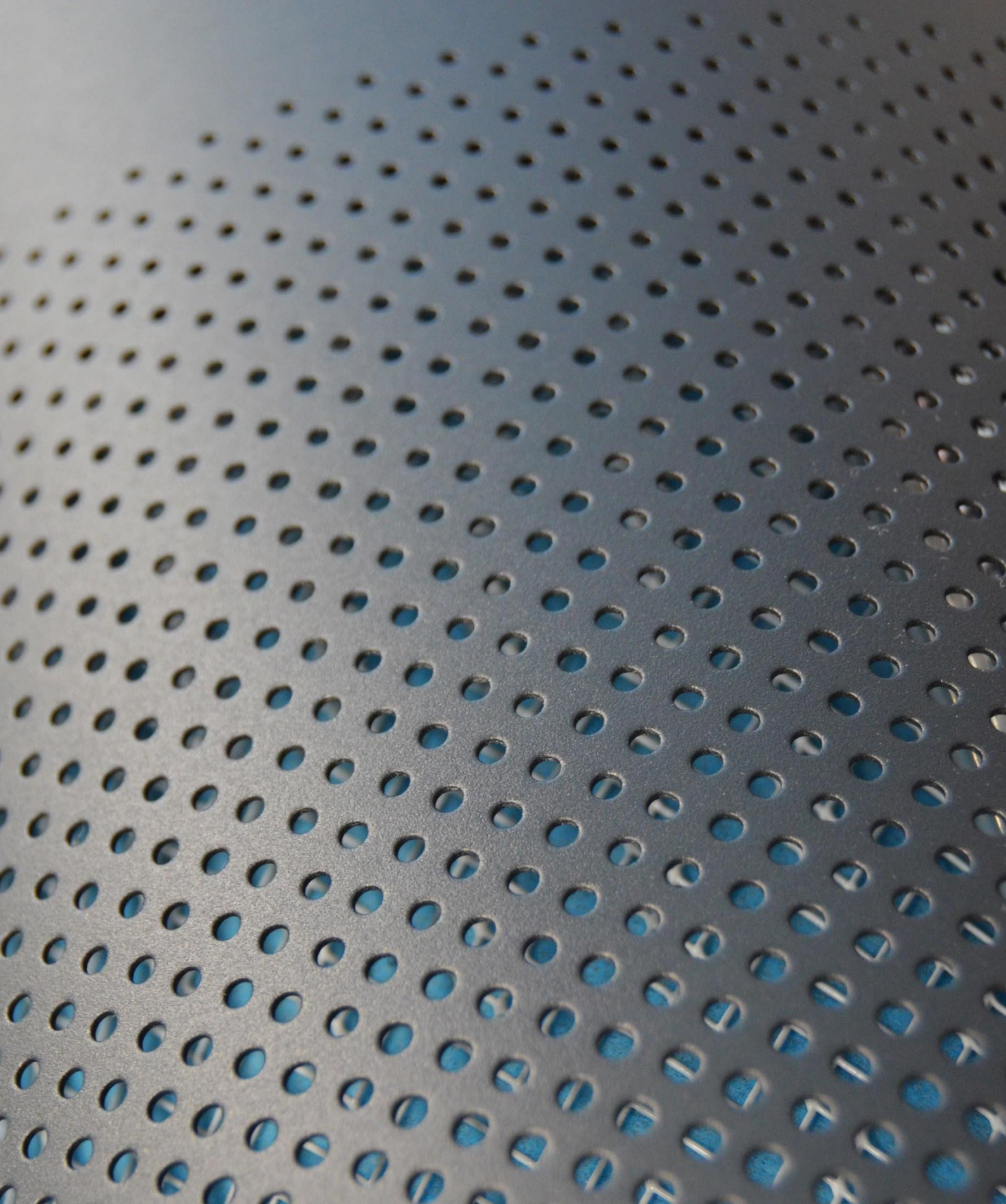


**AirExchange<sup>®</sup>**

Certificates and Test Reports

AirExchange<sup>®</sup> 150-T



**All certificates and test reports have been performed by accredited test institutions.**

**For obtaining these certificates and for testing, representative units were used.**

The AirExchange® 150-T (AE 150) complies with the following conformity relative standards:


