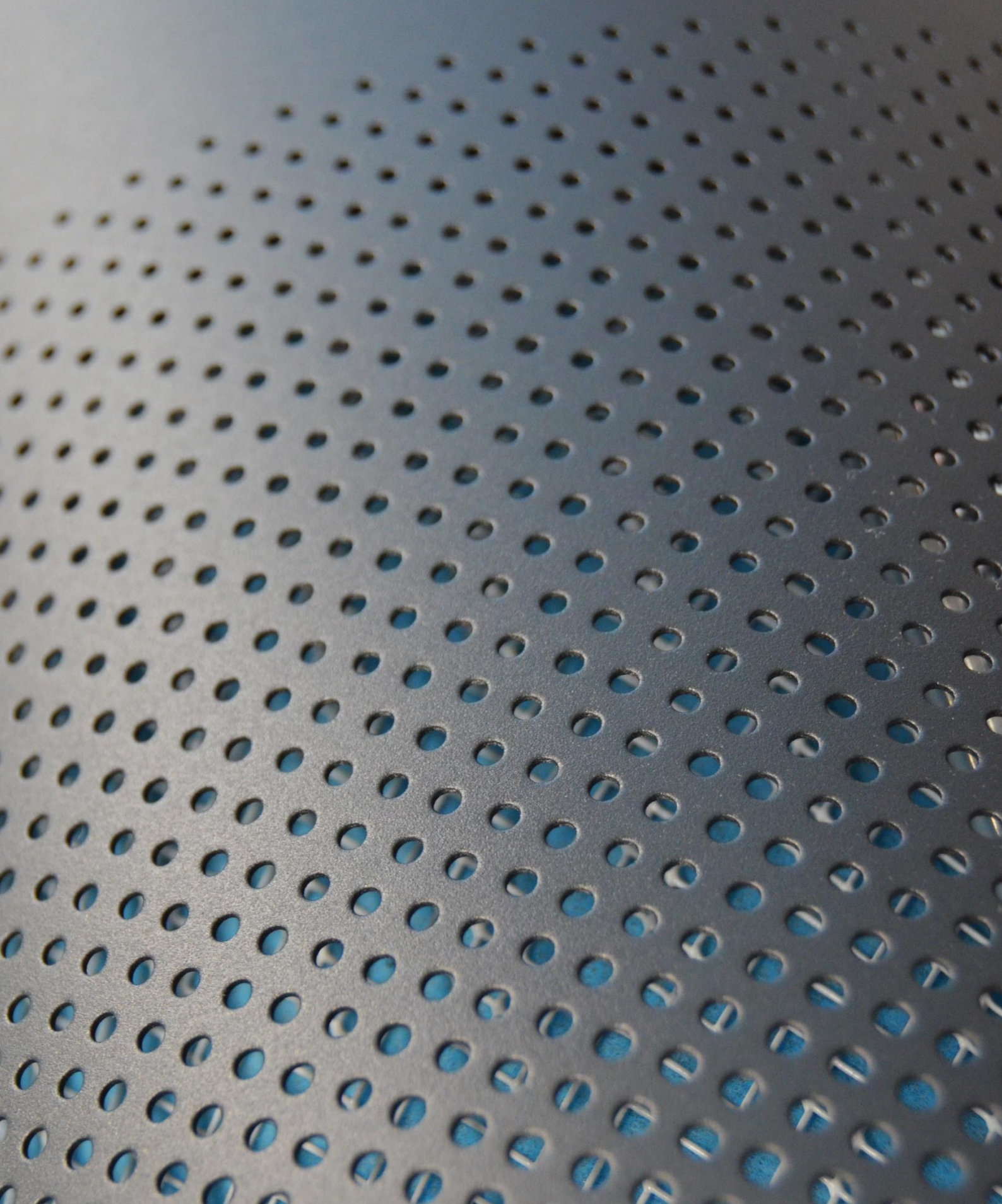


AirExchange[®]

Certificates and Test Reports



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® 1500-T (AE 1500-T) complies with the following conformity relative standards:

The Low Voltage Directive 2014/35/EU	The EMC Directive 2014/30/EU
<p>EN 60335-2-65: 2003 A1:2008 A11:2012</p> <p>EN 60335-1: 2012 A11:2014 A13:2017 A1:2019 A14:2019 A2:2019</p> <p>EN 62233: 2008</p>	<p>EN IEC 55014-1: 2021</p> <p>EN IEC 55014-2: 2021</p> <p>EN IEC 61000-3-2: 2019 A1:2021</p> <p>EN 61000-3-3: 2013 A1:2019</p>
Additional Test Reports	
HEPA H14-filter efficiency of 99.997%, as tested and approved by TÜV SÜD.	
No emission of harmful pollutants such as ozone or UVC leakage, as tested and approved by SGS-CSTC.	

