

Applicant Address:

TEST REPORT

Test Laboratory	UL LLC	
Test Laboratory Address	12 Laboratory Dr. Research Triangle Park, NC 27709	
Applicant Name:	Membrane Solutions (Nan Tong) Co., Ltd.	
A continue to A chalumana	No. 3, Hongxing East Road, NETDA Nantong City, Jiangsu, P.R.	

Title of Test:	U.S. Department of Energy 10 DFR Part 430 Air Cleaner Efficiency Testing
Test Standard or Procedure:	Appendix FF to Subpart B of Part 430
Project Number	4791141329 2.1

China

Product Description	Air Purifier
Model	MS601
Manufacturer	SHANGHAI BESTEAST International Trading Inc.
Brand Name	Membrane Solutions
Model Similarity	MS601W
Rated Voltage (V)	120
Rated Frequency (Hz)	60
Rated Power (W)	68
Rated Current (A)	N/A
Sample(s) Received Date	2/9/2024
Sample Condition	New

Test Conducted by:	David Corely
Test Date:	3/15/2024 - 3/27/2024
Report Issue Date:	3/29/2024
Report Revision Number:	1.0

Tested By: David Corely		Report By:	Connor Hoover
7	Long)		Home

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Version:	Date:	Description
1.0	3/29/2024	Initial Release

Test Equipment

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Equipment Name	Equipment ID	Manufacture	Model	Last Cal Date	Next Cal Date
Test Chamber	13D1-08	N/A	N/A	N/A	N/A
Dust Aerosol Generator	208906	TSI Inc.	3410A	N/A	N/A
Laser Aerosol Spectrometer	208905	TSI Inc.	3340A	5/24/2023	5/24/2024
Aerodynamic Particle Sizer	208903	TSI Inc.	3321	2/21/2024	2/28/2025

Product Photos

Power:

Air Purifier

Model No.: MS601 Voltage: 120V

Frequency: 60Hz

Membrane Solutions

Intertek 5009563 Contains IC: 23243-WBR3 Contains FCC ID: 2ANDL-WBR3

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Comforms to UL Std.507 Certified to CSA Std.c22.2 No.113

68W

www.mspurelife.com Made in China



CADR Test Results

Sample Number	Sample Setting	Test Challenge	Decay Rate	CADR (ft ³ /min)	CADR St. Dev.	Power (W)
		Dust	0.3686	359	2.28	64.24
6892563	High Fan Speed	Smoke	0.3783	368	2.61	65.56
		Pollen	0.4783	339	4.35	N/A
		Dust	0.3551	345	4.60	66.40
6892564	High Fan Speed	Smoke	0.3855	375	1.99	66.89
		Pollen	0.4790	340	10.39	N/A
		Dust	0.3852	374	2.21	66.45
6892565	High Fan Speed	Smoke	0.3956	385	2.02	67.03
		Pollen	0.5091	370	9.45	N/A

Average CADR Values

CADR (ft ³ /min)			
Dust	Smoke	Pollen	
359	376	350	

Average PM2.5 CADR (ft ³ /min)
367

Inactive Power

Sample	(W)
6892563	0.91
6892564	0.88
6892565	0.47
Average	0.75

Average Active Power

Power (W)
66.10

Annual Energy Consumption

AEC (kWh/year)
388.19

Integrated Energy Factor

IEF	DOE Criteria Tier 1 Requirement	Result
5.53	2	Pass