



## Recognition Criteria Room Air Conditioners

### Scope

*Included products:* Room air conditioners are eligible for ENERGY STAR® Most Efficient recognition in 2024.

### 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 Room Air Conditioner in effect. Product performance must be certified by a certification body recognized by the U.S. Environmental Protection Agency (EPA).
  
- 2) Product must have a Combined Energy Efficiency Ratio (CEER) that equals or outperforms the amount specified in the table below as determined by the DOE test procedure 10 CFR 430, Subpart B, Appendix F or a DOE-approved test procedure waiver pursuant to 10 CFR Part 430.27.

Product Class	CEER (Btu/Wh)
1. Without reverse cycle, with louvered sides, and less than 6,000 Btu/h	14.85
2. Without reverse cycle, with louvered sides, and 6,000 to 7,999 Btu/h	14.85
3. Without reverse cycle, with louvered sides, and 8,000 to 13,999 Btu/h	16.0
4. Without reverse cycle, with louvered sides, and 14,000 to 19,999 Btu/h	16.0
5a. Without reverse cycle, with louvered sides, and 20,000 to 27,999 Btu/h	13.8
5b. Without reverse cycle, with louvered sides, and 28,000 Btu/h or more	13.2
6. Without reverse cycle, without louvered sides, and less than 6,000 Btu/h	13.5
7. Without reverse cycle, without louvered sides, and 6,000 to 7,999 Btu/h	13.5
8a. Without reverse cycle, without louvered sides, and 8,000 to 10,999 Btu/h	14.1
8b. Without reverse cycle, without louvered sides, and 11,000 to 13,999 Btu/h	13.9
9. Without reverse cycle, without louvered sides, and 14,000 to 19,999 Btu/h	13.7
10. Without reverse cycle, without louvered sides, and 20,000 Btu/h or more	13.8
11. With reverse cycle, with louvered sides, and less than 20,000 Btu/h	14.4
12. With reverse cycle, without louvered sides, and less than 14,000 Btu/h	13.7
13. With reverse cycle, with louvered sides, and 20,000 Btu/h or more	13.7
14. With reverse cycle, without louvered sides, and 14,000 Btu/h or more	12.8
15. Casement-Only	13.9
16. Casement-Slider	15.3

- 3) Product must have a sound pressure level at or below the sound level requirement of 45 dB(A) for the lowest operational mode<sup>1</sup> available demonstrated in accordance with an internationally recognized ISO or ANSI test procedure measuring sound pressure with any adjustments documented and submitted at the time of certification for each basic model.
- 4) Product with heating capability shall report the heating mode efficiency based on the TBD ENERGY STAR Heating Mode Test for Room Air Conditioners. Heating mode efficiency data must be submitted for each basic model.

### Recognition Period

EPA will add qualifying models to the ENERGY STAR Most Efficient 2024 product list for room air conditioners from January 1, 2024, through December 31, 2024. The ENERGY STAR Most Efficient 2024 designation may be used in association with models recognized during this period for as long as the model remains on the market.

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<sup>1</sup> Lowest operational mode means the compressor and fan are still in operation, but at the lowest cooling output level.