广州市微生物研究所 GUANG ZHOU INSTITUTE OF MICROBIOLOGY

检测报告 TEST REPORT

Report Number KJ20191664

Name of Sample Air Purifier

Applicant Sino Vantage Industrial Ltd.

GUANG ZHOU INSTITUTE OF MICROBIOLOGY TEST REPORT

Date Received: Jul. 31, 2019

			Date Anal	yzed: Aug. 05, 20			
Name of Sample	Air Purifier	(40)	Source of Sample	Delivery			
Applicant	Sino Vantage Industrial Ltd	d.	Client	Wilson Lam			
Manufacturer	Sino Vantage Industrial Ltd	1.	Brand	LightAir			
Type and Specification	CFPro900		Quantity of Sample	1PC			
Date of Production		@* -	State of Sample	Machine			
Batch Number	50	0	Packing of Sample	In box			
Sample Picture							
Standard and Methods	Refer to APIAC/LM 01-2015 Indoor purifier's purification performance evaluation requirements						
tems of Analysis	CADR (PM _{0.1})			Ÿ.			
Remarks		(A)**	70				

To be continued

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Method for Measuring Clean Air Delivery Rate of Particulate (PM_{0.1}):

Test Object

Particulate (<0.1 μm)

2. Test Conditions

1) Environment temperature: (25±2) °C

2) Environment humidity: (50±10)% RH

3. Test Equipments

The volume of the test chamber: 30 m³, Aerosol Spectrometer (TSI 3340), Aerosol Diluter (TSI 3302 A)

4. Operation Conditions of the Machine Set the switch to position "the 3rd gear".

5. Test Procedures

1) Place the air cleaner to be tested in the test chamber in accordance with standard request and set the air cleaner controls to the conditions for test. Test for proper operation, then turn off the air cleaner.

2) Using the test chamber HEPA filter, allow the test chamber air to clean until the background concentration in the size below 0.1 μ m reaches a concentration of less than 2×10^4 particles/L. Simultaneously operate the environmental control devices until the test chamber conditions.

3) When an acceptable test chamber background concentration is achieved record the background

concentration, turn off the test chamber environmental control system.

4) Connect the cigarette burner to light the cigarette and cover the burner, blow the cigarette smoke into the test compartment with low pressure air. After the smoke has occurred, the fan continues to stir for 2 min, so that the bulk particles are mixed evenly after closing the mixing fan

Turn off ceiling mixing fan, begin to acquire the cigarette smoke particulate concentration. This test point

is the initial concentration (T_0) .

- 6) Open the air cleaner and start the test as soon as the initial concentration of particulate and denoted as T1 after 2min. The particulate matter concentration should reach $(2.4 \sim 3.5) \times 10^7/L$, The concentration of the particles in the cabin was measured at intervals of 1 min at the time of T1, and 60 consecutive times were measured. Ten consecutive test values were recorded and recorded as T2 \sim T11.
- Test the natural decay according to the steps 1) \sim 6), except that the air cleaner is unoperated. The concentration of particulate matter in the nacelle was measured at intervals of 1 min from t0, and 60 consecutive times were measured. Ten consecutive test values were recorded and recorded as $t_1 \sim t_{10}$.

6. Computational Formula

CADR
$$Q$$
 (m³/h) = $60 \times (k_e - k_n) \times V$

Where: $k_e = \text{total decay constant}$; $k_n = \text{Natural decay constant}$; $V = \text{volume of the test chamber, m}^3$

Test Results

Number of Sample	Pollutant	Natural Decay Constant k_n (min ⁻¹)	Total Decay Constant $k_{\rm e}$ (min ⁻¹)	CADR Q (m 3 /h)	30min Removal Rate (%)	60min Removal Rate (%)
KJ20191664-1	PM _{0.1}	0.0024	0.1611	286	99.06	99.99

To be continued

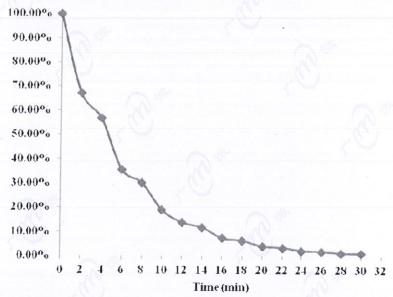


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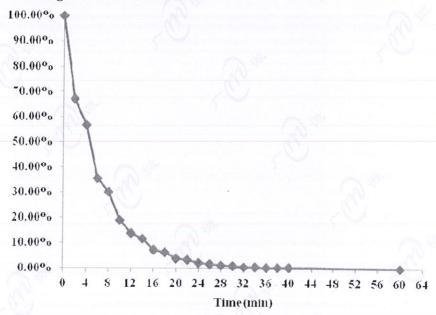
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PM_{0.1} Removal Rate Change Curve within 30 min



PM_{0.1} Removal Rate Change Curve within 60 min



*** End of report***

Editor The Checker Issuer Issuer Date Reported



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