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

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NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 15848:2010 sisaldab Euroopa standardi EN 15848:2010 ingliskeelset teksti.	This Estonian standard EVS-EN 15848:2010 consists of the English text of the European standard EN 15848:2010.
Standard on kinnitatud Eesti Standardikeskuse 31.03.2010 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.	This standard is ratified with the order of Estonian Centre for Standardisation dated 31.03.2010 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.
Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 24.02.2010.	Date of Availability of the European standard text 24.02.2010.
Standard on kättesaadav Eesti standardiorganisatsioonist.	The standard is available from Estonian standardisation organisation.

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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.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN Management Centre has the same status as the official versions.

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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.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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