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INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS

IAPMO GUIDE CRITERIA

FOR

RECLAIMED WATER CONSERVATION SYSTEM FOR FLUSHING TOILETS

IAPMO IGC 207-2009a

1. PURPOSE

- 1.1** The purpose of this standard is to establish a generally acceptable standard for a reclaimed water conservation system for flushing toilets. Its purpose is to also serve as a guide for producers, distributors, architects, engineers, contractors, installers, inspectors and users; to promote understanding regarding materials, manufacture; and to provide for identifying reclaimed water conservation system for toilet flushing that conforms to this standard.
- 1.2** The provisions of this standard are not intended to prevent the use of any alternate material or method of construction, provided any such alternate meets the intent and requirements of this document and changes are amended to this standard.

2. SCOPE

- 2.1** This standard covers the minimum requirements for protection of public health and safety associated with reclaimed water conservation at the toilet level, the materials in the construction of a reclaimed water conservation system for toilet flushing and to prescribe the minimum testing requirements for the performance of the reclaimed water conservation system for flushing toilets, together with methods of marking and identification.

3. REFERENCE STANDARDS

- 3.1** All standards referenced herein shall be the current edition of that standard.
- | | |
|---------------------------|---|
| API 542 | Grouped Motor Controller Specification Low Voltage |
| API 543 | Medium Voltage Motor Controllers |
| ASME A112.18.1/CSA B125.1 | Plumbing Supply Fittings |
| ASME A112.18.2/CSA B125.2 | Plumbing Waste Fittings |
| ASTM A 240 | Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Application |

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ASTM C 1440	Mechanical Couplings Using Thermoplastic Elastomeric (TPE) Gaskets for Joining Drain, Waste, and Vent (DWV), Sewer, Sanitary, and Storm Plumbing Systems for Above and Below Ground Use
ASTM D 1784	Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds
ASTM D 3350	Polyethylene (PE) Plastics Pipe and Fittings Material
ASTM D 4101	Polypropylene (PP) Injection and Extrusion Materials
ASTM D 4673	Acrylonitrile-Butadiene-Styrene (ABS) Plastics and Alloys Molding and Extrusion Materials
ASTM F 409	Thermoplastic Accessible and Replaceable Plastic Tube and Tubular Fittings
CSA B137.1	Polyethylene Pipe, Tubing and Fittings for Cold Water Pressure Services
CSA B137.11	Polypropylene (PP-R) Pipe and Fittings for Pressure Applications – Plumbing Products and Materials
CSA C22.2 #14	Industrial Control Equipment
CSA C22.2 #205	Signal Equipment
IAPMO PS 52	Sump and Sewage Ejector Tanks
IAPMO PS 119	Water Energized Sump Pump
UL 83	Thermoplastic-Insulated Wires and Cables
UL 508	Industrial Control Equipment
UL 778	Motor-Operated Water Pumps
UL 817	Cord Sets and Power-Supply Cords
UL 935	Fluorescent-Lamp Ballasts
UL 1063	Machine-Tool Wires and Cables

4. GENERAL REQUIREMENTS

- 4.1 Material.** All plastic components, fittings and tubing shall comply with the requirements of ASTM D 3350 and CSA B137.1 for polyethylene, ASTM D 4101 and CSA B137.11 for polypropylene, ASTM D 4673 for Acrylonitrile-Butadiene-Styrene (ABS), ASTM D 1784 for Poly (Vinyl Chloride) (PVC) or ASTM C 1440 for Thermoplastic Elastomeric (TPE).
- 4.2 Wire.** Copper wire shall be a minimum 12 gauge and shall comply with UL 83 or UL 1063.
- 4.3** Water pump shall comply with the requirements in UL 778.
- 4.4** Stainless steel components shall be a minimum 304 type complying with the requirements in ASTM A 240.