

• Compatible Indoor Units For Above Listed Outdoor Units:

○ FXAQ Series wall mounted indoor units with nominally rated capacities of 7,000, 9,000, 12,000, 18,000 and 24,000 Btu/hr.

○ FXLQ Series floor mounted indoor units with nominally rated capacities of 12,000, 18,000 and 24,000 Btu/hr.

○ FXNQ Series concealed floor mounted indoor units with nominally rated capacities of 12,000, 18,000 and 24,000 Btu/hr.

○ FXDQ Series low static ducted indoor units with nominally rated capacities of 7,000, 9,000, 12,000, 18,000 and 24,000 Btu/hr.

○ FXSQ Series medium static ducted indoor units with nominally rated capacities of 7,000, 9,000, 12,000, 18,000, 24,000, 30,000, 36,000 and 48,000 Btu/hr.

○ FXMQ-M Series high static ducted indoor units with nominally rated capacities of 30,000, 36,000, 48,000, 72,000 and 96,000 Btu/hr.

○ FXMQ-P Series high static ducted indoor units with nominally rated capacities of 7,000, 9,000, 12,000, 18,000, 24,000, 30,000, 36,000 and 48,000 Btu/hr.

○ FXMQ-MF Series Outdoor Air Processing indoor units with nominally rated capacities of 48,000, 72,000 and 96,000 Btu/hr.

○ FXTQ-P Series Vertical Air Handler indoor units with nominally rated capacities of 12,000, 18,000, 24,000, 30,000, 36,000, 42,000, 48,000 and 54,000 Btu/hr.

○ FXZQ Series recessed cassette indoor units with nominally rated capacities of 7,000, 9,000, 12,000, 18,000 and 24,000 Btu/hr.

○ FXFQ Series recessed cassette indoor units with nominally rated capacities of 12,000, 18,000, 24,000, 30,000 and 36,000 Btu/hr.

○ FXHQ Series ceiling suspended indoor units with nominally rated capacities of 12,000, 24,000 and 36,000 Btu/hr.

(3) *Alternate test procedure.*

(A) Daikin is required to test the products listed in paragraph (2) above according to the test procedure for central air conditioners and heat pumps prescribed by DOE at 10 CFR part 431 (ISO Standard 13256-1 (1998)) (incorporated by reference in 10 CFR 431.95(b)(3)), except that Daikin shall test a tested combination selected in accordance with the provisions of subparagraph (3)(B). For every other system combination using the same outdoor unit as the tested combination, Daikin shall make representations concerning the VRV-WIII products

covered in this waiver according to the provisions of subparagraph (C) below.

(B) *Tested combination.* The term tested combination means a sample basic model comprised of units that are production units, or are representative of production units, of the basic model being tested. For the purposes of this waiver, the tested combination shall have the following features:

(i) The basic model of a variable refrigerant flow system used as a tested combination shall consist of an outdoor unit that is matched with between two and five indoor units. For multi-split systems, each of these indoor units shall be designed for individual operation.

(ii) The indoor units shall:

(a) Represent the highest sales model family, or another indoor model family if the highest sales model family does not provide sufficient capacity (*see b*);

(b) Together, have a nominal cooling capacity that is between 95 percent and 105 percent of the nominal cooling capacity of the outdoor unit;

(c) Not, individually, have a nominal cooling capacity greater than 50 percent of the nominal cooling capacity of the outdoor unit;

(d) Operate at fan speeds that are consistent with the manufacturer's specifications; and

(e) Be subject to the same minimum external static pressure requirement.

(C) *Representations.* In making representations about the energy efficiency of its VRV-WIII multi-split products, for compliance, marketing, or other purposes, Daikin must fairly disclose the results of testing under the DOE test procedure in a manner consistent with the provisions outlined below:

(i) For VRV-WIII multi-split combinations tested in accordance with this alternate test procedure, Daikin may make representations based on these test results.

(ii) For VRV-WIII multi-split combinations that are not tested, Daikin may make representations based on the testing results for the tested combination and that are consistent with either of the two following methods:

(a) Representation of non-tested combinations according to an alternative rating method approved by DOE; or

(b) Representation of non-tested combinations at the same energy efficiency level as the tested combination with the same outdoor unit.

(4) This waiver shall remain in effect from the date this order is issued, consistent with the provisions of 10 CFR 431.401(g).

(5) This waiver is issued on the condition that the statements, representations, and documentary materials provided by the petitioner are valid. DOE may revoke or modify the waiver at any time if it determines that the factual basis underlying the Petition for Waiver is incorrect, or the results from the alternate test procedure are unrepresentative of the basic models' true energy consumption characteristics.