The RoHS Directive 2011/65/EU	The EMC Directive 2014/30/EU
Amendment (EU) 2015/863	EN IEC 55014-1 2021 EN IEC 55014-2: 2021
<b>Additional Test Reports</b>	
Purification capacity (CADR) of 150 m <sup>3</sup> /u	
Average sound pressure of 40.3 dB(A)	
Virus elimination efficiency of >99,68% (Influenza A/H1N1)	
<b>No</b> emission of harmful pollutants such as ozone	

***These certificates grant allowance for the usage of the following approval markings/signs:***



Attestation of Conformity of:

'The RoHS Directive' (1/1):


ReportNo.:LH-220101030228

---

## Test Report

**Applicant** : AirExchange  
**Manufacturer** : AirExchange® Confidential Information

**The submitted sample and sample information was/were submitted and identified by/on the behalf of the client**


**Sample name** : Desktop air purifier AirExchange 150-T  
**Sample Model** : AE-150  
**Brand Name** : AirExchange

**TEST INFORMATION**  
**Date of Receipt** : 2022-01-12  
**Date of Test** : 2022-01-12 to 2022-01-20  
**Test Method** : Please refer to the following page(s).  
**Test Result(s)** : Please refer to the following page(s).

Test Requested	Conclusion
As specified by client, according to RoHS Directive 2011/65/EU with amendment (EU) 2015/863 to test Lead (Pb), Cadmium (Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs), Phthalates(DBP, BBP, DEHP, DIBP) in the submitted sample(s)	Pass

**Test/Witness Engineer** : York xin

**Approved & Authorized** : Jack su



Shenzhen LH Testing Technology Co., Ltd.  
 201~203, building 22, Yongli Industrial Zone, Tangxi, guxing community, Xixiang street

Bao'an District, Shenzhen  
 Tel: +0755-23217660 Email: lihancert@163.com www.lh-cert.com

Certification is approved and tests are conducted by the following accredited test institution:

Shenzhen LH Testing Technology Co.

B201-203, building 22, Yongli Industrial Zone, Tangxi, Xixiang street, Bao'an District, Shenzhen

**Allowance for the usage of the following approval markings/signs:**



\*For further details regarding test reports, please contact [info@airexchange.nl](mailto:info@airexchange.nl)




Attestation of Conformity of:

'The EMC Directive' (1/1):

Certification is approved and tests are conducted by the following accredited test institution:

Shenzhen LH Testing Technology Co.

B201-203, building 22, Yongli Industrial Zone, Tangxi, Xixiang street, Bao'an District, Shenzhen

	Report No.: LH-220101030227
<h2>EMC Test Report</h2>	
<b>Application No.</b>	: LH-220101030227
<b>Applicant</b>	: AirExchange® Confidential Information
<b>Equipment Under Test (EUT)</b>	
<b>EUT Name</b>	: Desktop air purifier
<b>Model No.</b>	: AirExchange 150-T
<b>Serial No.</b>	: N/A
<b>Brand Name</b>	: AirExchange
<b>Receipt Date</b>	: 2022-01-12
<b>Test Date</b>	: 2022-01-12 to 2022-01-20
<b>Issue Date</b>	: 2022-01-20
<b>Standards</b>	: EN IEC 55014-1: 2021 EN IEC 55014-2: 2021
<b>Conclusions</b>	: <b>PASS</b>
<small>In the configuration tested, the EUT complied with the standards specified above. The EUT technically complies with the 2014/30/EU directive requirements.</small>	
<b>Test/Witness Engineer</b>	: Tim Chen
<b>Approved &amp; Authorized</b>	: Andy Zhang
	
	
This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in _____ the _____ report.	
<small>Shenzhen LH Testing Technology Co., Ltd. 201~203, building 22, Yongli Industrial Zone, Tangxi, guxing community, Xixiang street, Bao'an District, Shenzhen Tel: +0755-23217660 Email: lihancert@163.com www.lh-cert.com</small>	

