

Mini-pleated HEPA V-Bank Filter (AG-VBANK)

Amorair mini-pleated v-bank HEPA filter features an ultra-low pressure drop, an extended media area, and a longer service life. It is a medical, industrial, and commercial grade HEPA designed specifically to perform in adverse, critical, and sensitive conditions. We provide customization services and can meet the different requirements of different industries.



- High Dust-holding Power
- Mini Pleat Construction
- Low Initial Resistance
- Long Service Life
- Available for Custom Sizes
- 100% Factory Tested

Specifications

Frame Material	Plastic / Galvanized Steel / Aluminum
Media	Moisture-resistant Fiberglass
U.S. Efficiency	99.95%, 99.995% @ MPPS
Euro Efficiency	H13, H14
Max Temperature	70 °C (158 °F)
Sealant	Polyurethane
Header	No Header/ Single Header
Configurations	2V,3V,4V, 5V
Frame Thickness	292mm (11.5")

PRODUCT PARAMETERS

◀◀HEPA V-Bank Filter- Standard Capacity▶▶

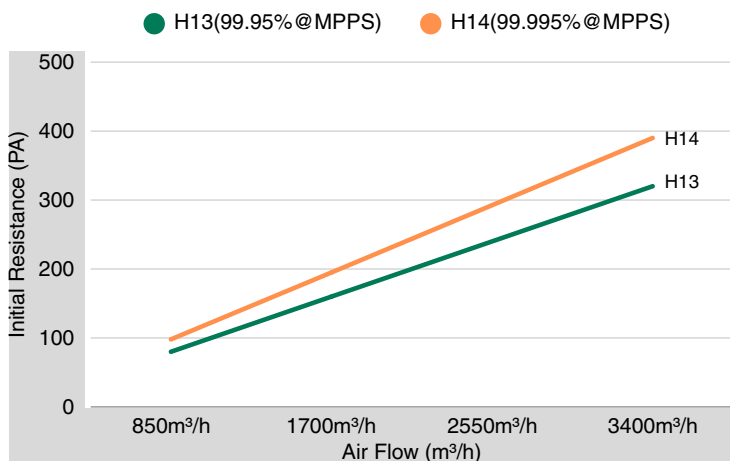
INTERNATIONAL STANDARD							
Actual Size (mm) (W*H*D)	Configurations	Header	Frame Material	Air Flow (m³/h)	Initial Resistance (Pa)		
					H13	H14	Recommended final resistance
592x287x292	4V	Single Header	Metal	1500	270	340	500
592x592x292	4V	Single Header	Metal	3400	270	340	500
592x287x292	4V	Single Header	Plastic	1500	320	390	500
592x592x292	4V	Single Header	Plastic	3400	320	390	500
592x287x292	5V	Single Header	Plastic	1500	290	350	500
592x592x292	5V	Single Header	Plastic	3400	290	350	500

U.S STANDARD							
Nominal Size (inch) W x H x D	Configurations	Header	Frame Material	Air Flow (CFM)	Initial Resistance (in W.G)		
					99.95% @MPPS	99.995% @MPPS	Recommended final resistance
24x12x12	4V	Single Header	Metal	883	1.08	1.36	2
24x24x12	4V	Single Header	Metal	2001	1.08	1.36	2
24x12x12	4V	Single Header	Plastic	883	1.28	1.56	2
24x24x12	4V	Single Header	Plastic	2001	1.28	1.56	2
24x12x12	5V	Single Header	Plastic	883	1.16	1.40	2
24x24x12	5V	Single Header	Plastic	2001	1.16	1.40	2

- Performance Initial Resistance Tolerance: $\pm 15\%$
- Example dimensions displayed; custom sizes available for metal frame

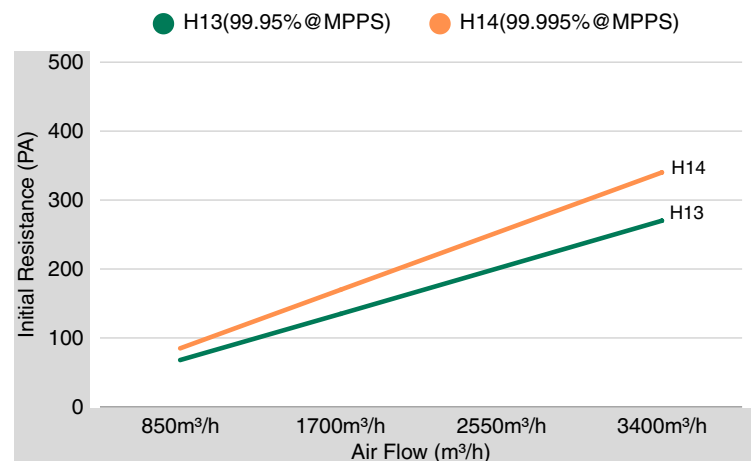
PERFORMANCE DATA

Initial Resistance vs. Air Flow
(Plastic Frame)



