

Technical Report No.: 4840126190400

Date: 2026-08-06

Client: Wuxi Little Swan Electric Co., Ltd
No.18,Changjiang South Road,Wuxi,Jiangsu,P.R.China

Manufacturer: Wuxi Little Swan Electric Co., Ltd
No.18,Changjiang South Road,Wuxi,Jiangsu,P.R.China

Factory: Wuxi Little Swan Electric Co., Ltd
No.18,Changjiang South Road,Wuxi,Jiangsu,P.R.China

Test object: Product: MULTI-DRUM WASHING MACHINE
MULTI-DRUM WASHER DRYER

Model: MFL110-U1421DD/H16PW-EU(NA)
MFL110-DU1421DD/H16PW-KR

Brand name: Midea

Test specification: Refer to IEC/PAS 62958:2015, MOD

Purpose of examination:

- Tests according to above test specifications.

Test result: **Detailed information see Chapter 3**

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1. Description of the test object

1.1 Picture(s)

Midea

MULTI-DRUM WASHER DRYER
MODEL:MFL110-U1421DD/H16PW-KR

NORMAL LOAD (Main Drum/Mini Drum)

10.0kg / 0.5kg

DRYING CAPACITY(Main Drum/Mini Drum)

7.0kg / 0.25kg

RATED VOLTAGE

220V~

RATED FREQUENCY

60Hz

RATED POWER

1800W

DRYING POWER

1500W

WATER PRESSURE

0.05-1MPa

GRADE OF WATERPROOF

IPX4

Made in China

BOTTOM MOUNT MAIN UNIT W/ DRYER BOARD

ELITE BOARD

Midea

MULTI-DRUM WASHING MACHINE

MODEL:MFL110-U1421DD/H16PW-EU(NA)

11.0kg (Main Drum:10.0kg / Mini Drum:0.5kg)

220-240V~ 50Hz 1900W

0.05-1MPa IPX4

CE

RoHS

Made in China



1.2 General product information

This product is for household use.

1.3 Consideration of the foreseeable use

- ☒ Not applicable
- ☐ Covered through the applied standard
- ☐ Covered by the following comment
- ☐ Covered by attached risk analysis

1.4 Technical Data

Model	MFL110-U1421DD/H16PW-EU(NA) MFL110-DU1421DD/H16PW-KR
Rated voltage	220-240V (MFL110-U1421DD/H16PW-EU(NA)) 220V(MFL110-DU1421DD/H16PW-KR)
Rated frequency	50Hz(MFL110-U1421DD/H16PW-EU(NA)) 60Hz(MFL110-DU1421DD/H16PW-KR)

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and Technological Development Zone, Wuxi, Jiangsu 214100

Rated washing power input	1900W
Rated washing capacity	Main Drum 10.0kg/Mini Drum 0.5kg

Rated drying capacity	Main Drum 7.0kg/Mini Drum 0.25kg
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2. Order

2.1 Date of Purchase Order, Customer's Reference

2026-04-16

2.2 Test Sample(s)

- Reception date(s): 2026-04-16
- Location(s) of reception: TÜV SÜD Certification and Testing (China) Co., Ltd.
Floor 1-4, Building B, No.37, Tuanjie Road(Middle),
Xishan Economic and Technological Development
Zone, Wuxi, Jiangsu 214100

2.3 Testing

- Testing date(s): 2026-04-16 to 2026-05-13
- Location(s) of testing: ICAS Testing Technology Service (shanghai) Co., Ltd.
No.155 Pingbei Road, Minhang District Shanghai

2.4 Points of Non-Compliance or Exceptions of the Test Procedure

- None

3. Test Results

Data Record Form			
Model Name:	MFL110-U1421DD/H16PW-EU(NA)		
Rated voltage(V)	220V~, 50Hz	Ambient temperature (°C)	23°C
Relative humidity (%)	53%	Programme tested	Hygiene+
	Test strain	<i>Staphylococcus aureus, ATCC 6538</i>	
Measurement 1	Average number of the microorganism content of positive control N_0 (CFU/block)	2.5×10^9	
	Average number of microorganism number of the 5 bio monitors after exposition to the tested programme N (CFU/block)	<10	
	Reduction factor per microorganism strain = $\log(N_0 / N)$	>8.40	
	*Calculated bacteria removal rate (%)	>99.9999%	
Measurement 2	Average number of the microorganism content of positive control N_0 (CFU/block)	2.3×10^9	
	Average number of microorganism number of the 5 bio monitors after exposition to the tested programme N (CFU/block)	<10	
	Reduction factor per microorganism strain = $\log(N_0 / N)$	>8.36	
	*Calculated bacteria removal rate (%)	>99.9999%	
Measurement 3	Average number of the microorganism content of positive control N_0 (CFU/block)	2.4×10^9	
	Average number of microorganism number of the 5 bio monitors after exposition to the tested programme N (CFU/block)	<10	
	Reduction factor per microorganism strain = $\log(N_0 / N)$	>8.38	
	*Calculated bacteria removal rate (%)	>99.9999%	
Average reduction factor per microorganism strain		>8.38	
Average calculated bacteria removal rate of three tests (%)		>99.9999%	

