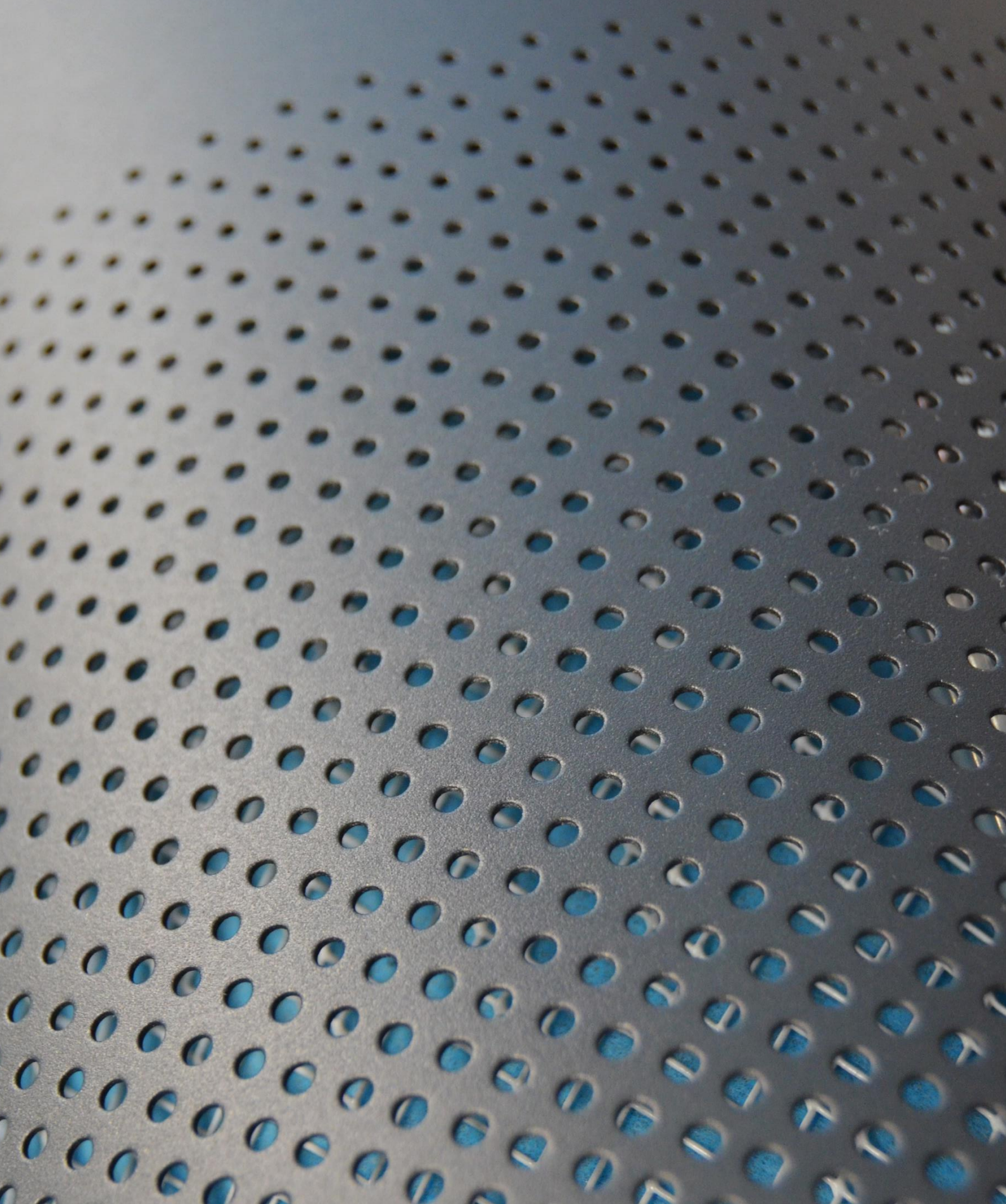


AirExchange[®]

Certificates & Test Reports

AirExchange[®] 350-HC



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® 350-HC (AE 350-HC) complies with the following conformity relative standards:

