



**NSAI**  
Standards

Irish Standard  
I.S. EN 17082:2019

Domestic and non-domestic gas-fired  
forced convection air heaters for space  
heating not exceeding a net heat input of  
300 kW

**I.S. EN 17082:2019**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

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## National Foreword

I.S. EN 17082:2019 is the adopted Irish version of the European Document EN 17082:2019, Domestic and non-domestic gas-fired forced convection air heaters for space heating not exceeding a net heat input of 300 kW

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

EN 17082

October 2019

ICS 97.100.20

Supersedes EN 1020:2009, EN 1196:2011, EN 1319:2009, EN 525:2009, EN 621:2009, EN 778:2009

English Version

Domestic and non-domestic gas-fired forced convection air  
heaters for space heating not exceeding a net heat input of  
300 kW

Générateurs d'air chaud à convection forcée utilisant  
les combustibles gazeux pour le chauffage de locaux à  
usage domestique et non domestique, de débit  
calorifique inférieur ou égal à 300 kW, sur pouvoir  
calorifique inférieur (PCI)

Häusliche und nicht-häusliche gasbefeuerte  
Warmlufterzeuger mit erzwungener Konvektion zur  
Raumbeheizung deren Nennwärmebelastung 300 kW  
nicht übersteigt

This European Standard was approved by CEN on 5 June 2019.

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.

CEN members are the national standards bodies of 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 United Kingdom.



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

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## European foreword

This document (EN 17082:2019) has been prepared by Technical Committee CEN/TC 180 “Decentralized gas heating”, 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 April 2020, and conflicting national standards shall be withdrawn at the latest by April 2020.

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 supersedes EN 525:2009, EN 621:2009, EN 778:2009, EN 1196:2011, EN 1020:2009 and EN 1319:2009.

This document covers the safety and energy efficiency requirements of domestic and non-domestic warm air heaters previously covered by EN 525:2009, EN 621:2009, EN 778:2009, EN 1196:2011, EN 1020:2009 and EN 1319:2009. Additional technical requirements have been made compared to the superseded documents to take account the following:

- Specific requirements on risk analysis due to differences in the Essential Requirements for the Gas Appliance Regulation compared to those of the Gas Appliance Directive;
- Additional requirements on appliance efficiency, including the need to calculate the seasonal efficiency related to the requirements of the Eco-Design Regulation.

Changes have also been made to the document structure to improve its ease of use, for example requirements and associated test methods have been moved into the same clause.

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(s).

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

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.

**EN 17082:2019 (E)****1 Scope**

This document specifies the requirements and test methods for the safety and efficiency of gas fired air heaters with or without a fan to assist the transportation of combustion air and/or flue gases, hereafter referred to as "appliances".

This document also applies to warm air heaters having forced draught burners.

This document applies to Type A<sub>2</sub>, A<sub>3</sub> appliances, with an input not exceeding 300 kW (net CV basis), intended for non-domestic use.

This document also applies to Type B<sub>11</sub>, B<sub>11AS</sub>, B<sub>11BS</sub>, 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>41</sub>, B<sub>41AS</sub>, B<sub>41BS</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>11</sub>, C<sub>12</sub>, C<sub>13</sub>, C<sub>21</sub>, C<sub>31</sub>, C<sub>32</sub>, C<sub>33</sub>, C<sub>41</sub>, C<sub>62</sub> and C<sub>63</sub> appliances with an input not exceeding 300 kW (net CV basis), intended for domestic and non-domestic use.

Provision of the heated air may be by means of ducting.

This document does not apply to:

- a) dual purpose air conditioning appliances (heating and cooling);
- b) appliances where the air is heated by an intermediate fluid;
- c) portable or transportable forced convection appliances;
- d) appliances fitted with manual or automatic means of adjusting the combustion products evacuation by means of flue dampers;
- e) appliances having multiple heating units with a single draught diverter;
- f) appliances fitted with more than one flue outlet;
- g) appliances fitted with gas boosters;
- h) C<sub>21</sub> and C<sub>41</sub> appliances for 3rd family gases.

**NOTE** For C<sub>41</sub> appliances, see all requirements and test methods that are valid for C<sub>21</sub> appliances, unless otherwise stated.

This document is not intended to cover appliances projected for connection to gas grids where the quality of the distributed gas is likely to vary to a large extent over the lifetime of the appliance.

This document is applicable to appliances which are intended to be type tested.

**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 88-1:2011+A1 2016, *Pressure regulators and associated safety devices for gas appliances — Part 1: Pressure regulators for inlet pressures up to and including 50 kPa*

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



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