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the capacity test as specified in section 7.2 of ANSI/ASHRAE Standard 29–2015.

(k) Self-contained refrigerated storage automatic commercial ice makers. For door openings, the door shall be in the fully open position, which means opening the ice storage compartment door to an angle of not less than 75 degrees from the closed position (or the maximum extent possible, if that is less than 75 degrees), for 10.0 ± 1.0 seconds to collect the sample. Conduct door openings only for ice sample collection and returning the empty ice collection container to the ice storage compartment (i.e., conduct two separate door openings, one for removing the collection container to collect the ice and one for replacing the collection container after collecting the ice).

[87 FR 65900, Nov. 1, 2022]

ENERGY CONSERVATION STANDARDS

§431.136 Energy conservation standards and their effective dates.

- (a) All basic models of commercial ice makers must be tested for performance using the applicable DOE test procedure in §431.134, be compliant with the applicable standards set forth in paragraphs (b) through (d) of this section, and be certified to the Department of Energy under 10 CFR part 429 of this chapter.
- (b) Each cube type automatic commercial ice maker with capacities between 50 and 2,500 pounds per 24-hour period manufactured on or after January 1, 2010 and before January 28, 2018, shall meet the following standard levels:

Equipment type	Type of cooling	Harvest rate lb ice/24 hours	Maximum energy use kWh/100 lb ice	Maximum condenser water use ¹ gal/100 lb ice
Ice-Making Head	Water	<500	7.8-0.0055H2	200-0.022H.
Ice-Making Head	Water	≥500 and <1,436	5.58-0.0011H	200-0.022H.
Ice-Making Head	Water	≥1,436	4.0	200-0.022H.
Ice-Making Head	Air	<450	10.26-0.0086H	Not Applicable.
Ice-Making Head	Air	≥450	6.89-0.0011H	Not Applicable.
Remote Condensing (but not remote compressor)	Air	<1,000	8.85-0.0038H	Not Applicable.
Remote Condensing (but not remote compressor)	Air	≥1,000	5.1	Not Applicable.
Remote Condensing and Remote Compressor	Air	<934	8.85-0.0038H	Not Applicable.
Remote Condensing (but not remote compressor)	Air	≥934	5.3	Not Applicable.
Self-Contained	Water	<200	11.40-0.019H	191–0.0315H.
Self-Contained	Water	≥200	7.6	191–0.0315H.
Self-Contained	Air	<175	18.0-0.0469H	Not Applicable.
Self-Contained	Air	≥175	9.8	Not Applicable.

(c) Each batch type automatic commercial ice maker with capacities between 50 and 4,000 pounds per 24-hour

period manufactured on or after January 28, 2018, shall meet the following standard levels:

Equipment type	Type of cooling	Harvest rate lb ice/24 hours	Maximum energy use kilowatt-hours (kWh)/100 lb ice ¹	Maximum condenser water use gal/100 lb ice ²
Ice-Making Head	Water	< 300	6.88-0.0055H	200-0.022H.
Ice-Making Head	Water	≥300 and <850	5.80-0.00191H	200-0.022H.
Ice-Making Head	Water	≥850 and <1,500	4.42-0.00028H	200-0.022H.
Ice-Making Head	Water	≥1,500 and <2,500	4.0	200-0.022H.
Ice-Making Head	Water	≥2,500 and <4,000	4.0	145.
Ice-Making Head		< 300	10-0.01233H	NA.
Ice-Making Head		≥ 300 and < 800	7.05-0.0025H	NA.
Ice-Making Head	Air	≥ 800 and < 1,500	5.55-0.00063H	NA.
Ice-Making Head	Air	≥ 1500 and < 4,000	4.61	NA.
Remote Condensing (but not remote compressor)	Air	< 988	7.97-0.00342H	NA.
Remote Condensing (but not remote compressor)	Air	≥ 988 and < 4,000	4.59	NA.
Remote Condensing and Remote Compressor		< 930	7.97-0.00342H	NA.
Remote Condensing and Remote Compressor	Air	≥ 930 and < 4,000	4.79	NA.
Self-Contained	Water	< 200	9.5-0.019H	191–0.0315H.
Self-Contained	Water	≥ 200 and < 2,500	5.7	191–0.0315H.

