
HOUSE BILL 2327

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2018 Regular Session

By Representatives Morris, Hudgins, Tarleton, Fey, Slatter, Fitzgibbon, Macri, Ormsby, and Doglio

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1 AN ACT Relating to appliance efficiency standards; amending RCW
2 19.260.010, 19.260.030, 19.260.040, 19.260.050, 19.260.060, and
3 19.260.070; reenacting and amending RCW 19.260.020; and repealing RCW
4 19.27.170.

5 BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF WASHINGTON:

6 **Sec. 1.** RCW 19.260.010 and 2005 c 298 s 1 are each amended to
7 read as follows:

8 The legislature finds that efficiency standards:

9 ~~(1) ((According to estimates of the department of community,~~
10 ~~trade, and economic development, the efficiency standards set forth~~
11 ~~in chapter 298, Laws of 2005 will save nine hundred thousand~~
12 ~~megawatt-hours of electricity, thirteen million therms of natural~~
13 ~~gas, and one billion seven hundred million gallons of water in the~~
14 ~~year 2020, fourteen years after the standards have become effective,~~
15 ~~with a total net present value to buyers of four hundred ninety~~
16 ~~million dollars in 2020.~~

17 ~~(2) Efficiency standards))~~ For certain products sold or installed
18 in the state assure consumers and businesses that such products meet
19 minimum efficiency performance levels thus saving money on utility
20 bills.

1 (~~(3) Efficiency standards~~) (2) Save energy and reduce pollution
2 and other environmental impacts associated with the production,
3 distribution, and use of electricity and natural gas.

4 (~~(4) Efficiency standards~~) (3) Contribute to the economy of
5 Washington by helping to better balance energy supply and demand,
6 thus reducing pressure for higher natural gas and electricity prices.
7 By saving consumers and businesses money on energy bills, efficiency
8 standards help the state and local economy, since energy bill savings
9 can be spent on local goods and services.

10 (~~(5) Efficiency standards~~) (4) Can make electricity systems
11 more reliable by reducing the strain on the electricity grid during
12 peak demand periods. Furthermore, improved energy efficiency can
13 reduce or delay the need for new power plants, power transmission
14 lines, and power distribution system upgrades.

15 **Sec. 2.** RCW 19.260.020 and 2009 c 565 s 18 and 2009 c 501 s 1
16 are each reenacted and amended to read as follows:

17 The definitions in this section apply throughout this chapter
18 unless the context clearly requires otherwise.

19 (1) (~~("Automatic commercial ice cube machine" means a factory-~~
20 ~~made assembly, not necessarily shipped in one package, consisting of~~
21 ~~a condensing unit and ice-making section operating as an integrated~~
22 ~~unit with means for making and harvesting ice cubes. It may also~~
23 ~~include integrated components for storing or dispensing ice, or both.~~

24 ~~(2))~~ "Bottle-type water dispenser" means a water dispenser that
25 uses a bottle or reservoir as the source of potable water.

26 (~~(3))~~ (2) "Commercial hot food holding cabinet" means a heated,
27 fully enclosed compartment, with one or more solid or partial glass
28 doors, that is designed to maintain the temperature of hot food that
29 has been cooked in a separate appliance. "Commercial hot food holding
30 cabinet" does not include heated glass merchandising cabinets, drawer
31 warmers, or cook and hold appliances.

32 (~~(4)(a)~~) ~~"Commercial refrigerators and freezers" means~~
33 ~~refrigerators, freezers, or refrigerator freezers designed for use by~~
34 ~~commercial or institutional facilities for the purpose of storing or~~
35 ~~merchandising food products, beverages, or ice at specified~~
36 ~~temperatures that: (i) Incorporate most components involved in the~~
37 ~~vapor-compression cycle and the refrigerated compartment in a single~~
38 ~~cabinet; and (ii) may be configured with either solid or transparent~~

1 ~~doors as a reach-in cabinet, pass-through cabinet, roll-in cabinet,~~
2 ~~or roll-through cabinet.~~

3 ~~(b) "Commercial refrigerators and freezers" does not include: (i)~~
4 ~~Products with 85 cubic feet or more of internal volume; (ii) walk-in~~
5 ~~refrigerators or freezers; (iii) consumer products that are federally~~
6 ~~regulated pursuant to 42 U.S.C. Sec. 6291 et seq.; (iv) products~~
7 ~~without doors; or (v) freezers specifically designed for ice cream.~~

8 ~~(5))~~ (3) "Compensation" means money or any other valuable thing,
9 regardless of form, received or to be received by a person for
10 services rendered.

11 ~~((6))~~ (4) "Cook and hold appliance" means a multiple mode
12 appliance intended for cooking food that may be used to hold the
13 temperature of the food that has been cooked in the same appliance.

14 ~~((7))~~ (5) "Department" means the department of commerce.

15 ~~((8))~~ (6) "Drawer warmer" means an appliance that consists of
16 one or more heated drawers and that is designed to hold hot food that
17 has been cooked in a separate appliance at a specified temperature.

