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Water based surface embedded heating and cooling systems - Part 5: Heating and cooling surfaces embedded in floors, ceilings and walls - Determination of the thermal output

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EUROPEAN STANDARD

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EN 1264-5

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English Version

Water based surface embedded heating and cooling systems - Part 5: Heating and cooling surfaces embedded in floors, ceilings and walls - Determination of the thermal output

Systèmes de surfaces chauffantes et refraîchissantes hydrauliques intégrées - Partie 5: Surfaces chauffantes et refraîchissantes intégrées dans les sols, les plafonds et les murs - Détermination de l'emission thermique

Raumflächenintegrierte Heiz und Kühlsysteme mit Wasserdurchströmung - Teil 5: Heiz- und Kühlflächen in Fußböden, Decken und Wänden - Bestimmung der Wärmeleistung und der Kühlleistung

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Foreword

This document (EN 1264-5:2008) 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of an identical text or by endorsement, at the latest by April 2009, and conflicting national standards shall be withdrawn at the latest by April 2009.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This draft European Standard, *Water based surface embedded heating and cooling systems*, consists of the following parts:

- Part 1: Definitions and symbols
- Part 2: Floor heating: Prove methods for the determination of the thermal output using calculation and test methods
- Part 3: Dimensioning
- Part 4: Installation
- Part 5: Heating and cooling surfaces embedded in floors, ceilings and walls — Determination of the thermal output

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Introduction

This draft European Standard is based on the realisation that in the field of commercial trade the thermal output of heating and cooling systems represents the basis of rating. In order to be able to evaluate and compare different heating and cooling systems, it is, therefore, necessary to refer to values determined using one single, unambiguously defined method. The basis for doing so are the prove methods for the determination of the thermal output of floor heating systems described in Part 2 of this European Standard. In analogy to the European Standard EN 442-2 (Radiators and convectors — Part 2: Test methods and rating), this prove method provides characteristic partial load curves under defined boundary conditions as well as the characteristic output of the system represented by the standard thermal output together with the associated standard temperature difference between the heating medium and the room temperature.

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