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



Attestation of Conformity of:

'The Low Voltage Directive' (1/3):



Verification of Conformity

Registration No.: A2112219-C01-S01
Report No. : A2112219-C01-R01
Applicant : AirExchange® Confidential Information
Address : AirExchange® Confidential Information
EC-Representative : /
Address : /
Product : Air Disinfection Machine
Model No. : AirExchange® 1500-T (AE 1500-T)
Ratings : 220-240V~, 50/60Hz, 135W

The submitted products have been tested by us with the listed standards and found in compliance with the following European Directives:

The Low Voltage Directive 2014/35/EU

EN 60335-2-65:2003 +A1:2008 +A11:2012
EN 60335-1:2012 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2:2019
EN 62233:2008

The test results apply only to the particular sample tested and to the specific tests carried out. This verification applies specifically to the sample investigated in our test reference number only.

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

Shenzhen Alpha Product Testing Co., Ltd.

Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen City, Guangdong Province, P.R. China

Certified by: Kevin Mei
Date: January 14, 2021



Shenzhen Alpha Product Testing Co., Ltd.

Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen City, Guangdong Province, P.R. China

Website: <http://www.a-lab.cn> Email: service@a-lab.cn



The CE marking may only be used if all relevant and effective EC directives are complied with.



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



Attestation of Conformity of:

'The Low Voltage Directive' (2/3):

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

Shenzhen Alpha Product Testing Co., Ltd.

Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen City, Guangdong Province, P.R. China






TEST REPORT IEC / EN 60335-2-65 Safety of household and similar electrical appliances Part II : Particular requirements for air-cleaning appliances	
Report Reference No.....	A2112219-C01-R01
Tested by (name + signature)	Max Peng 
Approved by (name + signature)	Kaiden Guo 
Date of issue.....	January 14, 2022
Testing Laboratory	Shenzhen Alpha Product Testing Co., Ltd
Address	Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen, Guangdong, China
Testing location / procedure	TL [<input checked="" type="checkbox"/>] SMT [<input type="checkbox"/>] TMP [<input type="checkbox"/>]
Testing location / address	(Same as above.)
Applicant's name	AirExchange® Confidential Information
Address	AirExchange® Confidential Information
Test specification:	
Standard	EN 60335 1:2012 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2:2019 EN 60335-2-65:2003 + A1:2008 + A11:2012 EN 62233:2008
Test procedure	LVD procedure
Non-standard test method.....	N/A
Test Report Form No	IEC60335_2_65M
Test Report Form(s) Originator	DEKRA Certification B.V.
Master TRF.....	Dated 2021-09-30
Test item description	Air Disinfection Machine
Model/Type reference	AirExchange® 1500-T (AE 1500-T)
Trademark	N/A
Ratings	220-240V~, 50/60Hz, 135W
Model different.....	N/A
Manufacturer	AirExchange® Confidential Information
Address	Room 209, Building C, Baoan New Generation Information Technology Industrial Park, No.139, Chuangye Second Road, Xin'an Sub-district, Bao'an District, Shenzhen, China



Attestation of Conformity of:

'The Low Voltage Directive' (3/3):