18 ~~((9))~~ (7) "Heated glass merchandising cabinet" means an
19 appliance with a heated cabinet constructed of glass or clear plastic
20 doors which, with seventy percent or more clear area, is designed to
21 display and maintain the temperature of hot food that has been cooked
22 in a separate appliance.

23 ~~((10))~~ (8) "Hot water dispenser" means a small electric water
24 heater that has a measured storage volume of no greater than one
25 gallon.

26 ~~((11))~~ (9) "Mini-tank electric water heater" means a small
27 electric water heater that has a measured storage volume of more than
28 one gallon and a rated storage volume of less than twenty gallons.

29 ~~((12) "Pass-through cabinet" means a commercial refrigerator or~~
30 ~~freezer with hinged or sliding doors on both the front and rear of~~
31 ~~the unit.~~

32 ~~(13))~~ (10) "Point-of-use water dispenser" means a water
33 dispenser that uses a pressurized water utility connection as the
34 source of potable water.

35 ~~((14) "Pool heater" means an appliance designed for heating~~
36 ~~nonpotable water contained at atmospheric pressure for swimming~~
37 ~~pools, spas, hot tubs, and similar applications.~~

38 ~~(15))~~ (11) "Portable electric spa" means a factory-built
39 electric spa or hot tub, supplied with equipment for heating and
40 circulating water.

1 ~~((16) "Reach in cabinet" means a commercial refrigerator or~~
2 ~~freezer with hinged or sliding doors or lids, but does not include~~
3 ~~roll-in or roll-through cabinets or pass-through cabinets.~~

4 ~~(17))~~ (12) "Residential pool pump" means a pump used to
5 circulate and filter pool water in order to maintain clarity and
6 sanitation.

7 ~~((18)(a) "Roll in cabinet" means a commercial refrigerator or~~
8 ~~freezer with hinged or sliding doors that allow wheeled racks of~~
9 ~~product to be rolled into the unit.~~

10 ~~(b) "Roll through cabinet" means a commercial refrigerator or~~
11 ~~freezer with hinged or sliding doors on two sides of the cabinet that~~
12 ~~allow wheeled racks of product to be rolled through the unit.~~

13 ~~(19))~~ (13) "Showerhead" means a device through which water is
14 discharged for a shower bath and includes a body sprayer and handheld
15 showerhead but does not include a safety showerhead.

16 ~~((20))~~ (14) "Showerhead tub spout diverter combination" means a
17 group of plumbing fittings sold as a matched set and consisting of a
18 control valve, a tub spout diverter, and a showerhead.

19 ~~((21) "State-regulated incandescent reflector lamp" means a lamp~~
20 ~~that is not colored or designed for rough or vibration service~~
21 ~~applications, has an inner reflective coating on the outer bulb to~~
22 ~~direct the light, an E26 medium screw base, a rated voltage or~~
23 ~~voltage range that lies at least partially within 115 to 130 volts,~~
24 ~~and falls into one of the following categories:~~

25 ~~(a) A bulged reflector or elliptical reflector bulb shape and~~
26 ~~which has a diameter which equals or exceeds 2.25 inches; or~~

27 ~~(b) A reflector, parabolic aluminized reflector, or similar bulb~~
28 ~~shape and which has a diameter of 2.25 to 2.75 inches.~~

29 ~~(22))~~ (15) "Tub spout diverter" means a device designed to stop
30 the flow of water into a bathtub and to divert it so that the water
31 discharges through a showerhead.

32 ~~((23))~~ (16) "Wine chillers designed and sold for use by an
33 individual" means refrigerators designed and sold for the cooling and
34 storage of wine by an individual.

35 (17) "Air purifier" means an electric, cord-connected, portable
36 appliance with the primary function of removing particulate matter
37 from the air and which can be moved from room to room.

38 (18) "Audio or video product" means a mains-connected product
39 that offers audio amplification or optical disc player functions.

1 (19) "Commercial dishwasher" means a machine designed to clean
2 and sanitize plates, pots, pans, glasses, cups, bowls, utensils, and
3 trays by applying sprays of detergent solution, with or without
4 blasting media granules, and a sanitizing rinse.

5 (20) "Commercial fryer" means an appliance, including a cooking
6 vessel, in which oil is placed to such a depth that the cooking food
7 is supported by displacement of the cooking fluid rather than by the
8 bottom of the vessel. Heat is delivered to the cooking fluid by means
9 of an immersed electric element of band-wrapped vessel (electric
10 fryers) or by heat transfer from gas burners through either the walls
11 of the fryer or through tubes passing through the cooking fluid (gas
12 fryers).

13 (21) "Commercial steam cooker" means a device with one or more
14 food-steaming compartments in which the energy in the steam is
15 transferred to the food by direct contact. Models may include
16 countertop models, wall-mounted models, and floor models mounted on a
17 stand, pedestal, or cabinet-style base.

18 (22) "Compressor" means a machine or apparatus that converts
19 different types of energy into the potential energy of gas pressure
20 for displacement and compression of gaseous media to any higher-
21 pressure values above atmospheric pressure and has a pressure ratio
22 at full-load operating pressure greater than 1.3.

