

STN	Voľne visiace vykurovacie a chladiace povrchy s prietokom vody s teplotou do 120 °C. Časť 4: Prefabrikované stropné sálavé panely. Skúšobné metódy chladiacej kapacity.	STN EN 14037-4
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Free hanging heating and cooling surfaces for water with a temperature below 120C - Part 4: Pre-fabricated ceiling mounted radiant panels - Test method for cooling capacity

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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EUROPEAN STANDARD

EN 14037-4

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English Version

Free hanging heating and cooling surfaces for water with a temperature below 120°C - Part 4: Pre-fabricated ceiling mounted radiant panels - Test method for cooling capacity

Panneaux rayonnants de chauffage et de rafraîchissement alimentés avec une eau à une température inférieure à 120 °C - Partie 4: Méthode d'essai pour la détermination de la puissance de rafraîchissement des panneaux rayonnants préfabriqués

An der Decke frei abgehängte Heiz- und Kühlflächen für Wasser mit einer Temperatur unter 120 °C - Teil 4: Vorgefertigte Deckenstrahlplatten zur Raumheizung - Prüfverfahren für die Kühlleistung

This European Standard was approved by CEN on 18 March 2016.

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European foreword

This document (EN 14037-4:2016) 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of an identical text or by endorsement, at the latest by March 2017, and conflicting national standards shall be withdrawn at the latest by March 2017.

The European Standard EN 14037, *Free hanging heating and cooling surfaces for water with a temperature below 120°C*, consists of the following parts:

- *Part 1: Prefabricated ceiling mounted radiant panels for space heating - Technical specifications and requirements;*
- *Part 2: Prefabricated ceiling mounted radiant panels for space heating - Test method for thermal output;*
- *Part 3: Prefabricated ceiling mounted radiant panels for space heating - Rating method and evaluation of radiant thermal output;*
- *Part 4: Prefabricated ceiling mounted radiant panels for space heating - Test method for cooling capacity;*
- *Part 5: Open or closed heated ceiling surfaces - Test method for thermal output.*

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Introduction

This European Standard results from the recognition, that heated and chilled ceiling radiant panels falling into the field of application hereinafter stated are traded on the basis of their thermal output. For evaluating and comparing different heated and chilled ceiling surfaces it is therefore necessary to refer to a heating stipulated value.

As installations with ceiling mounted radiant panels can also be used in practice for space cooling, it is necessary to have a test method for evaluating the cooling capacity. Installations with different free hanging heating and cooling surfaces need, for the use of space heating a test method for evaluating the heating output. The test method differs from the method for ceiling mounted radiant panels.

1 Scope

This European Standard defines the technical specifications and requirements for the definition of the cooling capacity of pre-fabricated ceiling mounted radiant panels according to the specifications of EN 14037-1:2016, 3.3.1. The test according to this standard requires the measurement of the thermal output according to EN 14037-2:2016 of the model.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 14037-1:2016, *Pre-fabricated ceiling mounted radiant panels for space heating - Technical specifications and requirements*

EN 14037-2:2016, *Pre-fabricated ceiling mounted radiant panels for space heating - Test method for thermal output*

EN ISO/IEC 17025:2005, *General requirements for the competence of testing and calibration laboratories (ISO/IEC 17025:2005)*

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