<p>Test item particulars:</p> <p>Classification of installation and use.....: Portable appliance</p> <p>Supply Connection: Detachable power cord with plug</p> <p>Protection against electric shock: Class I appliance</p> <p>Mass.....: 25kg</p>	
<p>Possible test case verdicts:</p> <p>- test case does not apply to the test object: N(/A)</p> <p>- test object does meet the requirement.....: P(Pass)</p> <p>- test object does not meet the requirement.....: F(Fail)</p>	
<p>Testing</p> <p>Date of receipt of test item: December 31, 2021</p> <p>Date (s) of performance of tests: January 04-13, 2021</p>	
<p>General remarks:</p> <p>The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.</p> <p>"(see appendix #)" refers to additional information appended to the report. "(see appended table)" refers to a table appended to the report.</p> <p>Throughout this report a comma (point) is used as the decimal separator.</p> <p>Instructions and equipment marking related to safety is applied in the language that is acceptable in the country in which the equipment is to be sold.</p>	
<p>Copy of marking plate:</p> <div style="border: 1px solid black; padding: 10px; text-align: center;"> <p>Air Disinfection Machine</p> <p>Model No.: AE 1500-T</p> <p>Rating: 220-240V~, 50/60Hz, 135W</p> <p>    </p> <p>Manufacturer: AirExchange® Confidential Information</p> <p>Address: AirExchange® Confidential Information</p> <p>Importer: XXX</p> <p>Adress: XXX</p> </div> <p>Note: The height of the letters is not less than 2mm, the height of the WEEE logo is not less than 7mm, height of CE mark at least 5mm, height of other marks at least 5mm.</p>	

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

Shenzhen Alpha Product Testing Co., Ltd.

Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen City, Guangdong Province, P.R. China



Attestation of Conformity of:

'The EMC Directive' (1/2):



Verification of Conformity

Registration No.: A2112220-C01-E01

Report No. : A2112220-C01-R01
Applicant : AirExchange® Confidential Information
Address : AirExchange® Confidential Information

EC-Representative : /
Address : /

Product : Air Disinfection Machine

Model No. : AirExchange® 1500-T (AE 1500-T)

The submitted products have been tested by us with the listed standards and found in compliance with the following European Directives:

The EMC Directive 2014/30/EU

EN IEC 55014-1:2021

EN IEC 55014-2:2021

EN IEC 61000-3-2:2019+A1:2021

EN 61000-3-3:2013+A1:2019

The test results apply only to the particular sample tested and to the specific tests carried out. This verification applies specifically to the sample investigated in our test reference number only.

Certified by:

Simple Guan

Date:

January 4, 2021



Shenzhen Alpha Product Testing Co., Ltd.

Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen City, Guangdong Province, P.R. China

Website: <http://www.a-lab.cn> Email: service@a-lab.cn



The CE marking may only be used if all relevant and effective EC directives are complied with.



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

Shenzhen Alpha Product Testing Co., Ltd.

Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen City, Guangdong Province, P.R. China



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



Attestation of Conformity of:

‘The EMC Directive’ (2/2):

TEST REPORT DECLARATION

Applicant : AirExchange® Confidential Information
 Address : AirExchange® Confidential Information

Manufacturer : AirExchange® Confidential Information

EUT Description : Air Disinfection Machine
 (A) Model No. : AirExchange® 1500-T (AE 1500-T)
 (B) Trademark : N/A

Measurement Standard Used:

- EN IEC 55014-1:2021**
- EN IEC 55014-2:2021**
- EN IEC 61000-3-2:2019+A1:2021**
- EN 61000-3-3:2013+A1:2019**

The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed full responsibility for the accuracy and completeness of test. Also, this report shows that the EUT is technically compliant with the EN IEC 55014-1, EN IEC 61000-3-2, EN 61000-3-3 and EN IEC 55014 -2 requirements.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

Tested by (name + signature).....: Ben Sun
 Project Engineer

Approved by (name + signature).....: Simple Guan
 Project Manager

Date of issue.....: December 31, 2021



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

Shenzhen Alpha Product Testing Co., Ltd.

