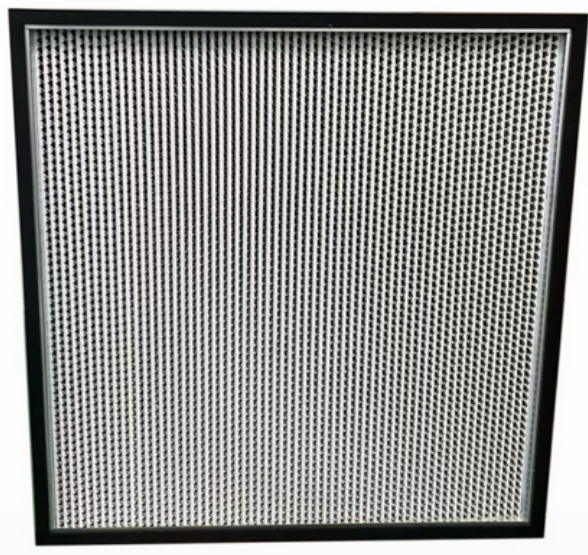


Separator HVAC Filter

(AG-HVAC-SWS)

Amorair pleated HVAC filters with separator, engineered for critical air quality control. It features rigid separators (such as aluminum foil or corrugated cardboard) inserted between the pleats to maintain their shape, ensure proper airflow pathways, and enhance overall structural strength. Suitable for various environments such as cleanrooms, laminar flow workstations, and air showers.



- Ultra Fine Glass Fiber
- High Dust Holding Capacity
- Low Pressure Drop
- Available for Custom Sizes

Specifications

Frame Material	Aluminum / Galvanized Steel / Stainless Steel
Media	Moisture-resistant fiberglass
Max Temperature	80 °C (180 °F)
Euro Efficiency	M6,F7,F8,F9,E10,E11,E12
U.S. Efficiency	ERV 11, MERV 13, MERV 14, MERV 15, MERV 16
Separator	Aluminum Foil /Corrugated Cardboard /Stainless Steel
Header	No Header /Single Header /Double Header
Sealant	Polyurethane
Depth	80mm (3.1") /150mm (5.9") /220mm (8.7") /292mm (11.5")

