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CNAS L1747

GUANGDONG DETECTION CENTER OF MICROBIOLOGY

REPORT FOR ANALYSIS

Report No.

2022FM10597R01E

Name of Sample

OH-FEEL HYDROXYL AIR PROTECTION SYSTEM
(OH-FEEL OH500F08 Air sterilizer)

Applicant

SHENZHEN OH-FEEL TECHNOLOGY CO., LTD.

Test Type

Entrustment Test



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REPORT FOR ANALYSIS



Report №.:2022FM10597R01E Verification Code: 54039728

Name of Sample	OH-FEEL HYDROXYL AIR PROTECTION SYSTEM (OH-FEEL OH500F08 Air sterilizer)	Test Type	Entrustment Test
Applicant	SHENZHEN OH-FEEL TECHNOLOGY CO., LTD.	Address	3rd floor, No. 94 Langkou Industrial Park, Langkou community, Dalang Street, Longhua district, Shenzhen City.
Sample Source	Submitted for Testing by the Applicant	Sample Quantity	One Sample Submitted
Spec and Lot № of Sample	2022.02.17, OH500F08	State and Characteristic	Machine
Sample Received Date	2022-06-02	Test Completion Date	2022-06-24
Item Tested	Ozone concentration etc.		
Test Standard and Method	GB 28235-2020 etc.		
Test Conclusion	The test data of the sample(s) is attached to the page(s) of this report.		
Remarks	Issue Date: 2022-07-19 (Official Seal) 检验检测专用章		

Editor:

Chen Yingting

Verifier:

Sun Jie

Approver:

Xie Xiaobao



GUANGDONG DETECTION CENTER OF MICROBIOLOGY

ANALYSIS AND TEST RESULT

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1. Test items: Ozone concentration

1.1 Detection method: GB 28235-2020

1.2 Test results:

Sampling times	Ozone concentration (mg/m ³)	Sampling times	Ozone concentration (mg/m ³)	Average (mg/m ³)
1	0.006	2	0.007	0.006
3	0.006	4	0.007	
5	0.008	6	0.006	
7	0.005	8	0.006	
9	0.007	10	0.006	
11	0.006	12	0.006	

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Remarks

The sample turns on the sterilization button and the sterilization button in the 40m³ test chamber, and enters the sterilization mode for testing.



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2. Test items: Circulating air volume

2.1 Detection method: GB/T 14294-2008 Appendix B

Test Item	Air outlet area (m ²)	Serial number	Average wind speed (m/s)	Air volume (m ³ /h)	The average air volume (m ³ /h)	The total air volume (m ³ /h)
Circulating air volume	0.025	1	5.31	477.9	477.3	477.3
		2	5.30	477.0		
		3	5.30	477.0		

3. Test items: The UV intensity (leakage)(Device peripheral 30cm)

3.1 Detection method: GB 28235-2020 8.1.5.1

Test Item	Radiation intensity (μW/cm ²)			Standards Requirements
	Serial number 1	Serial number 2	Serial number 3	
The UV intensity (leakage) (Device peripheral 30cm)	0	0	0	≤5(μW/cm ²)

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Remarks	The sample turns on the sterilization button and the sterilization button, and enters the sterilization mode for testing.
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1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.



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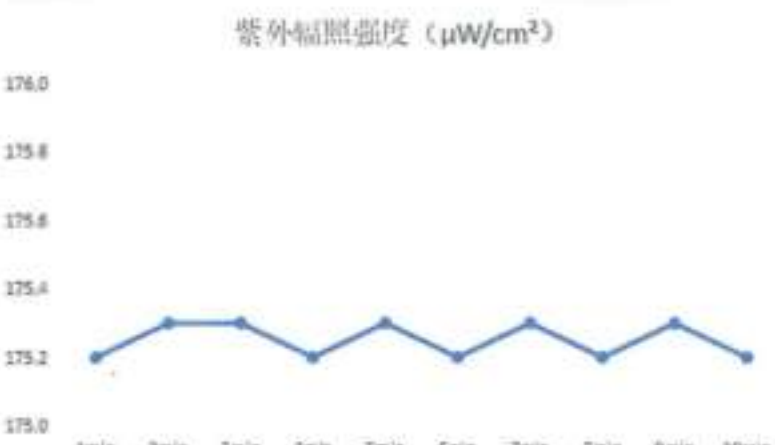
ANALYSIS AND TEST RESULT

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4. Test items: Ultraviolet radiation intensity

4.1 Detection method: GB 28235-2020 Appendix A

4.2 Test results:

| No. | Testing time | Irradiation intensity ($\mu\text{W}/\text{cm}^2$) | <p>紫外辐照强度 ($\mu\text{W}/\text{cm}^2$)</p>  |
|---------|--------------|---|--|
| 1 | 1 min | 175.2 | |
| 2 | 2 min | 175.3 | |
| 3 | 3 min | 175.3 | |
| 4 | 4 min | 175.2 | |
| 5 | 5 min | 175.3 | |
| 6 | 6 min | 175.2 | |
| 7 | 7 min | 175.3 | |
| 8 | 8 min | 175.2 | |
| 9 | 9 min | 175.3 | |
| 10 | 10 min | 175.2 | |
| Average | | 175.2 | |

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Remarks

Set the UV illuminometer at 1m vertical distance from the UV lamp.



