中国认可
国际互认
检测
TESTING
CNAS L0823

202019005395

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	KJ20210025
Name of Sample	Air Purifier
Applicant	Shenzhen OTTO Intelligence Technology Co., Ltd.

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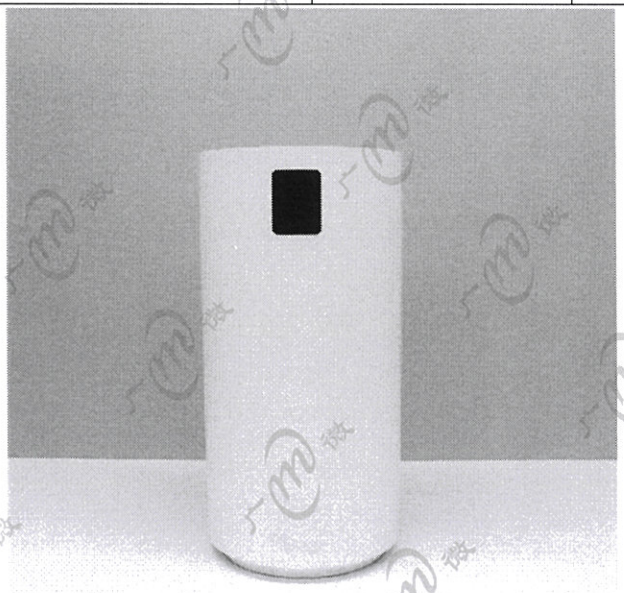
Date Received: Jan. 04, 2021
Date Analyzed: Jan. 14, 2021

Name of Sample	Air Purifier	Source of Sample	Delivery
Applicant	Shenzhen OTTO Intelligence Technology Co., Ltd.	Client	Bonnie Zhang
Manufacturer	Dongguan Ride Tech Electronics Co., Ltd.	Brand	HAPPI
Type and Specification	KJ500	Quantity of Sample	1PC
Date of Production	2020.12.20	State of Sample	Machine
Batch Number	001	Packing of Sample	In box
Sample Picture			
Standard and Methods	1. GB/T 18801-2015 Air cleaner 2. GB/T 4214.1-2017 The method for noise of household and similar electrical appliances-General requirements		
Items of Analysis	1. CADR (Particulate) 2. Cleaning Energy Efficiency (Particulate) 3. Standby Power, Input Power 4. Noise		
Remarks	——		

To be continued

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Method for Measuring Clean Air Delivery Rate of Particulate:

1. Test Object
   Particulate (≥0.3 μm)
2. Test Conditions:
   1) Environment temperature: (25 ± 2) ℃
   2) Environment humidity: (50±10) %RH
3. Test Equipment
   Test chamber (30 m^3), Particle Detector (SX-L301N),
4. Operational Conditions of the Machine
   Set the switch to position "The highest wind speed".
5. Test Procedure
   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 range of 0.3 μm to 10 μm reaches a concentration of less than 1000 particles/L. Simultaneously operate the environmental control devices until the test chamber conditions have reached the requirements.
   3) When an acceptable test chamber background concentration is achieved record the background concentration, turn off the test chamber environmental control system.
   4) Immediately light, then place one standard cigarette in the cigarette smoke generator, seal generator, open valve to chamber, to provide the required initial concentration (2×10^6~2×10^7 particles/L).Turn off air supply and close test chamber valve. Mix cigarette smoke for ten minutes after the initial concentration has been reached.
   5) Turn off ceiling mixing fan, begin to acquire the cigarette smoke particulate concentration. This test point is the initial concentration (C_0).
   6) Open the air cleaner and start the test as soon as the initial concentration of particulate matter is completed. Collect samples at 2min intervals for 20 min.
   7) Test the natural decay according to the steps 1)~ 6), except that the air cleaner is unoperated.
6. Computational Formula

$$\text{CADR } Q\ (\text{m}^3/\text{h}) = 60\times(k_e - k_n)\times V$$

Where: k_e = total decay constant; k_n = natural decay constant; V = volume of the test chamber, m^3

