



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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Checked by: 王 宇

Official Seal: 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 <sup>3</sup> ) | Colony count after test $V_t$ (CFU/m <sup>3</sup> ) | Colony count before test $V_1$ (CFU/m <sup>3</sup> ) | Colony count after test $V_2$ (CFU/m <sup>3</sup> ) |                        |
| <i>Klebsiella pneumoniae</i> | 120             | 1           | $8.55 \times 10^4$                                   | $4.06 \times 10^4$                                  | $9.33 \times 10^4$                                   | 12                                                  | 99.97                  |
|                              |                 | 2           | $9.71 \times 10^4$                                   | $4.34 \times 10^4$                                  | $9.94 \times 10^4$                                   | 12                                                  | 99.97                  |
|                              |                 | 3           | $9.04 \times 10^4$                                   | $4.54 \times 10^4$                                  | $8.76 \times 10^4$                                   | 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 m<sup>3</sup>), 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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