

**ASSE Standard #1087-2018**

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## **ASSE International**

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Performance Requirements for

# **Commercial and Food Service Water Treatment Equipment Utilizing Drinking Water**

*An American National Standard*

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# Foreword

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This foreword shall not be considered a part of the standard; however, it is offered to provide background information.

ASSE standards are developed in the interest of consumer safety. ASSE International considers product performance standards to be of great value in the development of improved plumbing systems.

Recognition is made of the time volunteered by members of this working group and of the support of manufacturers who also participated in meetings for this standard.

The working group that developed this standard was set up within the framework of the Product Standards Committee of ASSE International.

This standard does not imply ASSE International's endorsement of a product which conforms to these requirements.

Compliance with this standard does not imply acceptance by any code body.

The contaminant reduction and structural integrity requirements for commercial modular systems are covered by NSF/ANSI 42 and NSF/ANSI 53, as appropriate. This standard covers the other plumbing aspects that are not otherwise addressed in those and other standards.

It is recommended that these devices be installed in accordance with the installation instructions of the manufacturers and consistent with local codes. Where there is a conflict with codes and installation instructions, the more stringent requirements should be followed. These devices should be installed by properly licensed, qualified and properly trained professionals

This standard was promulgated in accordance with ASSE's procedures as accredited by the American National Standards Institute (ANSI).

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# Performance Requirements for Commercial and Food Service Water Treatment Equipment Utilizing Drinking Water

## Section I

### 1.0 General

#### 1.1 Application

Commercial water treatment equipment is used in point-of-entry (POE) and point-of-use (POU) applications connected to building plumbing to improve the water quality characteristics of potable water. This standard includes testing requirements for components and complete systems. Electrical compliance is not covered by the standard.

#### 1.2 Scope

##### 1.2.1 Description

Plumbed water treatment units include any device or component, point-of-entry and point-of-use, that is used in a building to improve the quality of the water. This standard covers all water treatment products that are connected to the building's potable water plumbing system. This standard is not intended to cover water treatment products used for process water or wastewater applications. Examples of water treatment equipment include deionizers, filters, softeners, reverse osmosis assemblies, ultraviolet systems, ozone systems, and distillers.

Tests verifying claims regarding changes to water chemistry, microbiology, and aesthetics (i.e. smell, taste, appearance, etc.) are not included in this standard. Devices may claim such performance via other standards or test protocols.

NOTE: This standard is not intended to cover residential water treatment devices.

##### 1.2.2 Connections

Pipe threads and other connections shall conform to the applicable standards.

- Tapered pipe threads shall comply with ASME B1.20.1
- Dry seal pipe threads shall comply with ASME B1.20.3
- Compression assemblies shall be compatible with SAE J 512
- Soldered connections shall comply with ASME B16.18 or ASME B16.22
- Push fit connections shall comply with ASSE 1061
- Press connections shall comply with ASME B16.51