
**Building environment design —
Design, test methods and control of
hydronic radiant heating and cooling
panel systems —**

Part 4:

**Control of ceiling mounted radiant
heating and cooling panels**

*Conception de l'environnement des bâtiments — Conception,
méthodes d'essai et contrôle des systèmes de panneaux hydroniques
radiants de chauffage et de refroidissement —*

*Partie 4: Contrôle des panneaux radiants de chauffage et de
refroidissement montés au plafond*



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Contents

	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Symbols	1
5 Controls	1
5.1 General	1
5.2 Central control	4
5.3 Zone control	5
5.4 Local (space) control	5
5.5 Influence of thermal mass of panel systems	5
5.6 Self-regulating effect	5
5.7 Flow control	6
Annex A (informative) Control of ceiling mounted radiant panel cooling system for prevention of surface condensation	7
Bibliography	8

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Foreword

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A list of all parts in the ISO 18566 series can be found on the ISO website.

Introduction

The radiant heating and cooling system consists of heat emitting/absorbing, heat supply, distribution, and control systems. Typical applications are low temperature radiant heating and high temperature radiant cooling. They are classified as embedded radiant heating and cooling systems and prefabricated radiant heating and cooling panel systems.

While ISO 11855 is for embedded radiant heating and cooling systems without an open air gap, ISO 18566 is for radiant heating and cooling panel systems with an open air gap. Because the system specifications for ISO 18566 are different from those of ISO 11855, it was necessary to develop separate ISO standards regarding the design and test methods of the cooling and heating capacity and control and operation.

ISO 18566-1 specifies the comfort criteria, technical specifications and requirements which should be considered in the manufacturing and installation of radiant heating and cooling systems. ISO 18566-2 provides the test facility and test method for heating and cooling capacity of ceiling mounted radiant panels. ISO 18566-3 specifies the design considerations and design processes of ceiling mounted radiant panels. ISO 18566-4 addresses the control of ceiling mounted radiant heating and cooling panels to ensure the maximum performance which was intended in the design stage when the system is actually being operated in a building.

ISO 18566 does not cover the panels that are embedded into the ceiling, wall or floor structure.

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