

Guangzhou CAS Test Technical Services Co., Ltd. Page No.: 1 of 6

Report Date: 2020/08/11





201819000873

Applicant: Qierling (Beijing) Health Technology Co., Ltd.

Address: No. 101-42/101-43 (Dongsheng district), 9th Floor, No 1 Building, No 8th, Heiquan

Road, Haidian District, Beijing City.

The following merchandise was (were) submitted and identified by the client as:

Name of Sample:

720 DS-X1000W Air Purifiering Disinfector

Test Type:

Commission

Sample Quantity:

Model:

DS-X1000W

Batch No.:

Brand:

720

Manufacturer:

Healthlead Corproation Limited

Sample Received:

2020/07/22

Test Period:

2020/07/22-2020/08/11

Please refer to next page(s).

Test Items:

Please refer to next page(s).

Test Method: Test Result:

Please refer to next page(s).

Sample Description:

Machine

The appearance, color pattern, and network connection of model DS-X1000N are

Note:

different from the main test model DS-X1000W, but the rest of the electrical

structure and filter materials are exactly the same as the main test model.

Edited by:

Approved by:

Checked by:

Official Seal:

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TEST RESULTS (1):

Table 1 Summary of test results												
Chapter	Test Item(s)		Unit	Test Result(s)		Limiting Value	Test Method(s)					
	PM	Staphylococcus aureus	-3	60min	>99.99	, CV	656					
4.2.1	Removal rate (Simulated field test)	Escherichia coli	%	60min	>99.99	≥50%	Nill					
		Candida albicans		60min	>99.99		GB 21551.3-2010					
		Aspergillus niger		60min	>99.99							
		Pseudomonas aeruginosa		60min	>99.99		Em.					
		Klebsiella pneumoniae		60min	>99.99		90,					



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TEST RESULTS (2):

No.	C.			of removal rat				701
C.	Test time (min)	Test number	Control group			Test §	YCh.	
Test bacteria			Colony count before test V_0 (CFU/m ³)	Colony count after test V_t (CFU/m ³)	Natural decay rate N, (%)	count before test V ₁ (CFU/m ³)	Colony count after test V_2 (CFU/m ³)	Removal rate K, (%)
3	60	1	1.02×10 ⁵	7.87×10 ⁴	22.84	1.06×10 ⁵	<6	>99.99
Staphylococcus aureus		2	8.87×10 ⁴	6.56×10 ⁴	26.04	9.18×10 ⁴	<6	>99.99
		3	1.09×10 ⁵	8.07×10 ⁴	25.96	1.09×10 ⁵	<6	>99.99
Jen.		Mean	all a second					>99.99
100	60	1	8.06×10 ⁴	5.72×10 ⁴	29.03	8.36×10 ⁴	<6	>99.99
50 %		2	8.87×10 ⁴	6.56×10 ⁴	26.04	9.10×10 ⁴	<6	>99.99
Escherichia coli		3	1.03×10 ⁵	7.49×10 ⁴	27.28	1.04×10 ⁵	<6	>99.99
		Mean	13		103			>99.99
		1	7.95×10 ⁴	5.72×10 ⁴	28.05	7.82×10 ⁴	<6	>99.99
	s 60	2	7.39×10 ⁴	5.24×10 ⁴	29.09	7.60×10 ⁴	<6	>99.99
Candida albicans		3	9.96×10 ⁴	7.47×10 ⁴	25.00	9.81×10 ⁴	<6	>99.99
		Mean	200					>99.99
7	Min	1	6.54×10 ⁴	4.97×10 ⁴	24.01	6.84×10 ⁴	<6	>99.99
Aspergillus	60	2	9.18×10 ⁴	6.61×10 ⁴	28.00	9.44×10 ⁴	<6	>99.99
niger		3	8.26×10 ⁴	6.19×10 ⁴	25.06	8.44×10 ⁴	<6	>99.99
		Mean		90		×00.	265	>99.99
	60	10	1.22×10 ⁵	8.90×10 ⁴	27.05	1.12×10 ⁵	<6	>99.99
Pseudomonas		2	8.45×10 ⁴	6.26×10 ⁴	25.92	8.18×10 ⁴	<6	>99.99
aeruginosa		3	1.28×10 ⁵	9.71×10 ⁴	24.14	1.25×10 ⁵	<6	>99.99
		Mean	0,			6)		>99.99
00		1	7.26×10 ⁴	5.66×10 ⁴	22.04	6.88×10 ⁴	<6	>99.99
Klebsiella	60	2	8.16×10 ⁴	6.53×10 ⁴	19.98	8.34×10 ⁴	<6	>99.99
pneumoniae		3	9.14×10 ⁴	6.95×10 ⁴	23.96	9.36×10 ⁴	<6	>99.99
76		Mean	_ XV	5 ^y	المارية المارية		$N_{D_s} = -$	>99.99

