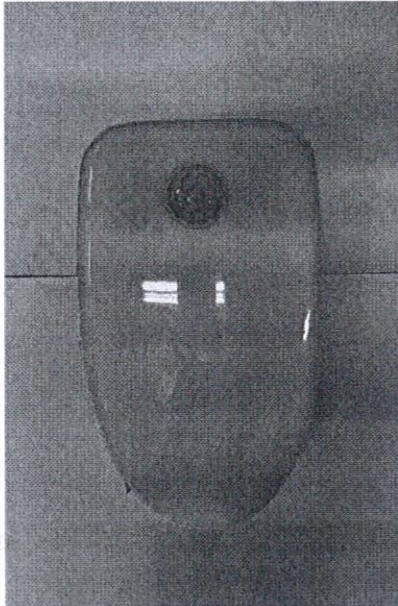


GUANGZHOU TESTING CENTER OF INDUSTRIAL MICROBIOLOGY

TEST REPORT

Date Received: April 27, 2017

Date Analyzed: May 03, 2017

Name of Sample	UVC Sterilizer & Balanced Ion Air Purifier	Source of Sample	Delivery
Applicant	Shenzhen Smart Team Technology Ltd.	Client	Hou Yanchao
Manufacturer	Shenzhen Xin Jun Meng Energy Technology Co., Ltd.	Brand	CSTT
Type and Specification	Ai202	Quantity of Sample	1Set (2PCs)
Date of Production	——	State of Sample	Machine
Batch Number	——	Packing of Sample	In box
Sample Picture			
Standard and Methods	Referring to GB/T 18801-2015 Air cleaner		
Items of Analysis	Removal Rate (Ammonia)		
Remarks	——		

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Date Received: April 27, 2017

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Method for Testing Gaseous Pollutant Removal:

1. Test Conditions

1) Environment temperature: $(25 \pm 2) ^\circ\text{C}$

2) Environment humidity: $(50 \pm 10) \% \text{RH}$.

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 "Green Light Mode".

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 1 h.

7) According to the step 1) ~ 6), turn off air cleaner, test the natural decay.

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

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

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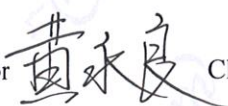
Date Analyzed: May 03, 2017

Test Results

Number of Sample	Pollutant	Test Time (h)	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 (%)	
KJ20170456-1	Ammonia	0	2.11	—	2.15	—	—
		1	2.00	5.2	1.27	40.9	37.7

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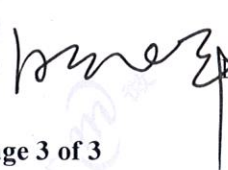
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