



**Technical Report No.: 64.180.21.06058.01**

**Date: 2022-01-18**

|                         |                                                                                                                                            |                                                                                                                                                                          |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Client:                 | Report holder's name:                                                                                                                      | Shenzhen Hiso Medical Technology Co. , Ltd.                                                                                                                              |
|                         | Report holder's 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 |
|                         | Contact person of report holder:                                                                                                           | Mr. Zhu Guoxing                                                                                                                                                          |
|                         | Manufacturer's name:                                                                                                                       | Same as client                                                                                                                                                           |
|                         | Manufacturer's address:                                                                                                                    | Same as client                                                                                                                                                           |
| Factory:                | Factory's name:                                                                                                                            | Hi-Forest (XiaMen) PurificationTechnology Co., Ltd.                                                                                                                      |
|                         | Factory's address:                                                                                                                         | No.829, Fangshan East Road Xiang`an District, Xiamen, China                                                                                                              |
| Test object:            | Product:                                                                                                                                   | Air Purifier Filter                                                                                                                                                      |
|                         | Model:                                                                                                                                     | H14                                                                                                                                                                      |
|                         | Trade mark:                                                                                                                                | N/A                                                                                                                                                                      |
| Test specification:     | EN 1822-1:2019                                                                                                                             |                                                                                                                                                                          |
|                         | EN ISO 29463-5:2018                                                                                                                        |                                                                                                                                                                          |
| Purpose of examination: | <ul style="list-style-type: none"><li>• Testing and evaluation according to the test specification and the client's requirements</li></ul> |                                                                                                                                                                          |
| Test result:            | The test results refer to page 3.                                                                                                          |                                                                                                                                                                          |

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

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## 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 (m <sup>3</sup> /h) | 200 m <sup>3</sup> /h |

## 2. Order

### 2.1 Date of Purchase Order, Customer's Reference

2021-11-19;

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## 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:

| Filter Group<br>Filter Class | Integral value     |                   |
|------------------------------|--------------------|-------------------|
|                              | Efficiency (%)     | Penetration (%)   |
| E10                          | $\geq 85$          | $\leq 15$         |
| E11                          | $\geq 95$          | $\leq 5$          |
| E12                          | $\geq 99,5$        | $\leq 0,5$        |
| H13                          | $\geq 99,95$       | $\leq 0,05$       |
| H14                          | $\geq 99,995$      | $\leq 0,005$      |
| U15                          | $\geq 99,999\ 5$   | $\leq 0,000\ 5$   |
| U16                          | $\geq 99,999\ 95$  | $\leq 0,000\ 05$  |
| U17                          | $\geq 99,999\ 995$ | $\leq 0,000\ 005$ |

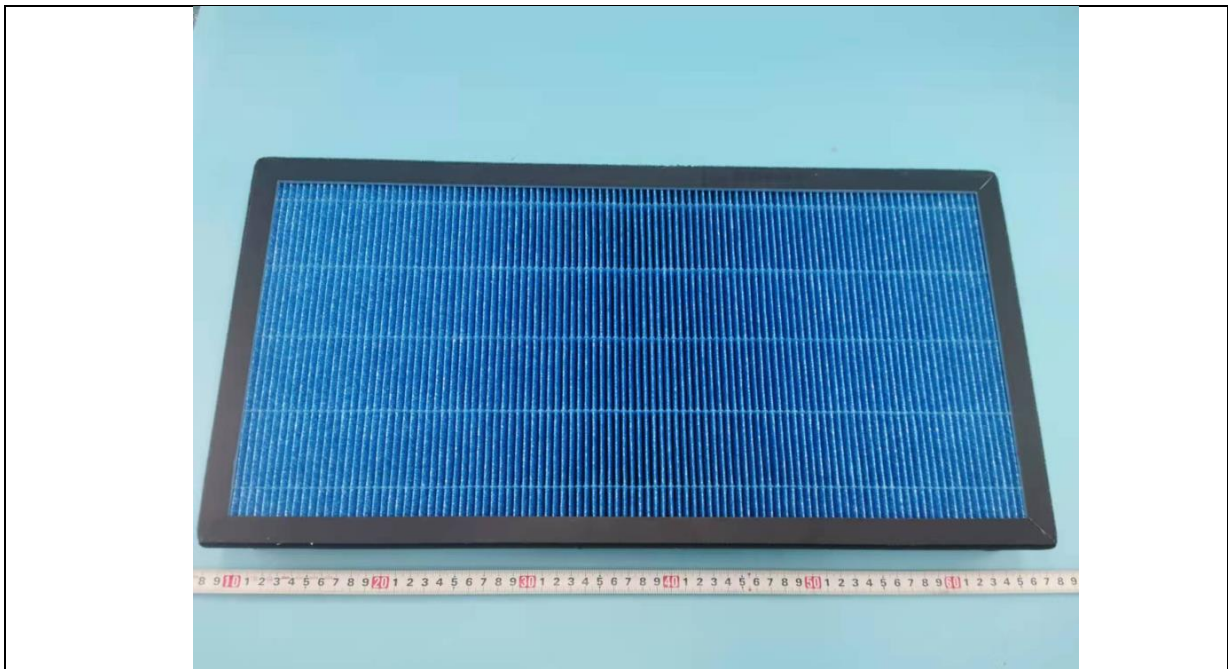
## 4. Remarks

- 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.