Product size: 592x592x292(mm)/24x24x12(inch) --4V

Initial Resistance vs. Air Flow
(Metal Frame)



Product size: 592x592x292(mm)/24x24x12(inch) --4V

PRODUCT PARAMETERS

HEPA V-Bank Filter- High Capacity

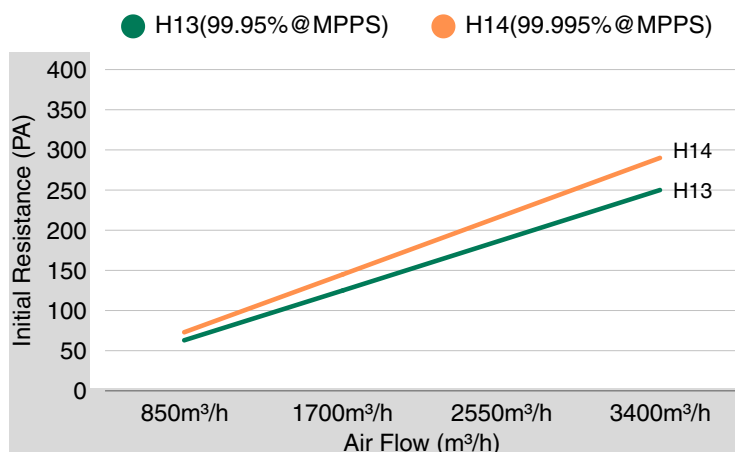
INTERNATIONAL STANDARD							
Actual Size (mm) (W*H*D)	Configurations	Header	Frame Material	Air Flow (m³/h)	Initial Resistance (Pa)		
					H13	H14	Recommended final resistance
592x287x292	4V	Single Header	Metal	1500	250	290	500
592x592x292	4V	Single Header	Metal	3400	250	290	500
592x287x292	5V	Single Header	Plastic	1500	260	300	500
592x592x292	5V	Single Header	Plastic	3400	260	300	500

U.S STANDARD							
Nominal Size (inch) W x H x D	Configurations	Header	Frame Material	Air Flow (CFM)	Initial Resistance (in W.G)		
					99.95% @ MPPS	99.995% @ MPPS	Recommended final resistance
24x12x12	4V	Single Header	Metal	883	1.00	1.16	2
24x24x12	4V	Single Header	Metal	2001	1.00	1.16	2
24x12x12	5V	Single Header	Plastic	883	1.04	1.20	2
24x24x12	5V	Single Header	Plastic	2001	1.04	1.20	2

- Performance Initial Resistance Tolerance: ±15%
- Example dimensions displayed; custom sizes available for metal frame

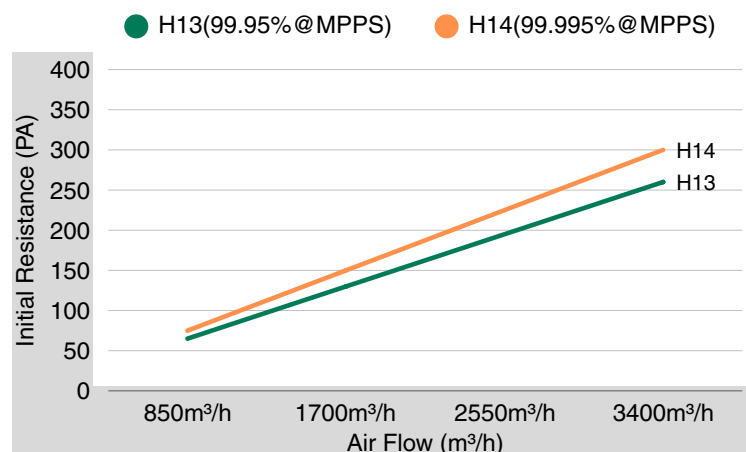
PERFORMANCE DATA

Initial Resistance vs. Air Flow
(Metal Frame)



Product size: 592×592×292(mm)/24x24x12(inch) --4V

Initial Resistance vs. Air Flow
(Plastic Frame)