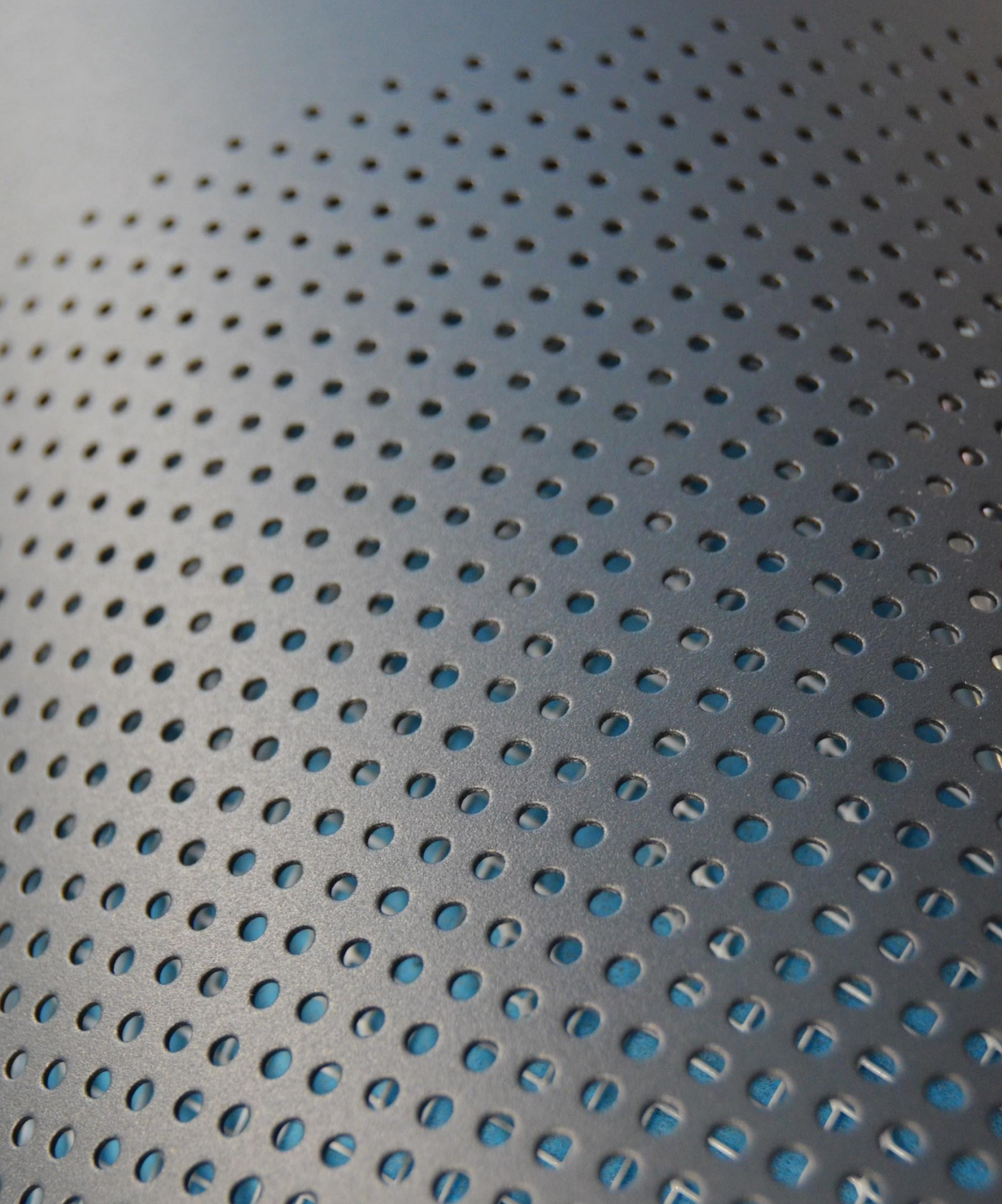
**Allowance for the usage of the following approval markings/signs:**








\*For further details regarding test reports, please contact [info@airexchange.nl](mailto:info@airexchange.nl)

**AirExchange<sup>®</sup>**

**Additional Test Reports**



Test Report regarding the cleaning efficiency (CADR) and the sound pressure: (1/3):



