

Domestic and non-domestic gas-fired air heaters — Supplementary requirements for condensing air heaters

The European Standard EN 1196:1998 has the status of a
British Standard

ICS 91.140.10

NO COPYING WITHOUT BSI PERMISSION EXCEPT AS PERMITTED BY COPYRIGHT LAW

BSI
Documents



Document Sharing Hub

National foreword

This British Standard is the English language version of EN 1196:1998.

The UK participation in its preparation was entrusted by Technical Committee GSE/20, Non-domestic space heaters (gas), to Subcommittee GSE/20/4, Air-heaters (gas), which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this subcommittee can be obtained on request to its secretary.

Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the BSI Standards Catalogue under the section entitled “International Standards Correspondence Index”, or by using the “Find” facility of the BSI Standards Electronic Catalogue.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 9 and a back cover.

Amendments issued since publication

Amd. No.	Date	Text affected

This British Standard, having been prepared under the direction of the Engineering Sector Committee, was published under the authority of the Standards Committee and comes into effect on 15 November 1998

© BSI 1998

ICS 91.140.10

Descriptors: warm air heating, hot air generators, gas appliances, condensation, water vapour, definitions, operating requirements, equipment specifications, design, performance evaluation, tests, installation, utilization, technical notices

English version

Domestic and non-domestic gas-fired air heaters — Supplementary requirements for condensing air heaters

Générateurs d'air chaud à usages domestique et
non domestique utilisant les combustibles gazeux —
Exigences complémentaires pour les générateurs
d'air chaud à condensation

Gasbefeuerte Warmlufterzeuger für den häuslichen
und den nicht-häuslichen Gebrauch —
Zusätzliche Anforderungen an kondensierende
Warmlufterzeuger

This European Standard was approved by CEN on 26 March 1998.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart 36, B-1050 Brussels

© 1998 CEN All rights of exploitation in any form and by any means reserved worldwide for CEN national Members.

Foreword

This European Standard has been prepared by Technical Committee CEN/TC 179, Gas-fired air heaters, the Secretariat of which is held by NNI.

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 December 1998 and conflicting national standards shall be withdrawn at the latest by December 1998.

This European Standard 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 standard.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Contents

	Page
Foreword	2
1 Scope	3
2 Normative references	3
3 Definitions	3
4 Constructional and design requirements	3
4.1 General	3
4.2 Materials	3
4.3 Access, assembly and disassembly of condensate carrying parts	3
4.4 Condensate discharge	4
4.5 Condensate neutralization system	4
4.6 Limitation of the combustion products temperature	4

	Page
5 Operational requirements	4
5.1 General	4
5.2 Draining of condensate	4
5.3 Soundness of the condensate-carrying parts	4
5.4 Composition of the condensate	4
5.5 Condensate neutralization system	4
5.6 Condensate discharge system	4
5.7 Limitation of combustion products temperature	4
5.8 Efficiency	4
6 Test Methods	5
6.1 General	5
6.2 Draining of condensate	5
6.3 Soundness of the condensate-carrying parts	5
6.4 Composition of the condensate	5
6.5 Condensate neutralization system	5
6.6 Condensate discharge system	5
6.7 Limitation of combustion products temperature	5
6.8 Efficiency	6
7 Marking and instructions	6
7.1 Marking	6
7.2 Installation instructions	6
7.3 User's instructions	6
Annex A (normative) Determination of the condensing correction factor (<i>S</i> in the Efficiency Equation)	7
Annex B (informative) Special categories marketed nationally or locally	7
Annex C (informative) A-deviations	9
Annex ZA (informative) Clauses of this European Standard addressing requirements or other provisions of EU Directives	9