23 (23) "Computer" means a device that performs logical operations
24 and processes data. "Computer" includes both stationary and portable
25 units and includes a desktop computer, a portable all-in-one, a
26 notebook computer, a mobile gaming system, a high expandability
27 computer, a small-scale server, a thin client, and a workstation.
28 "Computer" does not include a tablet, game console, television, small
29 computer device, a server other than a small-scale server, or an
30 industrial computer. Although a computer is capable of using input
31 devices and displays, these devices are not required to be included
32 with the computer when the computer is shipped. A computer is
33 composed of, at a minimum:

34 (a) A central processing unit to perform operations or, if no
35 central processing unit is present, then the device must function as
36 a client gateway to a server and the server acts as the computational
37 central processing unit;

38 (b) The ability to support user input devices such as a keyboard,
39 mouse, or touchpad; and

1 (c) An integrated display screen or the ability to support an
2 external display screen to output information.

3 (24) "Computer monitor" means an analog or digital device of
4 diagonal screen size greater than or equal to seventeen inches and
5 less than or equal to sixty-one inches, that has a pixel density of
6 greater than five thousand pixels per square inch, and that is
7 designed primarily for the display of computer generated signals for
8 viewing by one person in a desk-based environment. A computer monitor
9 is composed of a display screen and associated electronics. A
10 computer monitor does not include:

11 (a) Displays with integrated or replaceable batteries designed to
12 support primary operation without AC mains or external DC power, such
13 as electronic readers, mobile phones, tablets, or battery-powered
14 digital picture frames; or

15 (b) A television or a signage display.

16 (25) "Faucet" means a lavatory faucet, kitchen faucet, metering
17 faucet, or replacement aerator for a lavatory or kitchen faucet.

18 (26) "General service lamp" has the same meaning as set forth in
19 the action published at 82 Fed. Reg. 7276, 7321-22 (January 19, 2017)
20 and modified by the action published at 82 Fed. Reg. 7322, 7333
21 (January 19, 2017).

22 (27) "High color rendering index fluorescent lamp" or "high CRI
23 fluorescent lamp" means a fluorescent lamp with a color rendering
24 index of eighty-seven or greater that is not a compact fluorescent
25 lamp.

26 (28) "Portable air conditioner" means a portable encased
27 assembly, other than a packaged terminal air conditioner, room air
28 conditioner, or dehumidifier, that delivers cooled, conditioned air
29 to an enclosed space, and is powered by single-phase electric
30 current. It includes a source of refrigeration and may include
31 additional means for air circulation and heating and may be a single-
32 duct or a dual-duct portable air conditioner.

33 (29) "Residential ventilating fan" means a ceiling, wall-mounted,
34 or remotely mounted in-line fan designed to be used in a bathroom or
35 utility room, or a kitchen range hood, whose purpose is to move
36 objectionable air from inside the building to the outdoors.

37 (30) "Signage display" means an analog or digital device designed
38 primarily for the display for computer-generated signals that is not
39 marketed for us as a computer monitor or a television.

1 (31) "Spray sprinkler body" means the exterior case or shell of a
2 sprinkler incorporating a means of connection to the piping system
3 designed to convey water to a nozzle or orifice.

4 (32) "Telephone" means an electronic product whose primary
5 purpose is to transmit and receive sound over a distance using a
6 voice or data network.

7 (33) "Television" or "TV" means an analog or digital device
8 designed primarily for the display and reception of a terrestrial,
9 satellite, cable, internet protocol TV, or other broadcast or
10 recorded transmission of analog or digital video and audio signals.
11 "Television" includes combination TVs, television monitors, component
12 TVs, and any unit that is marketed to a consumer as a TV.
13 "Television" does not include computer monitors.

14 (34) "Uninterruptible power supply" means a battery charger
15 consisting of a number of convertors, switches, and energy storage
16 devices such as batteries, constituting a power system for
17 maintaining continuity of load power in case of input power failure.

18 (35) "Urinal" means a plumbing fixture that receives only liquid
19 body waste and, on demand, conveys the waste through a trap seal into
20 a gravity drainage system.

21 (36) "Water closet" means a plumbing fixture having a water-
22 containing receptor that receives liquid and solid body waste through
23 an exposed integral trap into a gravity drainage system.

24 (37) "Water cooler" means a freestanding device that consumes
25 energy to cool or heat potable water, including cold only units, hot
26 and cold units, cook and cold units, storage-type units, and on-
27 demand units.

