

Healthy Air Technology Ltd.

TEST REPORT

SCOPE OF WORK

CADR Testing - Air Purifier - [HA800;HA800-A;HA800-B;HA800-C;HA800-D;HA800-E]

REPORT NUMBER

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Test Report

Report Number 210630149GZU-003
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No.7-2, Caipin Road, Science City, GETDD, Guangzhou, Guangdong, China
Applicant Name / Address Healthy Air Technology Ltd.
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Manufacturing Name / Address Healthy Air Technology Ltd.
Oxford University Begbroke Science Park, Begbroke, Oxford, United
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Product Air Purifier
Brand Name Healthy Air Technology
Description The product covered by this report is a cord connected indoor used only Air
Purifier.
Model(s) (if applicable) HA800;HA800-A;HA800-B;HA800-C;HA800-D;HA800-E
Model Similarity All models are identical except for the specific model name.
Rated voltage (V) 220-240
Rated frequency (Hz) 50-60
Rated power (W) 80
Date of receipt of sample(s) 30-Jun-2021
Date of test 14-Sep-2021 to 15-Sep-2021
Sample Condition Production
Test standard(s) or criteria(s) ANSI/AHAM AC-1-2020
Conclusion The results of smoke and dust reported are within the minimum and
maximum limits of measurability of the ANSI/AHAM AC-1-2020 "Association
of Home Appliance Manufacturers Method for Measuring Performance of
Portable Household Electric Room Air Cleaners" Test Method, the results of
pollen reported are higher than the maximum limits of measurability of the
standard.
Date of issue 8-Oct-2021
Date of revision None

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Test Method:

Tests were performed in accordance with ANSI/AHAM AC-1-2020 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 600 CADR, Tobacco smoke 10 to 600 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.

PM2.5 CADR is obtained by combining the CADR of Cigarette smoke particle sizes ranging from 0.1 and 0.5 microns with the CADR of dust particles that fall in the range of 0.5 to 2.5 microns and performing a geometric average calculation.

$$PM2.5\ CADR = \sqrt{Smoke\ CADR(0.1 - 0.5\mu m) \times Dust\ CADR(0.5 - 2.5)}$$

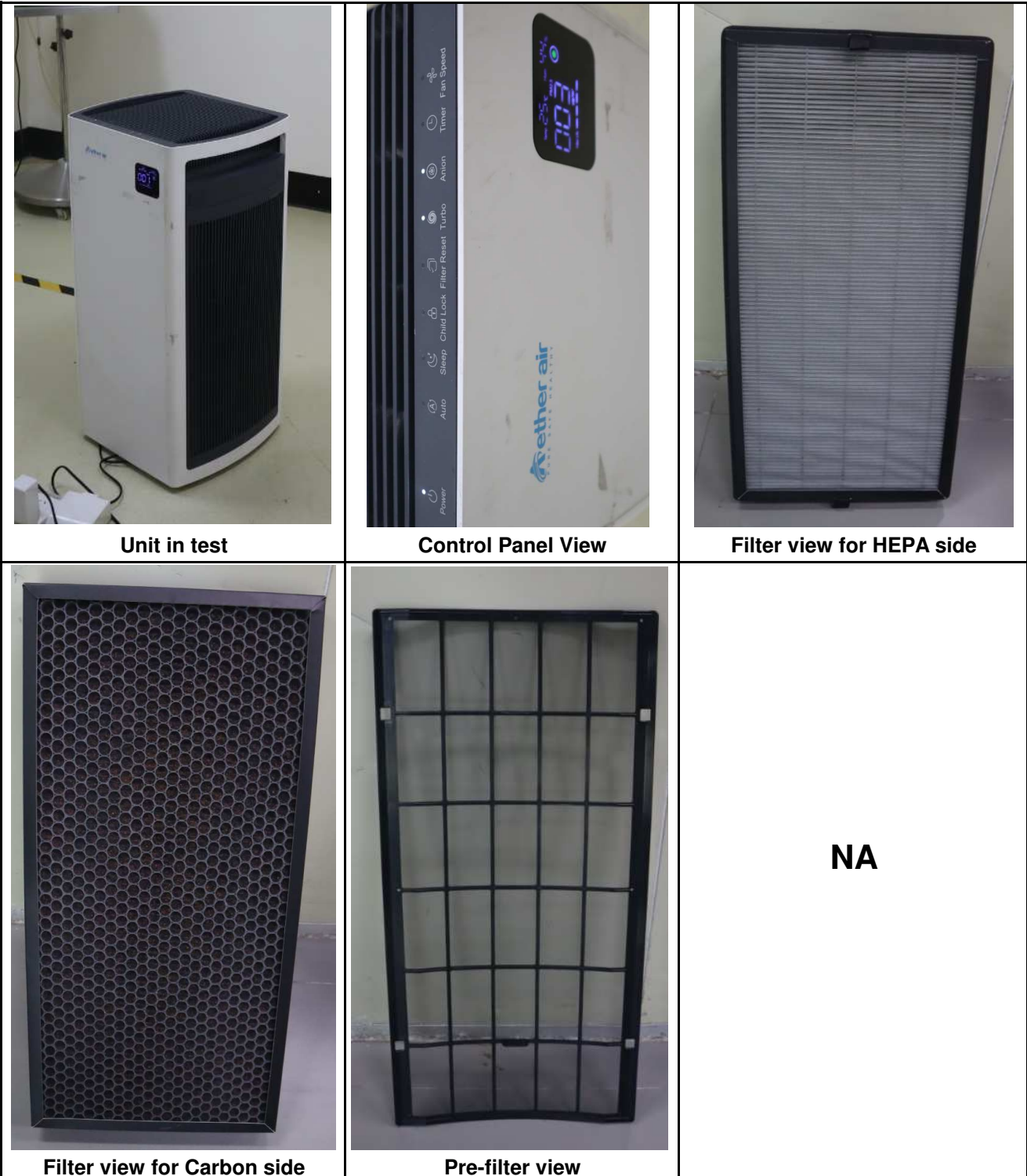
Test Equipment List:

Equipment Name	Type	Number	Calibration Date	Due Date
Laser Aerosol Spectrometer	3340	SA016-23-04	2021/2/26	2022/2/25
Aerodynamic Particle Sizer	3321	SA016-23-05	2021/1/26	2022/1/25
Fluidized Bed Aerosol Generator	3400A	SA016-23-05	2021/6/4	2022/6/3
Air Cleaner testing Chamber		SA016-23	2021/6/4	2022/6/3

Device Under Test Description:

The device(s) tested for this report were/was Model HA800

The following device settings were used during testing: 220V/50Hz, Turbo Speed, Anoin ON, Tested on the Floor



Results of Performance Tests:

Model/Configuration	Test Particulate	Natural Decay Rate	CADR (FT ³ /Min)	CADR STDEV	Power (W)
HA800 S210630149-003 220V/50Hz, Turbo Speed, Anoin ON Tested on the Floor	Smoke	0.00498	457.1	3.8	79.2
	Dust	0.00724	447.0	1.7	77.6
	Pollen	0.11533	>450	9.4	78.5
	PM2.5	-	452.0	-	-

Conclusion:

The results of smoke and dust reported are within the minimum and maximum limits of measurability of the ANSI/AHAM AC-1-2020 "[Association of Home Appliance Manufacturers Method for Measuring Performance of Portable Household Electric Room Air Cleaners](#)" Test Method, the results of pollen reported are higher than the maximum limits of measurability of the standard.

