

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



OFFICE OF
AIR AND RADIATION

May 12, 2022

Dear ENERGY STAR® Room Air Cleaner Partner or Other Interested Stakeholder,

This letter serves to inform stakeholders that the U.S. Environmental Protection Agency (EPA) has updated the [ENERGY STAR Version 2.0 Room Air Cleaners Specification](#). This update, which takes effect upon publication of this letter, adds a testing option for purposes of dust and pollen Clean Air Delivery Rate (CADR) reporting. Specifically, for reporting measured dust CADR and pollen CADR performance values, the average of tests on three units of the same model may be used. No changes have been made to testing and reporting of results for smoke CADR performance. The revised text adding this testing option is highlighted below.

5.3 Number of Units Required for Testing

5.3.1 Representative Models shall be selected for testing per the following requirements:

- i. For certification of an individual product model, the Representative Model shall be equivalent to that which is intended to be marketed and labeled as ENERGY STAR. Because of the inherent statistical variance in counting low density particulate matter particles, manufacturers have the option of testing the unit three times, each time with a new filter. The measured performance (or mean of measured performance) of this unit and of all units sold must be equal to or better than the ENERGY STAR specification requirements:

$$\text{CADR}_{\text{Test}} (\text{CADR}_{\text{Test Mean}}) \geq \text{ENERGY STAR CADR Criteria}$$

$$\text{Measured Ozone}_{\text{Test}} (\text{Measured Ozone}_{\text{Test Mean}}) \leq \text{ENERGY STAR Ozone Criteria}$$

$$\text{Measured Partial On Mode Power}_{\text{Test}} (\text{Measured Partial On Mode Power}_{\text{Test Mean}}) \leq \text{ENERGY STAR Maximum Partial On Mode Power Criteria}$$

- ii. For certification of a Product Family, any model within that Product Family can be tested and serve as the Representative Model. Any subsequent testing failures (e.g., as part of verification testing) of any model in the family will have implications for all models in the family.

5.3.2 A single unit of each Representative Model shall be selected for testing.

[5.3.3 For purposes of reporting the measured dust CADR and pollen CADR, as an alternative to 5.3.1 and 5.3.2, manufacturers may choose to provide the average CADR results from testing three units of the Representative Model.](#)

In addition, EPA added a clarifying statement to the requirement for ozone emitting models. This clarification explicitly allows the use of test results from a Nationally Recognized Test Laboratory (NRTL) measured per UL 867 Ed. 5.0 to be used to confirm that a model meets this requirement to prevent the need for retesting ozone emissions.

3.2.1 **UL Safety Requirements for Ozone Emitting Models:** To certify for ENERGY STAR, measured ozone, per UL 867 Ed. 5.0, shall not exceed 50 parts per billion (ppb). [Test results from a Nationally Recognized Testing Laboratory \(NRTL\) measured per UL 867 Ed. 5.0 can be used to confirm this requirement.](#)

These updates do not impact models currently certified as ENERGY STAR. The updated specification and related materials are available on the [ENERGY STAR Room Air Cleaners Version 2.0 Specification Development webpage](#).

Please contact Park.Ga-Young@epa.gov or (202) 564-1085, or Emmy Feldman, ICF, at Emmy.Feldman@icf.com or (202) 862-1145, with any questions or concerns about the specification. For any other questions pertaining to Room Air Cleaners, please contact roomaircleaners@energystar.gov.

Thank you for your continued support of the ENERGY STAR program.

Best Regards,

A handwritten signature in blue ink that reads "Ga-Young Park". The signature is written in a cursive, flowing style.

Ga-Young Park
ENERGY STAR for Room Air Cleaners

Enclosures:

[ENERGY STAR Room Air Cleaners Final Version 2.0 Program Requirements \(Rev. May 2022\)](#)