Test Results

Number of Sample	Pollutant	Natural Decay Constant k_n (min^{-1})	Total Decay Constant k_e (min^{-1})	CADR Q (m^3/h)	Cleaning Energy Efficiency η [$m^3/(W\cdot h)$]	Cleaning Energy Efficiency Grade
KJ20210025-1	Particulate	0.0025	0.3022	539.5	10.90	High-efficiency grade

Note: High-efficiency grade: $\eta_{particulate}\geq5.00$ Qualified grade: $2.00\leq\eta_{particulate}<5.00$

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Measuring of Power:

1. Test Equipment
   Power measuring instrument
2. Operational Conditions of the Machine
   Set the switch to position "The highest wind speed".
3. Test Procedure
   1) Connecting the power and air purifier by power tester, stable in standby mode for at least 10 min after testing the standby power.
   2) Connecting the power and air purifier by power tester, stable under rated condition for at least 30 min after testing the input power.

Test Results

Number of Sample	Standby Power (W)	Input Power (W)
KJ20210025-1	0.5	49.5

To be continued

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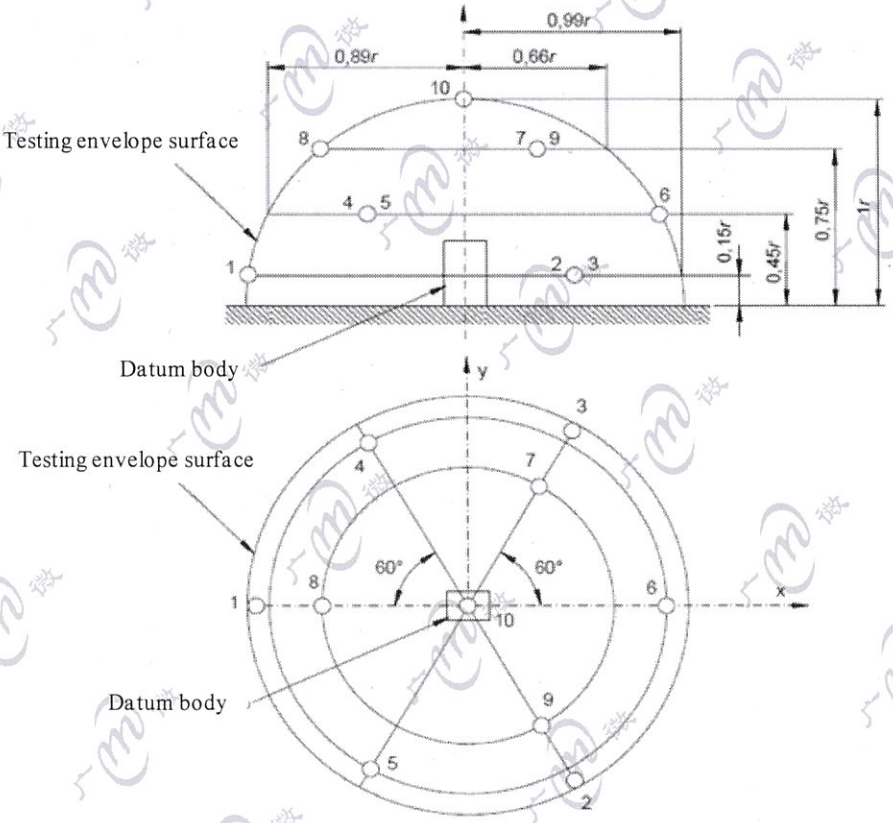
Measuring of Noise:

1. Test Environment: semi-anechoic chamber; Background noise: 15.3 dB(A)
2. Testing Envelope Surface: hemisphere envelope surface; testing radius: r=1.5 m. Test schematic diagrams are showed as follows:



Test Results

Number of Sample	Test gear	Average Sound Pressure Level dB(A)	Acoustic Power Level dB(A)
KJ20210025-1	Sleep	27.2	38.7
	The highest wind speed	52.8	64.3

End of report

Editor [signature] Checker [signature] Issuer [signature] Date Reported 2021.2.2

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