

Internal Use Only

INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS

STANDARD FOR

ELECTRIC WATER PUMPS FOR USE IN RECREATIONAL VEHICLES

IAPMO TS 14-2006

1. PURPOSE

- 1.1** The purpose of this standard is to establish an acceptable quality standard for electric water pumps for use in recreational vehicles. Its purpose is also to serve as a guide for producers, distributors, designers, engineers, installers, inspectors and users to promote understanding regarding materials, manufacture and installation; and to provide for identifying electric water pumps that conform to this standard.

The provisions of this standard are not intended to prevent the use of any alternate materials 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 physical requirements and tests for performance, design and toxicity, together with methods of marking and identification.
- 2.2** The electric water pumps covered by this standard are intended for use in recreational vehicles when installed in accordance with all applicable code requirements.

3. REFERENCED DOCUMENTS

- 3.1** All standards referenced herein shall be the current edition of the standard.

IAPMO TS 31 Toxicity Compliance

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4. GENERAL REQUIREMENTS

- 4.1 All materials that come in contact with potable water shall be non-toxic and shall show compliance with IAPMO TS 31.
- 4.2 Screening devices, if utilized, shall be accessible for cleaning.
- 4.3 Each pump shall be accompanied by installation instructions which shall include a wire sizing chart based on the length of conductor in feet from source of current and return and maximum over current protection.

5. TESTING REQUIREMENTS

- 5.1 Pumps or pumping systems operating at their maximum rated voltage shall have a minimum delivery to be measured at the outlet of the pump or pumping system as specified in sections 4.1.3 thru 4.1.6.
 - 5.1.1 Multiple fixture pumps shall be cycled for ten (10) minutes on, ten (10) minutes off while pumping a total of 60 ± 2 gal. of water at open discharge.
 - 5.1.2 Single fixture pumps shall be cycled for five (5) minutes on, five (5) minutes off while discharging 35 ± 2 gal. water at open discharge.
 - 5.1.3 Manually actuated single fixture pumps shall have a minimum delivery of 1 GPM at 5 psi, (Type I).
 - 5.1.4 Automatically actuated single fixture pumps shall have a minimum delivery of 1 GPM at 5 psi and a minimum static pressure of 10 psi, (Type II).
 - 5.1.5 Manually actuated multiple fixture pumps shall have a minimum of 1.5 GPM at 10 psi, (Type III).
 - 5.1.6 Automatically actuated multiple fixture pumps shall have a minimum delivery of 1.5 GPM at 10 psi and a minimum static pressure of 20 psi, (Type IV).
- 5.2 All Type II and Type IV pumps shall be tested and shall be capable of withstanding a hydrostatic pressure of 125 psi without leakage, when the pressure is applied to the outlet opening of the pump.