



中国认可
 国际互认
 检测
 TESTING
 CNAS L0095

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 No.: WTS2021-11193

TEST REPORT

NAME OF SAMPLE Air Purifier

CLIENT BeiAng Air Tech Ltd.

CLASSIFICATION OF TEST Commission Test

Vkan Certification & Testing Co., Ltd.

TEST REPORT

No: WTS2021-11193

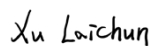
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Name of product: Air Purifier	Trade mark: —
Type/Model: KJ300F-X5	Sample status: —
Commissioned by: BeiAng Air Tech Ltd.	Manufacturer: BeiAng Air Tech Ltd.
Commissioner address: No.175, Songbei Road, SIP, Suzhou City, Jiangsu Province, China	Manufacturer Address: No.175, Songbei Road, SIP, Suzhou City, Jiangsu Province, China
Production Unit: —	Sampling base: —
Production Unit Address: —	Sampled by: —
Quantity of sample: 2	Sampling at(place): —
Sample identification:2-1、 2-2	Means of sampling: —
Means of receiving:Submitted by the client	Sampling date: —
Classification of test:Commission Test	Test Item: —
Receiving date: 2021-06-04	Completing date: 2021-06-11
Tested according to: GB/T 18801-2015 《Air cleaner》	
<p>Test conclusion:</p> <p>According to the requirements of the client ,according to standard GB/T 18801-2015 the Standby power、 Solid particulate clean air delivery rate(CADR)、 Formaldehyde clean air delivery rate(CADR)、 Solid particulate cumulate clean mass(CCM)、 Solid particulate cleaning energy efficiency、 Formaldehyde cleaning energy efficiency 、 Noise is tested on the sample.</p> <p>Please refer the test data to the table below.</p> <p align="right">Seal of CVC</p> <p align="right">Date of issue:2021.6.11</p>	

Approved by: Yang Xianfei

Reviewed by: Xu Laichun

Tested by: Lin Bin


Description and illustration of the sample:

—

Description of the sampling procedure:

—

Description of the deviation from the standard, if any:

—

Remarks:

—

Sample photo



GB/T 18801-2015			
Clause	Test items and test requirements	Test results	Verdict
5	Technical Requirements		
5.2	The standby power should not larger than 2.0W	See attached table	P
5.3	The experimental CADR of the solid particulate and gas contaminant should not less than the 90% times the nominal value of the air cleaner	See attached table	P
5.4	The experimental CCM of particular contaminant should lie within the rated scope	See attached table	P
5.5	Cleaning energy efficiency		
5.5.1	The experimental Cleaning energy efficiency of the solid particulate and gas contaminant should not less than the 90% times the nominal value of the air cleaner	See attached table	P
5.5.2	The Cleaning energy efficiency of the target contaminant should at least be the certified grade according to table 1 and table 2.	See attached table	P
5.6	Noise		
5.6.1	The noise value corresponding to the measured value of the CADR when the cleaner is working shall be in accordance with the provisions of Table 3	See attached table	P
5.6.2	The permissible difference between the measured value and the nominal value of the noise generated by the cleaner shall be less than +3dB	See attached table	P

Table 1 Test results table

Clause	Test items		Unit	experimental	Nominal value	limited value	Verdict
5.2	Standby Power		W	1.8	—	≤ 2.0	P
5.3	Clean air delivery rate (CADR)	solid particulate	m^3/h	373.4	310	$\geq 90\%$ times nominal value	P
		formaldehyde		61.2	50		P
5.4	Cumulate Clean Mass (CCM)	solid particulate	Interval division	P4	P4	comply with nominal range	P
5.5	Cleaning energy efficiency η	solid particulate	$m^3/(h.W)$	6.66	High efficiency class	$\geq 90\%$ times nominal value	P
		formaldehyde		1.09	Qualified grade	$\geq 90\%$ times nominal value	P

Clause	Test items	Unit	experimental	Nominal value	limited value		Verdict
5.6	Noise	dB(A)	62.9	≤ 63	CADR max ≤ 150	≤ 55	/
					150 < CADR max ≤ 300	≤ 61	/
					300 < CADR max ≤ 450	≤ 66	P
					CADR max > 450	≤ 70	/
					allowance should not greater than +3dB(A)		P

Table 2-1 Solid particulate clean air delivery rate(CADR)

