

Standard 18-2008 Method of Rating drinking-water mechanical refrigeration with self-contained Mechanical refrigeration

Standard 18 prescribes a method of testing for the cooling capacity and energy consumption of self-contained mechanically refrigerated drinking-water coolers. This 2008 revision updates the 2006 edition to provide the rating information that was lost when ARI Standard 1010 was withdrawn recently. The purposes of this standard are 1) to establish the types of equipment to which the provisions of this standard apply, 2) to define terms describing the equipment covered and terms related to testing, 3) to specify types of instrumentation and test apparatus required in testing, 4) to specify methods of procedure to be used when testing for rating, 5) to specify a uniform method for calculation of results, and 6) to specify data and results to be recorded.

This standard applies to self-contained, mechanically refrigerated drinking-water coolers that are supplied with piped water under pressure, that require a bottle or reservoir to store the supply of water to be cooled, and that provide additional utility described by any one, or more than one, of the following: a refrigerated storage compartment with or without provisions for making ice, a means for the heating of potable water, and/or a connection that may be used to supply cooled water to a remote dispensing means. This standard does not apply to water coolers intended for use on central circulating-type systems or water coolers employing remote-type condensing units. This standard also does not provide methods for field or production testing or establish criteria for evaluation of equipment with respect to safety, health hazards, durability, adverse operating conditions, or other factors involved in field applications.

Keywords: drinking water coolers, rating water coolers, testing water coolers, water cooler test

Units: Dual

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