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ASSE International Publishes Suite of Product Standards for Water Heaters with Integral Water Temperature Safety Controls

Mokena, Ill. (Feb. 21, 2019) — ASSE International has published three new product performance standards for water heaters with integral water temperature safety controls. ASSE 1082-2018, *Performance Requirements for Water Heaters with Integral Temperature Control Devices for Hot Water Distribution Systems,* ASSE 1084-2018, *Performance Requirements for Water Heaters with Temperature Limiting Capacity,* and ASSE 1085-2018, *Performance Requirements for Water Heaters for Emergency Equipment,* have been designated as American National Standards by the American National Standards Institute (ANSI) and are now available for purchase.

These new standards cover water heaters, under varying flow conditions, with precise output temperature controls to provide controlled water temperatures to end users or through distribution systems.

ASSE 1082 water heaters are intended to provide a level of temperature control consistent with the current ASSE 1017, *Performance Requirements for Temperature Actuated Mixing Valves for Hot Water Distribution Systems*. ASSE 1084 water heaters are intended to provide a level of scald protection consistent with the current ASSE 1070 / ASME A112.1070 / CSA B125.70, *Performance Requirements for Water Temperature Limiting Devices*. ASSE 1085 water heaters are intended to provide a level of temperature control and scald prevention consistent with the current ASSE 1071, *Performance Requirements for Temperature Actuated Mixing Valves for Plumbed Emergency Equipment*.

None of these water heater types are intended to limit thermal shock and are not substitutes for automatic compensative valves complying with ASSE 1016 / ASME A112.1016 / CSA B125.16, *Performance Requirements for Automatic Compensating Valves for Individual Showers and Tub/Shower Combinations*.

"Currently, the maximum temperatures at bathtubs, bidets, and public lavatories are limited by devices conforming to ASSE 1070 / ASME A112.1070 / CSA B125.70 or, in some jurisdictions, CSA B125.3," said Gary Klein, co-chairperson of the ASSE International Water Heater Working Group. "An ASSE 1084 compliant water heater has a built-in maximum temperature control with functionality similar to that of a 1070 compliant mixing valve, which helps ensure safe operation for the user while no further temperature limiting devices are required downstream."

"ASSE 1084 regulates water heaters such that they can be used for end point temperature setting," said Julius Ballanco, co-chairperson of the ASSE International Water Heater Working Group. "There are strict requirements for maintaining the hot water temperature within the ranges of a thermostatic mixing valve with high temperature limiting to prevent scalding. ASSE 1085 provides important requirements for water heaters for emergency fixtures. These water heaters provide tepid water for the emergency fixture and can be located in the close proximity of the emergency fixtures."

To purchase ASSE 1082-2018, ASSE 1084-2018, and ASSE 1085-2018, please visit the ASSE International Webstore at www.assewebstore.com. For questions regarding the standard, contact Staff Engineering Supervisor Conrad Jahrling by email at conrad.jahrling@asse-plumbing.org or by phone at (708) 995-3017.

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ASSE International is an ANSI-accredited standards developer and product certification body composed of members representing all disciplines of the plumbing and mechanical industries. ASSE's product performance standards, professional qualifications standards, professional certification and product listing programs aim to improve the performance and safety of plumbing and mechanical systems. Learn more about ASSE International at http://www.asse-plumbing.org/.