

**Water conditioning equipment inside
buildings - Active media filters -
Requirements for performance, safety
and testing KONSOLIDEERITUD TEKST**

Water conditioning equipment inside buildings -
Active media filters - Requirements for performance,
safety and testing CONSOLIDATED TEXT

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 14898:2006+A1:2007 sisaldab Euroopa standardi EN 14898:2006+A1:2007 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 21.08.2007 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 14898:2006+A1:2007 consists of the English text of the European standard EN 14898:2006+A1:2007.</p> <p>This document is endorsed on 21.08.2007 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala:</p> <p>This European Standard specifies requirements relating to the construction, performance and methods of testing for active media filters for drinking water installations inside buildings, with a maximum working pressure of at least 1 000 kPa and a maximum working temperature of less than 30 °C. It only concerns units, which are permanently connected to the mains supply at the point of entry or point of use.</p>	<p>Scope:</p> <p>This European Standard specifies requirements relating to the construction, performance and methods of testing for active media filters for drinking water installations inside buildings, with a maximum working pressure of at least 1 000 kPa and a maximum working temperature of less than 30 °C. It only concerns units, which are permanently connected to the mains supply at the point of entry or point of use.</p>
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Võtmesõnad:

English Version

Water conditioning equipment inside buildings - Active media filters - Requirements for performance, safety and testing

Appareils de traitement d'eau à l'intérieur des bâtiments -
Filtres à substance active - Exigences de performance, de
sécurité et essais

Anlagen zur Behandlung von Trinkwasser innerhalb von
Gebäuden - Filter mit aktiven Substanzen - Anforderungen
an Ausführung, Sicherheit und Prüfung

This European Standard was approved by CEN on 27 April 2006 and includes Amendment 1 approved by CEN on 10 May 2007.

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.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, 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 United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
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Foreword

This document (EN 14898:2006+A1:2007) has been prepared by Technical Committee CEN/TC 164 "Water supply", the secretariat of which is held by AFNOR.

This document shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by December 2007 and conflicting national standards shall be withdrawn at the latest by December 2007.

This document includes Amendment 1, approved by CEN on 2007-05-10.

This document supersedes EN 14898:2006.

The start and finish of text introduced or altered by amendment is indicated in the text by tags **A1** **A1**.

With respect to potential adverse effects on the quality of water intended for human consumption caused by the product covered by this standard, the following is pointed out to the user:

- 1) This standard provides no information as to whether the product may be used without restriction in any of the Member States.
- 2) It should be noted that, while awaiting the adoption of verifiable European criteria, existing national regulation concerning the use and/or the characteristics of this product remain in force.

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, 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 United Kingdom.

1 Scope

This European Standard specifies requirements relating to the construction, performance and methods of testing for active media filters for drinking water installations inside buildings, with a maximum working pressure of at least 1 000 kPa and a maximum working temperature of less than 30 °C. It only concerns units, which are permanently connected to the mains supply at the point of entry or point of use.

This standard applies only to filter systems comprising a housing and filter media tested together.

It includes capsule type units where both the element and its outer housing are disposable.

NOTE Products intended for use in water supply systems are to comply, when existing, with national regulations and testing arrangements that ensure fitness for contact with drinking water. The Member States relevant regulators and the EC Commission agreed on the principle of a future unique European Acceptance Scheme (EAS) which would provide a common testing and approval arrangement at European level.

If and when the EAS is adopted, European Standards on products will be amended by the addition of an Annex Z/EAS under Mandate M/136 which will contain formal references to the testing, certification and product marking requirements of the EAS. Until the EAS comes into force, the current national regulations remain applicable.

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 1717, *Protection against pollution of potable water in water installations and general requirements of devices to prevent pollution by backflow*

EN 12903, *Products used for treatment of water intended for human consumption — Powdered activated carbon*

EN 12904, *Products used for treatment of water intended for human consumption — Silica sand and silica gravel*

EN 12905, *Products used for treatment of water intended for human consumption — Expanded aluminosilicate*

EN 12906, *Products used for treatment of water intended for human consumption — Pumice*

EN 12907, *Products used for treatment of water intended for human consumption — Pyrolyzed coal material*

EN 12909, *Products used for treatment of water intended for human consumption — Anthracite*

EN 12910, *Products used for treatment of water intended for human consumption — Garnet*

EN 12911, *Products used for treatment of water intended for human consumption — Manganese Greensand*

EN 12912, *Products used for treatment of water intended for human consumption — Barite*

EN 12913, *Products used for treatment of water intended for human consumption — Powdered diatomaceous earth*

EN 12914, *Products used for treatment of water intended for human consumption — Powdered perlite*

EN 12915-1, *Products used for treatment of water intended for human consumption — Granular activated carbon — Part 1: Virgin granular activated carbon*

EN 13752, *Products used for treatment of water intended for human consumption — Manganese dioxide*

EN 13753, *Products used for treatment of water intended for human consumption — Granular activated alumina*

EN 13754, *Products used for treatment of water intended for human consumption — Bentonite*

EN 14368, *Products used for treatment of water intended for human consumption — Manganese dioxide coated limestone*

EN 14369, *Products used for treatment of water intended for human consumption — Iron-coated granular activated alumina*

EN 27888, *Water quality — Determination of electrical conductivity (ISO 7888:1985)*

EN ISO 3696, *Water for analytical laboratory use — Specification and test methods (ISO 3696:1987)*

EN ISO 7027, *Water quality — Determination of turbidity (ISO 7072:1999)*

EN ISO 7393-1, *Water quality — Determination of free chlorine and total chlorine — Part 1: Titrimetric method using N,N-diethyl-1,4-phenylenediamine (ISO 7393-1:1985)*

ISO 10523, *Water quality — Determination of pH*

3 Terms and definitions

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

3.1

active media

adsorbent, ion exchange or chemically active material that removes or significantly reduces a component from water by chemical reaction or by virtue of ionic charge or other surface activity

3.2

capsule cartridge

sealed cartridge, designed to be used in a support housing

NOTE For this design, the housing may not be watertight.

3.3

capsule filter

complete filter, for which the filter element and the filter housing are inseparable and the housing is discarded with the spent element

3.4

cartridge

replaceable filter element

NOTE This includes any other components that the manufacturer specifies should be changed when the cartridge exchange is due.

3.5

cartridge exchange indicator

means by which the need to change a cartridge is indicated

NOTE It may work by elapsed time, throughput of water or any other suitable method of indication. This indicator can only be regarded as a guide.