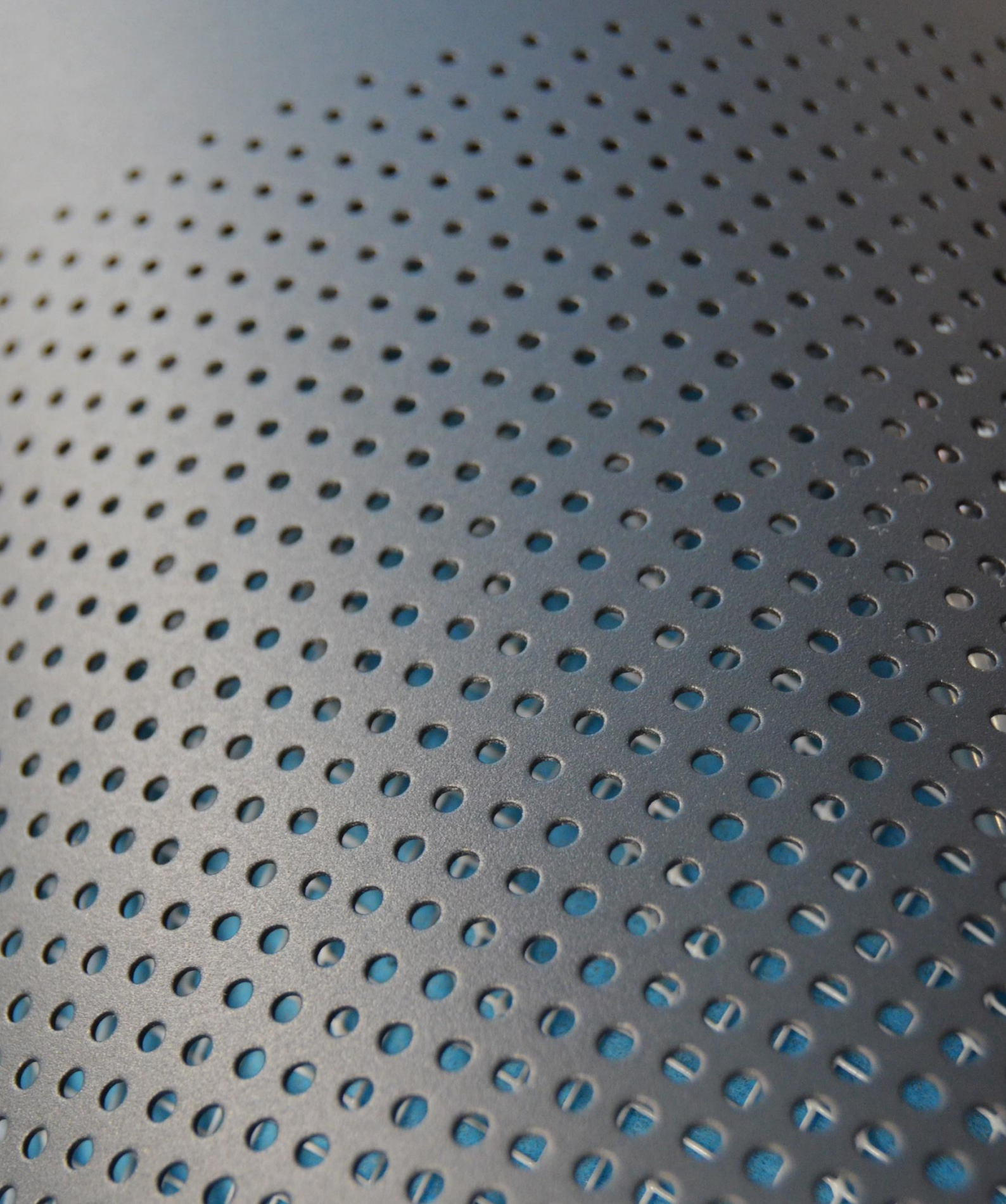


AirExchange[®]

Certificates & Test Reports

AirExchange[®] WTW-HC-Series



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® HC-Series (AE 350-HC, AE 620-HC and AE950-HC) complies with the following conformity relative standards:

Related to CE Directive(s):	Related to safety, health and radio:
The Low Voltage Directive 2014/35/EU The EMC Directive 2014/30/EU	
EN IEC 61000-3-2: 2019 / A1:2021 EN 61000-3-3: 2013/ A2:2021 EN 55014-1: 2021 EN IEC 55014-2: 2021 EN 60335-1: 2012/A15:2021 EN 60335-2-65: 2003+A12:2022 EN 60335-2-40: 2003/A13:2012/AC:2013 EN 62233: 2008	Safety: EN 60335-1:2012+A11:2014+A13:2017 A1:2019+A14:2019+A2:2019+A15:2021 +A16:2023 EN 62233:2008 Health: EN IEC 62311:2020 EN 50665:2017 Radio: ETSI EN 300 328 V2.2.2 (2019-07)
Additional Test Reports	
HEPA H14-filter efficiency of 99.997%, as tested and approved by TÜV SÜD.	