Issued in Washington, DC on April 22, 2010.

Cathy Zoi,

Assistant Secretary, Energy Efficiency and Renewable Energy.

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DEPARTMENT OF ENERGY

Office of Energy Efficiency and Renewable Energy

[Case No. RF-012]

Energy Conservation Program for Consumer Products: Decision and Order Granting a Waiver to Electrolux Home Products, Inc. From the Department of Energy Residential Refrigerator and Refrigerator-Freezer Test Procedure

AGENCY: Office of Energy Efficiency and Renewable Energy, Department of Energy.

ACTION: Decision and order.

SUMMARY: The U.S. Department of Energy (DOE) gives notice of the decision and order (Case No. RF-012) that grants to Electrolux Home Products, Inc. (Electrolux) a waiver from the DOE electric refrigerator and refrigerator-freezer test procedure for certain basic models containing relative humidity sensors and adaptive control anti-sweat heaters. Under today's decision and order, Electrolux shall be required to test and rate its refrigerator-freezers with adaptive control anti-sweat heaters using an alternate test procedure that takes this technology into account when measuring energy consumption.

DATES: This Decision and Order is effective April 29, 2010.

FOR FURTHER INFORMATION CONTACT: Dr. Michael G. Raymond, U.S. Department of Energy, Building Technologies Program, Mailstop EE-2J, 1000 Independence Avenue, SW., Washington, DC 20585-0121. Telephone: (202) 586-9611, *E-mail:* AS_Waiver_Requests@ee.doe.gov. Betsy Kohl, U.S. Department of Energy, Office of the General Counsel, Mail Stop GC-71, 1000 Independence Avenue, SW.,

Washington, DC 20585–0103, (202) 586–9507, E-mail:

Elizabeth.Kohl@hq.doe.gov.

SUPPLEMENTARY INFORMATION: In accordance with Title 10 of the Code of Federal Regulations (10 CFR) 430.27(l), DOE gives notice of the issuance of its decision and order as set forth below. The decision and order grants Electrolux a waiver from the applicable residential refrigerator and refrigerator-freezer test procedures in 10 CFR part 430, subpart B, appendix A1 for certain basic models of refrigerator-freezers with relative humidity sensors and adaptive control anti-sweat heaters, provided that Electrolux tests and rates such products using the alternate test procedure described in this notice. Today's decision prohibits Electrolux from making representations concerning the energy efficiency of these products unless the product has been tested consistent with the provisions and restrictions in the alternate test procedure set forth in the decision and order below, and the representations fairly disclose the test results. Distributors, retailers, and private labelers are held to the same standard when making representations regarding the energy efficiency of these products. 42 U.S.C. 6293(c).

Issued in Washington, DC, on April 22, 2010.

Cathy Zoi,

Assistant Secretary, Energy Efficiency and Renewable Energy.

Decision and Order

In the Matter of: Electrolux Home Products, Inc. (Case No. RF–012).

Background

Title III of the Energy Policy and Conservation Act (EPCA) sets forth a variety of provisions concerning energy efficiency. Part A of Title III provides for the “Energy Conservation Program for Consumer Products Other Than Automobiles.” 42 U.S.C. 6291–6309. Part A includes definitions, test procedures, labeling provisions, energy conservation standards, and the authority to require information and reports from manufacturers. Further, Part A authorizes the Secretary of Energy to prescribe test procedures that are reasonably designed to produce results that measure energy efficiency, energy use, or estimated operating costs, and that are not unduly burdensome to conduct. *Id.* § 6293(b)(3).

Today's notice involves residential products under Part A. The test procedure for residential electric refrigerator-freezers relevant to the current petition for waiver is contained

in 10 CFR part 430, subpart B, appendix A1.

DOE's regulations contain provisions allowing a person to seek a waiver from the test procedure requirements for covered consumer products when (1) the petitioner's basic model contains one or more design characteristics that prevent testing according to the prescribed test procedure, or (2) when prescribed test procedures may evaluate the basic model in a manner so unrepresentative of its true energy consumption characteristics as to provide materially inaccurate comparative data. 10 CFR 430.27(a)(1). Petitioners must include in their petition any alternate test procedures known to the petitioner to evaluate the basic model in a manner representative of its energy consumption characteristics. § 430.27(b)(1)(iii).

The Assistant Secretary for Energy Efficiency and Renewable Energy (the Assistant Secretary) may grant a waiver subject to conditions, including adherence to alternate test procedures. § 430.27(l). Waivers remain in effect pursuant to the provisions of 10 CFR 430.27(m).

