§431.131

10 CFR Ch. II (1-1-06 Edition)

Product	Size	Energy conservation standard ^a (products manufactured on and after Octo- ber 29, 2003) ^b		
		Minimum thermal efficiency	Maximum standby loss ^c	
Gas-fired storage water heaters. Oil-fired storage water heat- ers. Gas-fired instantaneous water heaters and hot water supply boilers. Oil-fired instantaneous water heaters and hot water supply boilers.	>155,000 Btu/hr ≤155,000 Btu/hr >155,000 Btu/hr <10 gal <10 gal	80%	$\begin{array}{l} Q/800 + 110(V_r)^{1/2} \ (Btu/hr) \\ N/A \\ Q/800 + 110(V_r)^{1/2} \ (Btu/hr) \\ N/A \\ Q/800 + 110(V_r)^{1/2} \ (Btu/hr) \end{array}$	
Product	Size	Minimum thermal insulation		
Unfired hot water storage tank.	All	R–12.5		

 ${}^{a}V_{m}$ is the measured storage volume and V, is the rated volume, both in gallons. Q is the nameplate input rate in Btu/hr. b For hot water supply boilers with a capacity of less than 10 gallons: (1) the standards are mandatory for products manufactured on and after October 21, 2005, and (2) products manufactured prior to that date, and on or after October 23, 2003, must meet either the standards listed in this table or the applicable standards in Subpart E of this Part for a "commercial packaged boiler."

meet either the standards listed in uns table of the approach standards in 2-2-2boiler." • Water heaters and hot water supply boilers having more than 140 gallons of storage capacity need not meet the standby loss requirement if (1) the tank surface area is thermally insulated to R-12.5 or more, (2) a standing pilot light is not used and (3) for gas or oil-fired storage water heaters, they have a fire damper or fan assisted combustion.

 $[69\ {\rm FR}\ 61983,\ {\rm Oct.}\ 21,\ 2004;\ 69\ {\rm FR}\ 63574,\ {\rm Nov.}\ 2,\ 2004]$

Subpart H—Automatic Commercial Ice Makers

SOURCE: $70\ FR$ 60415, Oct. 18, 2005, unless otherwise noted.

§431.131 Purpose and scope.

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

§431.132 Definitions concerning automatic commercial ice makers.

Automatic commercial ice maker means a factory-made assembly (not necessarily shipped in 1 package) that—

(1) Consists of a condensing unit and ice-making section operating as an in-

tegrated unit, with means for making and harvesting ice; and

(2) May include means for storing ice, dispensing ice, or storing and dispensing ice.

Harvest rate means the amount of ice (at 32 degrees F) in pounds produced per 24 hours.

TEST PROCEDURES [RESERVED]

ENERGY CONSERVATION STANDARDS

§431.136 Energy conservation standards and their effective dates.

Each automatic commercial ice maker that produces cube type ice with capacities between 50 and 2500 pounds per 24-hour period when tested according to the test standard established in accordance with section 343 of EPCA (42 U.S.C. 6314) and is manufactured on or after January 1, 2010, shall meet the following standard levels:

Equipment type	Type of cooling	Harvest rate (lbs ice/24 hours)	Maximum energy use (kWh/100 lbs ice)	Maximum condenser water use * (gal/100 lbs ice)
Ice Making Head Ice Making Head Ice Making Head Ice Making Head Ice Making Head Remote Condensing (but not re- mote compressor). Remote Condensing (but not re- mote compressor).	Water Water Air Air Air		7.80-0.0055H 5.58-0.0011H 10.26-0.0086H 6.89-0.0011H 8.85-0.0038H 5.1	200–0.022H. 200–0.022H. 200–0.022H. Not applicable. Not applicable. Not applicable.