   		Test No. KJ20201922	
<b>GUANG ZHOU INSTITUTE OF MICROBIOLOGY</b> <b>TEST REPORT</b>			
Date Received: May. 06, 2020 Date Analyzed: May. 13, 2020			
<b>Name of Sample</b>	AirExchange 150-T	<b>Source of Sample</b>	Delivery
<b>Applicant</b>	AirExchange	<b>Sample Grade</b>	---
<b>Manufacturer</b>	AirExchange® Confidential Information	<b>Brand</b>	AirExchange
<b>Sample Description</b>	Machine	<b>Quantity of Sample</b>	1 PC
		<b>State of Sample</b>	Machine
<b>Sample Picture</b>			
<b>Standard and Methods</b>	1. GB/T 18801-2015 Air cleaner 2. GB/T 4214.1-2017 The method for noise of household and similar electrical appliances-General requirements		
<b>Items of Analysis</b>	1. CADR (Particulate) 2. Noise		
<b>Remarks</b>	This test report is the English additional edition of KJ2021922 issued on June 05, 2020.		
***To be continued***			

This test is conducted by the following accredited test institution:


**GUANG ZHOU INSTITUTE OF MICROBIOLOGY CO., LTD.**

NO. 1 Jiantashan Road, Huangpu District, Guang-thou City, Guangdong Province

Test Report regarding the cleaning efficiency (CADR) and the sound pressure: (2/3):

国际互认  
检测  
TESTING  
CGAS L0823



202019001121

Test No. KJ20201922

**GUANG ZHOU INSTITUTE OF MICROBIOLOGY**

**TEST REPORT**

Date Received: May. 06, 2020  
Date Analyzed: May. 13, 2020

Method for Measuring Clean Air Delivery Rate of Particulate:

1. Test Object  
Particulate ( $\geq 0.3 \mu\text{m}$ )
2. Test Conditions:
  - 1) Environment temperature:  $(25 \pm 2) ^\circ\text{C}$
  - 2) Environment humidity:  $(50 \pm 10)\% \text{RH}$
3. Test Equipment  
Test chamber ( $30 \text{ m}^3$ ), Particle Detector (SX-L301N)
4. Operational Conditions of the Machine  
Set the switch to position "the 3rd gear".
5. Test Procedure
  - 1) Place the air cleaner to be tested in the test chamber in accordance with standard request and set the air cleaner controls to the conditions for test. Test for proper operation, then turn off the air cleaner.
  - 2) Using the test chamber HEPA filter, allow the test chamber air to clean until the background concentration in the size range of  $0.3 \mu\text{m}$  to  $10 \mu\text{m}$  reaches a concentration of less than 1000 particles/L. Simultaneously operate the environmental control devices until the test chamber conditions have reached the requirements.
  - 3) When an acceptable test chamber background concentration is achieved record the background concentration, turn off the test chamber environmental control system.
  - 4) Immediately light, then place one standard cigarette in the cigarette smoke generator, seal generator, open valve to chamber, to provide the required initial concentration ( $2 \times 10^6 \sim 2 \times 10^7$  particles/L). Turn off air supply and close test chamber valve. Mix cigarette smoke for ten minutes after the initial concentration has been reached.
  - 5) Turn off ceiling mixing fan, begin to acquire the cigarette smoke particulate concentration. This test point is the initial concentration ( $C_0$ ).
  - 6) Open the air cleaner and start the test as soon as the initial concentration of particulate matter is completed. Collect samples at 2min intervals for 20 min.
  - 7) Test the natural decay according to the steps 1)- 6), except that the air cleaner is unoperated.
6. Computational Formula  

$$\text{CADR } Q (\text{m}^3 / \text{h}) = 60 \times (k_c - k_n) \times V$$

Where :  $k_c$  = total decay constant;  $k_n$  = natural decay constant;  $V$  = volume of the test chamber,  $\text{m}^3$



Test Results				
Number of Sample	Pollutant	Natural Decay Constant $k_n (\text{min}^{-1})$	Total Decay Constant $k_c (\text{min}^{-1})$	CADR $Q (\text{m}^3/\text{h})$
KJ20201922-1	Particulate	0.0021	0.0855	150.1
***To be continued***				

This test is conducted by the following accredited test institution:


