



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
AIR AND RADIATION

April 1, 2024

Dear ENERGY STAR® Room Air Conditioners Brand Owner Partners and Other Interested Stakeholders:

The U.S. Environmental Protection Agency (EPA) and U.S. Department of Energy (DOE) are announcing the release of [the Final Draft ENERGY STAR Test Method to Determine Room Air Conditioner Heating Mode Performance](#) and invite the public to submit comments to appliances@energystar.gov no later than **April 15, 2024**.

In response to the Draft 1 Test Procedure, the EPA received generally supportive comments from stakeholders with a few recommended changes. The EPA and the DOE have adjusted the Final Draft Test Procedure in response to the comments received; responses to comments can be found in note boxes throughout the Final Draft Test Procedure as well as in the accompanying [Draft 1 Comment Response Matrix](#). As a reminder, the development of this test procedure is being led by the DOE in advance of EPA adding a heating mode test requirement to the ENERGY STAR Room Air Conditioners specification at some point in the future. In the meantime, brand owner partners will be able to update their certification to include heating mode test results for ENERGY STAR reverse cycle models once the test procedure is final. The EPA plans to include the heating mode efficiency in the ENERGY STAR dataset.

Key elements of the Final Draft Test Procedure include:

- Definition of room heat pump types
 - Altered from mild, cool, cold climate, and other to Types 1-4
 - Removed the capacity ratios and efficiency requirements
- Clarification that supplemental test instructions may vary fan speed according to the test condition
- Addition of a simulated cut-out
- Added test conditions for both single-speed and variable-speed units with active defrost but have cut-in and cut-out temperatures above 17 °F
 - H_{2,int} test is now optional for all units to reduce overall test burden
- Meltwater required to be drained using an indoor or outdoor drain port, if possible, during tests
- Small non-substantive corrections and formatting adjustments to the equations

Comment Submittal:

The public is encouraged to provide written comments to the EPA and the DOE by **Monday, April 15, 2024**, to appliances@energystar.gov. As always, stakeholder engagement is a critical to the success of the ENERGY STAR program and the EPA and the DOE look forward to working with all parties to develop the ENERGY STAR Heating Mode Test Procedure for Room Air Conditioners.


As a reminder, all comments will be posted to the [ENERGY STAR Room Air Conditioner Version 5 Product Development webpage](#) unless the submitter requests otherwise their respective comments remain confidential.

Thank you for your continued support of the ENERGY STAR Program. If you have any questions or feedback, please direct them to Holly Tapani at the EPA, Tapani.Holly@epa.gov or 202-564-0679, Steve Leybourn at the EPA, Leybourn.Stephen@epa.gov or 202-934-2262, and Megan McNelly at ICF, Megan.McNelly@icf.com or 703-934-3726. For test procedure questions, please contact Lucas Adin at the DOE, lucas.adin@ee.doe.gov.

Sincerely,



Holly Tapani
U.S. Environmental Protection Agency
ENERGY STAR HVAC Program



Steve Leybourn
U.S. Environmental Protection Agency
ENERGY STAR Appliances Program

Enclosures:

[Final Draft ENERGY STAR Test Method to Determine Room Air Conditioner Heating Mode Performance](#)
[ENERGY STAR Draft 1 Test Method to Determine Room Air Conditioner Heating Mode Performance](#)
[Comment Response Matrix](#)