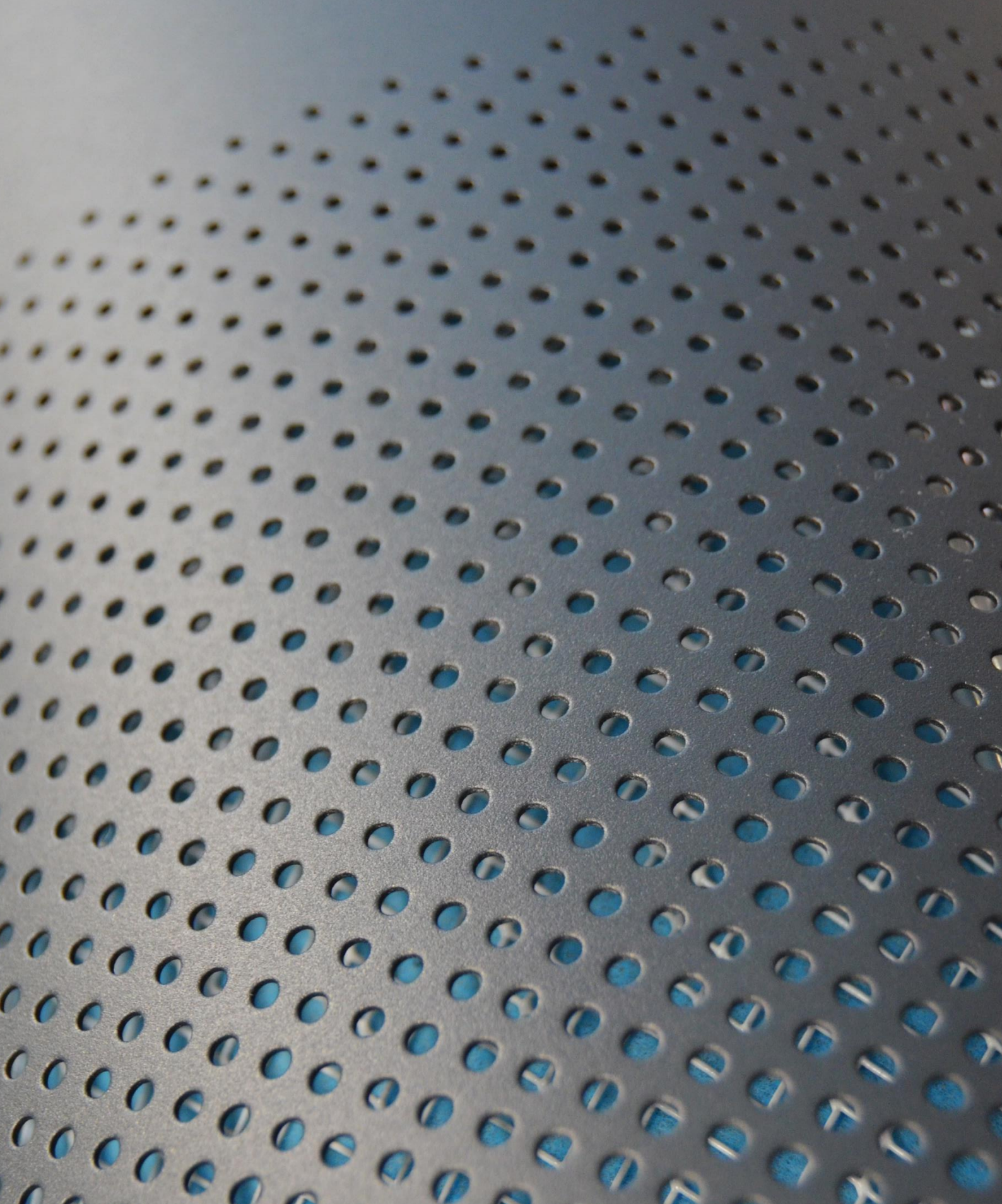
Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen City, Guangdong Province, P.R. China



*For further details regarding test reports, please contact info@airexchange.nl

AirExchange[®]

Additional Test Reports



**Test Report regarding the
HEPA H14-filter efficiency (1/5):**

This test is conducted by the following accredited test institution:

TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch

5F, Communication Building, 163 Pingyun Rd, Huangpu West Ave. Guangzhou 510656



Technical Report



1. Description of the test object

1.1 Function

HEPA filter is used on Air Purifier

Manufacturer's specification for intended use:
Same as above

Manufacturer's specification for predictive use:
Same as above

1.2 Consideration of the foreseeable use

- Not applicable
- Covered through the applied standard
- Covered by the following comment*
- Covered by attached risk analysis

1.3 Technical Data

Model	H14
Rated Voltage (V)	N/A
Rated Frequency (Hz)	N/A
Rated Power (W)	N/A
Protection Class	N/A
Degree of Protection	N/A
Construction	N/A
Supply connection	N/A
Operation mode	N/A
Climate Class	N/A
Rated capacity (ml), if any	N/A
Weight (kg)	N/A
Nominal air volume flow rate (m³/h)	200 m³/h

2. Order

2.1 Date of Purchase Order, Customer's Reference

2021-11-19;