Serial number	Natural attenuation		Total attenuation		curve
	Point of time/min	concentration/(\uparrow /L)	Point of time/min	concentration/(\uparrow /L)	
1	0	10214949	0	16611588	<p>Natural attenuation curve</p>
2	2	10152696	2	11945321	
3	4	10094355	4	7722581	
4	6	10027400	6	4935583	
5	8	9949013	8	3440253	
6	10	9893930	10	2150440	
7	12	9846836	12	1468121	
8	14	9813727	14	1173724	
9	16	9769068	16	522660	
10	18	9680208	18	411874	
11	20	9656969	20	284876	
Attenuation coefficient/ min^{-1}	0.002833		0.210260		<p>Total attenuation curve</p>
R ²	0.993		0.998		
	Nominal value	Measured value			
CADR/(m^3/h)	—	373.4			
input power/W	—	56.1			
Cleaning energy efficiency/ $\text{m}^3/(\text{W}\cdot\text{h})$	--/--	6.66/ High efficiency class			
Test description:					
1. Test gear: Max gear					
2. Test chamber: 30 m^3					
3. Cleaning energy efficiency:					
Purification efficiency level			Cleaning energy efficiency $\eta_{\text{颗粒物}}/(\text{m}^3/(\text{W}\cdot\text{h}))$		
High efficiency class			$\eta \geq 5.00$		
Qualified grade			$2.00 \leq \eta \leq 5.00$		

Table 2-2 Formaldehyde clean air delivery rate(CADR)

Serial number	Natural attenuation		Total attenuation		curve
	Point of time/min	concentration/(mg/m ³)	Point of time/min	concentration/(mg/m ³)	
1	0	0.92	0	1.09	<p>Natural attenuation curve</p> <p>Total attenuation curve</p>
2	5	0.90	5	0.90	
3	10	0.91	10	0.74	
4	15	0.9	15	0.6	
5	20	0.89	20	0.5	
6	25	0.89	25	0.42	
7	30	0.88	30	0.34	
8	35	0.87	35	0.28	
9	40	0.87	40	0.25	
10	45	0.86	45	0.23	
11	50	0.86	50	0.18	
12	55	0.85	55	0.15	
13	60	0.86	60	0.13	
Attenuation coefficient/min ⁻¹	0.001232		0.035209		
R ²	0.935		0.996		
	Nominal value	Measured value			
CADR/(m ³ /h)	—	61.2			
input power/W	—	56.1			
Cleaning energy efficiency/m ³ /(W·h)	--/--	1.09/ High efficiency class			
Test description:					
1. Test gear: Max gear					
2. Test chamber: 30m ³					
3. Cleaning energy efficiency:					
Purification efficiency level			Cleaning energy efficiency $\eta_{\text{甲醛}}/(m^3/(W \cdot h))$		
High efficiency class			$\eta \geq 1.00$		
Qualified grade			$0.50 \leq \eta < 1.00$		

Table 3-1 Solid particulate cumulate clean mass(CCM)

number	Total cumulative consumption of cigarette smoke (mg)	Solid particulate clean air delivery rate(CADR) (m ³ /h)	Percentage of initial CADR value
0	0	373.4	—
1	13200	378.6	—
2	33000	372.5	—
3	—	—	—
4	—	—	—
5	—	—	—
6	—	—	—
7	—	—	—
curve	—		
CCM/mg	> 33000		
Interval grading	P4		

试验说明:

1. Test gear: Max gear
2. Test chamber: 3m³
3. Interval grading:

Interval grading	CCM ,mg
P1	3000≤CCM<5000
P2	5000≤CCM<8000
P3	8000≤CCM<12000
P4	12000≤CCM

Table 4 Noise Test

Point method	Type of Utensil		Envelope surface	Number of points	This use (√)
	Floor Standing / table standing	The length of each side shall not exceed 0.7m	Hemispherical surface	Ten	√
		Either side grows larger than the other 0.7m	Rectangular hexahedron	Nine	
	Wall mounted type		Rectangular hexahedron	Six	
Test description	Test voltage: 220 V	Test frequency: 50 Hz			
	Ambient temperature: 59.8 %	Atmospheric pressure: 101.39 kPa			
	Ambient humidity: 23.7 °C	Background noise level: 16.6 dB(A)			
	Working condition: Max gear	Check run time: 30min			
Test results	Lp= 48.9 dB(A) $L_w = L_p + 10 \lg \left(\frac{S}{S_0} \right) = 62.9 \text{ dB(A)}$				

Important

- 1.The test report is invalid without the official stamp of CVC;
- 2.Any photocopies or part photocopies of the test report are forbidden without the written permission from CVC;
- 3.The test report is invalid without the signatures of Approval and Reviewer;
- 4.The test report is invalid if altered;
- 5.Objections to the test report must be submitted to CVC within 15 days;
- 6.Generally, commission test is responsible for the tested samples only;
7. “P” means “pass”, “F” means “fail”, “N” or “—” means “not applicable” and “ / ”means “not test”.

***报告中未加 CMA 标志时, 检测数据和结果仅供科研、教学或内部质量控制之用。 ***

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