

# AeraMax<sup>®</sup> SE

H13 HEPA filter captures up to 99.95% of particles as small as 0.1 microns, including allergens, such as pollen, dust, pet dander, and smoke.

## SPECIFICATIONS

Weight (kg)	9.6
Air Delivery (m <sup>3</sup> /hour)	602
Decibel Rating (dB)	47.3, 59.6, 68.5
Power Requirements	220-240v, 50/60 Hz, 1A
Power Consumption (W)	9, 25, 70
Air intake / Outlet	Sides / Top
Control Panel	Yes with Change Filter Light Indicator
Sensors	AeraSmart PM2.5 smart sensors which monitor the air quality and automatically adjust the fan speed to keep air purified, moving, and safe
Housing Materials	ABS Plastic
Operating Temperature / Humidity	10 - 40°C / 50% - 90% (non-condensing at ambient)
Area coverage (m <sup>2</sup> )	80 at 3 ACH and 50 at 5 ACH
Filter Type	Multifunctional Filter: Pre-filter, Carbon and H13 HEPA
Smoke / Dust / Pollen CADR (m <sup>3</sup> /hour)	595 / 554 / 602
Warranty	3-Year Limited
Certifications	Energy Star Certified, AHAM Certified



Item # 9799301  
Dimensions: 574 x 360 x 104 mm

## AERAMAX SE REPLACEMENT FILTERS

Filter Type	Combo Pre-Filter, H13 HEPA and Carbon Filter
Estimated Filter Life	1 Year
Pack Size	1 per pack
Item Number	9787801





中国认可  
国际互认  
检测  
TESTING  
CNAS L8342

# Test Report

№ 0795-21A-01

Suzhou GTT Service Co.,Ltd  
Room 3106, №.70, Zhongshan East Road, Mudu Town 215101  
Wuzhong District, Suzhou, China  
Tel: 0512-66358893 180-6842-5543  
Email: qinghui.zheng@gttlaboratory.com

<b>Report No.</b> .....	0795-21A-01
Date of issue.....	2021-10-23
Total number of pages.....	4 pages
<b>Sample description</b>	
Product name.....	Air filter
Trade Mark.....	N/A
Model / Type .....	AeraMax SE H13 Filter Element
Ratings.....	--
Number of samples tested.....	Sample1: 21-0795-01; Sample2: 21-0795-02; Sample3: 21-0795-03
Specifications.....	Maximum air-filter flow rate: 580 m <sup>3</sup> /h Dimensions (L x W x Height): Φ 260*340 mm Pleat number (windward side): -- Filter medium area (claimed): -- m <sup>2</sup>
Applicant's name.....	Fellowes Business Machine (Suzhou) Co., Ltd. Dongguan Branch Mr. Robin Chen 0769-22326630 Rchen@fellowes.com
Address.....	4A,LianHe Commercial Building,DongCheng South Road, Dongcheng District, Dongguan City, Guangdong
<b>Possible test case verdicts:</b>	
Does not apply to the test object.....	N/A (Not applicable)
Does not test the requirement.....	N/T (Not test)
Does meet the requirement.....	P (Pass)
Does not meet the requirement.....	F (Fail)
<b>Test specification:</b>	
Test Items.....	High efficiency air filters performance testing
Method.....	EN 1822-1:2019,EN ISO 29463-5:2018
Date of receipt of test item.....	2021-09-08
Date (s) of performance of tests.....	2021-09-08 to 2021-10-23
<b>Testing Laboratory</b> .....	Suzhou GTT Service Co., Ltd.
Address.....	No. 70, Zhongshan East Road, Mudu Town, Wuzhong District 215101, Suzhou, China
Tested by(name+signature)	Lili Zhao
Test Engineer.....	
Approved by(name+signature)	Kaisheng Xiong
Manager.....	

The test results refer to the tested samples only. Authorisation for the copying of details of this report must be obtained from Suzhou GTT.

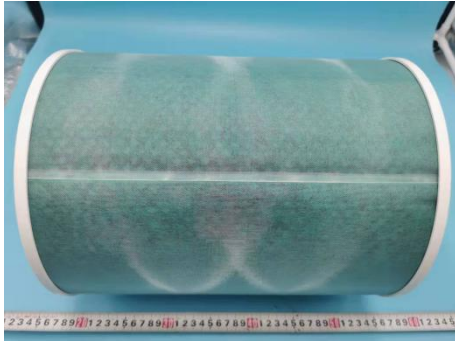
**EN 1822-1: 2019 & EN ISO 29463-5:2018**

Clause	Requirement + Test result - Remark	Verdict
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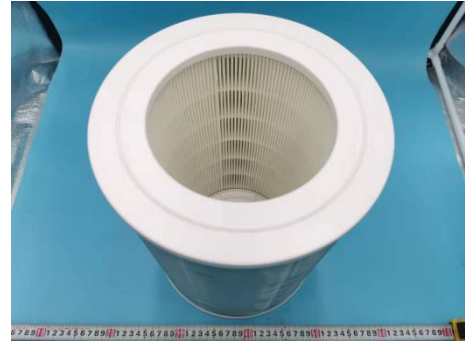
**Results summary:**

Test status: The tests were carried out on the new sample; Three samples were tested. Sample 1 and Sample 2 report the data of sample 1 and sample 2 with reference 0711-21A respectively.