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



Attestation of Conformity of:

The Low Voltage Directive 2014/35/EU

The EMC Directive 2014/30/EU

(1/2)

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

Ente Certificazione Macchine Srl

Via Ca' Bella, 243 – Loc. Castello di
Serravalle – 40053 Valsamoggia
(BO) - ITALY

Certificate – Сертификат – 證明書 – Certificat – 증명서 –Form QAT_10-M04, version 02, effective since October 07th, 2022**CERTIFICATE**

No. 6H221220.GAEST27

Test Report / Technical Construction File no. UK221202070S, UK221202070E, UK221202070R

Certificate's
Holder:

AirExchange® Confidential Information

Certification
ECM Mark

Product:

DC Invert Fresh Air Heat Pump

Model(s):

(see the following annex)

Verification to:

Standard:

(see the following annex)

related to CE Directive(s):

2014/35/EU (Low Voltage)

2014/30/EU (Electromagnetic Compatibility)

This document has been issued in accordance with the European Commission's note of 14 September 2022 ref. Ares (2022) 6342894 concerning voluntary certifications with a non-notified procedure.

The manufacturer has voluntarily decided to submit its documents concerning the above-mentioned product for verification. Ente Certificazione Macchine confirms that the documentation made available and immediately returned to it, as containing sensitive data, meets the essential requirements of the above-mentioned directives. The verification activity carried out exclusively concerned the technical documentation and no verification was carried out on the product. This document cannot replace the EC Declaration of Conformity. The above conformity mark can be affixed to the technical documentation in accordance with the ECM regulation on its issue and use.

Issuance date: 20 December 2022**Expiry date: 19 December 2027**

Approver
Ente Certificazione Macchine
Legal Representative
Luca Bedonni

**Ente Certificazione Macchine Srl**

Via Ca' Bella, 243 – Loc. Castello di Serravalle – 40053 Valsamoggia (BO) - ITALY

Attestation of Conformity of:

The Low Voltage Directive 2014/35/EU

The EMC Directive 2014/30/EU

(2/2)

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

Ente Certificazione Macchine Srl

Via Ca' Bella, 243 – Loc. Castello di
Serravalle – 40053 Valsamoggia
(BO) - ITALY

Certificate – Сертификат – 證明書 – Certificat – 증명서 –

Form QAT_10-M04, version 02, effective since October 07th, 2022**Annex I**

No. 6H221220.GAEST27

Test Report / Technical Construction File no. UK221202070S, UK221202070E, UK221202070R

Model(s):

AirExchange® 350-HC (AE 350-HC)

AirExchange® 620-HC (AE 620-HC)

AirExchange® 950-HC (AE 950-HC)

Standard:

EN IEC 61000-3-2:2019/A1:2021, EN 61000-3-3:2013/A2:2021,
EN 55014-1:2021, EN IEC 55014-2:2021, EN 60335-1:2012/A15:2021,
EN 60335-2-65:2003+A12:2022, EN 60335-2-40:2003/A13:2012/AC:2013,
EN 62233:2008

Ente Certificazione Macchine Srl

Via Ca' Bella, 243 – Loc. Castello di Serravalle – 40053 Valsamoggia (BO) - ITALY

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



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

Attestation of Conformity of:

Electrical Equipment (Safety)
Regulations 2016

Electromagnetic Compatibility
Regulations 2016

(1/2)

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

Ente Certificazione Macchine Srl

Via Ca' Bella, 243 – Loc. Castello di
Serravalle – 40053 Valsamoggia
(BO) - ITALY

Certificate – Сертификат – 證明書 – Certificat – 증명서 –

Form QAT10_M08, version 01, effective since September 5th, 2022

Certificate of Compliance



No. 6H221220.GAEST26

Test Report / Technical Construction File no. UK221202070S, UK221202070E, UK221202070R

Certificate's
Holder:

AirExchange® Confidential Information

Certification
ECM Mark:



Product:
Model(s):

DC Invert Fresh Air Heat Pump
(see the following annex)

Verification to:

Standard:
(see the following annex)

related to GBR Regulation:
Electrical Equipment (Safety) Regulations 2016
Electromagnetic Compatibility Regulations 2016

Remark: This document has been issued on a voluntary basis and upon request of the manufacturer. It is our opinion that the technical documentation received from the manufacturer is satisfactory for the requirements of the ECM Certification Mark. The conformity mark above can be affixed on the product(s) accordingly to ECM regulation about its release and its use.