Report No.: 64.180.21.06058.01

www.tvsud.com

TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch
5F, Communication Building, 163 Pingyun Rd, Huangpu West Ave. Guangzhou 510656

Date: 2022-01-18



Tel: +86 20 38320668

Page 2 of 6

Doc No.: ITC-TTW0902.02E - Rev. 10

Test Report regarding the HEPA H14-filter efficiency (2/5):

This test is conducted by the following accredited test institution:

TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch

5F, Communication Building, 163 Pingyun Rd, Huangpu West Ave. Guangzhou 510656



Technical Report



2.2 Test Sample(s)

- Reception date(s): 2021-11-23, 2021-12-20, 2022-01-06
- Location(s) of reception: TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch
- Condition of test sample(s): Good

2.3 Date(s) of Testing 2021-11-24 to 2022-01-14

2.4 Location(s) of Testing TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch, TÜV SÜD Group

2.5 Points of Non-Compliance or Exceptions of the Test Procedure

None

3. Test Results

Decision rule according to IEC Guide 115:2021, clause 4.4.3, 4.5.1 was applied.

3.1. Test data for filtration performance:

Table 1		Filtration performance					
Test air volume flow rate m ³ /h		200					
Dimensions (L x W x H) mm		540 x 265 x 70					
Test aerosol substances		DEHS					
Particle size range(µm)		0.1-0.15	0.15-0.2	0.2-0.25	0.25-0.3	0.3-0.5	0.5-1.0
Sample No	△ Pa	Fractional efficiency (%)					
22-0024-01	21	99.995	99.998	99.999	99.999	>99.999	>99.999
Efficiency (0.1-0.25µm), (%)		99.997					
Supplementary information: the air inlet side tested is blue side of filter.							

Remark:

1. Classification of EPA, HEPA and ULPA filters according to EN 1822-1:2019 refer to below table:

Doc No.: ITC-TTVM0902.02E - Rev. 10

Report No.: 64.180.21.08058.01

www.tuvsud.com

TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch
5F, Communication Building, 163 Pingyun Rd, Huangpu West Ave. Guangzhou 510656

Date: 2022-01-18



Tel: +86 20 38320668

Page 3 of 6

Test Report regarding the
HEPA H14-filter efficiency (3/5):

Technical Report



Filter Group Filter Class	Integral value	
	Efficiency (%)	Penetration (%)
E10	≥ 85	≤ 15
E11	≥ 95	≤ 5
E12	≥ 99,5	≤ 0,5
H13	≥ 99,95	≤ 0,05
H14	≥ 99,995	≤ 0,005
U15	≥ 99,999 5	≤ 0,000 5
U16	≥ 99,999 95	≤ 0,000 05
U17	≥ 99,999 995	≤ 0,000 005

4. Remarks

4.1 The rating label is not provided for the test sample. And the sample was installed and used according to the manufacturer's instructions.

5. Documentation

5.1 Photo documentation:

Details of: General view



Doc No.: ITC-TTW0902.02E - Rev. 10

This test is conducted by the following accredited test institution:

TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch

5F, Communication Building, 163 Pingyun Rd, Huangpu West Ave. Guangzhou 510656

Report No.: 64.180.21.06058.01

www.tuvsud.com

TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch
5F, Communication Building, 163 Pingyun Rd, Huangpu West Ave. Guangzhou 510656

Date: 2022-01-18

Page 4 of 8



Tel: +86 20 38320668

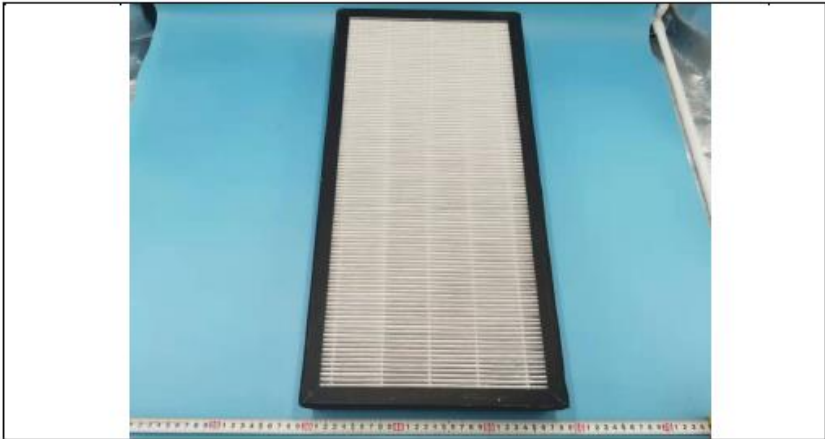


Test Report regarding the
HEPA H14-filter efficiency (4/5):

