>, C<sub>12</sub>, C<sub>13</sub>, C<sub>32</sub>, C<sub>33</sub>, C<sub>62</sub> and C<sub>63</sub> appliances with an input not exceeding 70 kW (net cv basis), intended primarily for use in single unit residential dwellings. Provision of the heated air may be by means of ducting.

This standard does not apply to:

- a) appliances of the condensing type;
- b) appliances for outdoor installation;
- c) dual purpose air conditioning appliances (heating and cooling);
- d) appliances where the air is heated by an intermediate fluid;
- e) appliances with forced draught package burners or fully premixed burners;
- f) appliances fitted with a manual means of adjusting the combustion air supply or the evacuation of the combustion products;
- g) portable or transportable forced convection appliances;
- h) appliances having multiple heating units with a single draught diverter;
- i) appliances fitted with more than one flue outlet;
- j) Type C<sub>22</sub>, C<sub>23</sub>, C<sub>42</sub>, C<sub>43</sub>, C<sub>52</sub> and C<sub>53</sub> appliances;
- k) appliances that are designed for continuous condensation within the flue system under normal operating conditions;
- l) appliances having combustion products evacuation ducts, POCEDs, that are non-metallic.

This standard is applicable to appliances which are intended to be type tested. It also includes requirements concerning the evaluation of conformity, including factory production control, but these requirements only apply to POCEDs and their associated terminals.

## 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 88-1:2007, *Pressure regulators and associated safety devices for gas appliances — Part 1: Pressure regulators for inlet pressures up to and including 500 mbar*

EN 125:1991, *Flame supervision devices for gas burning appliances — Thermo-electric flame supervision devices*

EN 126:2004, *Multifunctional controls for gas burning appliances*



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