Additional information and clarification about the Marking:



The manufacturer is responsible for the UKCA Marking process, and if necessary, must refer to a Notified Body. This document has been issued on the basis of the regulation on ECM Voluntary Mark for the certification of products.

Issuance date: 20 December 2022

Expiry date: 19 December 2027

Approver
Ente Certificazione Macchine
Legal Representative
Luca Bedonni



Ente Certificazione Macchine Srl

Via Ca' Bella, 243 – Loc. Castello di Serravalle – 40053 Valsamoggia (BO) - ITALY

Attestation of Conformity of:

Electrical Equipment (Safety)
Regulations 2016

Electromagnetic Compatibility
Regulations 2016

(2/2)

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

Ente Certificazione Macchine Srl

Via Ca' Bella, 243 – Loc. Castello di
Serravalle – 40053 Valsamoggia
(BO) - ITALY

Certificate – Сертификат – 證明書 – Certificat – 증명서 –

Form QAT10_M08, version 01, effective since September 5th, 2022

Annex I

No. 6H221220.GAEST26

Test Report / Technical Construction File no. UK2212020705, UK221202070E, UK221202070R



Model(s):

AirExchange® 350-HC (AE 350-HC)
AirExchange® 620-HC (AE 620-HC)
AirExchange® 950-HC (AE 950-HC)

Standard:

EN IEC 61000-3-2:2019/A1:2021, EN 61000-3-3:2013/A2:2021, EN 55014-1:2021,
EN IEC 55014-2:2021, EN 60335-1:2012/A15:2021, EN 60335-2-65:2003+A12:2022,
EN 60335-2-40:2003/A13:2012/AC:2013, EN 62233:2008

Ente Certificazione Macchine Srl
Via Ca' Bella, 243 – Loc. Castello di Serravalle – 40053 Valsamoggia (BO) - ITALY

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



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

Attestation of Conformity of:

Electrical Equipment:

Safety
Health
Radio

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

Guangdong Zhonghan Testing
Technology Co., Ltd.

Address: Room 104, Building 1,
Yibaolai Industrial Park, Qiaotou
Community, Fuhai Street, Bao'an
District, Shenzhen, Guangdong,
China

CERTIFICATE OF COMPLIANCE



Certificate of Compliance

Certificate Number: ZHT-240613024C

Certificate's Holder Zertifikatsinhaber	: AirExchange® Confidential Information
Trade Mark Warenzeichen	: AirExchange®
Product Produkt	: Heat Pump Energy Recovery Ventilator
Model(s) Bezeichnung	: AirExchange® 350-HC (AE 350-HC) AirExchange® 620-HC (AE 620-HC) AirExchange® 950-HC (AE 950-HC)
Test Standard Geprüft nach	: Art.3.1(a) Safety EN 60335-1:2012+A11:2014+A13:2017 +A1:2019+A14:2019+A2:2019+A15:2021 +A16:2023 EN 62233:2008 Art.3.1(a) Health EN IEC 62311:2020 EN 50665:2017 Art.3.1(b) EMC ETSI EN 301 489-1 V2.2.3 (2019-11) ETSI EN 301 489-17 V3.2.4 (2020-09) Art.3.2 Radio ETSI EN 300 328 V2.2.2 (2019-07)
Test Report No. Bericht Nr	: ZHT-240613025S, ZHT-240613024E, ZHT-240613024E-1, ZHT-240613024E-2, ZHT-240613024E-3.

This Attestation of Compliance is issued on a voluntary basis for electrical equipment below the voltage limits of Radio Equipment Directive (RED) 2014/53/EU. The essential requirements are fulfilled accordingly based on the technical specifications applicable at the time of issuance. It is only valid in connection with the test report.

