

Nuwave, LLC

TEST REPORT

SCOPE OF WORK

REMOVAL RATE TESTING - AIR PURIFIER - [47251;472**]

REPORT NUMBER

210430143GZU-004

ISSUE DATE [REVISED DATE]

25-Nov-2021 None

PAGES

6

DOCUMENT CONTROL NUMBER

AP-CN-Removalrate-TRF_V1[16-Jun-2021] ©2021 INTERTEK





Report No. 210430143GZU-004

Samit Li

Effective date: 16-Jun-2021

Testing Laboratory: Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

Address: Room 02, & 101/E201/E301/E401/E501/E601/E701/E801 of

Room 01 1-8/F No 7-2 Cainin Road Science City, GETDD

Room 01 1-8/F., No.7-2, Caipin Road, Science City, GETDD,

Guangzhou, Guangdong, China

Applicant/Manufacturer: Nuwave, LLC

Address: 560 Bunker Ct. Vernon Hills, IL 60061, USA

Manufacturing site: Not provided

Address:

Testing Location: CAS Testing Technical Services (Guangzhou) Co., Ltd.
Address: 368 Xingke Road, Tianhe District, Guangzhou, P. R. China.

Product: Air Purifier

Brand Name: Nuwave Oxypure

Description: The product covered by this report is an indoor used electrical

air purifier.

Model(s): 47251;472**

Model Similarity: ** can be the number from 51 to 79; all models are identical

except for the specific model name.

Power ratings: 120V, 60Hz
Date of receipt of sample(s): 28-Jun-2021

Date Range of Test: 11-Nov-2021 to 22-Nov-2021

Test standard(s) or criteria(s): GB/T 18801-2015

Benleng

GB/T 18204.2-2014 Part 2

Remark: The testing data and result by this report is just for scientific

research, teaching, internal quality control, product research and development etc. on reference only in the territory of

People's Republic of China.

Prepared by: Ben Deng Approved by: Amit Li

Title: Project Engineer Title: Sr. Supervisor

Signature: Signature:

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program. Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.



Photo(s)

Photo 1 - Overall view



Photo 2 - Internal view



Effective date: 16-Jun-2021



Test Target Gas

Name	
Formaldehyde	

Test Conditions

Test chamber size (m³)	Dry bulb temperature($^{\circ}\!$	Relative humidity (%)
30	23~27	40~60

Test Method for Removal Performance

- 1) Place the air purifier to be tested in the test chamber according to the standard requirements. Adjust the air purifier to the working state of the test and check the operation Turn to normal, then turn off the air purifier.
- 2) Open the HEPA filter to purify the indoor air. When the background concentration of pollutants in the cabin is reduced to a certain level, start the temperature and humidity control Device to make the cabin temperature and relative humidity to the test requirements.
- 3) Use the gas pollutant generator to add a certain amount of gaseous pollutant gas into the test chamber until the concentration of gaseous pollutant reaches the test After specifying the initial concentration range, turn off the generator.
- 4) Turn on the fan in the test chamber, stir for 10 min, and close the fan after mixing evenly.
- 5) After the fan stops rotating, the initial concentration sample is collected and denized as C₀.
- 6) After the initial concentration sample collection is completed, open the air purifier to be tested and start the test. The total sampling time was 240 min.
- 7) Do not turn on the air purifier to test natural attenuation according to steps 1) ~ 6)



Test Results for Removal Rate

	Pollutant	Sample time (min)	Control group			Tested group			
Sample ID /Configuration			Initial Concentration C ₀ ' (mg/m ³)	Concentration Ct' (mg/m³)	Natural Decay N _t	Initial Concentration C ₀ (mg/m ³)	Concentration C _t (mg/m ³)	Total Decay N _t	Removal Rate R _t
	Formaldehyde	20	0.98 0.96 0.93 0.90 0.87 0.84 0.81 0.78 0.75 0.75 0.73 0.70 0.67	0.98	3.0%	0.96	0.39	59.4%	58.1%
47251		40		0.96	5.0%		0.21	78.1%	77.0%
		60		0.93	7.9%		0.11	88.5%	87.6%
		80		0.90	10.9%		0.06	93.8%	93.0%
S210430143-013		100		0.87	13.9%		0.04	95.8%	95.2%
120V, 60Hz		120		0.84	16.8%		0.03	96.9%	96.2%
Turbo Speed		140		0.81	19.8%		0.03	96.9%	96.1%
Ionizer ON		160		0.78	22.8%		0.03	96.9%	96.0%
		180		0.75	25.7%		0.03	96.9%	95.8%
		200		0.73	27.7%		0.02	97.9%	97.1%
		220		0.70	30.7%		0.02	97.9%	97.0%
		240		0.67	33.7%		0.02	97.9%	96.9%



Report No. 210430143GZU-004

Effective date: 16-Jun-2021

Revision Summary

Date/	Project Handler/		
		Item	Description of Change
Proj # Site ID	Reviewer		
			None
	1		
	1		
	1		
	1		
L			

—— The End ——