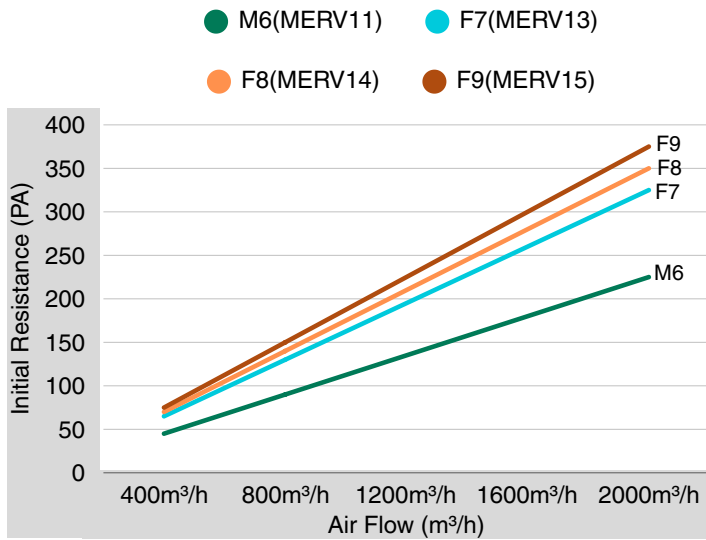
PRODUCT PARAMETERS

INTERNATIONAL STANDARD									
Actual Size (mm) (W*H*D)	Separator	Header	Air Flow (m³/h)	Face Velocity (m/s)	Initial Resistance (Pa)				
					M6	F7	F8	F9	Recommended final resistance
305x610x80	Aluminum Foil	No Header	400	0.6	90	130	140	150	300
610x610x80	Aluminum Foil	No Header	800	0.6	90	130	140	150	300
305x610x150	Aluminum Foil	No Header	650	1.2	90	130	140	150	300
610x610x150	Aluminum Foil	No Header	1400	1.2	90	130	140	150	300
305x610x220	Aluminum Foil	No Header	860	1.6	90	130	140	150	300
610x610x220	Aluminum Foil	No Header	1860	1.6	90	130	140	150	300
305x610x292	Aluminum Foil	No Header	1400	2.5	90	130	140	150	300
610x610x292	Aluminum Foil	No Header	3000	2.5	90	130	140	150	300
U.S STANDARD									
Nominal Size (in.) (W*H*D)	Separator	Header	Air Flow (CFM)	Face Velocity (FPM)	Initial Resistance (in W.G)				
					MERV11	MERV13	MERV14	MERV15	Recommended final resistance
12x24x3	Aluminum Foil	No Header	235	118	0.36	0.52	0.56	0.60	1.2
24x24x3	Aluminum Foil	No Header	471	118	0.36	0.52	0.56	0.60	1.2
12x24x6	Aluminum Foil	No Header	383	236	0.36	0.52	0.56	0.60	1.2
24x24x6	Aluminum Foil	No Header	824	236	0.36	0.52	0.56	0.60	1.2
12x24x9	Aluminum Foil	No Header	506	315	0.36	0.52	0.56	0.60	1.2
24x24x9	Aluminum Foil	No Header	1095	315	0.36	0.52	0.56	0.60	1.2
12x24x12	Aluminum Foil	No Header	824	492	0.36	0.52	0.56	0.60	1.2
24x24x12	Aluminum Foil	No Header	1766	492	0.36	0.52	0.56	0.60	1.2

- Performance Initial Resistance Tolerance: $\pm 10\%$
- Example dimensions displayed; custom sizes available

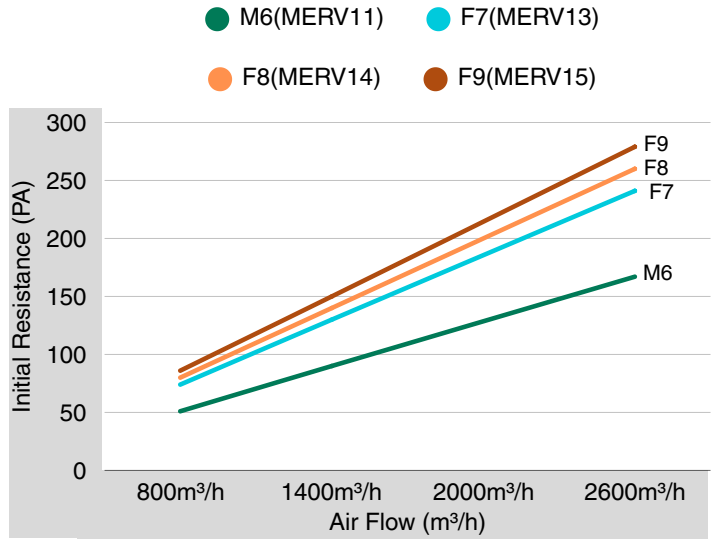
PERFORMANCE DATA

Initial Resistance vs. Air Flow
(Face Velocity: 0.6m/s)



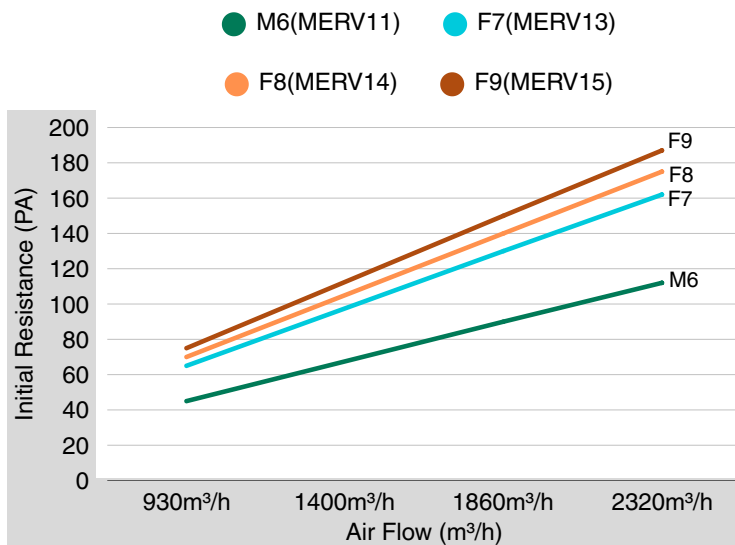
Product size: 610x610x80(mm)/24x24x3(inch)