Related to CE Directive(s):	Related to GBR Regulation:
The Low Voltage Directive 2014/35/EU The EMC Directive 2014/30/EU	Electrical Equipment (Safety) Regulations 2016 Electromagnetic Compatibility Regulations 2016
EN IEC 61000-3-2: 2019 / A1:2021	EN IEC 61000-3-2: 2019/A1:2021
EN 61000-3-3: 2013/ A2:2021	EN 61000-3-3: 2013/A2:2021
EN 55014-1: 2021	EN 55014-1: 2021
EN IEC 55014-2: 2021	EN IEC 55014-2: 2021
EN 60335-1: 2012/A15:2021	EN 60335-1: 2012/A15:2021
EN 60335-2-65: 2003+A12:2022	EN 60335-2-65: 2003+A12:2022
EN 60335-2-40: 2003/A13:2012/AC:2013	EN 60335-2-40: 2003/A13:2012/AC:2013
EN 62233: 2008	EN 62233: 2008
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 Berloni



Ente Certificazione Macchine Srl

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



Annex I

No. 6H221220.GAEST27

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

Model(s):

AirExchange® 350-HC (AE 350-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

Certificate – Сертификат – 證明書 – Certificat – 증명서 –

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

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:

The Low Voltage Directive 2014/35/EU

The EMC Directive 2014/30/EU

(2/2)

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: DC Invert Fresh Air Heat Pump
Model(s): (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 2016Electromagnetic 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. UK221202070S, UK221202070E, UK221202070R



Model(s):

AirExchange® 350-HC (AE 350-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