28 **Sec. 3.** RCW 19.260.030 and 2009 c 501 s 2 are each amended to
29 read as follows:

30 (1) This chapter applies to the following types of new products
31 sold, offered for sale, or installed in the state:

- 32 ~~(a) ((Automatic commercial ice cube machines;~~
- 33 ~~(b) Commercial refrigerators and freezers;~~
- 34 ~~(c) State-regulated incandescent reflector lamps;~~
- 35 ~~(d))~~ Wine chillers designed and sold for use by an individual;
- 36 ~~((e))~~ (b) Hot water dispensers and mini-tank electric water
37 heaters;
- 38 ~~((f))~~ (c) Bottle-type water dispensers and point-of-use water
39 dispensers;

1 ~~((g) Pool heaters,~~) (d) Residential pool pumps ~~((τ))~~ and
2 portable electric spas;
3 ~~((h))~~ (e) Tub spout diverters; ~~((and~~
4 ~~(i))~~) (f) Commercial hot food holding cabinets;
5 (g) Air purifiers;
6 (h) Commercial fryers, commercial dishwashers, and commercial
7 steam cookers;
8 (i) Compressors;
9 (j) Computers and computer monitors;
10 (k) Faucets;
11 (l) High CRI fluorescent lamps;
12 (m) Portable air conditioners and residential ventilating fans;
13 (n) Showerheads;
14 (o) Signage displays;
15 (p) Spray sprinkler bodies;
16 (q) Telephones;
17 (r) Televisions;
18 (s) Uninterruptible power supplies;
19 (t) Urinals and water closets;
20 (u) Water coolers;
21 (v) Audio or video products; and
22 (w) General service lamps.

23 (2) This chapter applies equally to products whether they are
24 sold, offered for sale, or installed as stand-alone products or as
25 components of other products.

26 (3) This chapter does not apply to:

27 (a) New products manufactured in the state and sold outside the
28 state;

29 (b) New products manufactured outside the state and sold at
30 wholesale inside the state for final retail sale and installation
31 outside the state;

32 (c) Products installed in mobile manufactured homes at the time
33 of construction; or

34 (d) Products designed expressly for installation and use in
35 recreational vehicles.

36 **Sec. 4.** RCW 19.260.040 and 2009 c 501 s 3 are each amended to
37 read as follows:

38 The minimum efficiency standards specified in this section apply
39 to the types of new products set forth in RCW 19.260.030.

1 (1) ~~((a) Automatic commercial ice cube machines must have daily~~
 2 ~~energy use and daily water use no greater than the applicable values~~
 3 ~~in the following table:~~

Equipment type	Type of cooling	Harvest rate (lbs. ice/24 hrs.)	Maximum energy use (kWh/100 lbs.)	Maximum condenser water use (gallons/100 lbs. ice)
Ice-making head	water	<500	7.80-.0055H	200-.022H
		≥500<1436	5.58-.0011H	200-.022H
		≥1436	4.0	200-.022H
Ice-making head	air	450	10.26-.0086H	Not applicable
		≥450	6.89-.0011H	Not applicable
Remote condensing but not remote compressor	air	<1000	8.85-.0038	Not applicable
		≥1000	5.10	Not applicable
Remote condensing and remote compressor	air	<934	8.85-.0038H	Not applicable
		≥934	5.3	Not applicable
Self-contained models	water	<200	11.40-.0190H	191-.0315H
		≥200	7.60	191-.0315H
Self-contained models	air	<175	18.0-.0469H	Not applicable
		≥175	9.80	Not applicable

22 Where H= harvest rate in pounds per twenty-four hours which must be reported within 5% of the tested value. "Maximum
 23 water use" applies only to water used for the condenser.

24 ~~(b) For purposes of this section, automatic commercial ice cube~~
 25 ~~machines shall be tested in accordance with the ARI 810-2003 test~~
 26 ~~method as published by the air conditioning and refrigeration~~
 27 ~~institute. Ice-making heads include all automatic commercial ice cube~~
 28 ~~machines that are not split system ice makers or self-contained~~
 29 ~~models as defined in ARI 810-2003.~~

30 (2) ~~(a) Commercial refrigerators and freezers must meet the~~
 31 ~~applicable requirements listed in the following table:~~

Equipment Type	Doors	Maximum Daily Energy Consumption (kWh)
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1	Reach-in cabinets, pass-through cabinets, and roll-in or roll-through cabinets that are refrigerators	Solid	$0.10V + 2.04$
3		Transparent	$0.12V + 3.34$
4	Reach-in cabinets, pass-through cabinets, and roll-in or roll-through cabinets that are "pulldown" refrigerators	Transparent	$.126V + 3.51$
7		Solid	$0.40V + 1.38$
8	Reach-in cabinets, pass-through cabinets, and roll-in or roll-through cabinets that are freezers	Transparent	$0.75V + 4.10$
10		Solid	$0.27AV - 0.71$
11	Reach-in cabinets that are refrigerator-freezers with an AV of 5.19 or higher		

12 kWh= kilowatt-hours

13 V= total volume (ft³)

14 AV= adjusted volume= [1.63 x freezer volume (ft³)] + refrigerator volume (ft³)

15 ~~(b) For purposes of this section, "pulldown" designates products~~
 16 ~~designed to take a fully stocked refrigerator with beverages at 90~~
 17 ~~degrees Fahrenheit and cool those beverages to a stable temperature~~
 18 ~~of 38 degrees Fahrenheit within 12 hours or less. Daily energy~~
 19 ~~consumption shall be measured in accordance with the American~~
 20 ~~national standards institute/American society of heating,~~
 21 ~~refrigerating and air conditioning engineers test method 117-2002,~~
 22 ~~except that the back loading doors of pass through and roll through~~
 23 ~~refrigerators and freezers must remain closed throughout the test,~~
 24 ~~and except that the controls of all appliances must be adjusted to~~
 25 ~~obtain the following product temperatures.~~

