

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

Test Report

Instruction No.: 201603409

Report No.: 20160279

Sample Name: Air Purifier

Model Number: MA-E85K-C-W

Test period: March 9, 2016 – March 25, 2016

Manufacturer: Mitsubishi Electric Corporation

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




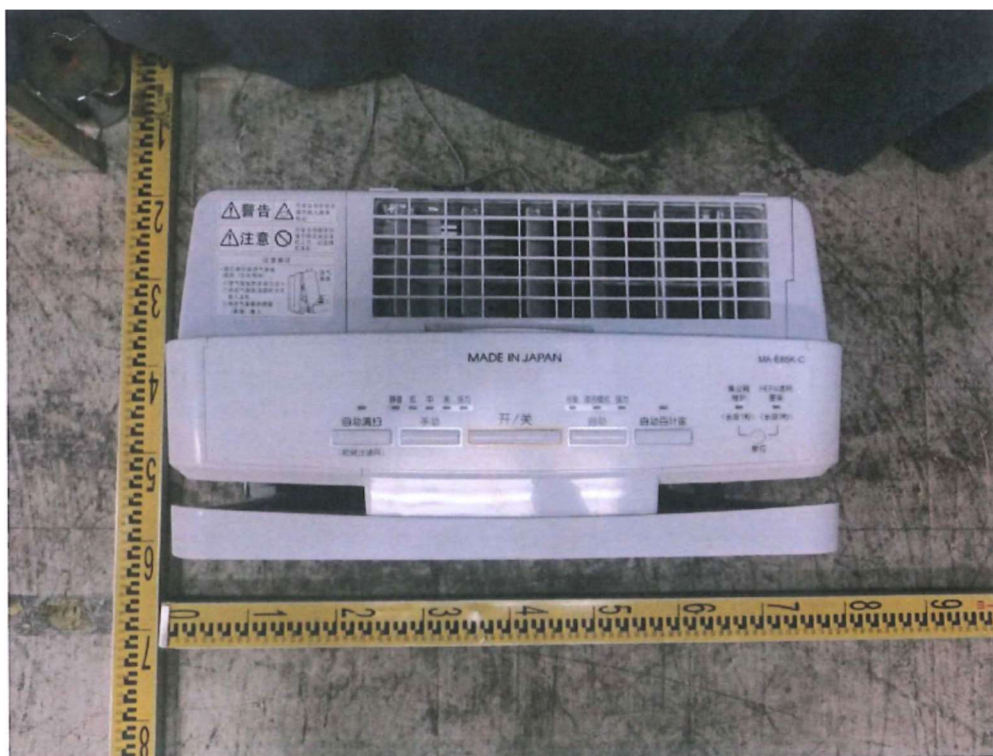
| Test Report | |
|--|--|
| Instruction No. 2016030409 | |
| Preparer: Huang Yi | Signature:  |
| Verifier: Ni Bin | Signature:  |
| Authorizer: Dai Xue Wei | Signature:  |
| Authorization date: March 31, 2016 | |
| Examining Body: Mechanical and Electrical Products Testing Center, Shanghai Entry-Exit 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-E85K-C-W |
| 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: March 4, 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

