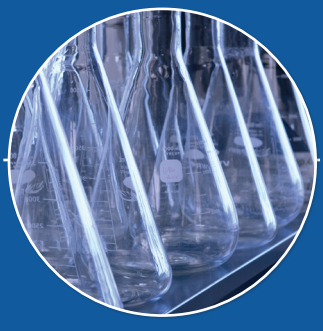
NSF International Standard /
American National Standard

NSF/ANSI 13 - 2017

Refuse Processors and Processing Systems


NSF International, an independent, not-for-profit, non-governmental organization, is dedicated to being the leading global provider of public health and safety-based risk management solutions while serving the interests of all stakeholders.

This Standard is subject to revision.
Contact NSF to confirm this revision is current.

Users of this Standard may request clarifications
and interpretations, or propose revisions by contacting:

Chair, Joint Committee on Food Equipment
c/o NSF International
789 North Dixboro Road, P.O. Box 130140
Ann Arbor, Michigan 48113-0140 USA
Phone: (734) 769-8010 Telex: 753215 NSF INTL
FAX: (734) 769-0109
E-mail: info@nsf.org
Web: http://www.nsf.org

NSF International Standard/
American National Standard
for Food Equipment —

Refuse processors and processing systems

Standard Developer
NSF International

NSF International

Designated as an ANSI Standard
May 23, 2017
American National Standards Institute

Recommended for Adoption by
The NSF Joint Committee on Food Equipment
The NSF Council of Public Health Consultants

Adopted by
NSF International
March 1973

Revised May 1985
Revised November 1992
Revised August 2001
Revised June 2005
Revised April 2007
Revised April 2009
Revised August 2012
Revised June 2017

Published by

NSF International
PO Box 130140, Ann Arbor, Michigan 48113-0140, USA

For ordering copies or for making inquiries with regard to this Standard, please reference the designation "NSF/ANSI 13 – 2017."

Disclaimers[1]

NSF, in performing its functions in accordance with its objectives, does not assume or undertake to discharge any responsibility of the manufacturer or any other party. The opinions and findings of NSF represent its professional judgment. NSF shall not be responsible to anyone for the use of or reliance upon this Standard by anyone. NSF shall not incur any obligation or liability for damages, including consequential damages, arising out of or in connection with the use, interpretation of, or reliance upon this Standard.

NSF Standards provide basic criteria to promote sanitation and protection of the public health. Provisions for mechanical and electrical safety have not been included in this Standard because governmental agencies or other national standards-setting organizations provide safety requirement.

Participation in NSF Standards development activities by regulatory agency representatives (federal, local, state) shall not constitute their agency's endorsement of NSF or any of its Standards.

Preference is given to the use of performance criteria measurable by examination or testing in NSF Standards development when such performance criteria may reasonably be used in lieu of design, materials, or construction criteria.

The illustrations, if provided, are intended to assist in understanding their adjacent standard requirements. However, the illustrations may not include ***all*** requirements for a specific product or unit, nor do they show the only method of fabricating such arrangements. Such partial drawings shall not be used to justify improper or incomplete design and construction.

Unless otherwise referenced, the annexes are not considered an integral part of NSF Standards. The annexes are provided as general guidelines to the manufacturer, regulatory agency, user, or certifying organization.

[1] The information contained in this Disclaimer is not part of this American National Standard (ANS) and has not been processed in accordance with ANSI's requirements for an ANS. Therefore, this Disclaimer may contain material that has not been subjected to public review or a consensus process. In addition, it does not contain requirements necessary for conformance to the Standard.

This page is intentionally left blank.

Contents

This page is intentionally left blank.

Foreword[2]

The purpose of this Standard is to establish minimum sanitation requirements for the materials, design, and construction of refuse processors and processing systems.

This edition of the Standard contains the following revision:

Issue 6

This revision updated boilerplate language in sections 5.11 and 5.11.2.