26	Product or compartment type	Integrated average product temperature in degrees Fahrenheit
27	Refrigerator	38 ± 2
28	Freezer	0 ± 2

29 ~~(3)(a) The lamp electrical power input of state regulated~~
 30 ~~incandescent reflector lamps shall meet the minimum average lamp~~
 31 ~~efficacy requirements for federally regulated incandescent reflector~~
 32 ~~lamps specified in 42 U.S.C. Sec. 6295(i)(1)(A) (B).~~

33 ~~(b) The following types of incandescent lamps are exempt from~~
 34 ~~these requirements:~~

1 ~~(i) Lamps rated at fifty watts or less of the following types: BR~~
2 ~~30, ER 30, BR 40, and ER 40;~~
3 ~~(ii) Lamps rated at sixty five watts of the following types: BR~~
4 ~~30, BR 40, and ER 40; and~~
5 ~~(iii) R 20 lamps of forty five watts or less.~~
6 ~~(4))~~(a) Wine chillers designed and sold for use by an individual
7 must meet requirements specified in the California Code of
8 Regulations, Title 20, section 1605.3 in effect as of July 26, 2009.
9 (b) Wine chillers designed and sold for use by an individual
10 shall be tested in accordance with the method specified in the
11 California Code of Regulations, Title 20, section 1604 in effect as
12 of July 26, 2009.
13 ~~((5))~~ (2)(a) The standby energy consumption of bottle-type
14 water dispensers, and point-of-use water dispensers, dispensing both
15 hot and cold water, manufactured on or after January 1, 2010, shall
16 not exceed 1.2 kWh/day.
17 (b) The test method for water dispensers shall be the
18 environmental protection agency energy star program requirements for
19 bottled water coolers version 1.1.
20 ~~((6))~~ (3)(a) The standby energy consumption of hot water
21 dispensers and mini-tank electric water heaters manufactured on or
22 after January 1, 2010, shall be not greater than 35 watts.
23 (b) This subsection does not apply to any water heater:
24 (i) That is within the scope of 42 U.S.C. Sec. 6292(a)(4) or
25 6311(1);
26 (ii) That has a rated storage volume of less than 20 gallons; and
27 (iii) For which there is no federal test method applicable to
28 that type of water heater.
29 (c) Hot water dispensers shall be tested in accordance with the
30 method specified in the California Code of Regulations, Title 20,
31 section 1604 in effect as of July 26, 2009.
32 (d) Mini-tank electric water heaters shall be tested in
33 accordance with the method specified in the California Code of
34 Regulations, Title 20, section 1604 in effect as of July 26, 2009.
35 ~~((7))~~ (4) The following standards are established for ~~((pool~~
36 ~~heaters,))~~ residential pool pumps~~((,))~~ and portable electric spas:
37 (a) ~~((Natural gas pool heaters shall not be equipped with~~
38 ~~constant burning pilots.~~
39 ~~(b))~~ Residential pool pump motors manufactured on or after
40 January 1, 2010, must meet requirements specified in the California

1 Code of Regulations, Title 20, section 1605.3 in effect as of July
2 26, 2009.

3 ~~((e))~~ (b) Through December 31, 2019, portable electric spas
4 manufactured on or after January 1, 2010, must meet requirements
5 specified in the California Code of Regulations, Title 20, section
6 1605.3 in effect as of July 26, 2009. Beginning January 1, 2020,
7 portable electric spas must meet the requirements of the American
8 national standard for portable electric spa energy efficiency (ANSI/
9 APSP/ICC-14 2014).

10 ~~((d))~~ (c) Through December 31, 2019, portable electric spas
11 must be tested in accordance with the method specified in the
12 California Code of Regulations, Title 20, section 1604 in effect as
13 of July 26, 2009. Beginning January 1, 2020, portable electric spas
14 must be tested in accordance with the method specified in the
15 American national standard for portable electric spa energy
16 efficiency (ANSI/APSP/ICC-14 2014).

17 ~~((8))~~ (5)(a) The leakage rate of tub spout diverters shall be
18 no greater than the applicable requirements shown in the following
19 table:

Appliance	Testing Conditions	Maximum Leakage Rate
		Effective January 1, 2009
	When new	0.01 gpm
Tub spout diverters	After 15,000 cycles of diverting	0.05 gpm

24 (b) Showerhead tub spout diverter combinations shall meet both
25 the ~~((federal standard for showerheads established pursuant to 42~~
26 ~~U.S.C. Sec. 6291 et seq.))~~ standard for showerheads specified in this
27 section and the standard for tub spout diverters specified in this
28 section.

29 ~~((9))~~ (6)(a) The idle energy rate of commercial hot food
30 holding cabinets manufactured on or after January 1, 2010, shall be
31 no greater than 40 watts per cubic foot of measured interior volume.