Technical Report



Details of: General view (other side)



Details of: Filter



Doc No.: ITC-TTM0602.02E - Rev. 10

This test is conducted by the
following accredited test
institution:

**TÜV SÜD Certification and Testing
(China) Co., Ltd. Guangzhou Branch**

5F, Communication Building, 163 Pingyun
Rd, Huangpu West Ave. Guangzhou
510656

Report No.: 64.180.21.08058.01

www.tvsud.com

TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou
Branch
5F, Communication Building, 163 Pingyun Rd, Huangpu West Ave.
Guangzhou 510656

Date: 2022-01-18

Page 5 of 6



Tel: +86 20 38320668



**Test Report regarding the
HEPA H14-filter efficiency (5/5):**

Technical Report



6. Summary

This report is only for test result, without verdict.

**TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch
TÜV SÜD Group**

Tested by: **Mason Mai** *Mason Mai*
Project Handler
printed name, function & signature

Approved by: **Relly Ren** *Relly Ren*
Designated Reviewer
printed name, function & signature



--- End of Report ---

Doc.No.: ITC-TFW0902.02E - Rev. 10

Report No.: 64.180.21.06058.01 www.tuvsud.com TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch
Date: 2022-01-18 5F, Communication Building, 163 Pingyun Rd, Huangpu West Ave. Guangzhou 510656
Page 6 of 6 **TUV®** Tel: +86 20 38320688

This test is conducted by the following accredited test institution:

TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch

5F, Communication Building, 163 Pingyun Rd, Huangpu West Ave. Guangzhou 510656



*For further details regarding test reports, please contact info@airexchange.nl

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

The following sample(s) were submitted and identified on behalf of the client as:

Summary Test Report

Report No.: GZES220100037831

Date: 2022-01-18

Applicant: **AirExchange® Confidential Information**

Manufacturer: **AirExchange® Confidential Information**

Manufacturing location: **AirExchange® Confidential Information**

Testing location/address: SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Room 105, Building A, Xinlong Technology Park, No. 50 Fengtang Road, Xintian Community, Fuyong Street, Bao'an District, Shenzhen, China

The standards: Clause 32.101 and 32.102 according to IEC 60335-2-65: 2002 + A1: 2008 + A2: 2015

Test item description: Air Disinfection Machine

Trade Mark(s): --

Model/Type reference: AirExchange® 1500-T (AE 1500-T)

Ratings: 230 V ~; 50 Hz; 135W.

Test result: Pass

Remark: According to client's request, only performed Clause 32 according to above mentioned standards.



Brad Luo

Brad Luo
Reviewer

Jeep Lin

Jeep Lin
Project Engineer

This test is conducted by the following accredited test institution:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Room 105, Building A, Xinlong Technology Park, No. 50 Fengtang Road, Xintian Community, Fuyong Street, Bao'an District, Shenzhen, China



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Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1663, or email: CH.邓卓斌@sgs.com


SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch, Shenzhen Laboratory

中国-深圳·宝安区福永街道新田社区凤凰大道50号鑫龙科技园105室 邮编: 518103 t: (86-755) 26710253 f: (86-755) 26710254 www.sgs.com.cn
中國-深圳·宝安区福永街道新田社区凤凰大道50号鑫龙科技园105室 邮编: 518103 t: (86-755) 26710253 f: (86-755) 26710254 sgs.china@sgs.com

Member of the SGS Group (SGS SA)