The waiver process also allows any interested person who has submitted a petition for waiver to file an application for interim waiver of the applicable test procedure requirements. § 430.27(a)(2). The Assistant Secretary will grant an interim waiver request if it is determined that the applicant will experience economic hardship if the interim waiver is denied, if it appears likely that the petition for waiver will be granted, and/or the Assistant Secretary determines that it would be desirable for public policy reasons to grant immediate relief pending a determination on the petition for waiver. § 430.27(g).

On November 6, 2008, Electrolux filed a petition for waiver from the test procedures applicable to residential refrigerators and refrigerator-freezers. Electrolux's petition was published in the **Federal Register** on June 4, 2009. 74 FR 26853. In that notice, DOE announced its grant of an interim waiver to Electrolux, and expanded that waiver to include four additional models after receiving supplemental information from the company. On July 13, 2009, Electrolux filed a petition for waiver for additional, similar models of residential refrigerators and refrigerator-freezers. Electrolux's petition was published in the **Federal Register** on December 15, 2009. *Id.* at 66344. In the same **Federal Register** notice, DOE extended the June 4, 2009, interim waiver to these additional models.

On December 4, 2009, Electrolux filed a third petition for waiver from the test procedure applicable to residential electric refrigerators and refrigerator-freezers set forth in 10 CFR part 430, subpart B, appendix A1. All three Electrolux petitions pertain to new refrigerators and refrigerator-freezers that contain variable anti-sweat heater controls. These controls detect a broad range of temperature and humidity conditions and respond by activating adaptive heaters, as needed, to evaporate excess moisture. According to the petitioner, Electrolux's technology is similar to that used by General Electric Company (GE) and Whirlpool Corporation (Whirlpool) for refrigerator-freezers which were the subject of petitions for waiver published April 17, 2007 (72 FR 19189) and July 10, 2008 (73 FR 39684), respectively. GE's waiver was granted on February 27, 2008 (73 FR 10425). Whirlpool's waiver was granted on May 5, 2009 (74 FR 20695). DOE granted the first two Electrolux waivers on December 15, 2009 (74 FR 66338), and March 11, 2010 (75 FR 11530).

Assertions and Determinations

Electrolux's Petition for Waiver

In its December 2009 petition, Electrolux sought a waiver from the existing DOE test procedure applicable to refrigerators and refrigerator-freezers under 10 CFR part 430 because it takes neither ambient humidity nor adaptive technology into account. Electrolux sought similar waivers in its July and November 2009 petitions, which were granted. Electrolux asserts these new products are identical in function and operation to the basic models listed in Electrolux's earlier petitions with respect to the properties that made those products eligible for a waiver. DOE did not receive any comments on the Electrolux petition.

Electrolux requested it be permitted to use the same alternate test procedure DOE prescribed for GE, Whirlpool and Electrolux refrigerators and refrigerator-freezers equipped with a similar technology. The alternate test procedure applicable to the GE, Whirlpool and Electrolux products simulates the energy used by the adaptive heaters in a typical consumer household, as explained in the GE decision and order referenced above. As DOE has stated in the past, it is in the public interest to have similar products tested and rated for energy consumption on a comparable basis.

Consultations With Other Agencies

DOE consulted with the Federal Trade Commission (FTC) staff concerning the Electrolux petition for waiver. The FTC staff did not have any objections to granting a waiver to Electrolux.

CRS23***
CRS26***
FFHS23***
FFUS23***
FGHS23***
FGUS23***
FPHS23***
FPUS23***
EI23SS***
EW23SS***
FFHC23***

FFCU23***
FGHC23***
FGCU23***
FPHC23***
FPCU23***
FFSC23***
EI23CS***
EW23CS***
E23CS***
FFHS26***
FFUS26***

FGHS26***
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FPUS26***
EI26SS***
EW26SS***
FGHF23***
FGUB23***
FPHF23***
FPUB23***
FGHN23***

FGUN23***
FPHN23***
FPUN23***
EI23BC***
EW23BC***
E23BC***
FFHB26***
FFUB26***
FFHN26***
FFUN26***
EI26BS***

FGHB28***
FGUB28***
FPHB28***
FPUB28***
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FPHN28***
FPUN28***
EI28BS***
EW28BS***

(3) Electrolux shall be required to test the products listed in paragraph (2) above according to the test procedures for electric refrigerator-freezers prescribed by DOE at 10 CFR part 430, appendix A1, except that, for the Electrolux products listed in paragraph (2) only:

(A) The following definition is added at the end of Section 1:

1.13 Variable anti-sweat heater control means an anti-sweat heater where power supplied to the device is determined by an operating condition variable(s) and/or ambient condition variable(s).