Initial Resistance vs. Air Flow
(Face Velocity: 1.2m/s)



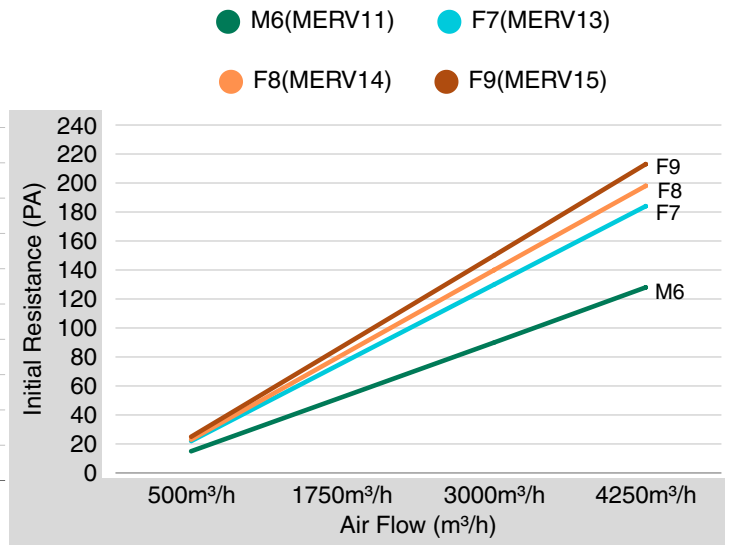
Product size: 610x610x150(mm)/24x24x6(inch)

Initial Resistance vs. Air Flow
(Face Velocity: 1.6m/s)



Product size: 610x610x220(mm)/24x24x9(inch)

Initial Resistance vs. Air Flow
(Face Velocity: 2.5m/s)



Product size: 610x610x292(mm)/24x24x12(inch)

PRODUCT PARAMETERS

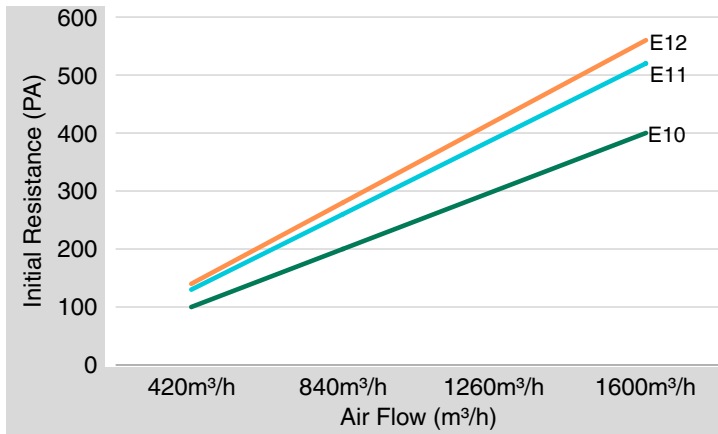
INTERNATIONAL STANDARD								
Actual Size (mm) (W*H*D)	Separator	Header	Air Flow (m³/h)	Face Velocity (m/s)	Initial Resistance (Pa)			
					E10	E11	E12	Recommended final resistance
305x610x80	Aluminum Foil	No Header	200	0.36	100	130	140	450
610x610x80	Aluminum Foil	No Header	420	0.36	100	130	140	450
305x610x150	Aluminum Foil	No Header	420	0.77	100	130	140	450
610x610x150	Aluminum Foil	No Header	900	0.77	100	130	140	450
305x610x220	Aluminum Foil	No Header	650	1.2	100	130	140	450
610x610x220	Aluminum Foil	No Header	1400	1.2	100	130	140	450
305x610x292	Aluminum Foil	No Header	860	1.6	100	130	140	450
610x610x292	Aluminum Foil	No Header	1860	1.6	100	130	140	450
U.S STANDARD								
Nominal Size (in.) (W*H*D)	Separator	Header	Air Flow (CFM)	Face Velocity (FPM)	Initial Resistance (in W.G)			
					MERV16	95% DOP	99.5% DOP	Recommended final resistance
12x24x3	Aluminum Foil	No Header	118	71	0.40	0.52	0.56	1.8
24x24x3	Aluminum Foil	No Header	247	71	0.40	0.52	0.56	1.8
12x24x6	Aluminum Foil	No Header	247	152	0.40	0.52	0.56	1.8
24x24x6	Aluminum Foil	No Header	530	152	0.40	0.52	0.56	1.8
12x24x9	Aluminum Foil	No Header	383	236	0.40	0.52	0.56	1.8
24x24x9	Aluminum Foil	No Header	824	236	0.40	0.52	0.56	1.8
12x24x12	Aluminum Foil	No Header	506	315	0.40	0.52	0.56	1.8
24x24x12	Aluminum Foil	No Header	1095	315	0.40	0.52	0.56	1.8