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

		Summary Test Report	Report No.: GZES220100037831
			Date: 2022-01-18
Copy of marking plate			
N/A			
Summary of testing:			
Tests according to the following standards were carried out:			
Clause 32.101 and 32.102 of IEC 60335-2-85: 2002 + A1: 2008 + A2: 2015			
Test location/address:			
For Clause 32.101: SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch Building 1, European Industrial Park, No.1, Shunhe South Road, Wusha, Daliang, Shunde District, Foshan, Guangdong, China			
For Clause 32.102: SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch Room 105, Building A, Xinlong Technology Park, No. 50 Fengtang Road, Xintian Community, Fuyong Street, Bao'an District, Shenzhen, China			
Models HA-1968, HA-1968Pro, HA-1968Plus. All models differ only in appearance and model name.			
After reviewing, tests were carried out on model HA-1968. Test voltage: 230V.			
Test item particulars		Air Disinfection Machine	
Classification of installation and use.....		Portable appliance	
Supply connection.....		Non-detachable power cord fitted with plug	
Possible test case verdicts:			
- test case does not apply to the test object		N/A	
- test object does meet the requirement.....		P (Pass)	
- test object does not meet the requirement.....		F (Fail)	
Testing			
Date of receipt of test item		2022-01-08	
Date (s) of performance of tests		2022-01-07 to 2022-01-13	
General product information:			
The appliance is for general household and indoor use only.			

This test is conducted by the following accredited test institution:


SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Room 105, Building A, Xinlong Technology Park, No. 50 Fengtang Road, Xintian Community, Fuyong Street, Bao'an District, Shenzhen, China



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Attention: To check the authenticity of testing inspection report & certificate, please contact us at china@sgs.com (86-756) 83071443, or email CN_Docscheck@sgs.com
Shenzhen Branch: 深圳市宝安区西乡街道铁岗社区铁岗大道50号富洋街105号 邮编: 518103 | (86-756) 26012003 | (86-756) 26710004 | www.sgs.com | (86-756) 26710004 | sgs.china@sgs.com
Member of the SGS Group (SGS SA)



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




Summary Test Report

Report No.: GZES220100037831

Date: 2022-01-18

Ozone and UV test of clause 32 of IEC 60335-2-85			
Clause	Requirement + Test	Result - Remark	Verdict
32.	RADIATION, TOXICITY AND SIMILAR HAZARDS		-
32.101	The ozone concentration produced by air-cleaning appliances is not excessive and does not exceed 5 x 10 ⁻⁸ percent (IEC 60335-2-85/A2)		P
	Highest ozone percentage measured.....:	24h 0,28 x 10 ⁻⁶ percent	P
32.102	Appliances do not emit radiation in hazardous amount (IEC 60335-2-85/A2)		P
	Total irradiance measured for wavelength 200 – 280 nm.....:	2,03 mW/m ² (Limit: 3 mW/m ²)	P
	Spectral irradiance measured.....:	Less than 2,5 nm	P
	Total irradiance measured for wavelength 250 – 400 nm.....:	0,58 mW/m ² (Limit: 1 mW/m ²)	P



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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Room 105, Building A, Xinlong Technology Park, No. 50 Fengtang Road, Xintian Community, Fuyong Street, Bao'an District, Shenzhen, China



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



Report No.: GZES220100037831
Date: 2022-01-18

Summary Test Report

32.102 Appliances do not emit radiation in hazardous amount


1 Test conditions

For appliances incorporating lamps emitting UV radiation, compliance is checked by the following test:

The appliance is supplied at rated voltage and operated under normal operation. The irradiance is measured at a distance of 300 mm, the measuring instrument being positioned so that the highest radiation is recorded. If the appliance has an inspection window, the measuring distance is reduced to 0 mm.

Appliances shall have a total irradiance not exceeding 0,003 W/m², for wavelengths between 200 nm and 280 nm.
The total irradiance shall not exceed 1 mW/m² for wavelengths between 250 nm and 400 nm.

The total irradiance	
For wavelengths between 200 nm and 280 nm	For wavelengths between 250 nm and 400 nm
$I = \sum_{200\text{ nm}}^{280\text{ nm}} E_{\lambda} \Delta\lambda$ <p>Where I is the total irradiance; Eλ is the spectral irradiance in Wm⁻²nm⁻¹; $\Delta\lambda$ is the wavelength interval in nm.</p>	$E = \sum_{250\text{ nm}}^{400\text{ nm}} S_{\lambda} E_{\lambda} \Delta\lambda$ <p>Where E is the total effective irradiance; Eλ is the spectral irradiance in Wm⁻²nm⁻¹; Sλ is the weighting factor specified in Table 1; $\Delta\lambda$ is the wavelength interval in nm.</p>



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