32 (b) The idle energy rate of commercial hot food holding cabinets
33 shall be determined using ANSI/ASTM ~~((F2140-01))~~ F2140-11 standard
34 test method for the performance of hot food holding cabinets (test
35 for idle energy rate dry test). Commercial hot food holding cabinet
36 interior volume shall be calculated using straight line segments
37 following the gross interior dimensions of the appliance and using
38 the following equation: Interior height x interior width x interior

1 depth. Interior volume shall not account for racks, air plenums, or
2 other interior parts.

3 (7) Air purifiers, except industrial air purifiers, must meet the
4 following requirements as measured in accordance with the
5 environmental protection agency energy star program product
6 specification for room air cleaners, version 1.2:

7 (a) Clean air delivery rate for dust must be 50 or greater;

8 (b) Clean air delivery rate per watt for dust must be equal to or
9 greater than 2.0;

10 (c) For ozone-emitting models, measured ozone must be less than
11 or equal to 50 parts per billion; and

12 (d) Standby power may not exceed two watts.

13 (8) Commercial dishwashers included in the scope of the
14 environmental protection agency energy star program product
15 specification for commercial dishwashers, version 2.0, must meet the
16 qualification criteria of that specification.

17 (9) Commercial fryers included in the scope of the environmental
18 protection agency energy star program product specification for
19 commercial fryers, version 2.0, must meet the qualification criteria
20 for that specification.

21 (10) Commercial steam cookers must meet the requirements of the
22 environmental protection agency energy star program product
23 specification for commercial steam cookers, version 1.2.

24 (11) Computers and computer monitors must meet the requirements
25 in the California Code of Regulations, Title 20, section 1605.3 in
26 effect as of January 1, 2018, as measured in accordance with the test
27 methods prescribed in the California Code of Regulations, Title 20,
28 section 1604 in effect as of January 1, 2018.

29 (12) Compressors that meet the criteria listed in 10 C.F.R. Sec.
30 431.344 must meet the requirements in 10 C.F.R. Sec. 431.343 in
31 effect as of July 3, 2017, as measured in accordance with the test
32 methods prescribed in 10 C.F.R. Sec. 431.344 (appendix A to subpart T
33 of part 431).

34 (13) Faucets, except for metering faucets, and showerheads must
35 meet the following standards when measured in accordance with the
36 test methods prescribed in 10 C.F.R. Sec. 430.23 (appendix S to
37 subpart B of part 430) in effect as of January 3, 2017:

38 (a) Lavatory faucets and replacement aerators may not exceed a
39 maximum flow rate of 1.2 gallons per minute at 60 pounds per square
40 inch;

1 (b) Kitchen faucets and replacement aerators may not exceed a
2 maximum flow rate of 1.8 gallons per minute at 60 pounds per square
3 inch, with optional temporary flow of 2.2 gallons per minute,
4 provided the kitchen faucets and replacement aerators default to a
5 maximum flow rate of 1.8 gallons per minute at 60 pounds per square
6 inch after each use;

7 (c) Public lavatory faucets and replacement aerators may not
8 exceed a maximum flow rate of 0.5 gallons per minute at 60 pounds per
9 square inch; and

10 (d) Showerheads may not exceed a maximum flow rate of 1.8 gallons
11 per minute at 80 pounds per square inch.

12 (14) High CRI fluorescent lamps must meet the requirements in 10
13 C.F.R. Sec. 430.32 in effect as of January 3, 2017, as measured in
14 accordance with the test methods prescribed in 10 C.F.R. Sec. 430.23
15 (appendix R to subpart B of part 430) in effect as of January 3,
16 2017.

17 (15) Portable air conditioners must have a combined energy
18 efficiency ratio, as measured in accordance with the test methods
19 prescribed in 10 C.F.R. Sec. 430.23 (appendix CC to subpart B of part
20 430) in effect as of January 3, 2017, that is greater than or equal
21 to:

$$1.04 \times \frac{SACC}{(3.7117 \times SACC^{0.6384})}$$

22 where "SACC" is seasonally adjusted cooling capacity in Btu/h.

23
24 (16) Residential ventilating fans must meet the qualification
25 criteria of the environmental protection agency energy star program
26 product specification for residential ventilating fans, version 3.2.

27 (17) Signage displays must meet the requirements in the
28 California Code of Regulations, Title 20, section 1605.3 in effect as
29 of January 1, 2018, as measured in accordance with the test methods
30 prescribed in the California Code of Regulations, Title 20, section
31 1604 in effect as of January 1, 2018.

32 (18) Spray sprinkler bodies that are not specifically excluded
33 from the scope of the environmental protection agency water sense
34 program product specification for spray sprinkler bodies, version
35 1.0, must include an integral pressure regulator and must meet the
36 water efficiency and performance criteria and other requirements of
37 that specification.
38

1 (19) Telephones included in the scope of the environmental
2 protection agency energy star program product specification for
3 telephony, version 3.0, must meet the certification criteria of that
4 specification, except that the performance requirements for external
5 power supplies in section 3.2.2 of the specification does not apply.

6 (20) Televisions must meet the requirements in the California
7 Code of Regulations, Title 20, section 1605.3 in effect as of January
8 1, 2018, as measured in accordance with the test methods prescribed
9 in the California Code of Regulations, Title 20, section 1604 in
10 effect as of January 1, 2018.