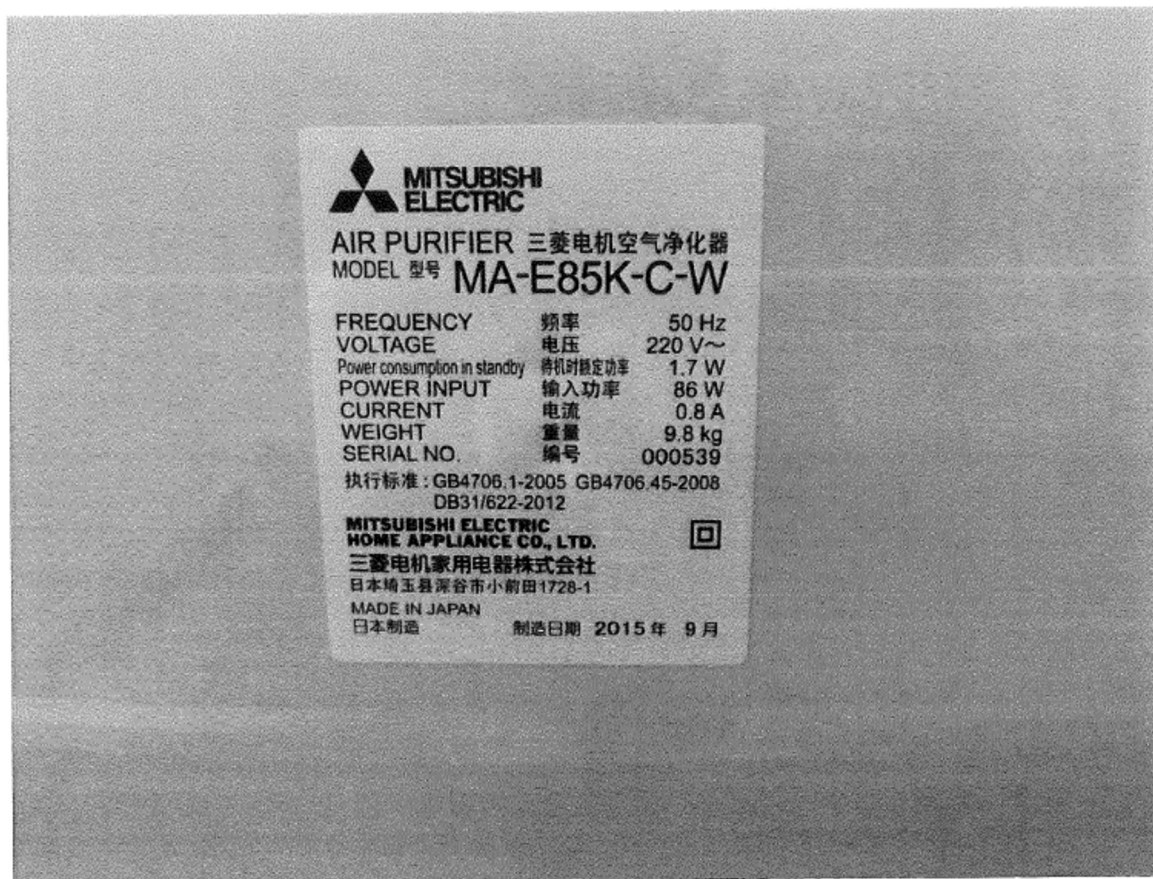


External view of the appliance



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 | 5.45 | / |
| | | | 10 min | 0.35 | 93.6 |
| | | | 20 min | 0.04 | 99.3 |
| | | | 30 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 | 1.153 | / |
| | | | 1 h | 0.527 | 54.3 |
| | | | 2 h | 0.348 | 69.8 |
| | | | 3 h | 0.258 | 77.6 |
| | | | 4 h | 0.224 | 80.6 |
| | | | 5 h | 0.197 | 82.9 |
| | | | 6 h | 0.172 | 85.1 |
| | | | 7 h | 0.157 | 86.4 |
| | | | 8 h | 0.139 | 87.9 |
| | | | 9 h | 0.125 | 89.2 |
| | | | 10 h | 0.112 | 90.3 |
| | | | 11 h | 0.102 | 91.2 |
| | | | 12 h | 0.096 | 91.7 |
| | | | 13 h | 0.090 | 92.2 |
| | | | 14 h | 0.083 | 92.8 |
| | | | 15 h | 0.078 | 93.2 |
| | | | 16 h | 0.072 | 93.8 |
| | | | 17 h | 0.068 | 94.1 |
| | | | 18 h | 0.062 | 94.6 |
| | | | 19 h | 0.055 | 95.2 |
| | | | 20 h | 0.050 | 95.7 |
| | | | 21 h | 0.045 | 96.1 |
| | | | 22 h | 0.031 | 97.3 |
| | | | 23 h | 0.023 | 98.0 |
| | | | 24 h | 0.017 | 98.5 |
| | | | 25 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 | 1.23 | / |
| | | | 1 h | 0.22 | 82.1 |
| | | | 2 h | 0.08 | 93.5 |
| | | | 3 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 | 6.86 | / |
| | | | 1 h | 0.81 | 88.2 |
| | | | 2 h | 0.27 | 96.1 |
| | | | 3 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 | 1.82 | / |
| | | | 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 | 97 |
| | | | 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