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(2016) Inspection Body
Accreditation Certificate
No. (083)



China Accreditation
International Mutual Recognition
TESTING
CNAS L1045

TEST REPORT

BEET-2018AC-0040

Name of Product	Air duct purifier
Client	Airquality Technology (Shanghai) Co., Ltd.
Manufacturer	Airquality Technology (Shanghai) Co., Ltd.
Test Category	Entrusted test

**National Center of Quality Supervision and Inspection
and Testing for Air Conditioning Equipment**



NOTICE

1. The test report is invalid without the “Stamp of test report” on it.
2. Duplication of the test report is invalid without the “Stamp of test report” on it.
3. The test report is invalid without the signatures of the persons for chief test, verification and approval. A test report for arbitration should also bear the signature of the person for verification.
4. The test report is invalid if altered.
5. Any objection to the test report should be reported to the testing department within 15 days from the date of receiving the test report.
6. In general, for entrusted tests the responsibilities are undertaken for the delivered samples only.

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Sample No.	2018AC-0040		
Product name	Air duct purifier	Model and specification	FAD
		Trademark	Airquality
Client	Airquality Technology (Shanghai) Co., Ltd.	Factory serial No.	/
		Date of manufacture	/
Manufacturer	Airquality Technology (Shanghai) Co., Ltd.	Quantity of samples submitted	1 unit
		Date of sample submission	2018-07-19
Test category	Entrusted test	Date of test	2018-08-10 – 08-17
Address of client	No. 1199 Yixian Road, Baoshan District, Shanghai		
Test basis	GB/T 14295-2008 “Air filters” JG/T 294-2010 “Determination of purification performance of air cleaners for pollutants” BEET-3139A “Test method for PM2.5 purification performance of air cleaning devices” GB 4706.45-2008 “Safety of household and similar electrical appliances — Particular requirements for air cleaners”		
Criteria for assessment	GB/T 14295-2008 “Air filters” JG/T 294-2010 “Determination of purification performance of air cleaners for pollutants”		
Place of test	Fubi Road, Gequ, Tongzhou District, Beijing		
Instruments and equipment used	Particle-counting test rig for air filters; negative-pressure test device for air filters; comprehensive safety performance tester; six-stage impactor microbial sampler; dust tester; ozone analyser; multifunction power meter; digital micromanometer; thermo-hygrometer		
Test items	Input power; single-pass PM2.5 purification efficiency; single-pass microbial purification efficiency; increase in ozone concentration; electrical safety (insulation resistance, electric strength, leakage current, earthing resistance); air velocity – resistance curve		
Test conclusion	For the test results, see page 2.		
[Stamp of test report] Date of issue: 2018-08-24			

Chief tester: (signed)

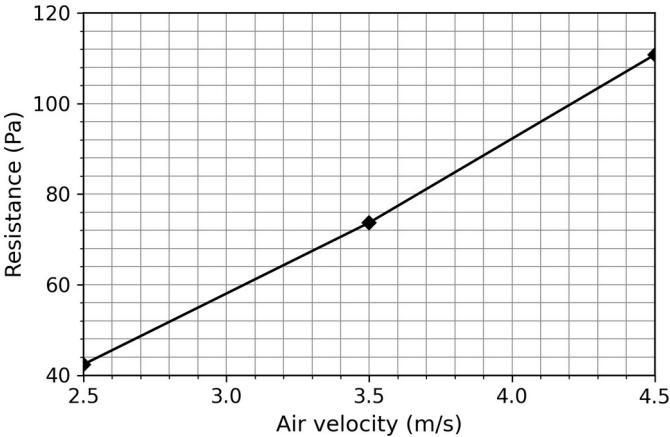
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TEST RESULTS

No.	Test item		Test air velocity (m/s)	Standard requirement	Test result	Verdict
1	Input power (W)		/	/	4.2	/
2	Single-pass PM2.5 purification efficiency (%)		2.5	/	95.4	/
			3.5		94.3	
			4.5		90.8	
3	Single-pass microbial purification efficiency (%)		2.5	≥ 50	94.2	Pass
4	Increase in ozone concentration (mg/m³)		2.5	1 h mean value less than 0.16	No increase	Pass
5	Electrical safety	Insulation resistance (MΩ)	/	≥ 2	> 2000	Pass
		Electric strength	/	No breakdown when the voltage specified by the standard (1250 V) is applied for 1 minute	No breakdown	Pass
		Leakage current (mA)	/	≤ 1	0.440	Pass
		Earthing resistance (Ω)	/	≤ 0.1	0.077	Pass
	Resistance at different air velocities		Air velocity (m/s)	2.5	3.5	4.5
			Resistance (Pa)	42.4	73.7	110.8
6	Air velocity – resistance curve					
Remarks		1. The effective air inlet face size of the sample is 375 mm × 236 mm. 2. Single-pass PM2.5 purification efficiency test: (1) at an air velocity of 2.5 m/s the mean PM2.5 concentration upstream of the device was 0.571 mg/m³ and downstream 0.026 mg/m³; (2) at an air velocity of 3.5 m/s the mean PM2.5 concentration upstream of the device was 0.543 mg/m³ and downstream 0.031 mg/m³; (3) at an air velocity of 4.5 m/s the mean PM2.5 concentration upstream of the device was 0.491 mg/m³ and downstream 0.045 mg/m³. 3. Single-pass microbial purification efficiency test: the test strain was Staphylococcus albus, strain No. 8032.				

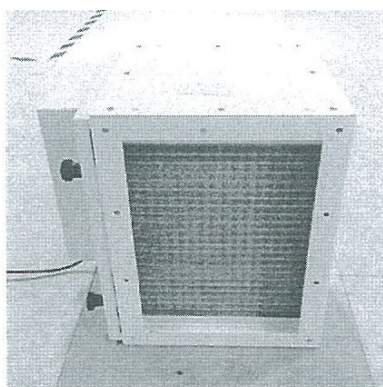
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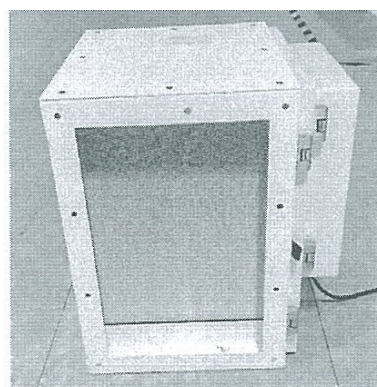
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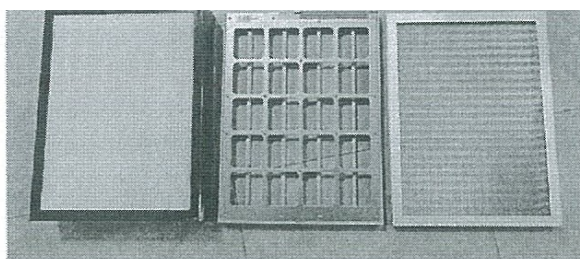
Sample No.	2018AC-0040
SAMPLE DESCRIPTION	
Manufacturer	Airquality Technology (Shanghai) Co., Ltd.
Model and specification	FAD
Overall dimensions (mm)	/
Rated air volume (m ³ /h)	/
Input voltage (V/Hz)	/
Input power (W)	/
Factory serial No.	/
Date of manufacture	/
Remarks	Photographs of the sample are shown below. The overall dimensions of this sample are 446 mm × 400 mm × 330 mm.



Air inlet face



Air outlet face



Internal components