11 (21) Urinals and water closets must meet the requirements in the
12 California Code of Regulations, Title 20, section 1605.3 in effect as
13 of January 1, 2018, as measured in accordance with the test methods
14 prescribed in the California Code of Regulations, Title 20, section
15 1604 in effect as of January 1, 2018.

16 (22) Uninterruptible power supplies that utilize a NEMA 1-15P or
17 5-15P input plug and have an AC output must have an average load
18 adjusted efficiency that meets or exceeds the values shown on page
19 193 of the prepublication final rule "Energy Conservation Program:
20 Energy Conservation Standards for Uninterruptible Power Supplies"
21 issued by the United States department of energy on December 28,
22 2016, as measured in accordance with test procedures prescribed in
23 Appendix Y to Subpart B of Part 430 of Title 10 of the Code of
24 Federal Regulations "Uniform Test Method for Measuring the Energy
25 Consumption of Battery Chargers" in effect as of January 11, 2017.

26 (23) Water coolers included in the scope of the environmental
27 protection agency energy star program product specification for water
28 coolers, version 2.0, must have an on mode with no water draw energy
29 consumption less than or equal to the following values as measured in
30 accordance with the test requirements of that program:

31 (a) 0.16 kilowatt-hours per day for cold-only units and cook and
32 cold units;

33 (b) 0.87 kilowatt-hours per day for storage type hot and cold
34 units; and

35 (c) 0.18 kilowatt-hours per day for on demand hot and cold units.

36 (24) Audio or video products included in the scope of the
37 environmental protection agency energy star program product
38 specification for audio or video, version 3.0, as revised December
39 2014, must meet the qualification criteria of that specification,

1 except that the performance requirements for external power supplies
2 in section 3.2.1 of the specification do not apply.

3 (25) General service lamps must meet or exceed a lamp efficacy of
4 45 lumens per watt, when tested in accordance with the applicable
5 federal test procedures for general service lamps prescribed in 10
6 C.F.R. Sec. 430.23 in effect as of January 3, 2017.

7 **Sec. 5.** RCW 19.260.050 and 2009 c 501 s 4 are each amended to
8 read as follows:

9 (1) No new (~~commercial refrigerator or freezer or~~) state-
10 regulated incandescent reflector lamp manufactured on or after
11 January 1, 2007, may be sold or offered for sale in the state unless
12 the efficiency of the new product meets or exceeds the efficiency
13 standards set forth in RCW 19.260.040. (~~No new automatic commercial~~
14 ~~ice cube machine manufactured on or after January 1, 2008, may be~~
15 ~~sold or offered for sale in the state unless the efficiency of the~~
16 ~~new product meets or exceeds the efficiency standards set forth in~~
17 ~~RCW 19.260.040.))~~

18 (2) (~~On or after January 1, 2008, no new commercial refrigerator~~
19 ~~or freezer or state-regulated incandescent reflector lamp~~
20 ~~manufactured on or after January 1, 2007, may be installed for~~
21 ~~compensation in the state unless the efficiency of the new product~~
22 ~~meets or exceeds the efficiency standards set forth in RCW~~
23 ~~19.260.040. On or after January 1, 2009, no new automatic commercial~~
24 ~~ice cube machine manufactured on or after January 1, 2008, may be~~
25 ~~installed for compensation in the state unless the efficiency of the~~
26 ~~new product meets or exceeds the efficiency standards set forth in~~
27 ~~RCW 19.260.040.~~

28 ~~(3))~~ Standards for state-regulated incandescent reflector lamps
29 are effective on the date(~~s~~) specified in subsection(~~s~~) (1) (~~and~~
30 ~~(2))~~ of this section.

31 (~~(4))~~ (3) The following products, if manufactured on or after
32 January 1, 2010, may not be sold or offered in the state unless the
33 efficiency of the new product meets or exceeds the efficiency
34 standards set forth in RCW 19.260.040:

- 35 (a) Wine chillers designed and sold for use by an individual;
36 (b) Hot water dispensers and mini-tank electric water heaters;
37 (c) Bottle-type water dispensers and point-of-use water
38 dispensers;

1 (d) (~~Pool heaters,~~) Residential pool pumps(~~(7)~~) and portable
2 electric spas;

3 (e) Tub spout diverters; and

4 (f) Commercial hot food holding cabinets.

5 (~~(5)~~) (4) The following products, if manufactured on or after
6 January 1, 2010, may not be installed for compensation in the state
7 on or after January 1, 2011, unless the efficiency of the new product
8 meets or exceeds the efficiency standards set forth in RCW
9 19.260.040:

10 (a) Wine chillers designed and sold for use by an individual;

11 (b) Hot water dispensers and mini-tank electric water heaters;

12 (c) Bottle-type water dispensers and point-of-use water
13 dispensers;

14 (d) (~~Pool heaters,~~) Residential pool pumps(~~(7)~~) and portable
15 electric spas;

16 (e) Tub spout diverters; and

17 (f) Commercial hot food holding cabinets.

