



中国认可  
 国际互认  
 检测  
 TESTING  
 CNAS L0095

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 No.: WTS2021-11187

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: WTS2021-11187

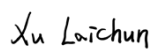
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Name of product: Air Purifier	Trade mark: —
Type/Model: KJ200F-X3	Sample status: —
Commissioned by: BeiAng Air Tech Ltd.	Manufacturer: BeiAng Air Tech Ltd.
Commissioner address: No.175, Songbei Road, SIP, Suzhou City, Jiangsu Province, China	Manufacturer Address: No.175, Songbei Road, SIP, Suzhou City, Jiangsu Province, China
Production Unit: —	Sampling base: —
Production Unit Address: —	Sampled by: —
Quantity of sample: 1	Sampling at(place): —
Sample identification:1-1	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 cleaning energy efficiency、 Formaldehyde cleaning energy efficiency and 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



### Product specifications

Model	KJ200F-X3	Ozone	<=10ppb
Usable area	20m <sup>2</sup>	Noise	<=58dB(A)
CADR particulate	200m <sup>3</sup> /h	Rated power	24W
CADR formaldehyde	40m <sup>3</sup> /h	Rated voltage	100-240V~
Energy efficiency (particulate)	High efficiency	Rated voltage	50/60Hz
Weight	5kg	Dimensions (m)	0.52H*0.26L*0.26W
Executive standard: GB/T 18801-2015			

<b>GB/T 18801-2015</b>			
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
5.5	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	1.3	—	$\leq 2.0$	P
5.3	Clean air delivery rate (CADR)	solid particulate	$m^3/h$	224.8	200	$\geq 90\%$ times nominal value	P
		formaldehyde		60.1	40		P
5.5	Cleaning energy efficiency $\eta$	solid particulate	$m^3/(h.W)$	9.65	High efficiency class	$\geq 90\%$ times nominal value	P
		formaldehyde		2.49	—	$\geq 90\%$ times nominal value	N

Clause	Test items	Unit	experimental	Nominal value	limited value		Verdict
5.6	Noise	dB(A)	57.7	$\leq 58$	CADR max $\leq 150$	$\leq 55$	/
					150 < CADR max $\leq 300$	$\leq 61$	P
					300 < CADR max $\leq 450$	$\leq 66$	/
					CADR max > 450	$\leq 70$	/
					allowance should not greater than +3dB(A)		N

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

Serial number	Natural attenuation		Total attenuation		curve
	Point of time/min	concentration/( $\mu\text{g}/\text{L}$ )	Point of time/min	concentration/( $\mu\text{g}/\text{L}$ )	
1	0	13254219	0	8519926	<p>Natural attenuation curve</p>
2	2	13153791	2	6750204	
3	4	13084955	4	5327419	
4	6	13022200	6	4053711	
5	8	12902263	8	3162638	
6	10	12845330	10	2517013	
7	12	12785336	12	1949026	
8	14	12673826	14	1397276	
9	16	12616621	16	1083430	
10	18	12504228	18	909027	
11	20	12426469	20	664106	
Attenuation coefficient/ $\text{min}^{-1}$	0.003171		0.128050		<p>Total attenuation curve</p>
R <sup>2</sup>	0.997		0.999		
	Nominal value	Measured value			
CADR/( $\text{m}^3/\text{h}$ )	200	224.8			
input power/W	24	23.3			
Cleaning energy efficiency/ $\text{m}^3/(\text{W}\cdot\text{h})$	High efficiency class	9.65/High efficiency class			
Test description:					
1. Test gear: Max gear					
2. Test chamber: $30\text{m}^3$					
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 <sup>3</sup> )	Point of time/min	concentration/(mg/m <sup>3</sup> )	
1	0	1.022	0	0.988	<p>Natural attenuation curve</p> <p>Total attenuation curve</p>
2	5	1.014	5	0.846	
3	10	1.012	10	0.693	
4	15	1.001	15	0.624	
5	20	0.999	20	0.519	
6	25	0.991	25	0.446	
7	30	0.980	30	0.375	
8	35	0.979	40	0.265	
9	40	0.971	50	0.172	
10	45	0.964	60	0.124	
11	50	0.958	—	—	
12	55	0.954	—	—	
13	60	0.947	—	—	
Attenuation coefficient/min <sup>-1</sup>	0.001279		0.034681		
R <sup>2</sup>	0.994		0.997		
	Nominal value	Measured value			
CADR/(m <sup>3</sup> /h)	40	60.1			
input power/W	24	24.1			
Cleaning energy efficiency/m <sup>3</sup> /(W·h)	--/--	2.49/ High efficiency class			

Test description:

1. Test gear: Max gear
2. Test chamber: 30m<sup>3</sup>
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 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: 57.4 %		Atmospheric pressure: 101.26 kPa		
	Ambient humidity: 22.9 °C		Background noise level: 16.6 dB(A)		
	Working condition: Max gear		Check run time: 30min		
Test results	<p><math>L_p = 46.2 \text{ dB(A)}</math></p> <p><math>L_w = L_p + 10 \lg\left(\frac{S}{S_0}\right) = 57.7 \text{ dB(A)}</math></p>				



## 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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