

Test Method:

Tests were performed in accordance with AHAM AC-1-2019 entitled "Association of Home Appliance Manufacturers Method for Measuring Performance of Portable Household Electric Room Air Cleaners". This standard method has defined limits of measurability. The practical limits of measurability are: Dust 10 to 400 CADR, Tobacco smoke 10 to 450 CADR and Pollen 25 to 450 CADR. The statistical validity of test results outside of the stated practical limits is questionable and unevaluated. Clean Air Delivery Rates (CADR's) were determined using Tobacco Smoke, AC Fine Test Dust, and Paper Mulberry Pollen.

Additional requirements for energy taken from IEC 62301 Ed. 2 entitled, "Household Electrical Appliances – Measurement of Standby Power".

Monitored particle size ranges for the three particulates were as follows:
Smoke - 0.10-1.0 microns; Dust - 0.5-3 microns; Pollen - 5-11 microns.

Test Equipment List:

Equipment Name	Type	Number	Calibration Date	Due Date
Laser Aerosol Spectrometer	3340	SA016-23-04	2020/5/26	2021/5/25
Aerodynamic Particle Sizer	3321	SA016-23-05	2020/1/13	2021/1/12
Fluidized Bed Aerosol Generator	3400A	SA016-23-05	2020/6/10	2021/6/9
Air Cleaner testing Chamber		SA016-23	2020/6/10	2021/6/9

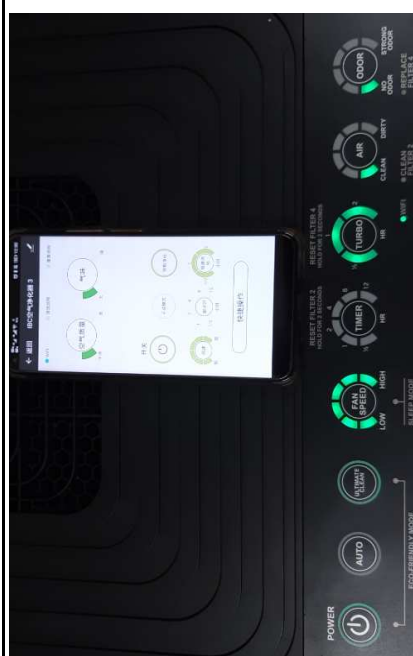
Device Under Test Description:

The device(s) tested for this report were/was Model 47001

The following device settings were used during testing: 120V/60Hz, Turbo mode, Ionizer ON, Tested on the Floor



Unit in test



APP & Control Panel view



HEPA-Type Filter view



Ozone Emission Removal Filter view



Bio-Guard™ Filter view



Stainless Steel Pre-Filter view

Results of Performance Tests:

Model/Configuration	Test Particulate	Natural Decay Rate	CADR (FT ³ /Min)	CADR STDEV	Power (W)
47001, S200925031-001 120V/60Hz, Turbo mode, Ionizer ON Tested on the Floor	Smoke	0.00499	356.1	5.6	117.8
	Dust	0.00867	351.3	4.5	116.4
	Pollen	0.12010	391.2	8.7	116.4

Conclusion:

The results reported are within the minimum and maximum limits of measurability of the AHAM AC-1-2019 "Association of Home Appliance Manufacturers Method for Measuring Performance of Portable Household Electric Room Air Cleaners" Test Method.

Operating Power Test:

Test Sample Information

Manufacturer/ Organization Name	Model Number	Serial Number	Nameplate Voltage V	Nameplate Freq. Hz	Nameplate W
Zhongshan YiJiang Technology Co.,Ltd	47001	NA	120	60	128

Test Criteria

Test Voltage V	Test Freq. Hz	Ambient Test Temp. °F	Ambient Humidity %RH
120± 1	60 ± 1	70 ± 5	40 ± 5

CADR/Watt Requirement

Smoke CADR Bins	Minimum Smoke CADR/W
$30 \leq \text{CADR} < 100$	1.9
$100 \leq \text{CADR} < 150$	2.4
$\text{CADR} \geq 150$	2.9

Test Results

Test Sample	Test Voltage V	Test Freq. Hz	Ambient Test Temp. °F	Ambient Humidity %RH	Smoke CADR	Power W	Smoke CADR/W
S200925031-001	119.7	60.0	70.0	41.0	356.1	117.8	3.0

Conclusion:

These results illustrate that this sample does meet the Energy Star Program performance requirements.

Partial On Mode Power Test

Test Criteria - IEC 62301

Test Voltage V	Test Frequency Hz	Total Harmonic Distortion of the Electricity Supply System	Ambient Test Temperature °F
115 ± 1	60 ± 1	≤ 2%	73.4 ± 9

Partial On Mode Requirement

Item	Partial On Mode Power Allowance (W) for models without Wi-Fi capability	Partial On Mode Power Allowance (W) for models with Wi-Fi capability
P _{Base_Allowance}	1.00	1.00
P _{Network_Connected}	0.00	1.00
P _{Max_Partial_On}	1.00	2.00

Note: $P_{Max_Partial_On} = P_{Base_Allowance} + P_{Network_Connected}$

Test Results

Test Sample	Test Voltage (V)	Test Freq. (Hz)	THD (%)	Ambient Temp. (°F)	P _{Base} (W)	P _{Network} (W)	P _{Max} (W)
S200925031-001	115.1	60.0	0.94	71.0	0.65	0.05	0.70

Conclusion:

The results illustrated in the Standby Power Data shows that this model complies with the criteria.