18 (5) The following products, if manufactured on or after January
19 1, 2020, may not be sold or offered for sale, lease, or rent in the
20 state unless the efficiency of the new product meets or exceeds the
21 efficiency standards set forth in RCW 19.260.040:

22 (a) Air purifiers;

23 (b) Commercial dishwashers;

24 (c) Commercial fryers;

25 (d) Commercial steam cookers;

26 (e) Compressors;

27 (f) Computers or computer monitors;

28 (g) Faucets;

29 (h) High CRI fluorescent lamps;

30 (i) Portable air conditioners;

31 (j) Residential ventilating fans;

32 (k) Signage displays;

33 (l) Spray sprinkler bodies;

34 (m) Showerheads;

35 (n) Telephones;

36 (o) Televisions;

37 (p) Uninterruptible power supplies;

38 (q) Urinals and water closets;

39 (r) Water coolers;

40 (s) Audio or video products; and

1 (t) General service lamps.

2 (6) Standards for the following products expire January 1, 2020:

3 (a) Hot water dispensers; and

4 (b) Bottle-type water dispensers and point-of-use water
5 dispensers.

6 **Sec. 6.** RCW 19.260.060 and 2005 c 298 s 6 are each amended to
7 read as follows:

8 (1) The department may adopt rules that incorporate by reference
9 only federal efficiency standards for federally covered products as
10 the standards existed on January 3, 2017. The department must
11 regularly submit a report to the appropriate committees of the
12 legislature on federal standards that preempt the state standards set
13 forth in RCW 19.260.040. Any report on federal preemption must be
14 transmitted at least thirty days before the start of any regular
15 legislative session.

16 (2) The department may recommend updates to the energy efficiency
17 standards and test methods for products listed in RCW 19.260.030. The
18 department may also recommend establishing state standards for
19 additional nonfederally covered products. In making its
20 recommendations, the department shall use the following criteria:

21 ~~((1))~~ (a) Multiple manufacturers produce products that meet the
22 proposed standard at the time of recommendation(~~(, (2))~~); (b)
23 products meeting the proposed standard are available at the time of
24 recommendation(~~(, (3))~~); (c) the products are cost-effective to
25 consumers on a life-cycle cost basis using average Washington
26 resource rates(~~(, (4))~~); (d) the utility of the energy efficient
27 product meets or exceeds the utility of the comparable product
28 available for purchase(~~(, (5))~~); and ((5)) (e) the standard exists in
29 at least two other states in the United States. For recommendations
30 concerning commercial clothes washers, the department must also
31 consider the fiscal effects on the low-income, elderly, and student
32 populations. Any recommendations shall be transmitted to the
33 appropriate committees of the legislature sixty days before the start
34 of any regular legislative session.

35 **Sec. 7.** RCW 19.260.070 and 2005 c 298 s 7 are each amended to
36 read as follows:

1 (1) The manufacturers of products covered by this chapter must
2 test samples of their products in accordance with the test procedures
3 under this chapter or those specified in the state building code.

4 (2) Manufacturers of new products covered by RCW 19.260.030(~~(7~~
5 ~~except for single voltage external AC to DC power supplies,~~) shall
6 certify to the department that the products are in compliance with
7 this chapter. This certification must be based on test results unless
8 this chapter does not specify a test method. The department shall
9 establish rules governing the certification of these products and may
10 coordinate with the certification programs of other states and
11 federal agencies with similar standards.

12 (3) Manufacturers of new products covered by RCW 19.260.030 shall
13 identify each product offered for sale or installation in the state
14 as in compliance with this chapter by means of a mark, label, or tag
15 on the product and packaging at the time of sale or installation. The
16 department shall establish rules governing the identification of
17 these products and packaging, which shall be coordinated to the
18 greatest practical extent with the labeling programs of other states
19 and federal agencies with equivalent efficiency standards.

20 (4) The department may test products covered by RCW 19.260.030.
21 If products so tested are found not to be in compliance with the
22 minimum efficiency standards established under RCW 19.260.040, the
23 department shall: (a) Charge the manufacturer of the product for the
24 cost of product purchase and testing; and (b) make information
25 available to the public on products found not to be in compliance
26 with the standards.

27 (5) The department shall obtain in paper form the test methods
28 specified in RCW 19.260.040, which shall be available for public use
29 at the department's energy policy offices.

30 (6) The department shall investigate complaints received
31 concerning violations of this chapter. Any manufacturer or
32 distributor who violates this chapter shall be issued a warning by
33 the director of the department for any first violation. Repeat
34 violations are subject to a civil penalty of not more than two
35 hundred fifty dollars a day. Penalties assessed under this subsection
36 are in addition to costs assessed under subsection (4) of this
37 section.

38 (7) The department may adopt rules as necessary to ensure the
39 proper implementation and enforcement of this chapter.

1 (8) The proceedings relating to this chapter are governed by the
2 administrative procedure act, chapter 34.05 RCW.

3 NEW SECTION. **Sec. 8.** RCW 19.27.170 (Water conservation
4 performance standards—Testing and identifying fixtures that meet
5 standards—Marking and labeling fixtures) and 1991 c 347 s 16 & 1989 c
6 348 s 8 are each repealed.

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