



BSI Standards Publication

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

National foreword

This British Standard is the UK implementation of EN 14037-4:2016.

The UK participation in its preparation was entrusted to Technical Committee RHE/6, Air or space heaters or coolers without combustion.

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

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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of an identical text or by endorsement, at the latest by March 2017, and conflicting national standards shall be withdrawn at the latest by March 2017.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.