***** TO BE CONTINUED *****

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Inspection instructions:

1. Test method

GB 21551.3-2010 Antibacterial and cleaning function for household and similar electrical appliances-Particular requirement of air cleaner (Annex A)

2. Test microorganism

Staphylococcus aureus ATCC6538, Escherichia coli 8099, Candida albicans ATCC10231, Aspergillus niger CMCC98003, Pseudomonas aeruginosa ATCC15442, Klebsiella pneumoniae ATCC13883

- 3. Test conditions
 - 1) Environment temperature:(20~25)°C
 - 2) Environment humidity:(50~70)%RH
- 4. Test equipment

Test chamber (30 m³), six-stage sieve sampler (FA-1), Microbial aerosol generator, NA,SDA,PDA.

5. Operation conditions of the machine

Set the switch to position"Maximum Wind Speed".

6. Computational formula

Natural decay rate
$$N_{i}(\%) = \frac{V_{0} - V_{i}}{V_{0}} \times 100$$

where: V_0 = Colony count before test of control group; V_t = Colony count after test of control group

Removal Rate
$$K_{i}(\%) = \frac{V_{1} \times (1 - N_{i}) - V_{2}}{V_{1} \times (1 - N_{i})} \times 100$$

where: V_1 = Colony count before test of test group; V_2 = Colony count after test of test group.

***** TO BE CONTINUED *****



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SAMPLE PHOTO



***** END OF REPORT ******



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Statement

- 1. This report is issued by The Guangzhou CAS Test Technical Services Co., Ltd (hereinafter referred to as "Our Company").
- 2. This report is invalid if not affixed with authorized stamp of test and paging seal.
- 3. This report is invalid without signature of verifier and approver.
- 4. This report is invalid if being supplemented, deleted or altered.
- 5. Without written permission of our Company, this report can not be reproduced in part (except in whole).
- 6. The result(s) shown in this report refer only to the sample(s) tested, but do not apply to the same batch, size or brand of products (except the test samples) or to prove the related methods of making, processing or production of the test sample(s), or the correctness and rationality of processes or process.
- 7. Objections to this report must be submitted to our Company within 15 days. Otherwise, it will automatically deem to have accepted this report.
- 8. The Client shall be responsible for the accuracy, authenticity and completeness of the samples and information submitted for inspection, and the disputes arising therefrom shall be borne by the Client.
- 9. As any reports is issued as a result of this application for testing services, our Company will strictly keep confidentiality to the Clients. Except where disclosure is required on the basis of laws, regulations, judgments, and rulings (including in accordance with summons, court, or government proceedings).
- 10. The result(s) or conclusion(s) shown in this report about the description of the characteristics, composition, properties or quality are based on the specific time, methods and applicable criteria. Using different methods and criteria or under different environmental conditions for testing may come to different conclusions.
- 11. Since our Company's causes lead to modify the contents of this report, our Company shall reissue this report and bear the modification cost. The Client shall return the original report. Since the Client's cause lead to modify the contents of this report, the Client need to submit an application form for the change of report to our Company. The Client shall bear the modification cost and return the original report if our Company approves to reissue this report.
- 12. The English version of this statement is translated from the Chinese one. If there is any disagreement between them, the Chinese version will be the final explanation.