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	Test strain	<i>Escherichia coli</i> , 8099
Measurement 1	Average number of the microorganism content of positive control N_0 (CFU/block)	3.6×10^9
	Average number of microorganism number of the 5 bio monitors after exposition to the tested programme N (CFU/block)	<10
	Reduction factor per microorganism strain = $\log(N_0 / N)$	>8.56
	*Calculated bacteria removal rate (%)	>99.9999%
Measurement 2	Average number of the microorganism content of positive control N_0 (CFU/block)	3.9×10^9
	Average number of microorganism number of the 5 bio monitors after exposition to the tested programme N (CFU/block)	<10
	Reduction factor per microorganism strain = $\log(N_0 / N)$	>8.59
	*Calculated bacteria removal rate (%)	>99.9999%
Measurement 3	Average number of the microorganism content of positive control N_0 (CFU/block)	3.7×10^9
	Average number of microorganism number of the 5 bio monitors after exposition to the tested programme N (CFU/block)	<10
	Reduction factor per microorganism strain = $\log(N_0 / N)$	>8.57
	*Calculated bacteria removal rate (%)	>99.9999%
Average reduction factor per microorganism strain		>8.57
Average calculated bacteria removal rate of three tests (%)		>99.9999%
Remark: Left Drum *Calculated bacteria removal rate (%) = $\frac{N_0 - N}{N_0} \times 100\%$ Drying time of bio monitor: 60min Size of bio monitor: 1.0cm x 1.0cm square		

	Test strain	<i>Staphylococcus aureus</i> , ATCC 6538
Measurement 1	Average number of the microorganism content of positive control N_0 (CFU/block)	3.8×10^9
	Average number of microorganism number of the 5 bio monitors after exposition to the tested programme N (CFU/block)	<10
	Reduction factor per microorganism strain = $\log(N_0 / N)$	>8.58
	*Calculated bacteria removal rate (%)	>99.9999%
Measurement 2	Average number of the microorganism content of positive control N_0 (CFU/block)	3.9×10^9
	Average number of microorganism number of the 5 bio monitors after exposition to the tested programme N (CFU/block)	<10
	Reduction factor per microorganism strain = $\log(N_0 / N)$	>8.59
	*Calculated bacteria removal rate (%)	>99.9999%
Measurement 3	Average number of the microorganism content of positive control N_0 (CFU/block)	3.7×10^9
	Average number of microorganism number of the 5 bio monitors after exposition to the tested programme N (CFU/block)	<10
	Reduction factor per microorganism strain = $\log(N_0 / N)$	>8.57
	*Calculated bacteria removal rate (%)	>99.9999%
Average reduction factor per microorganism strain		>8.58
Average calculated bacteria removal rate of three tests (%)		>99.9999%

	Test strain	<i>Escherichia coli</i> , 8099
Measurement 1	Average number of the microorganism content of positive control N_0 (CFU/block)	2.6×10^9
	Average number of microorganism number of the 5 bio monitors after exposition to the tested programme N (CFU/block)	<10
	Reduction factor per microorganism strain = $\log(N_0 / N)$	>8.41
	*Calculated bacteria removal rate (%)	>99.9999%

Measurement 2	Average number of the microorganism content of positive control N_0 (CFU/block)	2.6×10^9
	Average number of microorganism number of the 5 bio monitors after exposition to the tested programme N (CFU/block)	<10
	Reduction factor per microorganism strain = $\log(N_0 / N)$	>8.41
	*Calculated bacteria removal rate (%)	>99.9999%
Measurement 3	Average number of the microorganism content of positive control N_0 (CFU/block)	2.7×10^9
	Average number of microorganism number of the 5 bio monitors after exposition to the tested programme N (CFU/block)	<10
	Reduction factor per microorganism strain = $\log(N_0 / N)$	>8.43
	*Calculated bacteria removal rate (%)	>99.9999%
Average reduction factor per microorganism strain		>8.42
Average calculated bacteria removal rate of three tests (%)		>99.9999%
Remark: Right Drum *Calculated bacteria removal rate (%) = $\frac{N_0 - N}{N_0} \times 100\%$ Drying time of bio monitor: 60min Size of bio monitor: 1.0cm x 1.0cm square		

