



201819000873

TEST REPORT



中国认可
国际互认
检测
TESTING
CNAS L7673

Applicant : CARAVAN EXPRESS SRL
Address : Republic of MOLDOVA, Chisinau city, Decebal Boulevard 76, postal code MD-2038

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

Name of Sample : Bactericidal air recirculator
Test Type : Commission
Sample Quantity : 1 PC
Model : RBI 100-1200
Production date or batch No. : 2024-6-3
Brand : ALICOM
Manufacturer: CARAVAN EXPRESS SRL
Sample Received : 2025/08/11
Test Period : 2025/08/15 – 2025/08/17
Test Items : Please refer to next page(s).
Test Method : Please refer to next page(s).
Test Result : Please refer to next page(s).
Sample Description : Machine
Note: /

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Official Seal: 中科检测技术服务(广州)股份有限公司 检验检测专用章

TEST RESULTS:

Table 1 Summary of test results							
Chapter	Test Item(s)		Unit	Test Result(s)		Limiting value	Test Method(s)
5.3.1	Bacteria removal rate	<i>Klebsiella pneumoniae</i>	%	120 min	99.98	≥50%	GB/T 18801-2022

Table 2 Test data of sterilizing function evaluation of air cleaner							
Test bacteria	Test time (min)	Test number	Control group		Test group		Removal rate K_t (%)
			Colony count before test V_0 (CFU/m ³)	Colony count after test V_t (CFU/m ³)	Colony count before test V_1 (CFU/m ³)	Colony count after test V_2 (CFU/m ³)	
<i>Klebsiella pneumoniae</i>	120	1	8.55×10 ⁴	4.06×10 ⁴	9.33×10 ⁴	12	99.97
		2	9.71×10 ⁴	4.34×10 ⁴	9.94×10 ⁴	12	99.97
		3	9.04×10 ⁴	4.54×10 ⁴	8.76×10 ⁴	6	99.99
		Mean					99.98

Inspection instructions:

- Test method
GB 21551.3-2010 Antibacterial and cleaning function for household and similar electrical appliances- Particular requirement of air cleaner (Annex A)
- Test microorganism
Klebsiella pneumoniae ATCC4352
- Test conditions
1) Environment temperature:(20~25)°C
2) Environment humidity:(50~70) %RH
- Test equipment
Test chamber (30 m³), six-stage sieve sampler (FA-1), Microbial aerosol generator, NA
- Operation conditions of the machine
Set the switch to position "Maximum Wind Speed".
- Computational formula

$$\text{Natural decay rate } N_t(\%) = \frac{V_0 - V_t}{V_0} \times 100$$

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

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

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

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

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