

**ENERGY STAR® 2019 Emerging Technology Award Requirements:
Room Air Conditioners with Efficient Variable Output (EVO)¹**

Performance Metric	Criteria	Test Method/Required Documentation
Room Air Conditioner Performance		
Energy Efficiency	Outperform the U.S. Department of Energy (DOE) Federal Minimum Combined Energy Efficiency Ratio by: <ul style="list-style-type: none"> • At least 35% for models with a capacity ≥ 14,000 BTU/hour • At least 25% for models with a capacity < 14,000 BTU/hour 	DOE-approved test procedure waiver pursuant to 10 CFR Part 430.27 Provide documentation of the model information and ENERGY STAR certification for the EVO product
	Energy measurements must be performed at an EPA-recognized accredited lab ²	
Noise Level	Lowest Operation ³ Sound Pressure Level ≤ 45 dB(A)	Copy of the test method and results ⁴
Warranty Minimum	One year parts and labor	Copy of warranty agreement
Certification	Must meet all applicable U.S. electrical safety requirements	Copy of case files
Additional Company Requirements		
Product Commercial Status	This Award is only granted to products that are available for sale in the U.S. Products must meet one of the following criteria: 1) available for sale at numerous retail and/or supplier locations, <i>or</i> 2) have commercial orders pending and firm plans to sell products to customers within 3 months of the Award application date.	

¹ Efficient Variable Output (EVO) means a system with variable-speed components (compressor and motor) optimized for a range of capacities, which results in greater efficiency compared to a system with a fixed-speed components.

² [ENERGY STAR Partner Resources Third Party Certification Webpage](#)

³ Lowest Operation means the compressor and fan are still in operation, but at the lowest cooling output level.

⁴ Applicant may perform sound tests at their own in-house facilities.