

广州市微生物研究所有限公司

GUANG ZHOU INSTITUTE OF MICROBIOLOGY CO., LTD.

检测报告

TEST REPORT

Report Number KJ20210568

Name of Sample Air Purifier

Applicant Healthy Air Technology Ltd.



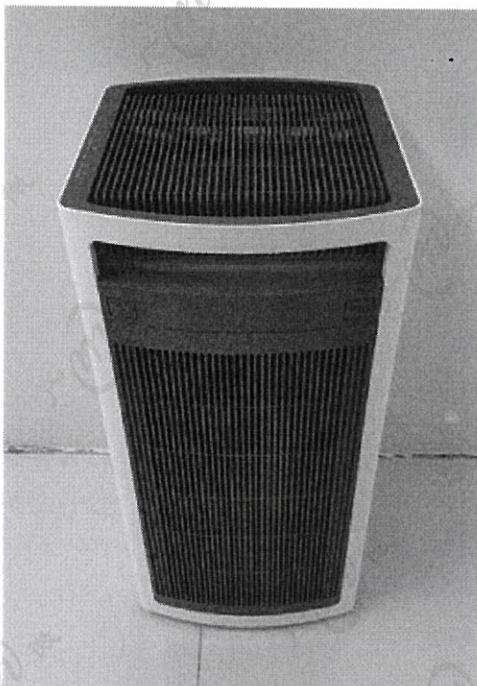
Test No. KJ20210568

GUANG ZHOU INSTITUTE OF MICROBIOLOGY CO., LTD.

TEST REPORT

Date Received: Feb. 22, 2021

Date Analyzed: Mar 05, 2021

Name of Sample	Air Purifier	Source of Sample	Delivery
Applicant	Healthy Air Technology Ltd.	Client	Yu Huang
Manufacturer	Healthy Air Technology Ltd.	Brand	Healthy Air Technology
Type and Specification	HA800	Quantity of Sample	1PC
Date of Production	---	State of Sample	Machine
Batch Number	202006	Packing of Sample	In box
Sample Picture			
Standard and Methods	1. Referring to GB/T 18801-2015 Air cleaner and customer requirements 2. HJ 482-2009 Ambient air-Determination of sulfur dioxide-Formaldehyde absorbing-pararosaniline spectrophotometry		
Items of Analysis	Removal Rate(Sulfur dioxide)		
Remarks	---		

To be continued

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Method for Testing Gaseous Pollutant Removal:

1. Test Conditions
 - 1) Environment temperature: (25 ± 2) °C
 - 2) Environment humidity: (50 ± 10) %RH.
2. Test Equipment
Test chamber (30 m³), constant current atmospheric sampler, UV-VIS spectrophotometer.
3. Operation Conditions of the Machine
Set the switch to position "Turbo".
4. Test Procedure
 - 1) Place the air cleaner to be tested in the chamber according to the requirements of standard and set the air cleaner controls to the conditions for test. Test for proper operation, then shut off with switch external to test chamber.
 - 2) Using the chamber HEPA filter, allow the test chamber air to clean until the background pollutants reaches a level. Simultaneously operate the environment control devices until the room conditions (temperature and RH) reach a specified state. Turn off the chamber environmental control system (HEPA filter and humidifiers).
 - 3) A certain amount of gaseous pollutant is added into the chamber using the gaseous pollutant generator. After the initial concentration reaches the requirements of standards, close the generator.
 - 4) Mix the gaseous pollutant for 10 min, then turn off ceiling mixing fan.
 - 5) Wait for fan to stop, the initial concentration of sample is gathered.
 - 6) Turn on air cleaner. The sample is collected after 60 min. (During the test, the samples are collected once every 60 min, and the total sampling time is 120 min.)
 - 7) According to the step 1) ~ 6), test the natural decay without the air purifier.
5. Computational Formula

$$\text{Natural decay rate } N'_i(\%) = \frac{C'_0 - C'_t}{C'_0} \times 100$$

Where: C'_0 = the original concentration of control group; C'_t = the final concentration of control group

$$\text{Total decay rate } N_i(\%) = \frac{C_0 - C_t}{C_0} \times 100$$

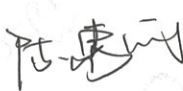

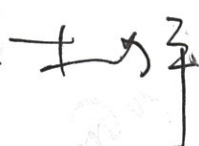
Where: C_0 = the original concentration of test group; C_t = the final concentration of test group

$$\text{Removal rate } K_t(\%) = \frac{C_0 \times (1 - N'_t) - C_t}{C_0 \times (1 - N'_t)} \times 100$$

Test Results

Number of Sample	Pollutant	Test Time (min)	Control Group		Test Group		Removal Rate K_t (%)
			Concentration C' (mg/m ³)	Natural Decay Rate N'_t (%)	Concentration C (mg/m ³)	Total Decay Rate N_t (%)	
KJ20210469-1	Sulfur dioxide	0	5.05	—	5.03	—	—
		60	4.83	4.4	0.32	93.6	93.3

End of report

Editor  Checker  Issuer  Date Reported 2021.3.19



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7. Any ambiguity by the language which used in the report, the Chinese shall prevail.

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