

Single burner gas-fired overhead radiant tube heaters for non-domestic use - Part 2: Rational use of energy

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heaters for nondomestic use - Part 2: Rational use of
energy

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 416-2:2006 sisaldab Euroopa standardi EN 416-2:2006 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 31.07.2006 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 416-2:2006 consists of the English text of the European standard EN 416-2:2006.</p> <p>This document is endorsed on 31.07.2006 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala:</p> <p>This European Standard specifies the requirements and test methods for the rational use of energy of non-domestic gas fired overhead radiant tube heaters incorporating a single burner system under the control of an automatic burner control system, referred to in the body of the text as 'appliances'.</p>	<p>Scope:</p> <p>This European Standard specifies the requirements and test methods for the rational use of energy of non-domestic gas fired overhead radiant tube heaters incorporating a single burner system under the control of an automatic burner control system, referred to in the body of the text as 'appliances'.</p>
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Võtmesõnad: gases, infrared radiation, lamps, radiators, safety, safety devices, safety engineering, safety provisions, safety requirements, specification (approval), specifications, symbols, testing, thermal environment systems, trade, use, utilization of energy, ventilators

English Version

**Single burner gas-fired overhead radiant tube heaters for non-
domestic use - Part 2: Rational use of energy**

Tubes radiants suspendus à monobûleur à usage non
domestique utilisant les combustibles gazeux - Partie 2 :
Utilisation rationnelle de l'énergie

Gasgeräte-Heizstrahler - Dunkelstrahler mit einem Brenner
mit Gebläse für gewerbliche und industrielle Anwendung -
Teil 2: Rationelle Energienutzung

This European Standard was approved by CEN on 16 March 2006.

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, 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.



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Foreword

This European Standard (EN 416-2:2006) has been prepared by Technical Committee CEN/TC 180 "Non-domestic gas-fired overhead radiant heaters", the secretariat of which is held by BSI.

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 2006, and conflicting national standards shall be withdrawn at the latest by December 2006.

This European Standard supersedes ENV 1259-1:1994, ENV 1259-2:1996 and ENV 1259-3:1996

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 European Standard.

This part of EN 416 complements EN 416-1: "Single burner gas-fired overhead radiant-tube heaters - Part 1: Safety".

It is intended that this standard is reviewed 3 years after publication.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, 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.

1 Scope

This European Standard specifies the requirements and test methods for the rational use of energy of non-domestic gas fired overhead radiant tube heaters incorporating a single burner system under the control of an automatic burner control system, referred to in the body of the text as 'appliances'.

This standard is applicable to Type A₂, A₃, B₁₂, B₁₃, B₂₂, B₂₃, B₄₂, B₄₃, B₅₂, B₅₃, C₁₂, C₁₃, C₃₂ and C₃₃ appliances intended for use in other than domestic dwellings, in which the supply of combustion air and/or the evacuation of the products of combustion is achieved by mechanical means located upstream of the draught diverter, if provided.

This standard is not applicable to:

- a) appliances designed for use in a domestic dwelling;
- b) outdoor appliances;
- c) appliances of heat input in excess of 120 kW (based on the net calorific value of the appropriate reference test gas);
- d) appliances having fully pre-mixed gas and air burners in which :
 - 1) either the gas and all the combustion air are brought together just before the level of the combustion zone; or
 - 2) pre-mixing of the gas and all combustion air is carried out in a part of the burner upstream of the combustion zone.

This standard is applicable to appliances which are intended to be type tested. Requirements for appliances which are not intended to be type tested need to be subject to further consideration.

2 Normative references

The following referenced documents are indispensable for the application of this European Standard. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 416-1: 1999, *Single burner gas-fired overhead radiant tube heaters — Part 1: Safety*

3 Terms and definitions

For the purposes of this European Standard, the terms and definitions given in Clause 3 of EN 416-1: 1999 apply together with the following.

3.1

radiation reference plane

flat horizontal surface bounded by the lower edge of the reflector or, in the case where radiant parts project below this lower edge of the reflector, the flat horizontal surface touching the lowest radiant part (see Figure 1)