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INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS

MATERIAL and PROPERTY STANDARD

FOR

HYDRAULICALLY POWERED HOUSEHOLD FOOD WASTE DISPOSERS

PS 113-2010

1. PURPOSE

- 1.1** The purpose of this standard is to supply manufacturers, plumbing enforcement agencies and others with what are considered reasonable criteria for performance of the appliance when connected to a system of plumbing and the methods of test for determining that performance.

2. SCOPE

- 2.1** This standard applies to hydraulically powered household food waste disposers intended for installation in the household kitchen sink outlet, supplied with water from the kitchen sink supply faucet and discharged into the household plumbing drainage system. The disposer is intended to be operated by potable water supplied through a control valve upstream of an atmospheric vacuum breaker furnished with the unit.
- 2.2** This standard does not apply to commercial food waste disposers intended for installation in a food handling establishment.

3. DEFINITIONS

- 3.1** **Hydraulically Powered Food Waste Disposer Unit.** A water powered appliance that reduces the food waste to particle sizes that, with the aid of water, are discharged into the plumbing drainage system. This appliance is not intended for nor does it have any provision for connection to the electrical system.
- 3.2** Except where specified in this standard, all definitions used shall be those defined in ASSE 1008.

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4. GENERAL REQUIREMENTS

- 4.1** Hydraulically powered food waste disposer units shall comply with the general requirements outlined in the following sections of ASSE 1008.
- a) Mounting Means. A durable, cleanable, leak proof mounting to the sink shall be provided with the disposer.
 - b) Section 1.2.1.1 Self-Cleaning Capability except that the minimum flow rate shall be 6 GPM instead of 3 GPM when tested in accordance with Section 3.4 of ASSE 1008.
 - c) Sections 1.2.3 and 1.2.5 Feed Hopper Closure
 - d) Section 1.2.1.2 Mechanical Shock Protection when tested in accordance with Section 3.6 of ASSE 1008.
- 4.2 Test Pressures and Flow Rate.** Conduct all running tests with the disposer operating with constant nameplate rated pressure and flow rate input.

5. CONSTRUCTION REQUIREMENTS

- 5.1** Hydraulically powered food waste disposer units shall comply with the construction requirements outlined in the following sections of ASSE 1008.
- a) Section 1.2.2 Terminal Outlet Description
 - b) Section 1.2.1.3 Discharge, Volumetric and Flooding Consideration
- 5.2 Backflow Protection:** The potable water supply to the disposer shall be protected by an approved atmospheric vacuum breaker mounted downstream of the final control valve. The atmospheric vacuum breaker shall be mounted above the flood level rim of the sink such that the elevation of the critical level of the vacuum breaker above the flood level rim of the sink is two times the maximum water rise demonstrated by the vacuum breaker during testing. The atmospheric vacuum breaker shall comply with the requirements of ASSE 1001.
- The backflow prevention mechanism shall comply with the applicable functional tests of ASME A112.18.3M (Sections 11 & 12).

6. TEST PROCEDURES

- 6.1** Hydraulically powered food waste disposer units shall be tested to and shall comply with the Test Procedure requirements outlined in the following sections of ASSE 1008.

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