

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

# Test Report

Instruction No.: 2016040901

Report No.: 20160459

Sample Name: Air Purifier

Model Number: MA-E100J-C

Test period: Apr 26, 2016 – May 24 2016

Manufacturer: Mitsubishi Electric Corporation

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




Test Report	
Instruction No. 2016040901	
Preparer: Huang Yi	Signature: 
Verifier: Ni Bin	Signature: 
Authorizer: Dai Xue Wei	Signature: 
Authorization date: May 26, 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: Clean Air Delivery Rate (CADR), Cumulate Clean Mass (CCM), Purification efficiency by GB/T18801-2015	
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: Clean Air Delivery Rate (CADR), Cumulate Clean Mass (CCM), Purification efficiency by GB/T18801-2015	
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)

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GB/T18801-2015			
Section	Inspection items and inspection requirements	Test results	Judgment
Section 5.2	Standby power		
	Measured value of standby power of the air purifier shall be ____ 0.2 W or less.	0.94W	Passed
Section 5.3	Clean Air Delivery Rate (CADR)		
	The measured value of the clean air delivery rate of the air purifier shall be 90% or more of the nominal value.		—
	The CADR target pollutant for the air purifier shall be ____ m <sup>3</sup> /h.	See Appendix 1	Passed
Section 5.4	Cumulate Clean Mass (CCM)		
	The actual measured cumulate clean mass of the air purifier for the specified target pollutant shall be within the classification level indicated on the air purifier.	See Appendix 2	Passed
Appendix Section D.5	Evaluation of the cumulate clean mass of the air purifier for particulate matter shall be classified according to the classification level in Table D.1.	P4 level	Passed
Section 5.5	Purification function		
Section 5.5.1	Test value ____ of the purification efficiency of the air purifier for particulate matter and gaseous pollutants shall be at least 90% of its nominal value.	See Appendix 3	—
Section 5.5.2	The efficiency of the air purifier in cleaning particulate matter shall be classified according to Table 1 as ____ grade.	High efficiency grade	Passed
	The efficiency of the air purifier in cleaning gaseous pollutants shall be classified according to Table 2 as ____ grade.	<u>Passing</u> grade	Passed

Section 5.6	Noise		
Section 5.6.1	Noise test of the air purifier shall be conducted in accordance with the provisions of Section 6.9.		Passed
	The noise value corresponding to the measured clean air volume during operation of the air purifier shall conform to the provisions of Table 3.	See Appendix 4	Passed
Section 5.6.2	The error between the measured value and the nominal value of the air cleaner shall be less than or equal to +3 dB (A).		—

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Appendix 1

Section	Test item		Unit	Nominal value	Measured value	Limit value	Judgment
Section 5.3	Clean Air	Particulate matter	m <sup>3</sup> /h	—	612.5	≥ 90% of nominal value	—
	Delivery Rate (CADR)	Formaldehyde		—	49.3		

Appendix 2

Section	Test item		Unit	Nominal value	Measured value	Cumulate clean air delivery rate Classification level	Judgment
Section 5.4	Cumulate Clean Mass (CCM)	Particulate matter	mg	—	>12000	P1: $3000 \leq \text{CCM Particulate Matter} < 5000$ P2: $5000 \leq \text{CCM Particulate Matter} < 8000$ P3: $8000 \leq \text{CCM Particulate Matter} < 12000$ P4: $12000 \leq \text{CCM Particulate Matter}$	P 4

Appendix 3

Section	Test item		Unit	Nominal value	Measured value	Classifying requirements for purification efficiency	Judgment
Section 5.5.2	Purification efficiency (η)	Input power	W	82	81.2	/	/
		Particulate matter	m <sup>3</sup> /(h · W)	—	7.54	High efficiency: η particulate matter ≥ 5.00 Passing grade: $2.00 < \eta \text{ particulate matter} \leq 5.00$	High efficiency grade
		Formaldehyde		—	0.61	High efficiency: η gaseous pollutant ≥ 1.00	Passing grade

						Passing rate: $0.50 < \eta$ particulate matter $\leq 1.00$	
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#### Appendix 4

Section	Test item	Unit	Nominal value	Measured value	Limit value		Judgment
Section 5.6	Noise	dB (A)	/	66.9	CADR max $\leq 150$	$\leq 55$	Not applicable
					$150 < \text{CADR max} \leq 300$	$\leq 61$	Not applicable
					$300 < \text{CADR max} \leq 450$	$\leq 66$	Not applicable
					CADR max $\geq 300$	$\leq 70$	Passed
					The error from the nominal value shall be less than +3dB (A).		—