

# AeraMax® SV

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)	14.5
Air Delivery (m <sup>3</sup> /hour)	959
Decibel Rating (dB)	38.3, 45.9, 55.8, 69.5
Power Requirements	220-240v, 50/60 Hz, 0.7A
Power Consumption (W)	5, 9, 21, 85
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> )	130 at 3 ACH and 80 at 5 ACH
Filter Type	Pre-filter + Combo Carbon and H13 HEPA
Smoke / Dust / Pollen CADR (m <sup>3</sup> /hour)	910, 959, 947
Warranty	3-Year Limited
Certifications	Energy Star Certified, AHAM Certified



Item # 9799501  
Dimensions: 495 x 534 x 241mm

## AERAMAX SV REPLACEMENT FILTERS

*Two sets of filters required*

Filter Type	H13 HEPA and Carbon Filter with Pre-Filter
Estimated Filter Life	2 Years
Pack Size	2 sets per pack
Item Number	9787901



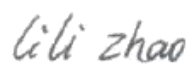



中国认可  
国际互认  
检测  
TESTING  
CNAS L8342

# Test Report

№ 0770-21A-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> .....	0770-21A-01
Date of issue.....	2021-10-09
Total number of pages.....	4 pages
<b>Sample description</b>	
Product name.....	Air filter
Trade Mark.....	N/A
Model / Type .....	AeraMax SV H13 Filter Element
Ratings.....	--
Number of samples tested.....	Sample1: 21-0770-01; Sample2: 21-0770-02; Sample3: 21-0770-03 Sample4: 21-0770-04; Sample5: 21-0770-05
Specifications.....	Maximum air-filter flow rate: 475 m <sup>3</sup> /h Dimensions (L x W x Height): 590*292*60 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.....	2021-10-08
Date (s) of performance of tests.....	2021-10-08 to 2021-10-08
<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**

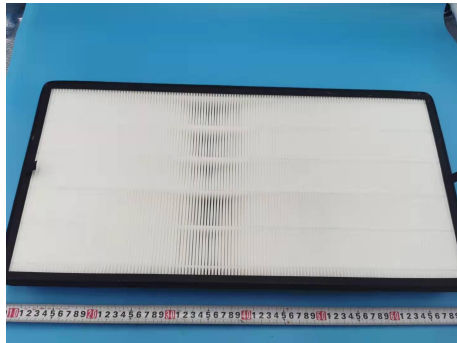
Clause	Requirement + Test result - Remark	Verdict
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**Results summary:**

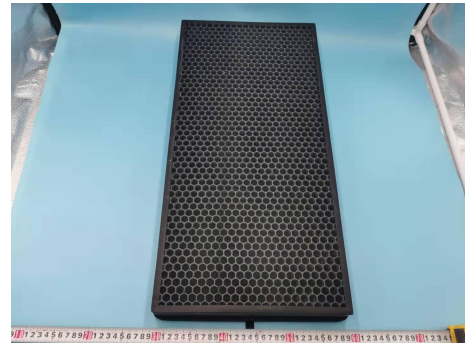
Test statuses: The tests were carried out on the new sample; Five samples were tested.

Table 1		Filtration performance; EN 1822-1: 2019; cls. 6.5					--
Nominal air volume flow rate (m <sup>3</sup> /h)			475				
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 (%)	
21-0770-01	64	99.96	99.98	99.98	99.98	99.97	
21-0770-02	46	99.96	99.97	99.97	99.97	99.96	
21-0770-03	58	99.97	99.98	99.99	99.99	99.98	
21-0770-04	48	99.98	99.99	99.99	99.99	99.98	
21-0770-05	48	99.97	99.98	99.98	99.98	99.97	
<b>Av.</b>						99.97	
<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.	0770-21A
	Cal due 12,11,2021	Testing period	2021/10/8 15:38
Dilution up/down	DIL554 + TDA-D10 1000/1	Ambient pressure (kPa)	101.2
	Cal due 09,11,2021	Ambient temp. (°C)	24.8
Flowmeter	DY80	Relative humidity (%RH)	48.7
	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 SV H13 Filter Element	Sample no.	21-0770-03
Manufacture	Fellowes	Sample size ,mm	590*292*60
Date of receipt	2021/10/8	Declared air flow rates,m <sup>3</sup> /h	475
State			