(B) Section 2.2 is revised to read as follows:

2.2 Operational conditions. The electric refrigerator or electric refrigerator-freezer shall be installed and its operating conditions maintained in accordance with HRF-1-1979, section 7.2 through section 7.4.3.3, except that the vertical ambient temperature gradient at locations 10 inches (25.4 cm) out from the centers of the two sides of the unit being tested is to be maintained during the test. Unless shields or baffles obstruct the area, the gradient is to be maintained from 2 inches (5.1 cm) above the floor or supporting platform to a height 1 foot (30.5 cm) above the unit under test. Defrost controls are to be operative. The anti-sweat heater switch is to be off during one test and on during the second test. In the case of an electric refrigerator-freezer equipped with variable anti-sweat heater control, the result of the second test will be derived by performing the calculation described in 6.2.3. Other exceptions are noted in 2.3, 2.4, and 5.1 below.

(C) New section 6.2.3 is inserted after section 6.2.2.2.

6.2.3 Variable anti-sweat heater control test. The energy consumption of an electric refrigerator-freezer with a variable anti-sweat heater control in the on position (E_{on}), expressed in kilowatt-hours per day, shall be calculated equivalent to:

Conclusion

After careful consideration of all the material that was submitted by Electrolux and consultation with the FTC staff, it is ordered that:

(1) The petition for waiver submitted by Electrolux Home Products, Inc. (Case No. RF-012) is hereby granted as set forth in the paragraphs below.

$E_{ON} = E + (\text{Correction Factor})$

where E is determined by sections 6.2.1.1, 6.2.1.2, 6.2.2.1, or 6.2.2.2, whichever is appropriate, with the anti-sweat heater switch in the off position.

Correction Factor = (Anti-sweat Heater Power × System-loss Factor) × (24 hrs/1 day) × (1 kW/1000 W)

Where:

Anti-sweat Heater Power = A1 * (Heater Watts at 5%RH)
+ A2 * (Heater Watts at 15%RH)
+ A3 * (Heater Watts at 25%RH)
+ A4 * (Heater Watts at 35%RH)
+ A5 * (Heater Watts at 45%RH)
+ A6 * (Heater Watts at 55%RH)
+ A7 * (Heater Watts at 65%RH)
+ A8 * (Heater Watts at 75%RH)
+ A9 * (Heater Watts at 85%RH)
+ A10 * (Heater Watts at 95%RH)

Where A1-A10 are defined in the following table:

A1 = 0.034	A6 = 0.119
A2 = 0.211	A7 = 0.069
A3 = 0.204	A8 = 0.047
A4 = 0.166	A9 = 0.008
A5 = 0.126	A10 = 0.015

Heater Watts at a specific relative humidity = the nominal watts used by all heaters at that specific relative humidity, 72 °F ambient, and DOE reference temperatures of fresh food (FF) average temperature of 45 °F and freezer (FZ) average temperature of 5 °F. System-loss Factor = 1.3

(4) *Representations.* Electrolux may make representations about the energy use of its adaptive control anti-sweat heater refrigerator-freezer products for compliance, marketing, or other purposes only to the extent that such products have been tested in accordance with the provisions outlined above and such representations fairly disclose the results of such testing.

(5) This waiver shall remain in effect consistent with the provisions of 10 CFR 430.27(m).

(2) Electrolux shall not be required to test or rate the following Electrolux models on the basis of the current test procedures contained in 10 CFR part 430, subpart B, appendix A1. Instead, it shall be required to test and rate such products according to the alternate test procedure as set forth in paragraph (3) below:

(6) This waiver is issued on the condition that the statements, representations, and documentary materials provided by the petitioner are valid. DOE may revoke or modify this waiver at any time if it determines the factual basis underlying the petition for waiver is incorrect, or the results from the alternate test procedure are unrepresentative of the basic models' true energy consumption characteristics.

Issued in Washington, DC on April 22, 2010.

Cathy Zoi,
Assistant Secretary,
Energy Efficiency and Renewable Energy.

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DEPARTMENT OF ENERGY

Office of Energy Efficiency and Renewable Energy

[Case No. RF-015]

Energy Conservation Program for Consumer Products: Notice of Petition for Waiver of General Electric Company (GE) From the Department of Energy Residential Refrigerator and Refrigerator-Freezer Test Procedure

AGENCY: Office of Energy Efficiency and Renewable Energy, Department of Energy.

ACTION: Notice of petition for waiver and request for comments.

SUMMARY: This notice announces receipt of and publishes the GE petition for waiver (hereafter, "petition") from parts of the U.S. Department of Energy (DOE) test procedure for determining the energy consumption of electric refrigerators and refrigerator-freezers. Through this document, DOE is