

Recognition Criteria Refrigerator-Freezers

Scope

Included products. Full-size refrigerator-freezers are eligible for ENERGY STAR® Most Efficient recognition in 2015.

Excluded products. The following products are not eligible for ENERGY STAR Most Efficient recognition in 2015:

- Compact models. For products certified under Version 5.0: Any refrigerator or refrigerator-freezer with total volume less than 7.75 cubic feet (220 liters rated volume as determined in Appendix A of 10 CFR subpart B).
- Freezers. At the present time, freezers are not eligible for ENERGY STAR Most Efficient recognition.
- All-refrigerators. At the present time, all-refrigerators are not eligible for ENERGY STAR Most Efficient 2015 recognition.

Recognition Criteria

- 1) Product must be ENERGY STAR certified consistent with applicable ENERGY STAR Partner Commitments and the requirements set forth in the ENERGY STAR Program Requirements Product Specification for Residential Refrigerators and Freezers, Version 5.0. Product performance must be certified by a certification body recognized by the U.S. Environmental Protection Agency (EPA).
- 2) Product must use less than or equal to 637 kWh per year and be at least 15% more efficient than federal requirements (see table below), as determined by the ENERGY STAR specified federal test procedure.

Product Class		Maximum Annual Energy Use (kWh/year)
1	Refrigerator-freezers and refrigerators other than all-refrigerators with manual defrost.	$AV \le 65.6$, $E_{ann} \le 6.79*AV + 191.3$ $AV > 65.6$, $E_{ann} \le 637$
2	Refrigerator-freezers—partial automatic defrost.	$AV \le 65.6$, $E_{ann} \le 6.79*AV + 191.3$ $AV > 65.6$, $E_{ann} \le 637$
3	Refrigerator-freezers—automatic defrost with top- mounted freezer without an automatic icemaker.	$AV \le 63.9$, $E_{ann} \le 6.86*AV + 198.6$ $AV > 63.9$, $E_{ann} \le 637$
3-BI	Built-in refrigerator-freezer—automatic defrost with top- mounted freezer without an automatic icemaker	$AV \le 63.9$, $E_{ann} \le 6.86*AV + 198.6$ $AV > 63.9$, $E_{ann} \le 637$
31	Refrigerator-freezers—automatic defrost with top- mounted freezer with an automatic icemaker without through-the-door ice service.	AV ≤ 51.6, E _{ann} ≤ 6.86*AV + 282.6 AV > 51.6, E _{ann} ≤ 637
3I-BI	Built-in refrigerator-freezers—automatic defrost with top-mounted freezer with an automatic icemaker without through-the-door ice service.	AV ≤ 51.6, E _{ann} ≤ 6.86*AV + 282.6 AV > 51.6, E _{ann} ≤ 637
4	Refrigerator-freezers—automatic defrost with side- mounted freezer without an automatic icemaker.	$AV \le 53.0$, $E_{ann} \le 7.23*AV + 253.1$ $AV > 53.0$, $E_{ann} \le 637$
4-BI	Built-In Refrigerator-freezers—automatic defrost with side-mounted freezer without an automatic icemaker	$AV \le 53.0$, $E_{ann} \le 7.23*AV + 253.1$ $AV > 53.0$, $E_{ann} \le 637$

Built-In Refrigerator-freezers—automatic defrost with side-mounted freezer with an automatic icemaker without through-the-door ice service.	AV ≤ 41.4, E _{ann} ≤ 7.23*AV + 337.1 AV > 41.4, E _{ann} ≤ 637
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Product Class	Maximum Annual Energy Use (kWh/year)
Refrigerator-freezers—automatic defrost with bottom- mounted freezer without an automatic icemaker	$AV \le 48.8$, $E_{ann} \le 7.52*AV + 269.5$ $AV > 48.8$, $E_{ann} \le 637$
5-BI Built-In Refrigerator-freezers—automatic defrost with bottom-mounted freezer without an automatic icemake	AV \leq 48.8, E _{ann} \leq 7.52*AV + 269.5 AV > 48.8, E _{ann} \leq 637
Refrigerator-freezers—automatic defrost with bottom- mounted freezer with an automatic icemaker without through-the-door ice service	$AV \le 37.7$, $E_{ann} \le 7.52*AV + 353.5$ $AV > 37.7$, $E_{ann} \le 637$
Built-In Refrigerator-freezers—automatic defrost with bottom-mounted freezer with an automatic icemaker without through-the-door ice service	$AV \le 37.7$, $E_{ann} \le 7.52*AV + 353.5$ $AV > 37.7$, $E_{ann} \le 637$
A Refrigerator-freezers—automatic defrost with bottom- mounted freezer with through-the-door ice service	$AV \le 28.0$, $E_{ann} \le 7.86*AV + 416.7$ $AV > 28.0$, $E_{ann} \le 637$
Built-in refrigerator-freezer—automatic defrost with bottom-mounted freezer with through-the-door ice service	AV ≤ 28.0, E _{ann} ≤ 7.86*AV + 416.7 AV > 28.0, E _{ann} ≤ 637
Refrigerator-freezers—automatic defrost with top- mounted freezer with through-the-door ice service	AV < 41.5, E _{ann} ≤ 7.14*AV + 340.2 AV > 41.5, E _{ann} ≤ 637
Refrigerator-freezers—automatic defrost with side- mounted freezer with through-the-door ice service	$AV \le 35.3$, $E_{ann} \le 7.26*AV + 380.5$ $AV > 35.3$, $E_{ann} \le 637$
7-BI Built-in refrigerator-freezers—automatic defrost with side-mounted freezer with through-the-door ice service	AV \leq 35.3, E _{ann} \leq 7.26*AV + 380.5 AV > 35.3, E _{ann} \leq 637

Recognition Period

B, Appendix A.

EPA will add eligible models to the ENERGY STAR Most Efficient 2015 product list for refrigerators from January 1, 2015 through December 30, 2015. The ENERGY STAR Most Efficient 2015 designation may be used in association with models recognized during this period for as long as the model remains on the market.