

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

The Amorair mini-pleated HVAC V-Bank filters are constructed with moisture-resistant fiberglass media and can be ordered in a variety of efficiencies, and other configurations. The V-shaped design extends the surface area of a standard filter without increasing the filter size. It can meet the requirements of critical manufacturing, commercial applications and labs



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

Specifications

Frame Material	Plastic / Galvanized Steel / Aluminum
Media	Moisture-resistant Fiberglass
U.S. Efficiency	MERV11,MERV13,MERV14,MERV15,MERV16
Euro Efficiency	M6,F7.F8.F9,E10.E11.E12
Max Temperature	70 °C (158 °F)
Sealant	Polyurethane
Header	No Header/ Single Header
Configurations	2V,3V,4V, 5V,6V,7V
Frame Thickness	292mm (11.5")

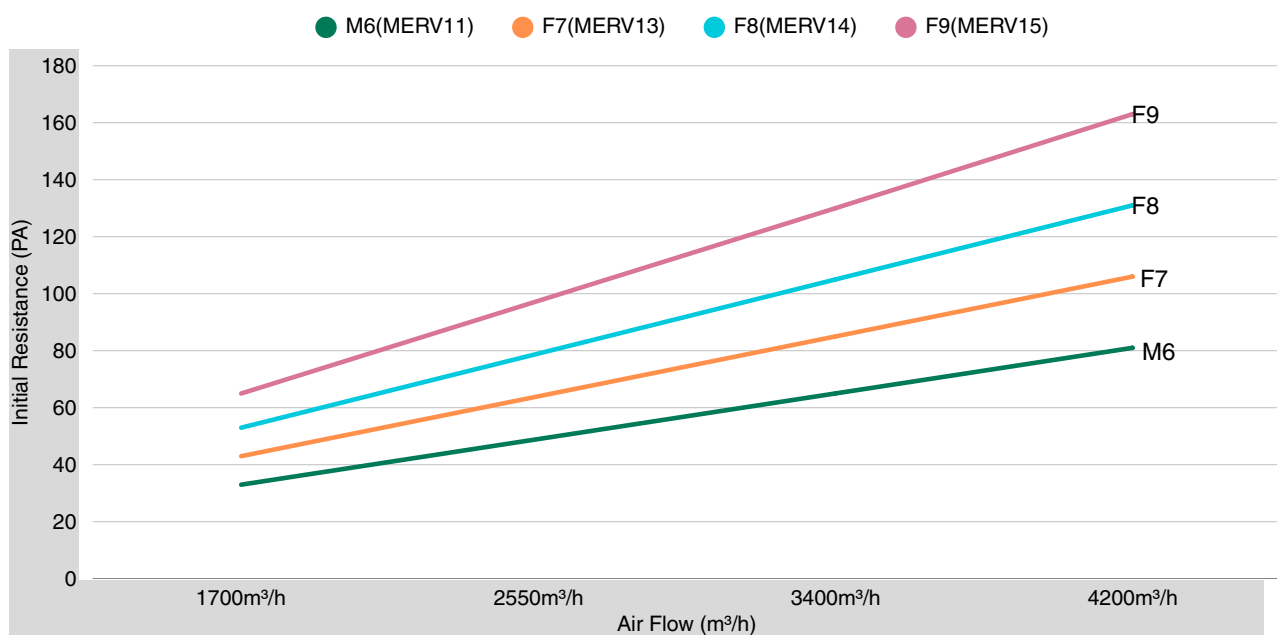
PRODUCT PARAMETERS

INTERNATIONAL STANDARD									
Actual Size (mm) (W*H*D)	Configurations	Header	Frame Material	Air Flow (m³/h)	Initial Resistance (Pa)				
					M6	F7	F8	F9	Recommended final resistance
287x592x292	2V	Single Header	Plastic	1700	65	85	105	130	450
592x287x292	4V	Single Header	Plastic	1700	65	85	105	130	450
592x592x292	4V	Single Header	Plastic	3400	65	85	105	130	450
U.S STANDARD									
Nominal Size (inch) W x H x D	Configurations	Header	Frame Material	Air Flow (CFM)	Initial Resistance (in W.G)				
					MERV11	MERV13	MERV14	MERV15	Recommended final resistance
12x24x12	2V	Single Header	Plastic	1001	0.26	0.34	0.42	0.52	1.8
24x12x12	4V	Single Header	Plastic	1001	0.26	0.34	0.42	0.52	1.8
24x24x12	4V	Single Header	Plastic	2001	0.26	0.34	0.42	0.52	1.8