Table 1	Filtration performance; EN 1822-1: 2019; cls. 6.5					--
Nominal air volume flow rate (m <sup>3</sup> /h)			580			
Test aerosol substances			NaCl (5%)			
Particle size range(μm)	0.10-0.15	0.15-0.20	0.20-0.25	0.25-0.30	0.10-0.25	
Sample No.	Δ Pa	Fractional efficiency (%)				Efficiency (%)
21-0795-01	61	99.97	99.98	99.99	99.85	99.98
21-0795-02	62	99.97	99.98	99.98	99.92	99.97
21-0795-03	73	99.99	99.99	99.99	99.99	99.99
Av.						99.98
<b>Note: Test result accord with EN 1822-1: 2019, H13</b>						

**Product photo:**

Overview of the sample



Back view of the sample

**Summary of testing:**

1. From the result of our inspection and tests on the submitted sample(s). We conclude they comply with EN 1822-1:2019 High efficiency air filters (EPA, HEPA and ULPA) - Part 1: Classification, performance testing, marking
2. From the result of our inspection and tests on the submitted sample(s). We conclude they comply with EN ISO 29463-5:2018 High-efficiency filters and filter media for removing particles in air-Part 5: Test method for filter elements

**Copy of marking plate:**

(The artwork below may be only a draft.)

No marking was provided.

The tests were carried out on a new air filter which is installed and used in accordance with the manufacturer's instructions.

----Test report end----

**Attachments are test record.**

EN 1822-1:2019 High efficiency air filters(EPA,HEPA and ULPA)-  
 Part 1:Classification ,perormance testing,marking  
 EN ISO 29463-5:2018 High-efficiency filters and filter media for  
 removing particles in air-  
 Part 5 Test method for filter elements



**Test Identification**

Particle Counter	SOLAIR 1100	Case no.	0795-21A
	Cal due 12,03,2022	Testing period	2021/10/23 8:20
Dilution up/down	DIL554 + TDA-D10 1000/1	Ambient pressure (kPa)	102.8
	Cal due 09,11,2021	Ambient temp. (°C)	23.8
Flowmeter	DY80	Relative humidity (%RH)	51.9
	Cal due 17,11,2022	Operator : Lili Zhao	<i>Lili Zhao</i>
DP Transmitter	CP112	Reviewed By: Qinghui Zheng	<i>Qinghui Zheng</i>
	Cal due 17,11,2021		
Contaminant	NaCl (5%)		
Comment			

**Sample**

Type	AeraMax SE H13 Filter Element	Sample no.	21-0795-03
Manufacture	Fellowes	Sample size ,mm	Φ260*340
Date of receipt	2021/10/15	Declared air flow rates,m <sup>3</sup> /h	580
State			

**Result**

Test air flow rates, m <sup>3</sup> /h			580.3		Pressure loss av., Pa			73		
No.	Pressure loss , Pa	Port	Particles / 0.5 ft <sup>3</sup> at: (in microns)							
			0.1-0.15	0.15-0.20	0.20-0.25	0.25-0.30	0.30-0.50			
1	73	Upstream	11186560	5308353	1413166	1514962	1850289			
2	73	Downstream	1745	633	141	143	160			
3	73	Upstream	12630670	5957052	1648694	1632725	1911167			
4	71	Downstream	1849	666	148	154	146			
5	72	Upstream	10987960	5263444	1423146	1457078	1694601			
6	72	Downstream	1720	629	136	176	174			
7	72	Upstream	13322280	6401162	1776437	1796397	1987015			
8	74	Downstream	1661	616	175	174	148			
9	72	Upstream	13394140	6345274	1696597	1760469	2146695			
10	73	Downstream	1543	470	113	125	133			
Total upstream			61521610	29275285	7958040	8161631	9589767			
Total downstream			8518	3014	713	772	761			
Fractional efficiency,%			99.99	99.99	99.99	99.99	99.99			
Efficiency (0.10-0.25 μm) ,%			99.99							