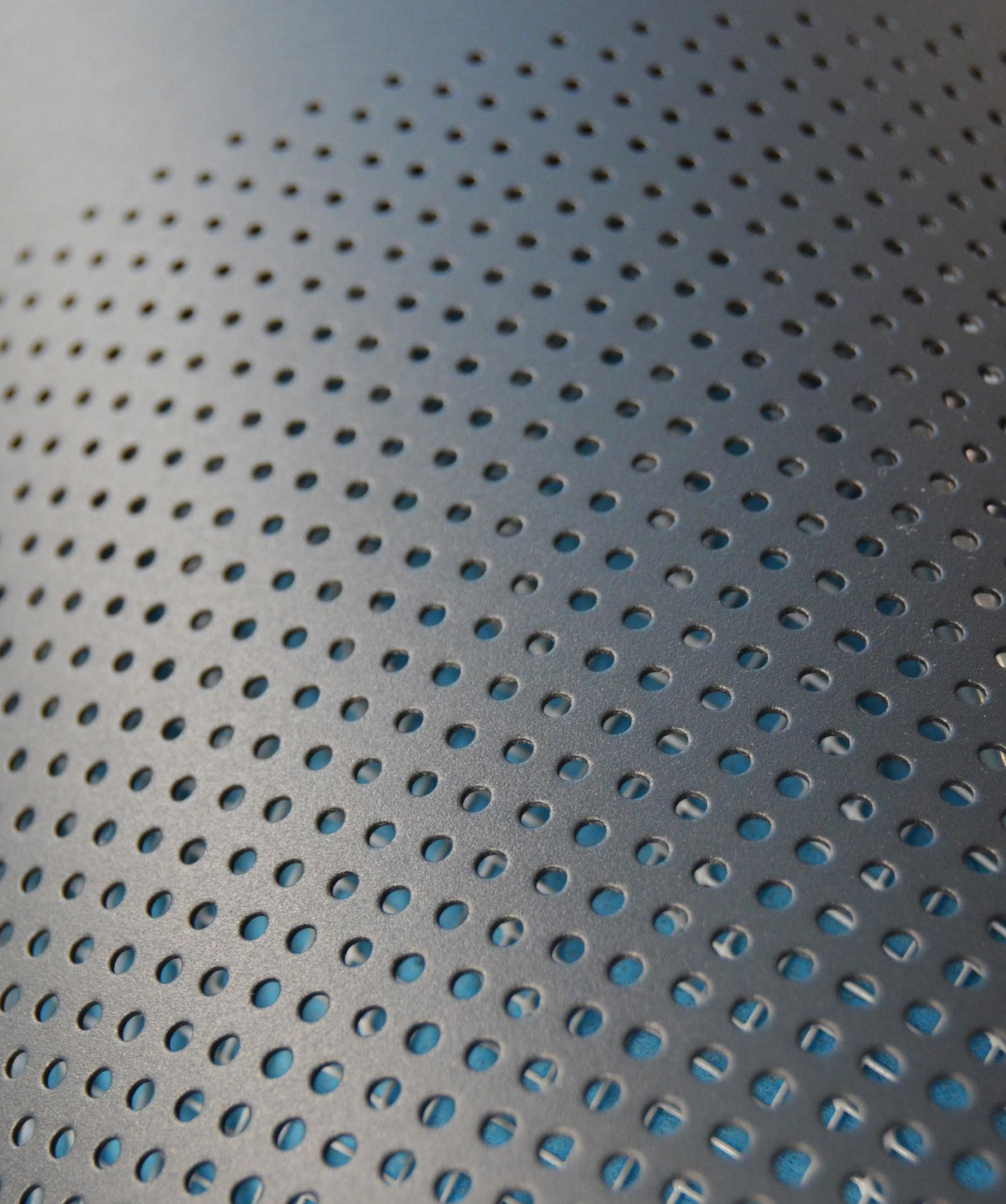


The information of the certificate can be checked through www.zht-lab.cn.
The CE mark which is shown on the certificate can only be used under the conditions that the products complete with all of the relevant Directives of EC Declaration of Conformity.
The Manufacturer should be responsible for the internal production control so that the products complied with the essential requirements of the above mentioned Directive(s). Certificate holder must notify all changes to the original certification laboratory of Guangdong Zhonghan Testing Technology Co., Ltd.