**Result**

Test air flow rates, m <sup>3</sup> /h			475.5		Pressure loss av., Pa			58	
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	0.5-1.0	
1	58	Upstream	17369160	9013920	4779414	3489002	4550873	989016	
2	59	Downstream	4828	1412	578	401	384	60	
3	59	Upstream	18587720	9587769	5077815	3601776	4681610	1060872	
4	59	Downstream	4939	1340	608	410	399	68	
5	58	Upstream	16548810	8582786	4571831	3208564	4222531	1001990	
6	59	Downstream	4910	1408	565	348	393	83	
7	58	Upstream	16457000	8768412	4465045	3378224	4266443	966062	
8	58	Downstream	4902	1402	607	350	378	77	
9	58	Upstream	16964970	8924101	4838296	3460061	4365245	1002988	
10	59	Downstream	4853	1421	564	394	408	62	
Total upstream			85927660	44876988	23732401	17137627	22086702	5020928	
Total downstream			24432	6983	2922	1903	1962	350	
Fractional efficiency,%			99.97	99.98	99.99	99.99	99.99	99.99	
Efficiency (0.10-0.25 μm) ,%			99.98						

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.	0770-21A
	Cal due 12,11,2021	Testing period	2021/10/8 15:17
Dilution up/down	DIL554 + TDA-D10 1000/1	Ambient pressure (kPa)	101.2
	Cal due 09,11,2021	Ambient temp. (°C)	24.9
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 SV H13 Filter Element	Sample no.	21-0770-02
Manufacture	Fellowes	Sample size ,mm	590*292*60
Date of receipt	2021/10/8	Declared air flow rates,m <sup>3</sup> /h	475
State			

**Result**

Test air flow rates, m <sup>3</sup> /h			474.7		Pressure loss av., Pa			46		
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	0.5-1.0		
1	45	Upstream	17259380	9069808	4822328	3567844	4500973	1061870		
2	46	Downstream	7911	3070	1527	1090	1428	302		
3	46	Upstream	17755390	9215517	4915141	3600778	4739494	1109774		
4	46	Downstream	7825	3137	1638	1096	1372	316		
5	45	Upstream	17016870	9024898	4756460	3498982	4532909	1058876		
6	46	Downstream	7737	3103	1473	1089	1438	298		
7	45	Upstream	17575750	9190567	4947077	3634710	4653666	1058876		
8	46	Downstream	7935	3026	1549	1062	1331	329		
9	46	Upstream	19091710	9839266	5354261	3859260	4894184	1140712		
10	45	Downstream	8207	3146	1486	1081	1368	316		
Total upstream			88699100	46340056	24795267	18161574	23321226	5430108		
Total downstream			39615	15482	7673	5418	6937	1561		
Fractional efficiency,%			99.96	99.97	99.97	99.97	99.97	99.97		
Efficiency (0.10-0.25 μm) ,%			99.96							

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.	0770-21A
	Cal due 12,11,2021	Testing period	2021/10/8 14:54
Dilution up/down	DIL554 + TDA-D10 1000/1	Ambient pressure (kPa)	101.2
	Cal due 09,11,2021	Ambient temp. (°C)	24.9
Flowmeter	DY80	Relative humidity (%RH)	48.2
	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 SV H13 Filter Element	Sample no.	21-0770-01
Manufacture	Fellowes	Sample size ,mm	590*292*60
Date of receipt	2021/10/8	Declared air flow rates,m <sup>3</sup> /h	475
State			