EN 1822-1:2019 High efficiency air filters(EPA,HEPA and ULPA)-  
 Part 1:Classification ,perormance testing,marking  
 EN ISO 29463-5:2018 High-efficiency filters and filter media for  
 removing particles in air-  
 Part 5 Test method for filter elements



**Test Identification**

Particle Counter	SOLAIR 1100	Case no.	0711-21A
	Cal due 12,11,2021	Testing period	2021/9/8 10:34
Dilution up/down	DIL554 + TDA-D10 1000/1	Ambient pressure (kPa)	101.2
	Cal due 09,11,2021	Ambient temp. (°C)	25.5
Flowmeter	DY80	Relative humidity (%RH)	48.4
	Cal due 17,11,2022	Operator : Lili Zhao	<i>lili zhao</i>
DP Transmitter	CP112	Reviewed By: Qinghui Zheng	<i>Qinghui zheng</i>
	Cal due 17,11,2021		
Contaminant	NaCl (5%)		
Comment			

**Sample**

Type	AeraMax SE H13 Filter Element	Sample no.	21-0711-02
Manufacture	Fellowes	Sample size ,mm	Φ260*340
Date of receipt	2021/9/8	Declared air flow rates,m <sup>3</sup> /h	580
State			

**Result**

Test air flow rates, m <sup>3</sup> /h			580.0		Pressure loss av., Pa		62			
No.	Pressure loss , Pa	Port	Particles / 0.5 ft <sup>3</sup> at: (in microns)							
			0.1-0.15	0.15-0.20	0.20-0.25	0.25-0.30				
1	61	Upstream	20297290	21544790	3441099	136726				
2	61	Downstream	5949	3616	309	35				
3	62	Upstream	14843230	16165580	2589806	91816				
4	62	Downstream	5794	3727	524	111				
5	62	Upstream	14367190	15634640	2486014	84830				
6	63	Downstream	5771	3831	627	132				
7	62	Upstream	17586730	19100690	3085811	117764				
8	62	Downstream	5786	3773	362	71				
9	62	Upstream	17283330	19133620	3207567	130738				
10	62	Downstream	5701	3634	403	102				
Total upstream			84377770	91579320	14810297	561874				
Total downstream			29001	18581	2225	451				
Fractional efficiency,%			99.97	99.98	99.98	99.92				
Efficiency (0.10-0.25 μm) ,%			99.97							

EN 1822-1:2019 High efficiency air filters(EPA,HEPA and ULPA)-  
 Part 1:Classification ,perormance testing,marking  
 EN ISO 29463-5:2018 High-efficiency filters and filter media for  
 removing particles in air-  
 Part 5 Test method for filter elements



**Test Identification**

Particle Counter	SOLAIR 1100	Case no.	0711-21A
	Cal due 12,11,2021	Testing period	2021/9/8 10:04
Dilution up/down	DIL554 + TDA-D10 1000/1	Ambient pressure (kPa)	101.2
	Cal due 09,11,2021	Ambient temp. (°C)	25.2
Flowmeter	DY80	Relative humidity (%RH)	49.0
	Cal due 17,11,2022	Operator : Lili Zhao	<i>Lili Zhao</i>
DP Transmitter	CP112	Reviewed By: Qinghui Zheng	<i>Qinghui Zheng</i>
	Cal due 17,11,2021		
Contaminant	NaCl (5%)		
Comment			

**Sample**

Type	AeraMax SE H13 Filter Element	Sample no.	21-0711-01
Manufacture	Fellowes	Sample size ,mm	Φ260*340
Date of receipt	2021/9/8	Declared air flow rates,m <sup>3</sup> /h	580
State			

**Result**

Test air flow rates, m <sup>3</sup> /h			579.6		Pressure loss av., Pa		61		
No.	Pressure loss , Pa	Port	Particles / 0.5 ft <sup>3</sup> at: (in microns)						
			0.1-0.15	0.15-0.20	0.20-0.25	0.25-0.30			
1	60	Upstream	17598700	18646600	3035911	106786			
2	62	Downstream	5656	3486	480	205			
3	61	Upstream	20010860	21282310	3420141	133732			
4	61	Downstream	5554	3192	468	205			
5	62	Upstream	16055800	17348210	2927129	109780			
6	60	Downstream	5335	3262	291	98			
7	62	Upstream	14481950	15344230	2554876	102834			
8	60	Downstream	5412	3385	385	170			
9	62	Upstream	14451020	15548820	2510964	106786			
10	61	Downstream	5244	3274	415	179			
Total upstream			82598330	88170170	14449021	559918			
Total downstream			27201	16599	2039	857			
Fractional efficiency,%			99.97	99.98	99.99	99.85			
Efficiency (0.10-0.25 μm) , %			99.98						