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NSAI Standards

Irish Standard
I.S. EN 15848:2010

Water conditioning equipment inside buildings - Adjustable chemical dosing systems - Requirements for performance, safety and testing

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This document replaces:	*This document is based on:* EN 15848:2010	*Published:* 24 February, 2010

This document was published under the authority of the NSAI and comes into effect on: 22 March, 2010	ICS number: 13.060.20 91.140.60

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I.S. EN 15848:2010

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 15848

February 2010

ICS 13.060.20; 91.140.60

English Version

Water conditioning equipment inside buildings - Adjustable chemical dosing systems - Requirements for performance, safety and testing

Appareils de traitement d'eau à l'intérieur des bâtiments - Systèmes de dosage chimique ajustables - Exigences de performance, de sécurité et essais

Anlagen zur Behandlung von Trinkwasser innerhalb von Gebäuden - Einstellbare Dosiersysteme - Anforderungen an Ausführung, Sicherheit und Prüfung

This European Standard was approved by CEN on 9 January 2010.

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Contents

Page

Foreword 3

1 Scope 4

2 Normative references 4

3 Terms and definitions 4

4 Design requirements 5
4.1 General 5
4.2 Dosing system components 5
4.3 Materials of construction 5
4.4 Venting 5
4.5 Radio interference and electrical safety 5
4.6 Accessibility 5
4.7 Nominal size 5
4.8 Manual mode 6

5 Performance requirements 6
5.1 Chemicals 6
5.2 Dosing system components 6
5.3 Protection against overdosing 7
5.4 Working temperature range 7
5.5 Pressure conditions 7

6 Testing 8
6.1 General 8
6.2 Operating characteristics 8
6.3 Pressure test 10

7 Labelling 10

Annex A (normative) **Installation, operation and maintenance** 11

Bibliography 15

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Foreword

This document (EN 15848:2010) has been prepared by Technical Committee CEN/TC 164 “Water supply”, the secretariat of which is held by AFNOR.

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of an identical text or by endorsement, at the latest by August 2010, and conflicting national standards shall be withdrawn at the latest by August 2010.

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.

NOTE Products intended for use in water supply systems should comply, when existing, with national regulations and testing arrangements that ensure fitness for contact with drinking water.

On April 2006, EC Commission set up a revised mandate (M/136) asking CEN to propose harmonised product standards and support standards for test methods which could be used for assessing the fitness for contact with drinking water. In parallel, EC Commission has launched processes for a regulation of construction products (CPR) to be substituted to CP directive (89/106/EC) and for the revision of drinking water directive (98/83/EC).

If relevant, when the outputs of these processes are known, European product standards will be amended by the addition of an Annex Z under Mandate M136 which will contain formal references to the applicable requirements. Until such amendments, the current national regulations remain applicable.

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1 Scope

This European Standard specifies definitions, principles of construction (but not dimensions) and design, requirements on performance and operation as well as methods for testing the performance of adjustable chemical dosing systems for conditioning water intended for human consumption inside buildings (see [1]) which are permanently connected to the mains supply.

The concentration in the treated water of the active chemical(s) as well as of any other ingredient or minor component (including possible contaminants) should not exceed the parametric values laid down in the existing legislation in the Member States for the water intended for the human consumption, as implemented by the national authorities.

2 Normative references

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

EN 55011, *Industrial, scientific and medical (ISM) radio-frequency equipment — Electromagnetic disturbance characteristics — Limits and methods of measurement (CISPR 11:2003 + A1:2004, modified)*

EN 60204-1, *Safety of machinery — Electrical equipment of machines — Part 1: General requirements (IEC 60204-1:2005, modified)*

EN 60335-1, *Household and similar electrical appliances — Safety — Part 1: General requirements (IEC 60335-1:2001, modified)*

EN 60335-2-41, *Household and similar electrical appliances — Safety — Part 2-41: Particular requirements for pumps (IEC 60335-2-41:2002)*

EN ISO 12100-1, *Safety of machinery — Basic concepts, general principles for design — Part 1: Basic terminology, methodology (ISO 12100-1:2003)*

EN ISO 12100-2, *Safety of machinery — Basic concepts, general principles for design — Part 2: Technical principles (ISO 12100-2:2003)*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1
adjustable dosing system
device used for the controlled addition of chemicals in concentrations that can be adjusted on the installation site

3.2
working range
range of treated water flow rates between which the dosing system provides the required accuracy of concentration of the chemicals within limits of concentration and pressure drop prescribed by the manufacturer.

NOTE The working range covers the range between the upper and lower working limits.

3.3
dosing agent
active chemical substance for conditioning water intended for human consumption

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