Product size: 592×592×292(mm)/24x24x12(inch) --5V

PRODUCT PARAMETERS

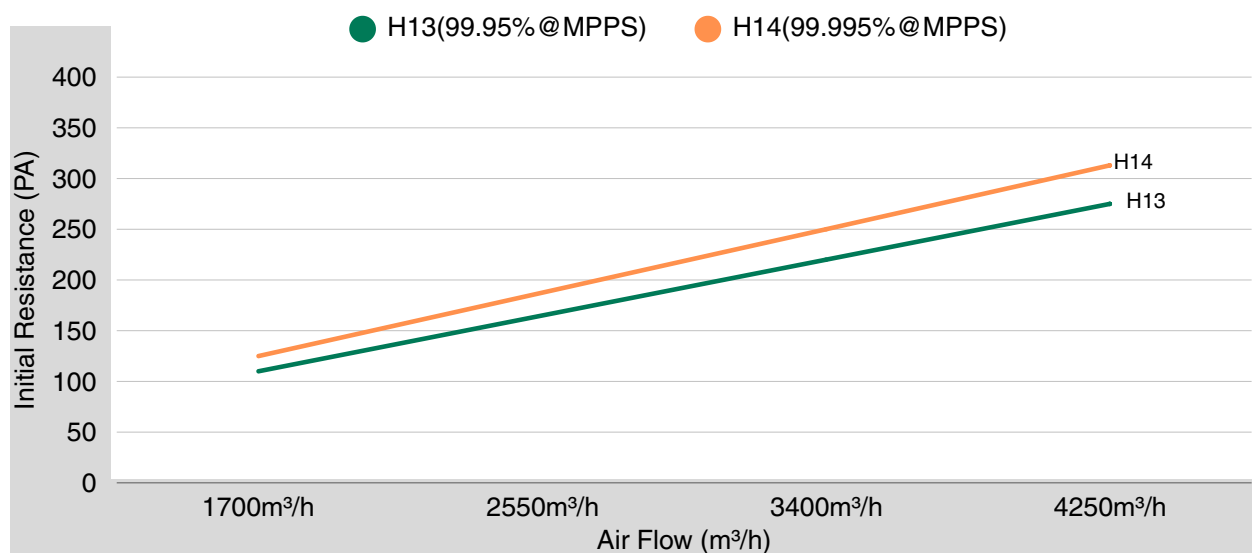
◀◀ HEPA V-Bank Filter-Premium Capacity ▶▶

INTERNATIONAL STANDARD							
Actual Size (mm) (W*H*D)	Configurations	Header	Frame Material	Air Flow (m³/h)	Initial Resistance (Pa)		
					H13	H14	Recommended final resistance
592x287x292	5V	Single Header	Metal	1500	220	250	500
592x592x292	5V	Single Header	Metal	3400	220	250	500
610x305x292	5V	No Header	Metal	1700	210	230	500
610x610x292	5V	No Header	Metal	3400	210	230	500
U.S STANDARD							
Nominal Size (inch) W x H x D	Configurations	Header	Frame Material	Air Flow (CFM)	Initial Resistance (in W.G)		
					99.95% @MPPS	99.995% @MPPS	Recommended final resistance
24x12x12	5V	Single Header	Metal	883	0.88	1.00	2
24x24x12	5V	Single Header	Metal	2001	0.88	1.00	2
24x12x12	5V	No Header	Metal	1001	0.84	0.92	2
24x24x12	5V	No Header	Metal	2001	0.84	0.92	2

- Performance Initial Resistance Tolerance: ±15%
- Example dimensions displayed; custom sizes available for metal frame

PERFORMANCE DATA

Initial Resistance vs. Air Flow (Metal Frame)



Product size: 592x592x292(mm)/24x24x12(inch) --5V

EFFICIENCY STANDARD

Ashare MERV				ISO 16890: 2016				EN	EN779			EN1822
	Composite Average Oarticle Size Efficiency (Em) % in Size Range Um			Average of initial and discharged efficiency Em=(Ei+Ed)/2		Initial Efficiency (Ei)	Initial Arrestance (Am)		Average Arrestance (Am) of Synthetic Dust	Average Efficiency (Em) at 0.4um	Minimum Efficiency (Em) at 0.4Um	Initial Efficiency (Ei) at MPPS (Typically 0.08-0.15um)
	Range 1	Range 2	Range 3	ePM1%	ePM2.5%	ePM10%	Coarse		Test Final dP 250 Pa	Test final dP 450 Pa		
	0.3-1.0	1.0-3.0	3.0-10.0	0.3-1.0	1.0-3.0	3.0-10.0	ISO Fine Dust		%	%	%	%
1			Em<20				Am<50 Final dP 200Pa	G1	50<=Am<=65			
2			Em<20					G2	65<=Am<=80			
3			Em<20									
4			Em<20									
5			Em<20				Am>=50 Final dP 200Pa	G3	80<=Am<=90			
6			Em>=20					G4	Am<=90			
7			Em>=50									
8		Em>=20	Em>=70									
9		Em>=35	Em>=75			Ei>50		M5 (F5)		40<=Em<=60		
10		Em>=50	Em>=80									
11	Em>=20	Em>=65	Em>=85		Em>=50	Ei>70		M6		60<=Em<=80		
12	Em>=35	Em>=80	Em>=90									
13	Em>=50	Em>=85	Em>=90	Em>50	Em>65	Ei>80		F7		80<=Em<=90	Emin>=35	
14	Em>=75	Em>=90	Em>=95	Em>70	Em>80	Ei>90		F8		90<=Em<=95	Emin>=55	
15	Em>=85	Em>=90	Em>=95	Em>80				F9		95<=Em	Emin>=70	
16	Em>=95	Em>=95	Em>=95					E10				Ei>=85
								E11				Ei>=95
								E12				Ei>=99.5
HEPA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	H13				Ei>=99.95
H14											Ei>=99.995	
ULPA								U15				Ei>=99.9995
								U16				Ei>=99.99995
								U17				Ei>=99.999995