

Mechanical and Electrical Products Testing Center, Shanghai Entry-
Exit Inspection and Quarantine Bureau

Test Report

Instruction No.: 2016040899

Report No.: 201602450

Sample Name: Air Purifier

Model Number: MA-E100J-C

Test period: May 3, 2016 – May 18, 2016

Manufacturer: Mitsubishi Electric Corporation

Examining Body: Mechanical and Electrical Products Testing Center, Shanghai Entry-Exit
Inspection and Quarantine Bureau




Test Report	
Instruction No. 2016040899	
Preparer: Huang Yi	Signature: 
Verifier: Ni Bin	Signature: 
Authorizer: Dai Xue Wei	Signature: 
Authorization date: May 20, 2016	
Examining Body: Mechanical and Electrical Products Testing Center, Shanghai Entry-Exit Inspection and Quarantine Bureau	
Address: 1208 Minsheng Road, Pudong, Shanghai Postal Code: 200135	
Tel: 021-68546965 021-68546963 Fax: 021-68546965	
Test site: Same as above	
Applicant: Mitsubishi Electric Air-Conditioning & Visual Information Systems (Shanghai) Ltd.	
Address: 15th floor, No. 300, Nanjing East Road, Shanghai	
Rationale for the Test: Based on the applicant's request	
Test: Test for removal rate of inhalable particulate matter (PM 2.5), formaldehyde, benzene, TVOC, and ozone	
Explanation of standard deviation /	
Sample Name: Air Purifier	Model Name (Model Number): MA-E100J-C
Manufacturer: Mitsubishi Electric Corporation	
Address: 2-7-3 Marunouchi, Chiyoda-ku, Tokyo	
Rated value: 220 V~ 50 Hz 86 W	
Sampling conditions: Sending of samples (2 units) Date of arrival of samples: Apr 22, 2016	
Test results: Compliant (Passed)	
Description of the Test: Perform 99% pollutant removal test for PM 2.5, formaldehyde, benzene, TVOC, and ozone based on the applicant's request.	
Statement:	<p>1. No part of this report may be copied without the written approval of the testing laboratory, unless the entire contents are copied.</p> <p>2. The test results are valid only for the samples examined.</p>
Remarks:	<p>1. Explanation of judgment terms</p> <p>(1) Passed (compliant): The examined sample conforms to the requirements of the standard.</p> <p>(2) Not applicable: This test is not applicable to the sample.</p> <p>(3) Rejected (non-compliant): The test sample does not comply with the requirements of the standard.</p> <p>(4) ---: This test has not been performed.</p>

Photo of sample



External view of the appliance



Control panel

Photo of sample



Appliance name plate
(name plate label)

Summary of Test Results					
Test sequence	Test	Test requirements	Test results		
			Time	Concentration (mg/m ³)	Purification efficiency (%)
1	Purification efficiency of inhalable particulate matter (calculated using a particle diameter of $\leq 2.5 \mu\text{m}$)	The test shall be conducted in a 30 m ² test chamber, and the initial concentration of particulate matter shall be controlled within the range of $(5.0 \pm 1.0) \text{ mg/m}^3$.	0 min	5.63	/
			10 min	0.22	96.1
			20 min	0.01	99.8
2	Formaldehyde purification efficiency	The test shall be conducted in a 30 m ² test chamber and the initial concentration of formaldehyde shall be controlled within the range of $(1.0 \pm 0.20) \text{ mg/m}^3$.	0 h	1.169	/
			1 h	0.398	65.9
			2 h	0.247	78.9
			3 h	0.188	83.9
			4 h	0.152	87.9
			5 h	0.130	88.9
			6 h	0.115	90.2
			7 h	0.103	91.2
			8 h	0.094	92.0
			9 h	0.086	92.6
			10 h	0.079	93.2
			11 h	0.074	93.7
			12 h	0.067	94.3
			13 h	0.059	94.9
			14 h	0.049	95.8
			15 h	0.040	96.6
			16 h	0.030	97.4
			17 h	0.017	98.5
			18 h	0.009	99.2

Summary of Test Results					
Test sequence	Test	Test requirements	Test results		
			Time	Concentration (mg/m ³)	Purification efficiency (%)
3	Benzene purification efficiency	The test shall be conducted in a 30 m ² test chamber and the initial concentration of benzene shall be controlled within the range of (1.1 ± 0.22) mg/m ³ .	0 h	1.25	/
			1 h	0.13	89.6
			2 h	0.01	99.2
4	TVOC (total volatile organic compounds) purification efficiency	The test shall be conducted in a 30 m ² test chamber and the initial concentration of TVOCs shall be controlled within the range of (6.0 ± 1.20) mg/m ³ .	0 h	6.54	/
			1 h	0.53	91.9
			2 h	0.01	99.8
5	Ozone purification efficiency	The test shall be conducted in a 30 m ² test chamber and the initial concentration of ozone shall be controlled within the range of (1.6 ± 0.32) mg/m ³ .	0 h	1.79	/
			1 h	0.01	99.4
Note: For the setting of initial concentrations of pollutants, refer to the requirements of GB/T18801-2015 “Air Purifier” standard, GB/T18883-2002 “Indoor Air Quality Standard” and APIAC/LM01-2013 “Evaluation Requirements for Indoor Air Purifier Purification Performance.”					

Test Report

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Product Name	Air Purifier		Model Name (Model Number)	MA-E85K-C				
			Brand	Mitsubishi Electric				
Origin of the assignment	Corporate consignment		Inspection category	Consignment inspection				
Contractor name	Mitsubishi Electric Air-Conditioning & Visual Information Systems (Shanghai) Ltd.							
Name of the manufacturer	Mitsubishi Electric Corporation							
Product label		Lot no. / Date of production		Number of samples	1 unit			
Date of consignment	July 1, 2015	Inspection site	Building 6, No.716, Yishan Road, Shanghai					
Date of arrival of the sample	July 1, 2015	Consignment slip number	DZ0000955					
Description of the condition of the sample	Operation of the unit is normal.							
Test and test compliance	Test: Purification efficiency for 0.1 μm solid particulate matter GB/T18801-2008 Air Purifier GB/T18883-2002 Indoor Air Quality Standard and requirements of the consignor							
Test period	July 1, 2015 – July 20, 2015							
Test results	The tests were conducted based on the above test standards; for detailed data, refer to the Summary of Test Results page of this report. Special stamp for the test report Date of issue of authorization: July 20, 2015							
Contractor name	Address	15th floor, Celebrity Commercial Building, 300 Nanjing East Road, Shanghai						
	Postal code	200001	Tel.	021-23123379				
Remarks	This field left blank							

Confirmation:

Authorization:

Test Report

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Summary of Test Results page				
Sequence	Test	Unit	Measured value	
1	Purification efficiency for 0.1 μm solid particulate matter	%	10 min	96
			20 min	> 99
			30 min	> 99
			40 min	> 99
			50 min	> 99
			60 min	> 99
This field left blank				
Remarks	<p>1. Test chamber conditions: Volume: 30 m3, Temperature: (23-26) °C, Humidity: (44-55) % RH</p> <p>2. Test method For the test of 0.1 μm solid particulate matter, cigarette smoke and mist shall be used as the main dust source, and the counting method shall be the standard test method. The initial concentration shall be 2.2×10^7 particles/L, and the natural decay in 60 minutes shall be less than 10%.</p> <p>Formula for calculating the purification efficiency for pollutants during testing: [(initial concentration - final concentration) / initial concentration] x 100%.</p>			

End of test result contents