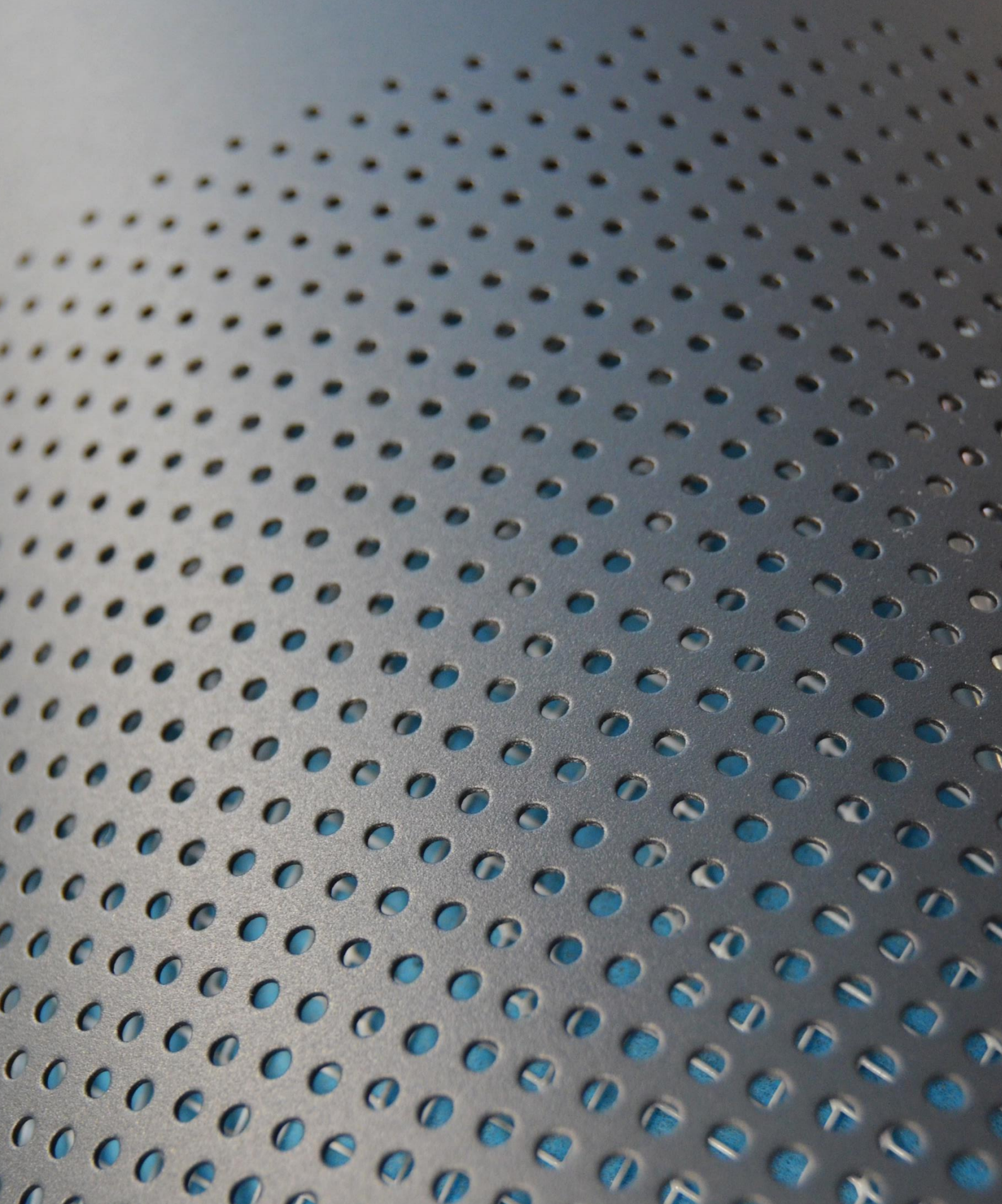
Ente Certificazione Macchine Srl

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

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

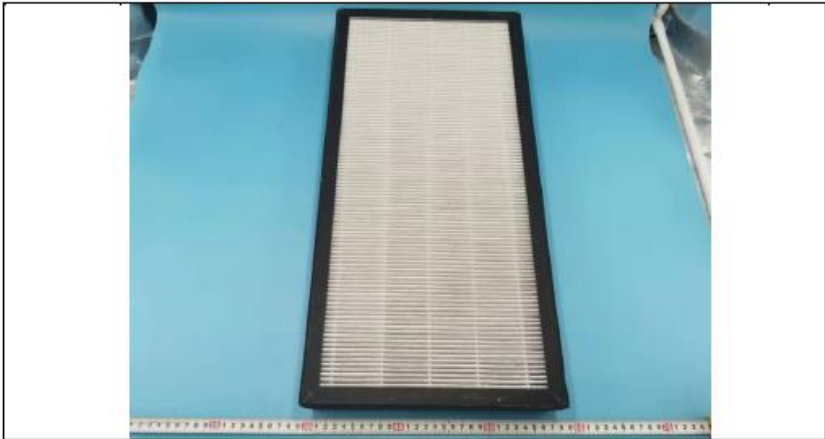


Test Report regarding the
HEPA H14-filter efficiency (4/5):

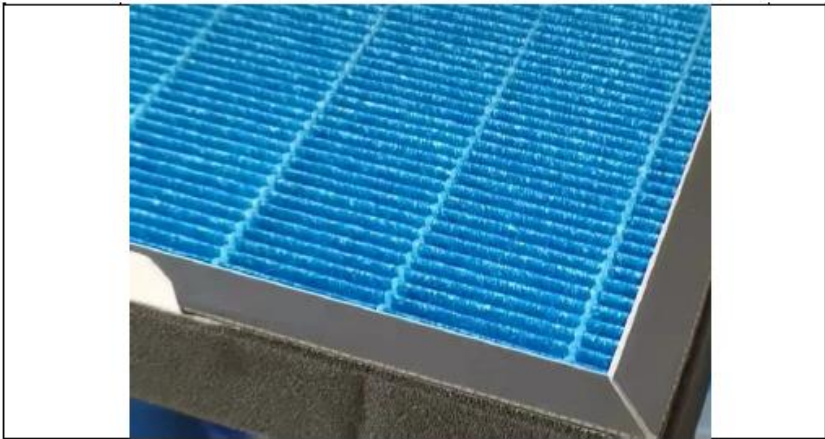
Technical Report



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