- Performance Initial Resistance Tolerance: ±15%

PERFORMANCE DATA

Initial Resistance vs. Air Flow
(Plastic Frame)



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

PRODUCT PARAMETERS

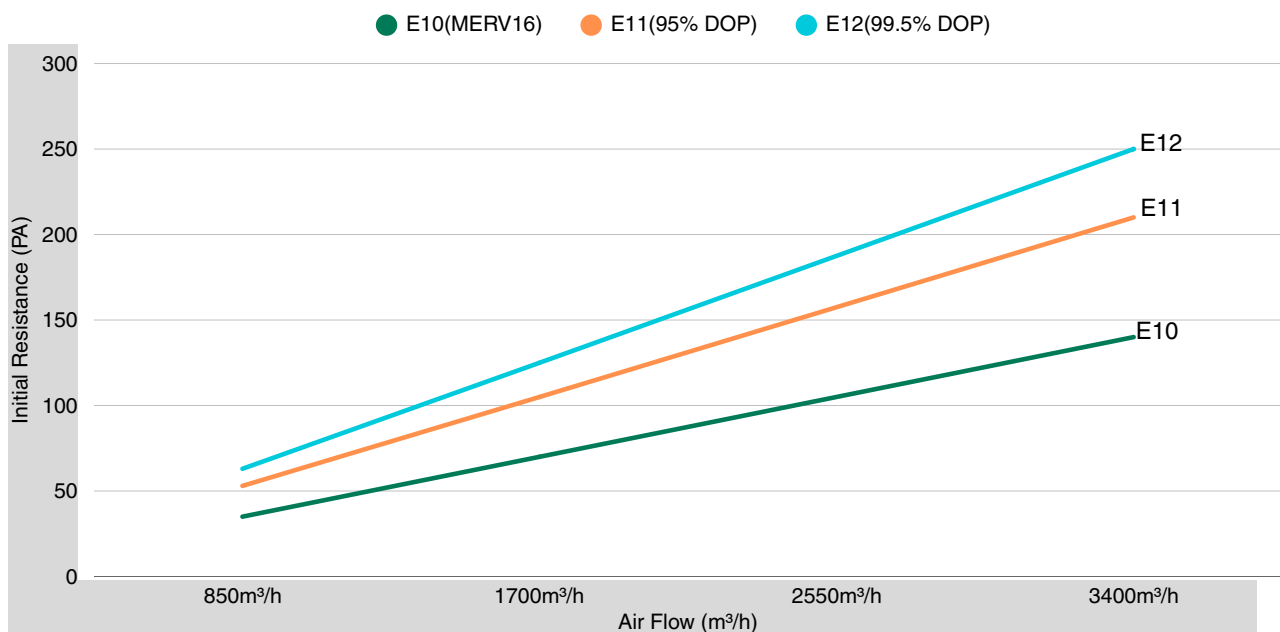
INTERNATIONAL STANDARD								
Actual Size (mm) (W*H*D)	Configurations	Header	Frame Material	Air Flow (m³/h)	Initial Resistance (Pa)			
					E10	E11	E12	Recommended final resistance
592x287x292	4V	Single Header	Plastic	1500	150	225	269	500
592x592x292	4V	Single Header	Plastic	3400	150	225	269	500
592x287x292	4V	Single Header	Metal	1500	140	210	250	500
592x592x292	4V	Single Header	Metal	3400	140	210	250	500

U.S STANDARD								
Nominal Size (inch) W x H x D	Configurations	Header	Frame Material	Air Flow (CFM)	Initial Resistance (in W.G)			
					MERV16	95% DOP	99.5% DOP	Recommended final resistance
24x12x12	4V	Single Header	Plastic	883	0.6	0.9	1.08	2
24x24x12	4V	Single Header	Plastic	2001	0.6	0.9	1.08	2
24x12x12	4V	Single Header	Metal	883	0.56	0.84	1	2
24x24x12	4V	Single Header	Metal	2001	0.56	0.84	1	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) --4V

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									
3			Em<20									
4			Em<20									
5			Em<20				Am>=50 Final dP 200Pa	G3	80<=Am<=90			
6			Em>=20									
7			Em>=50					G4	Am<=90			
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