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ANALYSIS AND TEST RESULT

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一. Test Equipment

1. The volume of test site: 40m^3 .

2. Use instrument: Biochemical incubator (No.: QFM-B-S051), BY-300 Air Microbial Sampler (No.: QFM-B-S046).

3. Medium: Nutrient agar (Lot No.: 20220523).

二. Method

1. Test method: Technical Standard for Disinfection (2002 Ministry of Health P.R.China)-2.1.3

2. Test conditions: temperature: 24.8°C , Relative humidity: 62%.

3. Method description: In a 40m^3 laboratory, use BY-300 air microbial sampler to sample at a flow rate of $28.3\text{L}/\text{min}$. Place the sampler at a height of 1m in the center of the laboratory. Set a sampling point. The sampling time is 5min. The sample machine to be tested is installed at the far end of the laboratory. The tested prototype is installed at the far end of the laboratory, The sample turns on the sterilization button and the sterilization button, and enters the sterilization mode for testing, The action time was 60min. use the same method to sample the air in the space at the same sampling point. The sampling time is 5min. The petri dishes after air sampling are placed in an incubator and incubate at 37.0°C for 48h. The experiment is repeated three times.

三. Test Result

| Action time | Test organism | Serial Number | Number of control colonies before disinfection
(cfu/ m^3) | Number of remaining colonies after disinfection
(cfu/ m^3) | Extinction rate (%) |
|-------------|-------------------------|---------------|--|---|---------------------|
| 60min | Natural bacteria in air | 1 | 2.1×10^3 | 1.6×10^2 | 92.38 |
| | | 2 | 2.6×10^3 | 2.3×10^2 | 91.15 |
| | | 3 | 1.7×10^3 | 1.2×10^2 | 92.94 |

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ANALYSIS AND TEST RESULT

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— Test Equipment

1. The volume of the aerosol chamber: 20m^3

2. Test strain: *Staphylococcus albicans* (8032) the strain is the 4th generation.

3. Use instrument: Biochemical incubator (No. :QFM-B-S051), Water bath (No. :QFM-B-K038), JW-6 Six level sieve pore striker air microorganism sampler (No. :OFM-B-S006).

4. Medium: Nutrient agar (Lot No.:20220606).

二、Method

1. Test method: Technical Standard for Disinfection (2002 Ministry of Health P.R.China)-2.1.3.4

2. Test conditions: temperature: 23.9°C, Relative humidity: 65%.

3. Method description: Method description: The test was conducted in a 20m³ aerosol chamber. The temperature, humidity and air pressure of the aerosol chamber were adjusted to meet the test requirements. The pressure and the air flow of the atomizer were pre-set, and the bacteria suspension was sprayed into the entire aerosol chamber while the fan was stirred in this spray procedure. After that, the fan continued to stir for 5min and then stood for 5min. The number of positive control bacteria should reach for $5.0 \times 10^4 \text{ cfu/m}^3 \sim 5.0 \times 10^6 \text{ cfu/m}^3$. An air sampler was used to sample the test group and the control group in the aerosol chamber before disinfection. The sampler was placed at a height of 1m in the middle of the aerosol chamber and was sampled at a flow rate of 28.3L/min for 10s. In the test group, the tested machine was installed at the far end of the aerosol chamber, The sample turns on the sterilization button and the sterilization button, and enters the sterilization mode for testing, The action time was 1h. The test group was sampled in accordance with the above method, and the sampling time was 5min. The control group was treated at the same way with no test machine in the chamber and the sampling time after treatment was 10s. The petri dishes after air sampling were placed in an incubator and incubated at 37°C for 48h. The experiment was repeated three times.

三. Test Result

| Test strain | Action time | Test group | Control group | | Test group | |
|----------------------------------|-------------|------------|---|-----------------------------|---|------------------|
| | | | Number of viable colonies (cfu/m ³) | Natural extinction rate (%) | Number of viable colonies (cfu/m ³) | Killing rate (%) |
| <i>Staphylococcus albus</i> 8032 | 0 | 1 | 1.1×10 ⁵ | / | 1.3×10 ⁵ | / |
| | | 2 | 1.3×10 ⁵ | / | 1.4×10 ⁵ | / |
| | | 3 | 1.2×10 ⁵ | / | 1.5×10 ⁵ | / |
| | 1h | 1 | 7.5×10 ⁴ | 31.82 | 28 | 99.97 |
| | | 2 | 8.7×10 ⁴ | 33.08 | 28 | 99.97 |
| | | 3 | 7.9×10 ⁴ | 34.17 | 28 | 99.97 |
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