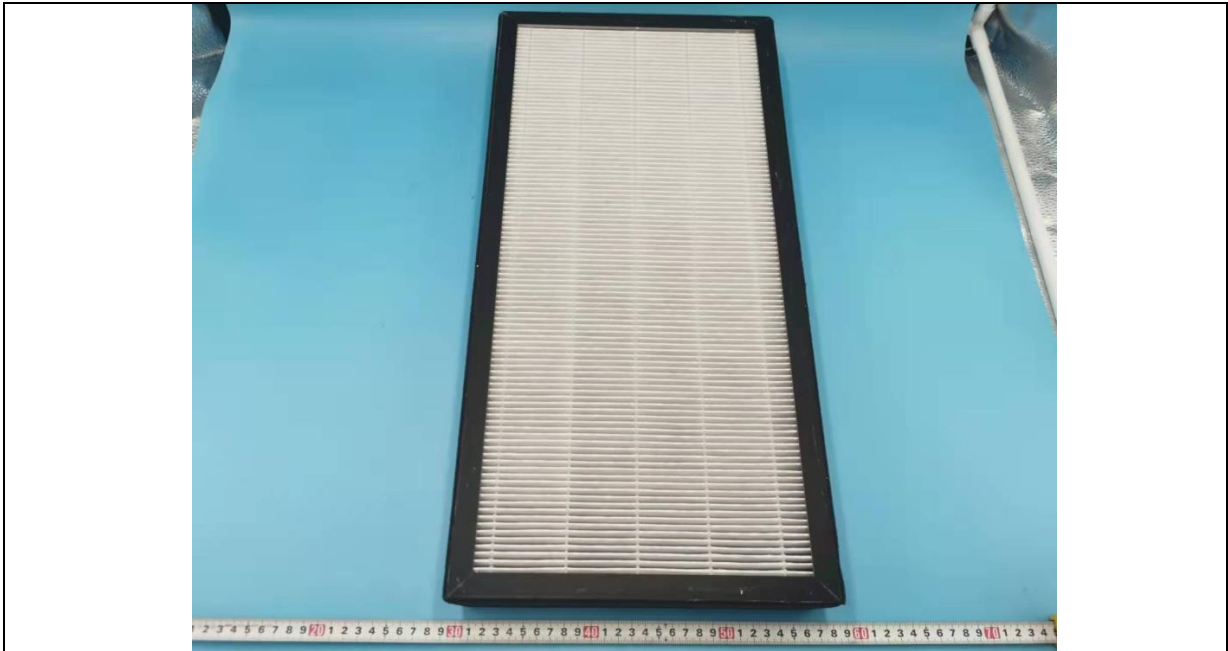
## 5. Documentation

### 5.1 Photo documentation:

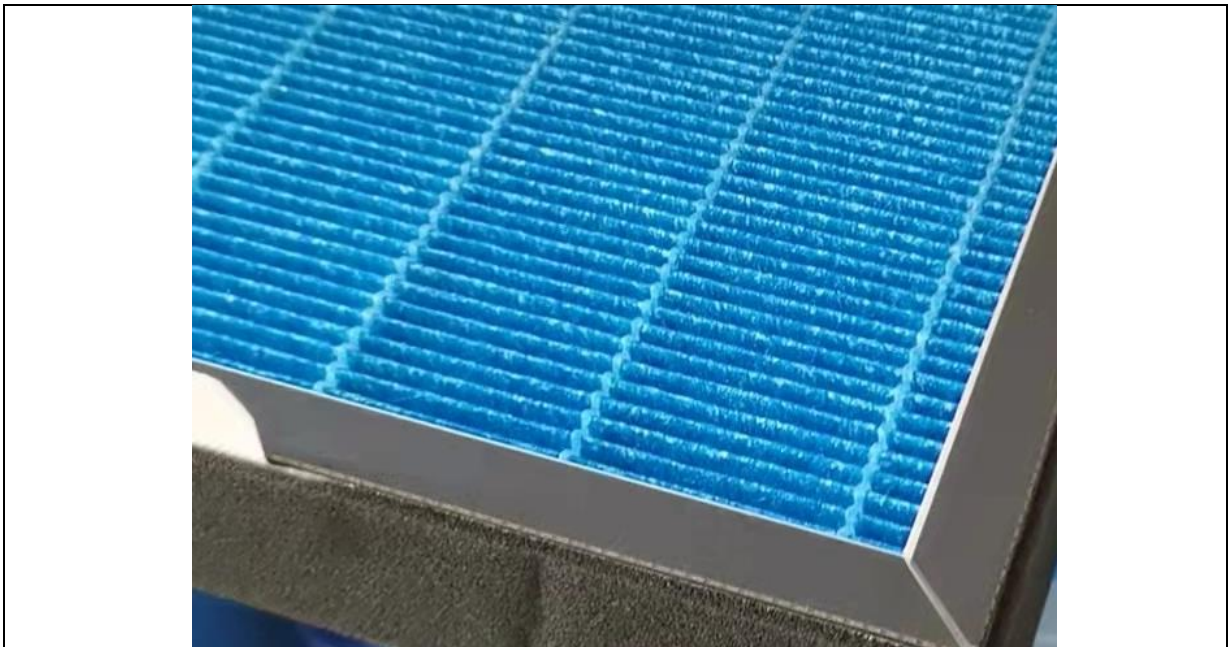
Details of: General view



Details of: General view (other side)



Details of: Filter



## 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 ---