	Test strain	<i>Staphylococcus aureus</i> , ATCC 6538
Measurement 1	Average number of the microorganism content of positive control N_0 (CFU/block)	2.3×10^9
	Average number of microorganism number of the 5 bio monitors after exposition to the tested programme N (CFU/block)	<10
	Reduction factor per microorganism strain = $\log(N_0 / N)$	>8.36
	*Calculated bacteria removal rate (%)	>99.9999%
Measurement 2	Average number of the microorganism content of positive control N_0 (CFU/block)	2.1×10^9
	Average number of microorganism number of the 5 bio monitors after exposition to the tested programme N (CFU/block)	<10
	Reduction factor per microorganism strain = $\log(N_0 / N)$	>8.32
	*Calculated bacteria removal rate (%)	>99.9999%
Measurement 3	Average number of the microorganism content of positive control N_0 (CFU/block)	2.3×10^9
	Average number of microorganism number of the 5 bio monitors after exposition to the tested programme N (CFU/block)	<10
	Reduction factor per microorganism strain = $\log(N_0 / N)$	>8.36
	*Calculated bacteria removal rate (%)	>99.9999%
Average reduction factor per microorganism strain		>8.35
Average calculated bacteria removal rate of three tests (%)		>99.9999%

	Test strain	<i>Escherichia coli</i> , 8099
Measurement 1	Average number of the microorganism content of positive control N_0 (CFU/block)	2.7×10^9
	Average number of microorganism number of the 5 bio monitors after exposition to the tested programme N (CFU/block)	<10
	Reduction factor per microorganism strain = $\log(N_0 / N)$	>8.43
	*Calculated bacteria removal rate (%)	>99.9999%

Measurement 2	Average number of the microorganism content of positive control N_0 (CFU/block)	2.8×10^9
	Average number of microorganism number of the 5 bio monitors after exposition to the tested programme N (CFU/block)	<10
	Reduction factor per microorganism strain = $\log(N_0 / N)$	>8.45
	*Calculated bacteria removal rate (%)	>99.9999%
Measurement 3	Average number of the microorganism content of positive control N_0 (CFU/block)	2.7×10^9
	Average number of microorganism number of the 5 bio monitors after exposition to the tested programme N (CFU/block)	<10
	Reduction factor per microorganism strain = $\log(N_0 / N)$	>8.43
	*Calculated bacteria removal rate (%)	>99.9999%
Average reduction factor per microorganism strain		>8.44
Average calculated bacteria removal rate of three tests (%)		>99.9999%
Remark: Lower Drum *Calculated bacteria removal rate (%) = $\frac{N_0 - N}{N_0} \times 100\%$ Drying time of bio monitor: 60min Size of bio monitor: 1.0cm x 1.0cm square		

4. Remarks

Differences	Main test model:	The main test model is a washing machine, while the covered models are washer-dryer
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Appearance		
Program Names & Program Durations	Program Name: Hygiene+ Displayed Duration: 2:27:00	Program Name: Hygiene+ Displayed Duration: 2:27:00
Sterilization Method	High Temperature	High Temperature
Rated	The load capacities of the washing-only model and washer-dryer combo are the same. The lower tub holds 10kg, and the left and right tubs each hold 0.5kg.	

5. Documentation

- Not applicable

6. Summary

Left drum

Average reduction factor per microorganism strain

(Staphylococcus aureus, ATCC 6538): **> 8.38**

Average calculated bacteria removal rate of three tests (%)

(Staphylococcus aureus, ATCC 6538): **>99.9999%**

Average reduction factor per microorganism strain

(Escherichia coli, 8099): **>8.57**

Average calculated bacteria removal rate of three tests (%)

(Escherichia coli, 8099): **>99.9999%**

Right drum

Average reduction factor per microorganism strain

(Staphylococcus aureus, ATCC 6538): **> 8.58**

Average calculated bacteria removal rate of three tests (%)

(Staphylococcus aureus, ATCC 6538): **>99.9999%**

Average reduction factor per microorganism strain

(Escherichia coli, 8099): **>8.42**

Average calculated bacteria removal rate of three tests (%)

(Escherichia coli, 8099): **>99.9999%**

Lower drum

Average reduction factor per microorganism strain

(Staphylococcus aureus, ATCC 6538): **> 8.35**

Average calculated bacteria removal rate of three tests (%)

(Staphylococcus aureus, ATCC 6538): **>99.9999%**

Average reduction factor per microorganism strain

(Escherichia coli, 8099): **>8.44**

Average calculated bacteria removal rate of three tests (%)

(Escherichia coli, 8099): **>99.9999%**

TÜV SÜD Certification and Testing (China) Co., Ltd.

Tested by:

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Approved by:

Chenghong ZHU

(Designated reviewer)

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--- End of Report ---

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