This Standard was developed by the NSF Joint Committee on Food Equipment 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 Food Equipment at standards@nsf.org or, c/o NSF International, Standards Department, P.O. Box 130140, Ann Arbor, Michigan 48113-0140, USA.

[2] The information contained in this Foreword is not part of this American National Standard (ANS) and has not been processed in accordance with ANSI's requirements for an ANS. Therefore, this Foreword may contain material that has not been subjected to public review or a consensus process. In addition, it does not contain requirements necessary for conformance to the Standard.

This page is intentionally left blank.

NSF/ANSI Standard for
Food Equipment —

Refuse processors and processing systems

1 General

1.1 Purpose

This Standard establishes minimum sanitation requirements for the materials, design, and construction of refuse processors and processing systems.

1.2 Scope

Equipment covered by this Standard includes but is not limited to pulpers, disposers, and compactors used for processing refuse generated from facilities that may generate food wastes. These refuse processors are not intended for compaction of hazardous or infectious material. Specifically excluded are refuse collection trucks and refuse processors intended for use at transfer stations and in industrial operations.

Equipment components and materials covered under other NSF or NSF/ANSI Standards or Criteria shall also comply with the requirements therein. This Standard is not intended to restrict new unit design, provided that such design meets the minimum specifications described herein.

1.3 Alternate materials, design, and construction

While specific materials, design, and construction may be stipulated in this Standard, equipment that incorporates alternate materials, design, or construction may be acceptable when such equipment meets the intent of applicable requirements herein.

1.4 Measurement

Decimal and SI conversions provided parenthetically shall be considered equivalent. Metric conversions and significant figure rounding have been made according to IEEE/ASTM SI 10.

2 Normative references

The following documents contain provisions that, through reference, constitute provisions of this NSF/ANSI Standard. At the time this Standard was balloted, the editions listed below were valid. All 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.

15 U.S.C. §§1261-1278 Federal Hazardous Substances Act (FHSA)[3]

[3] U. S. Government Printing Office, Washington, DC 20402 <www.gpo.gov>.

40 C.F.R. §§162-180 *Federal Insecticide, Fungicide, and Rodenticide Act* [3]

IEEE/ASTM SI 10 – 2010. *American National Standard for Metric Practice* [4]

NSF/ANSI 2. *Food equipment*

NSF/ANSI 170. *Glossary of food equipment terminology*

3 Definitions

Terms used in this Standard that have special technical meaning are defined in NSF/ANSI 170.

4 Materials

4.1 General

Materials shall withstand normal use and penetration of vermin, and shall be corrosion resistant.

4.2 Refuse-contact zone

Surfaces in the refuse-contact zone shall be smooth and easily cleanable. Materials shall be corrosion resistant or rendered corrosion resistant, with the exception of unprotected steel, which may be used where surfaces are self-cleaning.

4.3 Power and exterior zones

Surfaces in the power and exterior zones shall be smooth and either corrosion resistant or rendered corrosion resistant.

4.4 Welding

Welded seams and deposited weld material shall meet the applicable requirements of 4.1, 4.2, and 4.3.

4.5 Gaskets and packings

Gaskets and packings shall consist of resilient rubber, rubber-like materials, or plastic, and shall comply with the applicable requirements of 4.1, 4.2, and 4.3.

4.6 Plastic resin systems

Plastic resin systems may be used if in compliance with the applicable requirements of 4.1, 4.2, and 4.3.

4.7 Sound-dampening materials

Sound-dampening materials shall meet the requirements of the zone in which they are located except that they are not required to be smooth. Non-curing sound-dampening materials shall not be used in exposed areas.

4.8 Deodorizers

Aerosol sprays, deodorizers, or disinfectants shall comply with the Federal Hazardous Substances Act[3] and

[4] ASTM International, 100 Barr Harbor Dr., West Conshohocken, PA 19428 <www.astm.org>.