

ESHB 2758 - S COMM AMD

By Committee on Water, Energy & Telecommunications

1 Strike everything after the enacting clause and insert the
2 following:

3 "Sec. 1. RCW 19.260.030 and 2006 c 194 s 2 are each amended to
4 read as follows:

5 (1) This chapter applies to the following types of new products
6 sold, offered for sale, or installed in the state: (a) Automatic
7 commercial ice cube machines; (b) commercial clothes washers; (c)
8 (~~commercial prerinse spray valves; (d)~~) commercial refrigerators and
9 freezers; (~~((e) metal halide lamp fixtures; (f))~~) (d) single-voltage
10 external AC to DC power supplies; ((+g)) (e) state-regulated
11 incandescent reflector lamps; ((and (h)) (f) unit heaters; (g) wine
12 chillers for use by an individual; (h) illumination of remote reach-in
13 cabinets, cabinets without doors, and wine chillers that are not
14 consumer products; (i) hot water dispensers and minitank electric water
15 heaters; (j) bottle-type water dispensers and point-of-use water
16 dispensers; (k) pool heaters, residential pool pumps, and portable
17 electric spas; (l) tub spout diverters; and (m) commercial hot food
18 holding cabinets. This chapter applies equally to products whether
19 they are sold, offered for sale, or installed as a stand-alone product
20 or as a component of another product.

21 (2) This chapter does not apply to (a) new products manufactured in
22 the state and sold outside the state, (b) new products manufactured
23 outside the state and sold at wholesale inside the state for final
24 retail sale and installation outside the state, (c) products installed
25 in mobile manufactured homes at the time of construction, or (d)
26 products designed expressly for installation and use in recreational
27 vehicles.

28 **Sec. 2.** RCW 19.260.040 and 2006 c 194 s 3 are each amended to read
29 as follows:

1 The legislature establishes the following minimum efficiency
 2 standards for the types of new products set forth in RCW 19.260.030.

3 (1)(a) Automatic commercial ice cube machines must have daily
 4 energy use and daily water use no greater than the applicable values in
 5 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.

23 "Maximum 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 ARI 810-2003 test method as
 26 published by the air-conditioning and refrigeration institute. Ice-
 27 making heads include all automatic commercial ice cube machines that
 28 are not split system ice makers or self-contained models as defined in
 29 ARI 810-2003.

30 (2) Commercial clothes washers must have a minimum modified energy
 31 factor of 1.26. For the purposes of this section, capacity and
 32 modified energy factor are defined and measured in accordance with the
 33 current federal test method for clothes washers as found at 10 C.F.R.
 34 Sec. 430.23.

35 (3) (~~Commercial prerinse spray valves must have a flow rate equal~~)

1 ~~to or less than 1.6 gallons per minute when measured in accordance with~~
 2 ~~the American society for testing and materials' "Standard Test Method~~
 3 ~~for Prerinse Spray Valves," ASTM F2324-03.~~

4 (4)) (a) Commercial refrigerators and freezers must meet the
 5 applicable requirements listed in the following table:

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

17 kWh= kilowatt hours

18 V= total volume (ft³)

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

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

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

1 ~~((5)) Metal halide lamp fixtures designed to be operated with lamps~~
2 ~~rated greater than or equal to 150 watts but less than or equal to 500~~
3 ~~watts shall not contain a probe start metal halide lamp ballast.~~

4 ~~(6))~~ (4)(a) Single-voltage external AC to DC power supplies shall
5 meet the requirements in the following table:

Nameplate output	Minimum Efficiency in Active Mode
< 1 Watt	0.49 * Nameplate Output
> or= 1 Watt and < or= 49 Watts	0.09 * Ln (Nameplate Output)+ 0.49
> 49 Watts	0.84
	Maximum Energy Consumption in No-Load Mode
< 10 Watts	0.5 Watts
> or= 10 Watts and < or= 250 Watts	0.75 Watts

13 Where Ln (Nameplate Output) - Natural Logarithm of the nameplate output expressed in Watts

14 (b) For the purposes of this section, efficiency of single-voltage
15 external AC to DC power supplies shall be measured in accordance with
16 the United States environmental protection agency's "Test Method for
17 Calculating the Energy Efficiency of Single-Voltage External AC to DC
18 and AC to AC Power Supplies," by Ecos Consulting and Power Electronics
19 Application Center, dated August 11, 2004.