Guangdong Zhonghan Testing Technology Co., Ltd.
Address: Room 104, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Tel.: +86-755-27782934 [Http://www.zht-lab.cn](http://www.zht-lab.cn) E-mail: admin@zht-lab.cn

Airchange®

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.tuvsud.com

Date: 2022-01-18

Page 2 of 6

TUV®

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

Tel: +86 20 38320668

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 m³/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:

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

Page 3 of 6

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Tel: +86 20 38320668

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

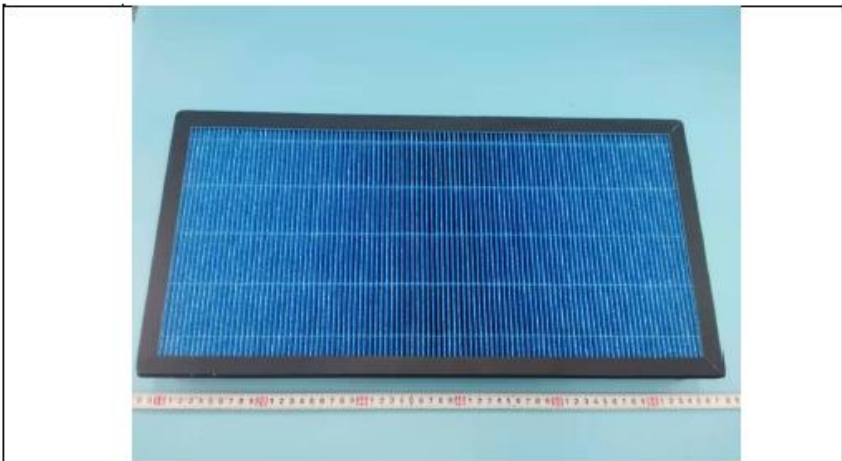
4. Remarks

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



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

This test is conducted by the
following accredited test
institution:

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

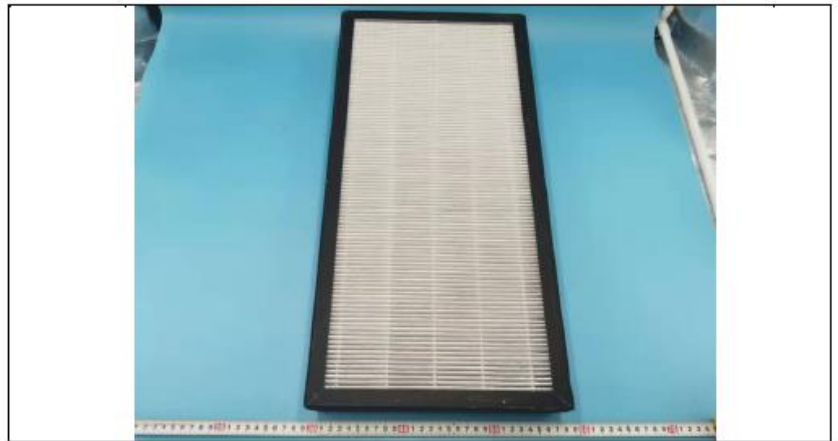
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Rd, Huangpu West Ave. Guangzhou
510656



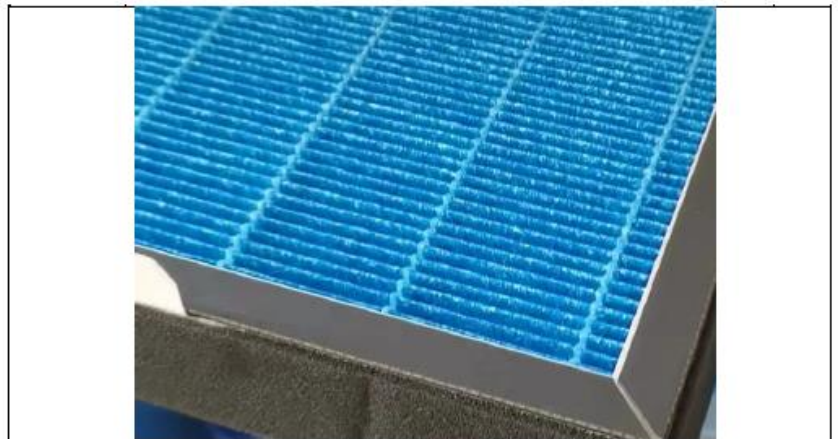
Technical Report



Details of: General view (other side)



Details of: Filter



Doc No.: ITC-TTW0602.02E - Rev. 10

Report No.: 64.180.21.08058.01

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Date: 2022-01-18

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

Tel: +86 20 38320668

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

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



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

Project Handler

printed name, function & signature

Approved by:

Relly Ren

Designated Reviewer

printed name, function & signature

--- End of Report ---

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

Report No.: 64.180.21.06058.01

www.tuvsud.com

Date: 2022-01-18

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

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