**GUANG ZHOU INSTITUTE OF MICROBIOLOGY CO., LTD.**

NO. 1 Jiantashan Road, Huangpu District, Guang-thou City, Guangdong Province

Test Report regarding the cleaning efficiency (CADR) and the sound pressure: (3/3):

中国认可  
国际互认  
检测  
TESTING  
CNAS H823 202019001121



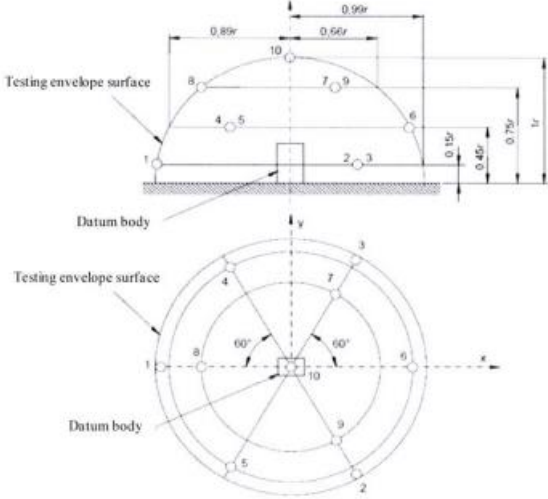
Test No. KJ20201922

**GUANG ZHOU INSTITUTE OF MICROBIOLOGY  
TEST REPORT**

Date Received: May. 06, 2020  
Date Analyzed: May. 13, 2020


**Measuring of Noise:**



1. Test Environment: semi-anechoic chamber; Background Noise: 15.3 dB(A)
2. Operational Conditions of the Machine  
Set the switch to position "The 3rd gear".
3. Testing Envelope Surface: hemisphere envelope surface; Testing Radius:  $r=1.5$  m. Test schematic diagrams are showed as follows:




Test Results		
Number of Sample	Average Sound Pressure Level dB(A)	Acoustic Power Level dB(A)
KJ20201922-1	40.3	51.8

\*\*\*End of report\*\*\*

Editor: 

Checker:  Issuer: 

Date Reported: \_\_\_\_\_



This test is conducted by the following accredited test institution:

**GUANG ZHOU INSTITUTE OF MICROBIOLOGY CO., LTD.**

NO. 1 Jiantashan Road, Huangpu District, Guang-thou City, Guangdong Province

\*For further details regarding test reports, please contact [info@airexchange.nl](mailto:info@airexchange.nl)




Test Report regarding the removal of virus particles (Influenza A/H1N1) 1/2:

Test No. KY20220057

**GUANG ZHOU INSTITUTE OF MICROBIOLOGY CO., LTD.**  
**NATIONAL CENTER OF QUALITY INSPECTION AND TESTING OF AIR PURIFICATION PRODUCTS**

**TEST REPORT**

Date Received: Mar. 09, 2022  
 Date Analyzed: Mar. 14, 2022

<b>Name of Sample</b>	AirExchange 150-T	<b>Source of Sample</b>	Delivery
<b>Applicant</b>	AirExchange	<b>Sample Grade</b>	---
<b>Manufacturer</b>	AirExchange® Confidential Information	<b>Brand</b>	AirExchange
<b>Sample Description</b>	Machine	<b>Quantity of Sample</b>	1 PC
		<b>State of Sample</b>	Machine
<b>Sample Picture</b>			
<b>Standard and Methods</b>	1. Referring to T/SAEPI 005-2020 Measurement of virus removal activity of indoor air cleaner and similar products 2. Referring to GB 21551.3-2020 Antibacterial and cleaning function for household and similar electrical appliances-Particular requirements of air cleaner		
<b>Items of Analysis</b>	Virus Removal Rate (Influenza A virus A/PR8/34 H1N1)		
<b>Remarks</b>	The data of this report are provided by GUANG DONG HUA WEI TESTING CO., LTD.		

