

**Ceiling mounted radiant panels
supplied with water at temperature
below 120 °C - Part 1: Technical
specifications and requirements**

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 14037-2:2003 sisaldab Euroopa standardi EN 14037-2:2003 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 16.05.2003 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 14037-2:2003 consists of the English text of the European standard EN 14037-2:2003.</p> <p>This document is endorsed on 16.05.2003 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: This European Standard defines the technical specifications and requirements of ceiling mounted hot water radiant panels fed with water at temperatures below 120 °C supplied by a remote heat source. The European Standard does not apply to independent heating appliances</p>	<p>Scope: This European Standard defines the technical specifications and requirements of ceiling mounted hot water radiant panels fed with water at temperatures below 120 °C supplied by a remote heat source. The European Standard does not apply to independent heating appliances</p>
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Võtmesõnad:

ICS 91.140.10

English version

Ceiling mounted radiant panels supplied with water at temperature below 120 °C - Part 2: Test method for thermal output

Panneaux rayonnants de plafond alimentés en eau à une température inférieure à 120 °C - Partie 2: Méthode d'essai pour la détermination de la puissance thermique

Deckenstrahlplatten für Wasser mit einer Temperatur unter 120 °C - Teil 2: Prüfverfahren für die Wärmeleistung

This European Standard was approved by CEN on 20 February 2003.

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Foreword

This document EN 14037-2:2003 has been prepared by Technical Committee CEN/TC 130, "Space heating appliances without integral heat sources", the secretariat of which is held by UNI.

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 October 2003 and conflicting national standards shall be withdrawn at the latest by October 2003.

Annexes A, C and D are normative. Annex B is informative.

This document includes a Bibliography.

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, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

Introduction

This European Standard results from the recognition that the ceiling mounted radiant panels falling into the field of application hereinafter stated are traded on the basis of their thermal output. To evaluate and compare different ceiling mounted radiant panels it is therefore necessary to refer to a single stipulated value.

This European Standard of ceiling mounted radiant panels consists of the following parts:

- Part 1: Technical specifications and requirements
- Part 2: Test method for thermal output
- Part 3: Rating method and evaluation of radiant thermal output

1 Scope

This European Standard describes the test method and the test installation for determining the thermal output of ceiling mounted radiant panels.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text, and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 442-2:1996, *Radiators and convectors – Part 2: Test methods and rating.*

EN 14037-1:2003, *Ceiling mounted radiant panels supplied with water at temperatures below 120 °C - Part 1: Technical specifications and requirements.*

EN 14037-3:2003, *Ceiling mounted radiant panels supplied with water at temperatures below 120 °C - Part 3: Rating method and evaluation of radiant thermal output.*

EN ISO/IEC 17025:2000, *General requirements for the competence of testing and calibration laboratories (ISO/IEC 17025:1999).*

3 Terms and definitions

For the purposes of this European Standard, the terms and definitions given in EN 14037-1:2003 apply.

4 Testing of thermal output

The test is carried out in a testing system, which consists of a closed booth with controlled temperatures of the inside surfaces plus a set of two master panels built according to clause 6.

The method for measuring the thermal output consists of the measurement of mass flow and enthalpy difference between inlet and outlet (by weighing method). All other measurement methods shall guarantee in minimum the precision obtained by weighing method.

All laboratories that make tests according this standard have to make comparable measurements with the other laboratories (according to clause 6 of this standard).