**Result**

Test air flow rates, m <sup>3</sup> /h			475.2		Pressure loss av., Pa			64	
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	0.5-1.0	
1	64	Upstream	13918090	7617722	3993989	3074833	4030915	919157	
2	65	Downstream	5109	1812	856	566	733	166	
3	64	Upstream	12113700	6527909	3357266	2560864	3415150	913169	
4	64	Downstream	5076	1773	904	624	811	184	
5	63	Upstream	14906110	8037879	4312350	3191599	4195585	972050	
6	64	Downstream	5178	1806	907	636	818	167	
7	64	Upstream	14401120	7563830	4118739	3106769	4099777	899197	
8	64	Downstream	5281	1917	926	596	750	168	
9	64	Upstream	14040840	7327305	3983011	2964055	3804370	915165	
10	64	Downstream	5128	1897	870	685	763	189	
Total upstream			69379860	37074645	19765355	14898120	19545797	4618738	
Total downstream			25772	9205	4463	3107	3875	874	
Fractional efficiency,%			99.96	99.98	99.98	99.98	99.98	99.98	
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.	0770-21A
	Cal due 12,11,2021	Testing period	2021/10/8 16:21
Dilution up/down	DIL554 + TDA-D10 1000/1	Ambient pressure (kPa)	101.3
	Cal due 09,11,2021	Ambient temp. (°C)	24.8
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 (2%)		
Comment			

**Sample**

Type	AeraMax SV H13 Filter Element	Sample no.	21-0770-05
Manufacture	Fellowes	Sample size ,mm	590*292*60
Date of receipt	2021/10/8	Declared air flow rates,m <sup>3</sup> /h	475
State			

**Result**

Test air flow rates, m <sup>3</sup> /h			474.8		Pressure loss av., Pa				48		
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	0.5-1.0			
1	48	Upstream	17074750	8857235	4607758	3400181	4303369	1052888			
2	47	Downstream	5756	1802	773	461	481	128			
3	48	Upstream	15579750	8023907	4414146	3184613	4131713	995004			
4	48	Downstream	5715	1795	766	505	503	97			
5	47	Upstream	16019870	8480990	4533906	3230521	4104767	988018			
6	48	Downstream	5858	1854	756	510	553	105			
7	47	Upstream	16549810	8690569	4553866	3373234	4301373	1013966			
8	48	Downstream	5834	1878	818	531	553	122			
9	47	Upstream	18365170	9507929	5046877	3699580	4655663	1196600			
10	48	Downstream	6047	1994	828	565	608	130			
Total upstream			83589350	43560630	23156553	16888129	21496885	5246476			
Total downstream			29210	9323	3941	2572	2698	582			
Fractional efficiency,%			99.97	99.98	99.98	99.98	99.99	99.99			
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.	0770-21A
	Cal due 12,11,2021	Testing period	2021/10/8 16:01
Dilution up/down	DIL554 + TDA-D10 1000/1	Ambient pressure (kPa)	101.2
	Cal due 09,11,2021	Ambient temp. (°C)	24.8
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 SV H13 Filter Element	Sample no.	21-0770-04
Manufacture	Fellowes	Sample size ,mm	590*292*60
Date of receipt	2021/10/8	Declared air flow rates,m <sup>3</sup> /h	475
State			

**Result**

Test air flow rates, m <sup>3</sup> /h			475.0		Pressure loss av., Pa			48		
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	0.5-1.0		
1	48	Upstream	19277330	9957030	5296377	3883212	4826320	1112768		
2	49	Downstream	4952	1515	753	493	521	129		
3	48	Upstream	19580730	10117710	5413143	3899180	4986998	1138716		
4	48	Downstream	5045	1620	773	520	575	115		
5	48	Upstream	21288300	11126680	5877213	4316343	5411147	1240512		
6	48	Downstream	5044	1625	726	432	568	135		
7	48	Upstream	22112650	11493950	6002960	4340295	5536895	1196600		
8	49	Downstream	5146	1612	715	487	587	141		
9	48	Upstream	22179510	11606720	6131703	4469036	5617733	1364264		
10	49	Downstream	4971	1581	720	503	529	111		
Total upstream			104438520	54302090	28721396	20908066	26379093	6052860		
Total downstream			25158	7953	3687	2435	2780	631		
Fractional efficiency,%			99.98	99.99	99.99	99.99	99.99	99.99		
Efficiency (0.10-0.25 μm) ,%			99.98							