\*\*\*To be continued\*\*\*

This test is conducted by the following accredited test institution:

**GUANG DONG HUA WEI TESTING CO.**

This test is approved by the following accredited institution:

**GUANG ZHOU INSTITUTE OF MICROBIOLOGY CO., LTD.**

NO. 1 Jiantashan Road, Huangpu District, Guang-thou City, Guangdong Province

**Test Report regarding the removal of virus particles (Influenza A/H1N1) 2/2:**

Test No. KY20220057

**GUANG ZHOU INSTITUTE OF MICROBIOLOGY CO., LTD.**

**TEST REPORT**

Date Received: Mar. 09, 2022  
Date Analyzed: Mar. 14, 2022

**Virus Removal Test:**

1. Test Virus and Host Cells
  - 1) Strain: *Influenza A virus A/PR8/34 H1N1*
  - 2) Cells: MDCK
2. Test Conditions
  - 1) Environment temperature: (20~25) °C
  - 2) Environment relative humidity: (50~70) %
  - 3) Test time: 120 min
  - 4) The volume of the test chamber: 30 m<sup>3</sup>
  - 5) Machine setting: "The 3rd gear".

3. Computational Formula

$$\text{Natural decay rate } N_t (\%) = \frac{V_0 - V_1}{V_0} \times 100$$

$$\text{Virus Removal Rate } K_t (\%) = \frac{V1 \times (1 - N_t) - V2}{V1 \times (1 - N_t)} \times 100$$

Where:  $V_0$  = Original Virus Concentration of Control Group;

$V_1$  = Final Virus Concentration of Control Group;

$V_2$  = Original Virus Concentration of Test Group;

$V_3$  = Final Virus Concentration of Test Group.

4. Test Results

Virus	Test Time (min)	Test Number	Virus Titer of Control Group			Virus Titer of Test Group		Virus Removal Rate (%)
			Original Concentration (TCID <sub>50</sub> /m <sup>3</sup> )	Final Concentration (TCID <sub>50</sub> /m <sup>3</sup> )	Natural Decay Rate (%)	Original Concentration (TCID <sub>50</sub> /m <sup>3</sup> )	Final Concentration (TCID <sub>50</sub> /m <sup>3</sup> )	
H1N1	120	1	6.32×10 <sup>6</sup>	9.35×10 <sup>5</sup>	85.21	4.28×10 <sup>6</sup>	2.00×10 <sup>7</sup>	99.68
		2	1.78×10 <sup>6</sup>	3.02×10 <sup>5</sup>	83.03	3.80×10 <sup>6</sup>	1.78×10 <sup>5</sup>	99.72
		3	7.48×10 <sup>6</sup>	9.42×10 <sup>5</sup>	87.41	3.42×10 <sup>6</sup>	1.60×10 <sup>5</sup>	99.63
		Mean						99.68

Note: The control cells grew normally.

\*\*\*End of report\*\*\*

This test is conducted by the following accredited test institution:

**GUANG DONG HUA WEI TESTING CO.**

This test is approved by the following accredited institution:

**GUANG ZHOU INSTITUTE OF MICROBIOLOGY CO., LTD.**

NO. 1 Jiantashan Road, Huangpu District, Guang-thou City, Guangdong Province

Editor

郭同珍

Checker

郑苗

Issuer



王怡卡

Date Reported

2022.4.5



Test Report regarding the emission of harmful substances (such as ozone and UVC leakage) 1/4:

		中国认可 国际互认 检测 TESTING CNAS L0823		202019005395
<p>广州市微生物研究所有限公司 Guang Zhou Institute of Microbiology Co., Ltd. 国家空气净化产品质量检验检测中心 National Center of Quality Inspection and Testing on Air Purification Products</p>				
<p><b>检测报告</b> <b>TEST REPORT</b></p>				
Report Number	KJ20220945			
Name of Sample	Air Purifier			
Applicant	AirExtender B.V.			
Page 1 of 4				





This test is conducted by the following accredited test institution:

Guang Zhou Institute of Microbiology Co., Ltd.

