

American Society of Sanitary Engineering

Performance Requirements for
**Plumbing Aspects
of Residential Food
Waste Disposer Units**

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Westlake, Ohio
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Foreword

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.

The development of this product performance standard was prompted by awareness that public health can be affected by the connection of domestic appliances to the domestic water supply and sanitary drainage systems.

This standard provides a basis for evaluating the adequacy of appliance design and performance to insure sanitary conditions and to protect the public from health hazards that could result from improper design or manufacture.

The performance criteria presented are based on extensive engineering research and board field experience on protection of the potable water supply and safe discharge of wastes into the sanitary plumbing system. Engineers and technicians representing manufacturers, public health officials, plumbing contractors, inspection agencies and plumbing testing laboratories contributed the technical expertise and experience necessary to develop a meaningful and scientifically sound evaluation method that takes into account conditions that could adversely affect the sanitary performance of these appliances.

It is recommended that the disposer be listed or approved by Underwriters Laboratories or other electrical testing agencies, where applicable.

Recognition is made of the time volunteered by members of the working group and of the support of the manufacturers who also participated.

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

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

It is recommended that these devices be installed consistent with local codes by qualified and trained professionals.

This standard was promulgated in accordance with procedures developed by the American National Standards Institute (ANSI).

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Plumbing Aspects of Residential Food Waste Disposer Units

Section I

1.0 General

1.1 Application

This standard applies to the plumbing aspects of residential food waste disposers (herein referred to as the "device") intended for installation in the residential kitchen sink outlet, which when supplied with water from the sink supply faucet discharge into the sanitary drainage system.

1.2 Scope

1.2.1 Description

These devices shall be designed to reduce food waste intended for human or animal consumption to particle sizes for discharge into the sanitary drainage system.

1.2.1.1 Self Cleaning Feature

The device shall be designed in such a manner that the interior surfaces are flushed after each use with no residue remaining.

1.2.1.2 Mechanical Shock Protection

The device shall be designed in such a manner that the starting and impact torque is cushioned and any resultant movement causes no leakage.

1.2.1.3 Discharge, Flooding Consideration

Dishwasher discharge connection(s), when incorporated in the device, shall be designed in such a manner as to allow a rise of water of no more than 1.0 inch (25.4 mm) in a vertical sight tube attached to the dishwasher discharge connection when tested in accordance with Section 3.5. The device shall be designed so that if the discharge connection becomes blocked, backflow into the dishwasher shall not occur.

1.2.2 Size Range

The terminal outlet of the device shall be 1.5 inch (40 mm) nominal tube size.

1.2.3 Retaining Feature

The device shall not permit food waste particles 0.5 inches (12.7 mm) or larger to pass beyond the cutting blades.

1.2.4 Flow Range

The device shall operate at a minimum of 3.0 GPM (0.18 L/m) at a head not exceeding 10.0 inches (254.0 mm) of water column.