20 ~~((7))~~ (5)(a) The lamp electrical power input of state-regulated
21 incandescent reflector lamps shall meet the minimum average lamp
22 efficacy requirements for federally regulated incandescent reflector
23 lamps contained in 42 U.S.C. Sec. 6295(i)(1)(A)-(B).

24 (b) The following types of incandescent lamps are exempt from these
25 requirements:

26 (i) Lamps rated at fifty watts or less of the following types: BR
27 30, ER 30, BR 40, and ER 40;

28 (ii) Lamps rated at sixty-five watts of the following types: BR
29 30, BR 40, and ER 40; and

30 (iii) R 20 lamps of forty-five watts or less.

31 ~~((8))~~ (6) Unit heaters must be equipped with intermittent
32 ignition devices and must have either power venting or an automatic
33 flue damper.

34 (7) Wine chillers designed and sold for use by an individual must
35 not exceed the applicable requirements listed in the following table:

<u>Equipment Type</u>	<u>Maximum Annual Appliance Energy Consumption (kWh)</u>
<u>Wine chillers with manual defrost</u>	<u>13.7V + 267</u>
<u>Wine chillers with automatic defrost</u>	<u>17.4V + 344</u>

V = volume in ft³.

(8) The internal illumination of the following appliances, manufactured on or after January 1, 2009, shall be only by (a) T-8 fluorescent lamps with electronic ballasts, or (b) a lighting system that has no fewer lumens per watt than a system using only T-8 fluorescent lamps with electronic ballasts:

(i) Remote reach-in cabinets with transparent doors, remote pass-through cabinets with transparent doors, and remote roll-in or roll-through cabinets with transparent doors;

(ii) Cabinets without doors; and

(iii) Wine chillers that are not consumer products.

(9) The standby energy consumption of bottle-type water dispensers, and point-of-use water dispensers, dispensing both hot and cold water, manufactured on or after January 1, 2009, shall not exceed 1.2 kWh/day.

(10)(a) The standby loss of hot water dispensers and minitank electric water heaters manufactured on or after January 1, 2009, shall be not greater than 35 watts.

(b) This subsection does not apply to any water heater:

(i) That is within the scope of 42 U.S.C. Sec. 6292(a)(4) or 6311(1)(F);

(ii) That has a rated storage volume of less than 20 gallons; and

(iii) For which there is no federal test method applicable to that type of water heater.

(11) The following standards are established for pool heaters, residential pool pumps, and portable electric spas:

(a) Natural gas pool heaters shall not be equipped with constant burning pilots.

(b) Pool pump motors shall meet the following standards:

(i) Pool pump motors manufactured on or after January 1, 2009, may not be split-phase or capacitor start -- induction run type.

1 (ii) Pool pump motors with a capacity of 1 HP or more which are
2 manufactured on or after January 1, 2009, shall have the capability of
3 operating at two or more speeds with a low speed having a rotation rate
4 that is no more than one-half of the motor's maximum rotation rate.

5 (iii) Pool pump motor controls manufactured on or after January 1,
6 2009, shall have the capability of operating the pool pump at at least
7 two speeds. The default circulation speed shall be the lowest speed,
8 with a high speed override capability being for a temporary period not
9 to exceed one normal cycle.

10 (c) The standby power of portable electric spas manufactured on or
11 after January 1, 2009, shall be not greater than $5(V^{2/3})$ watts where V
12 = the total volume, in gallons.

13 (12)(a) The leakage rate of tub spout diverters shall be no greater
14 than the applicable requirements shown in the following table:

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

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19 (b) Showerhead-tub spout diverter combinations shall meet both the
20 standard for showerheads and the standard for tub spout diverters.

21 (13) The idle energy rate of commercial hot food holding cabinets
22 manufactured on or after January 1, 2009, shall be no greater than 40
23 watts per cubic foot of measured interior volume.

