

1.6 of Appendix C to this subpart, in kilowatt-hours and determined according to section 5.1 of Appendix C to this subpart,
 E_D = the drying energy consumption defined as energy consumed using the power-dry feature after the termination of the last rinse option of the normal cycle and determined according to section 5.2 of appendix C to this subpart.

(ii) When electrically-heated water (120 °F or 140 °F) is used,

(A) For dishwashers having a truncated normal cycle as defined in section 1.15 of appendix C to this subpart,

$$EAO C = (D_e \times S) + (D_e \times N \times (M - (E_D/2))) + (D_e \times N \times W)$$

(B) For dishwashers not having a truncated normal cycle,

$$EAO C = (D_e \times S) + (D_e \times N \times M) + (D_e \times N \times W)$$

Where,

D_e , S , N , M , and E_D , are defined in paragraph (c)(1)(i) of this section, and

W = the total water energy consumption per cycle for the normal cycle as defined in section 1.6 of Appendix C to this subpart, in kilowatt-hours per cycle and determined according to section 5.4 of Appendix C to this subpart.

(iii) When gas-heated or oil-heated water is used,

(A) For dishwashers having a truncated normal cycle as defined in section 1.15 of appendix C to this subpart,

$$EAO C_g = (D_e \times S) + (D_e \times N \times (M - (E_D/2))) + (D_g \times N \times W_g)$$

(B) For dishwashers not having a truncated normal cycle,

$$EAO C_g = (D_e \times S) + (D_e \times N \times M) + (D_g \times N \times W_g)$$

Where,

D_e , S , N , M , and E_D are defined in paragraph (c)(1)(i) of this section, D_g = the representative average unit cost of gas or oil, as appropriate, in dollars per Btu, as provided by the Secretary, and

W_g = the total water energy consumption per cycle for the normal cycle as defined in section 1.6 of appendix C to this subpart, in Btu's per cycle and determined according to section 5.5 of appendix C to this subpart.

(2) The energy factor for dishwashers, EF , expressed in cycles per kilowatt-hour is defined as follows:

(i) When cold water (50 °F) is used,

(A) For dishwashers having a truncated normal cycle as defined in section 1.15 of appendix C to this subpart,

$$EF = 1/(M - (E_D/2))$$

(B) For dishwashers not having a truncated normal cycle,

$$EF = 1/M$$

Where,

M , and E_D are defined in paragraph (c)(1)(i) of this section.

(ii) When electrically-heated water (120 °F or 140 °F) is used,

(A) For dishwashers having a truncated normal cycle as defined in section 1.15 of appendix C to this subpart,

$$EF = 1/(M - (E_D/2) + W)$$

(B) For dishwashers not having a truncated normal cycle,

$$EF = 1/(M + W)$$

Where,

M , and E_D are defined in paragraph (c)(1)(i) of this section, and W is defined in paragraph (c)(1)(ii) of this section.

(3) The estimated annual energy use, $EAEU$, expressed in kilowatt-hours per year is defined as follows:

(i) For dishwashers having a truncated normal cycle as defined in section 1.15 of appendix C to this subpart,

$$EAEU = (M - (E_D/2) + W) \times N + S$$

Where,

M , E_D , N and S are defined in paragraph (c)(1)(i) of this section, and W is defined in paragraph (c)(1)(ii) of this section.

(ii) For dishwashers not having a truncated normal cycle,

$$EAEU = (M + W) \times N + S$$

Where,

M , N and S are defined in paragraph (c)(1)(i) of this section, and W is defined in paragraph (c)(1)(ii) of this section.

(4) Other useful measures of energy consumption for dishwashers are those which the Secretary determines are likely to assist consumers in making purchasing decisions and which are derived from the application of appendix C to this subpart.

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■ 4. Appendix C to subpart B of part 430 is revised to read as follows:

Appendix C to Subpart B of Part 430—Uniform Test Method for Measuring the Energy Consumption of Dishwashers

The provisions of this Appendix C shall apply to products manufactured after September 29, 2003. The restriction on representations concerning energy use or efficiency in 42 U.S.C. 6293(c)(2) shall apply on February 25, 2004.

1. Definitions

1.1 “AHAM” means the Association of Home Appliance Manufacturers.

1.2 “Compact dishwasher” means a dishwasher that has a capacity of less than eight place settings plus six serving pieces as specified in ANSI/AHAM DW-1 (see § 430.22), using the test load specified in section 2.7 of this Appendix.

1.3 “Cycle” means a sequence of operations of a dishwasher which performs a complete dishwashing function, and may include variations or combinations of washing, rinsing, and drying.

1.4 “Cycle type” means any complete sequence of operations capable of being preset on the dishwasher prior to the initiation of machine operation.

1.5 “Non-soil-sensing dishwasher” means a dishwasher that does not have the ability to adjust automatically any energy consuming aspect of a wash cycle based on the soil load of the dishes.

1.6 “Normal cycle” means the cycle type recommended by the manufacturer for completely washing a full load of normally soiled dishes including the power-dry feature.

1.7 “Power-dry feature” means the introduction of electrically generated heat into the washing chamber for the purpose of improving the drying performance of the dishwasher.

1.8 “Preconditioning cycle” means any cycle that includes a fill, circulation, and drain to ensure that the water lines and sump area of the pump are primed.

1.9 “Sensor heavy response” means, for standard dishwashers, the set of operations in a soil-sensing dishwasher for completely washing a load of dishes, four place settings of which are soiled according to ANSI/AHAM DW-1 (Incorporated by reference, see § 430.22). For compact dishwashers, this definition is the same, except that two soiled place settings are used instead of four.

1.10 “Sensor light response” means, for both standard and compact dishwashers, the set of operations in a soil-sensing dishwasher for completely washing a load of dishes, one place setting of which is soiled with half of the gram weight of soils for each item specified in a single place setting according to ANSI/AHAM DW-1 (Incorporated by reference, see § 430.22).

1.11 “Sensor medium response” means, for standard dishwashers, the set of operations in a soil-sensing dishwasher for completely washing a load of dishes, two place settings of which are soiled according to ANSI/AHAM DW-1 (Incorporated by reference, see § 430.22). For compact dishwashers, this definition is the same, except that one soiled place setting is used instead of two.

1.12 “Soil-sensing dishwasher” means a dishwasher that has the ability to adjust any energy consuming aspect of a wash cycle based on the soil load of the dishes.

1.13 “Standard dishwasher” means a dishwasher that has a capacity equal to or greater than eight place settings plus six serving pieces as specified in ANSI/AHAM DW-1 (Incorporated by reference, see § 430.22), using the test load specified in section 2.7 of this Appendix.

1.14 “Standby mode” means the lowest power consumption mode which cannot be switched off or influenced by the user and