



中国认可
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检测
TESTING
CNAS L12972

浙微测
FSDA Testing



TEST REPORT

Report Number: FB240613-14-D (XG1)

Sample Name: MASSPHOTON Q6060-A Air

Sterilizer

Submitting Unit: MASSPHOTON LIMITED

2024 Y 08 M 14 D

浙江弗里斯检测技术有限公司

Zhejiang Fries Testing Technology Co., Ltd.





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TEST REPORT

Acceptance number: B240613-14

Page 1 of 3

Sample name	MASSPHOTON Q6060-A Air Sterilizer	Sample quantity	1set
Submitting unit	MASSPHOTON LIMITED	Sample character	Complete machine
Production unit	MASSPHOTON LIMITED	Sample acceptance date	2024-06-13
Date of production/lot number	/	Completion date	2024-07-17
Type or specification	Q6060-A	trademark	MASSPHOTON

I. Testing basis:

GB 28235-2020 "Hygienic Requirements for Ultraviolet Appliance of Disinfection" Appendix C

II. Evaluation basis:

GB 28235-2020 "Hygienic Requirements for Ultraviolet Appliance of Disinfection"

III. Test conclusion:

1. Simulated field test of air disinfection effect: During testing, the sample "MASSPHOTON Q6060-A Air Sterilizer" was put in a closed 20m³ environmental test chamber and powered on, the sterilization mode was set, the running time was 2h, the test was repeated 3 times, and the killing rate of Staphylococcus alba 8032 was > 99.90% in each test, which meets the requirements of GB 28235-2020 "Hygienic Requirements for Ultraviolet Appliance of Disinfection".

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Legal representative (or authorized technical leader) (signature) meiqing Ma

Final audit date 2024 Y 08 M 22 D



FSDA4-QA-075XI03



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TEST REPORT

Acceptance number: B240613-14

Page 2 of 3

Sample name	MASSPHOTON Q6060-A Air Sterilizer	Sample acceptance date	2024-06-13
Inspection item	Simulated field test of air disinfection	Completion date	2024-07-17

I. Equipment:

1. Test strain: Staphylococcus albus 8032.
2. Test sample: MASSPHOTON Q6060-A Air Sterilizer.
3. Nutrient AGAR medium.
4. Air microorganism sampling device.
5. Environmental test chamber: 20m³.
6. Temperature and humidity meter, etc.

II. Methods:

1. Test basis: GB 28235-2020 "Hygienic Requirements for Ultraviolet Appliance of Disinfection" Appendix C.

2. The ambient temperature of the test chamber is 20℃ ~ 25℃, and the relative humidity is (50 ~ 70) %.

3. Brief description of test:

1) Aerosol spray staining: Put the comparison group and the experimental group in the test chambers, and spray aerosol, and use fans to stir at the same time. After spraying the aerosol, continue to stir for 5min and rest for 5min.

2) Sampling before disinfection: after the completion of spraying aerosol and resting for 5 minutes, samples were taken respectively from the test chambers of the comparison group and the experimental group before disinfection, and were used as positive comparison before the start of the comparison group and before the disinfection treatment of the experimental group.

3) The Sample "MASSPHOTON Q6060-A Air Sterilizer" is put in a closed 20m³ environmental test chamber and powered on, the sterilization mode is set, the running time is 2h, and the sample is taken after disinfection.

4) Negative comparison is conducted simultaneously;

5) The test was repeated three times.

III. Test results:

The Sample "MASSPHOTON Q6060-A Air Sterilizer" was put in a closed 20m³ environmental test chamber and powered on, the sterilization mode was set, and the operation time was 2h. The average killing rate of Staphylococcus alba 8032 was 99.92%. The results are shown in Table 1.

(Go to next page)



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Acceptance number: B240613-14

Page 3 of 3

(Next page)

Table 1 Results of simulated field test of air disinfection

Effect time	Test strain	Control group			Experimental group			Average kill rate (%)
		Bacteria in the air before the test V_0 (CFU/m ³)	Bacterial content of air after test V_t (CFU/m ³)	Natural death rate N_t (%)	Bacteria in the air before the test V_1 (CFU/m ³)	Bacterial content of air after test V_2 (CFU/m ³)	Kill ratio K_t (%)	
2h	Staphylococcus albus 8032	9.9×10 ⁴	7.5×10 ⁴	24.24	1.1×10 ⁵	71	99.91	
		7.1×10 ⁴	5.4×10 ⁴	23.94	7.8×10 ⁴	49	99.92	99.92
		5.6×10 ⁴	4.2×10 ⁴	25.00	6.3×10 ⁴	35	99.93	

1. No bacterial growth was observed in the negative control group.

Note:

$$\text{Natural extinction rate: } N_t = \frac{V_0 - V_t}{V_0} \times 100$$

$$\text{Killing rate: } K_t = \frac{V_1(1 - N_t) - V_2}{V_1(1 - N_t)} \times 100$$

IV. Conclusion: During testing, the sample "MASSPHOTON Q6060-A Air Sterilizer" was put in a closed 20m³ environmental test chamber and powered on, the sterilization mode was set, the running time was 2h, the test was repeated 3 times, and the killing rate of Staphylococcus alba 8032 was > 99.90% in each test, which meets the requirements of GB 28235-2020 "Hygienic Requirements for Ultraviolet Appliance of Disinfection".

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Legal representative (or authorized technical leader) (signature) *Meiqing Ma*

Final audit date *2020* Y *08* M *24* D



FSDA4-QA-075XI03

Report Explain

- 1、 If there is any objection to the inspection / test report, it shall be submitted to the company within 15 days after the report is received.
 - 2、 The company shall guarantee the fairness of the test, be responsible for the test data, and keep confidential the samples and technical data provided by the client.
 - 3、 The client shall be responsible for the authenticity of the provided technical files and samples.
 - 4、 Do not copy the test report partially.
 - 5、 This inspection / test report is invalid without the "Special Inspection Seal" or The Company's Official Seal; This test report is invalid without the signature of the authorized signatory; any alteration will be invalid.
 - 6、 The entrusted test is only responsible for the samples under normal circumstances.
 - 7、 When the CMA mark is not added in the report, the test data and results are only for scientific research, teaching, or internal quality control purposes.
- Note: This report replaces report FB240613-14-D issued on August 14, 2024, and the original report is invalid.

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