NSF International Standard /
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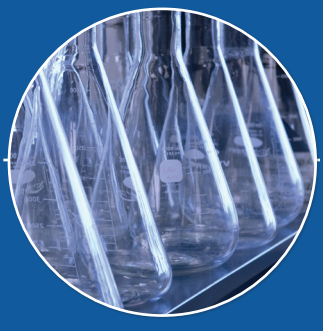
NSF/ANSI 44 - 2015
Residential Cation Exchange Water Softeners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NSF International Standard/
American National Standard
for Drinking Water Treatment Units —

Residential cation exchange water softeners

Standard Developer

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Contents

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Foreword[2]

The purpose of this Standard is to establish minimum requirements for materials, design, construction, and performance of drinking water treatment units that are designed to reduce specific aesthetic-related contaminants in public or private water supplies. This Standard specifies the minimum product literature and labeling information that a manufacturer must supply to authorized representatives and system owners. Lastly, the Standard provides minimum service-related obligations that the manufacturer must extend to system owners.

This edition of the Standard contains the following revisions:

Issue 37
This revision harmonized the structural integrity requirements in Table 5 of NSF/ANSI 42, NSF/ANSI 44 and NSF/ANSI 53.

Issue 38
This revision added clarification regarding the maximum number of samples exposed in the Materials evaluation under section 4.

Issue 39
This revision added criteria for utilizing a treatment train approach for the evaluation of a system containing multiple, sequential treatment technologies.

This Standard was developed by the NSF Joint Committee on Drinking Water Treatment Units using the consensus process described by the American National Standards Institute.

Suggestions for improvement of this Standard are welcome. This Standard is maintained on a Continuous Maintenance schedule and can be opened for comment at any time. Comments should be sent to Chair, Joint Committee on Drinking Water Treatment Units at standards@nsf.org or c/o NSF International, Standards Department, P.O. Box 130140, Ann Arbor, Michigan 48113-0140, USA.

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NSF/ANSI Standard for Drinking Water Treatment Units — Residential cation exchange water softeners

1 General

1.1 Purpose

The purpose of this Standard is to establish minimum requirements for materials, design and construction, and performance of residential cation exchange water softeners. This Standard also specifies the minimum product literature that manufacturers shall supply to authorized representatives and owners, as well as the minimum service-related obligations that manufacturers shall extend to owners.

1.2 Scope

The manual, autoinitiated, and demand-initiated regeneration residential cation exchange water softeners addressed by this Standard are designed to be used for the removal of hardness and the reduction of specific contaminants from drinking water supplies (public or private) considered to be microbiologically safe and of known quality. Systems with components or functions covered under other NSF or NSF/ANSI Standards or Criteria shall conform to the applicable requirements therein.

1.3 Alternate materials, design, and construction

While specific materials, design, and construction may be stipulated in this Standard, systems that incorporate alternate materials, designs, and construction may be acceptable when it is verified that such systems meet the applicable requirements.

1.4 Treatment train

A system that contains multiple, sequential treatment technologies for a performance claim under this Standard shall meet the applicable requirements as described in Annex C.

2 Normative references

The following documents contain requirements that, by reference in this text, constitute requirements of this Standard. At the time of publication, the indicated editions were valid. All of the documents are subject to revision and parties are encouraged to investigate the possibility of applying the recent editions of the documents indicated below. The most recent published edition of the document shall be used for undated references.

NSF/ANSI 53 – *Drinking water treatment units – Health effects*

NSF/ANSI 61 – *Drinking water system components – Health effects*

USEPA-600/4-79-020, *Methods for the Chemical Analysis of Water and Wastes*, March 1983[3]

[3] USEPA, Environmental Monitoring and Support Laboratory, Cincinnati, OH 45268 <www.epa.org>.