24 **Sec. 3.** RCW 19.260.050 and 2006 c 194 s 4 are each amended to read
25 as follows:

26 (1) No new (~~commercial prerinse spray valve,~~) commercial clothes
27 washer, commercial refrigerator or freezer, state-regulated
28 incandescent reflector lamp, or unit heater manufactured on or after
29 January 1, 2007, may be sold or offered for sale in the state unless
30 the efficiency of the new product meets or exceeds the efficiency
31 standards set forth in RCW 19.260.040. No new automatic commercial ice
32 cube machine(~~(,)~~) or single-voltage external AC to DC power supply,
33 (~~or metal halide lamp fixtures~~) manufactured on or after January 1,

1 2008, may be sold or offered for sale in the state unless the
2 efficiency of the new product meets or exceeds the efficiency standards
3 set forth in RCW 19.260.040.

4 (2) On or after January 1, 2008, no new (~~commercial prerinse spray~~
5 ~~valve,~~) commercial clothes washer, commercial refrigerator or freezer,
6 single-voltage external AC to DC power supply, state-regulated
7 incandescent reflector lamp, or unit heater manufactured on or after
8 January 1, 2007, may be installed for compensation in the state unless
9 the efficiency of the new product meets or exceeds the efficiency
10 standards set forth in RCW 19.260.040. On or after January 1, 2009, no
11 new automatic commercial ice cube machine (~~or metal halide lamp~~
12 ~~fixtures~~) manufactured on or after January 1, 2008, may be installed
13 for compensation in the state unless the efficiency of the new product
14 meets or exceeds the efficiency standards set forth in RCW 19.260.040.

15 (3) Standards for (~~metal halide lamp fixtures and~~) state-
16 regulated incandescent reflector lamps are effective on the dates in
17 subsections (1) and (2) of this section.

18 (4) The following products, if manufactured on or after January 1,
19 2009, may not be sold or offered in the state unless the efficiency of
20 the new product meets or exceeds the efficiency standards set forth in
21 RCW 19.260.040:

- 22 (a) Wine chillers for use by an individual;
- 23 (b) Illumination of remote reach-in cabinets, cabinets without
24 doors, and wine chillers that are not consumer products;
- 25 (c) Hot water dispensers and minitank electric water heaters;
- 26 (d) Bottle-type water dispensers and point-of-use water dispensers;
- 27 (e) Pool heaters, residential pool pumps, and portable electric
28 spas;
- 29 (f) Tub spout diverters; and
- 30 (g) Commercial hot food holding cabinets.

31 (5) The following products, if manufactured on or after January 1,
32 2009, may not be installed for compensation in the state on or after
33 January 1, 2010, unless the efficiency of the new product meets or
34 exceeds the efficiency standards set forth in RCW 19.260.040:

- 35 (a) Wine chillers for use by an individual;
- 36 (b) Illumination of remote reach-in cabinets, cabinets without
37 doors, and wine chillers that are not consumer products;
- 38 (c) Hot water dispensers and minitank electric water heaters;

- 1 (d) Bottle-type water dispensers and point-of-use water dispensers;
2 (e) Pool heaters, residential pool pumps, and portable electric
3 spas;
4 (f) Tub spout diverters; and
5 (g) Commercial hot food holding cabinets.

6 NEW SECTION. Sec. 4. A new section is added to chapter 19.260 RCW
7 to read as follows:

8 The energy policy division of the department of community, trade,
9 and economic development shall convene a work group with
10 representatives of the consumer electronics industry, energy efficiency
11 organizations, and other state and federal energy efficiency programs,
12 as deemed appropriate, to review and compare energy efficiency
13 standards and coverage of the federal energy star program and standards
14 and coverage adopted by California and Oregon to identify appropriate
15 standards and coverage to be adopted by Washington. The work group
16 shall report its findings and recommendations to appropriate committees
17 of the legislature by December 1, 2008."

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18 On page 1, line 1 of the title, after "code;" strike the remainder
19 of the title and insert "amending RCW 19.260.030, 19.260.040, and
20 19.260.050; and adding a new section to chapter 19.260 RCW."

EFFECT: Deletes provision directing CTED Energy Policy Division to
adopt standards for new consumer audio and video equipment consistent
with standards adopted by West Coast states. Directs Energy Policy
Division to convene work group with representatives of consumer
electronics industry, energy efficiency organizations, and other state
and federal energy efficiency programs, as deemed appropriate, to

review and compare federal Energy Star program standards and coverage and California and Oregon standards and coverage to identify appropriate standards and coverage for Washington. Work group will report to Legislature by December 1, 2008.

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