National Center of Quality Inspection and Testing on Air Purification Products

NO.1 Jiantashan Road, Huangpu District, Guangzhou City, Guangdong Province

Test Report regarding the emission of harmful substances (such as ozone and UVC leakage) 2/4:

  		中国认可 国际互认 检测 TESTING CNAS L0823 202019005395		Test No. KJ20220945
<b>GUANG ZHOU INSTITUTE OF MICROBIOLOGY CO., LTD.</b> <b>NATIONAL CENTER OF QUALITY INSPECTION AND TESTING ON AIR PURIFICATION PRODUCTS</b>				
<b>TEST REPORT</b>				
Date Received: May. 23, 2022			Date Analyzed: Jun. 06, 2022	
Name of Sample	Air Purifier	Source of Sample	Delivery	
Applicant	AirExtender B.V.	Client		
Manufacturer	AirExchange® Confidential Information	Brand	<b>AirExchange®</b>	
Type and Specification	150-T	Quantity of Sample	IPC	
Date of Production	---	State of Sample	Machine	
Batch Number	---	Packing of Sample	In box	
Sample Picture				
Standard and Methods	GB/T 18202-2000 Hygienic standard for ozone in indoor air			
Items of Analysis	Ozone Concentration			
Remarks	---			
***To be continued***				
Page 2 of 4				

This test is conducted by the following accredited test institution:

Guang Zhou Institute of Microbiology Co., Ltd.

National Center of Quality Inspection and Testing on Air Purification Products

NO.1 Jiantashan Road, Huangpu District, Guangzhou City, Guangdong Province

Test Report regarding the emission of harmful substances (such as ozone and UVC leakage) 3/4:



中国认可  
国际互认  
检测  
TESTING  
CNAS L0823



202019005395

Test No. KJ20220945

GUANG ZHOU INSTITUTE OF MICROBIOLOGY CO., LTD.  
NATIONAL CENTER OF QUALITY INSPECTION AND TESTING  
ON AIR PURIFICATION PRODUCTS

TEST REPORT

Date Received: May. 23, 2022

Date Analyzed: Jun. 06, 2022

Method for Testing Ozone Concentration:

- 1. Test Equipment
  - Test chamber (30 m³), Ozone Analyzer
- 2. Operation Conditions of the Machine
  - Set the switch to position "the 3rd gear".
- 3. Test Procedures
  - 1) Put the test sample in the 30 m³ test chamber.
  - 2) Test the background concentration.
  - 3) After turning on the machine, test the ozone concentration 1.5 m above the ground as required by the standard. The measurement time is 1 h, and the results are averaged.

Test Results

Items	Units	Results	Standard Request (GB 18202-2000)
Ozone Concentration	mg/m³	<0.003	≤0.1

\*\*\*End of report\*\*\*

Editor

张茜

Checker

黄永良

Issuer

丁世华

Date Reported



This test is conducted by the following accredited test institution:

Guang Zhou Institute of Microbiology Co., Ltd.

National Center of Quality Inspection and Testing on Air Purification Products

NO.1 Jiantashan Road, Huangpu District, Guangzhou City, Guangdong Province

Test Report regarding the  
emission of harmful substances  
(such as ozone and UVC leakage)  
4/4:



中国认可  
国际互认  
检测  
TESTING  
CNAS L0823



202019005395

### Statements

1. The report would be invalid under the following conditions: altered, added, deleted, copied, without the special seal for inspection or signatures by approver.
2. For the received sample, the sample information in the report is claimed by the applicant, the inspection unit is not responsible for its authenticity. The report is responsible for the received sample only.
3. If there is any objection to the inspection report, it should be presented to the inspection unit within 15 working days from the issuance date, otherwise the report shall be deemed as having been accepted. Microbiological item is not subjected to retest.
4. The items marked with“\*”in the report are not accredited by CNAS and CMA. The items marked with“\*”are accredited by CNAS. The items marked with“\*”are accredited by CMA.
5. The test data and results of items which are not accredited by CMA, only can be used as scientific research, teaching or internal quality control.
6. Any ambiguity by the language which used in the report, the Chinese shall prevail.

Contact Address : NO.1Jiantashan Road, Huangpu District, Guangzhou City, Guangdong Province

Test Address : (only fill in when it's different from the contact address)

Postal Code : 510663 Tel. :

(8620)31606167

(8620)62800791

URL : <http://www.ggtest.com.cn>

This test is conducted by the  
following accredited test  
institution:

Guang Zhou Institute of  
Microbiology Co., Ltd.

National Center of Quality  
Inspection and Testing on Air  
Purification Products

NO.1 Jiantashan Road, Huangpu District,  
Guangzhou City, Guangdong Province