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	KJ20204746
Name of Sample	Air Purifier
Applicant	Healthy Air Technology Ltd.

GUANG ZHOU INSTITUTE OF MICROBIOLOGY CO., LTD.

TEST REPORT

Date Received: Dec. 28, 2020
Date Analyzed: Jan. 15, 2021

Name of Sample	Air Purifier	Source of Sample	Delivery
Applicant	Healthy Air Technology Ltd.	Client	Huang Yu
Manufacturer	Healthy Air Technology Ltd.	Brand	Healthy Air
Type and Specification	HA800	Quantity of Sample	1PC
Date of Production	2020.6	State of Sample	Machine
Batch Number	202006	Packing of Sample	In box
Sample Picture			
Standard and Methods	Referring to GB/T 18801-2015 Air cleaner and client's request		
Items of Analysis	Removal Rate (Nitrogen dioxide)		
Remarks	——		

To be continued

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Method for Testing Gaseous Pollutant Removal:

1. Test Conditions
   1) Environment temperature: (25±2) ℃
   2) Environment humidity: (50±10) %RH.
2. Test Equipment
   Test chamber (30 m^3), constant current atmospheric sampler, UV-VIS spectrophotometer.
3. Operation Conditions of the Machine
   Set the switch to position "the highest grade".
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.
   7) According to the step 1) ~ 6), test the natural decay without the air purifier.
5. Computational Formula

Natural decay rate $N_t'(\%)=\frac{C_0'-C_t'}{C_0'}\times 100$

where: C_0' = the original concentration of control group; C_t' = the final concentration of control group

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

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

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/m³)	Natural Decay Rate N_t' (%)	Concentration C (mg/m³)	Total Decay Rate N_t (%)	
KJ20204746-1	Nitrogen dioxide	0	2.50	——	2.45	——	——
		60	2.39	4.4	0.02	99.2	99.1

End of report

Editor 陈 Checker 黄 Issuer Date Reported

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1. The report would be invalid under the following conditions: altered, added, deleted, copied, without the special seal for inspection or signatures by approver.

2. For the received sample, the sample information in the report is claimed by the applicant, the inspection unit is not responsible for its authenticity. The report is responsibility for the received sample only.

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

Contact Address,1Jiantashan Road, Huangpu District, Guangzhou City, Guangdong Province

Test Address, (only fill in when it's different from the contact address)

Postal Code, 510663

Business Enquiry Tel., (8620) 31606167

Report Enquiry Tel., (8620) 62800791

URL, http://www.ggtest.com.cn