¹ Water use is for the condenser only and does not include potable water used to make ice.

² H = harvest rate in pounds per 24 hours, indicating the water or energy use for a given harvest rate. Source: 42 U.S.C. 6313(d).

Equipment type	Type of cooling	Harvest rate lb ice/24 hours	Maximum energy use kilowatt-hours (kWh)/100 lb ice ¹	Maximum condenser water use gal/100 lb ice ²
Self-Contained Self-Contained Self-Contained Self-Contained	Water Air Air	≥ 110 and < 200	14.79-0.0469H 12.42-0.02533H	NA.

¹H = harvest rate in pounds per 24 hours, indicating the water or energy use for a given harvest rate. Source: 42 U.S.C. 6313(d).

² Water use is for the condenser only and does not include potable water used to make ice.

(d) Each continuous type automatic commercial ice maker with capacities between 50 and 4,000 pounds per 24-hour

period manufactured on or after January 28, 2018, shall meet the following standard levels:

Equipment type	Type of cooling	Harvest rate lb ice/24 hours	Maximum energy use kWh/100 lb ice ¹	Maximum condenser water use gal/100 lb ice ²
Ice-Making Head Ice-Making Head Ice-Making Head	Water Water Water Air	<801 ≥801 and <2,500 ≥2,500 and <4,000 <310	6.48-0.00267H 4.34 4.34 9.19-0.00629H	180–0.0198H. 180–0.0198H. 130.5. NA.
Ice-Making Head Ice-Making Head Ice-Making Head Remote Condensing (but not remote compressor)	Air Air Air	≥310 and <820 ≥820 and <4,000 <800	8.23-0.0032H 5.61 9.7-0.0058H	NA. NA. NA.
Remote Condensing (but not remote compressor) Remote Condensing and Remote Compressor	Air	≥800 and <4,000 <800 ≥800 and <4,000	5.06 9.9–0.0058H 5.26	NA. NA. NA.
Self-Contained Self-Contained Self-Contained Self-Contained Self-Contained	Water Water Water Air	<900 ≥900 and <2,500 ≥2,500 and <4,000 <200 ≥200 and <700	7.6–0.00302H 4.88	153-0.0252H. 153-0.0252H. 90. NA. NA.
Self-Contained	Air	≥700 and <4,000	5.1	NA.

¹H = harvest rate in pounds per 24 hours, indicating the water or energy use for a given harvest rate. Source: 42 U.S.C.

[80 FR 4754, Jan. 28, 2015]

Subpart I—Commercial Clothes **Washers**

SOURCE: 70 FR 60416, Oct. 18, 2005, unless otherwise noted.

§431.151 Purpose and scope.

This subpart contains energy conservation requirements for commercial clothes washers, pursuant to Part C of Title III of the Energy Policy and Conservation Act, as amended, 42 U.S.C. 6311-6317.

§431.152 Definitions concerning commercial clothes washers.

AEER means active-mode energy efficiency ratio, in pounds per kilowatthour per cycle (lbs/kWh/cycle), as determined in section 4.8 of appendix J to subpart B of part 430 (when using appendix J).

Basic model means all units of a given type of covered product (or class thereof) manufactured by one manufacturer, having the same primary energy source, and which have essentially identical electrical, physical, and functional (or hydraulic) characteristics that affect energy consumption, energy efficiency, water consumption, water efficiency.

Commercial clothes washer means a soft-mounted front-loading or softmounted top-loading clothes washer that-

- (1) Has a clothes container compartment that-
- (i) For horizontal-axis clothes washers, is not more than 3.5 cubic feet; and
- (ii) For vertical-axis clothes washers, is not more than 4.0 cubic feet; and

⁶³¹³⁽d).

² Water use is for the condenser only and does not include potable water used to make ice.