- Performance Initial Resistance Tolerance: $\pm 10\%$
- Example dimensions displayed; custom sizes available

PERFORMANCE DATA

Initial Resistance vs. Air Flow
(Face Velocity: 0.36m/s)

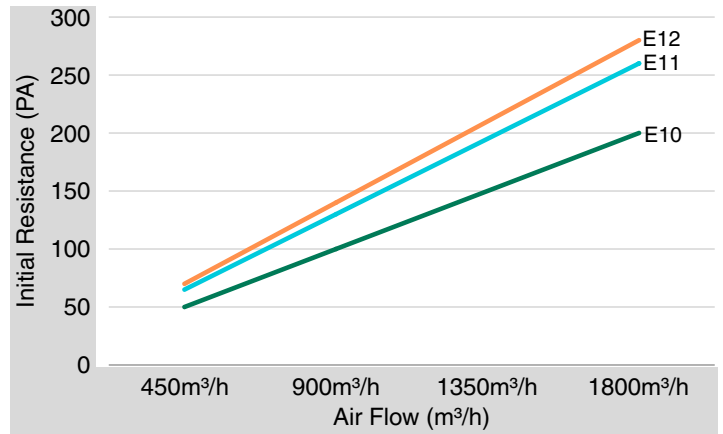
● E10(MERV16) ● E11(95% DOP)
● E12(99.5% DOP)



Product size: 610×610×80(mm)/24x24x3(inch)

Initial Resistance vs. Air Flow
(Face Velocity: 0.77m/s)

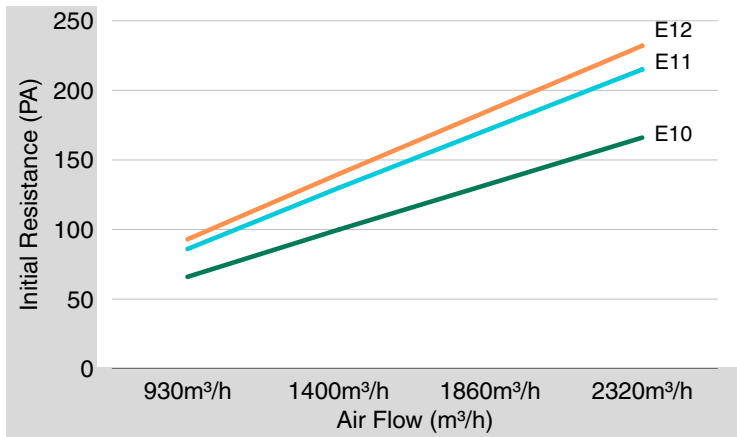
● E10(MERV16) ● E11(95% DOP)
● E12(99.5% DOP)



Product size: 610×610×150(mm)/24x24x6(inch)

Initial Resistance vs. Air Flow
(Face Velocity: 1.2m/s)

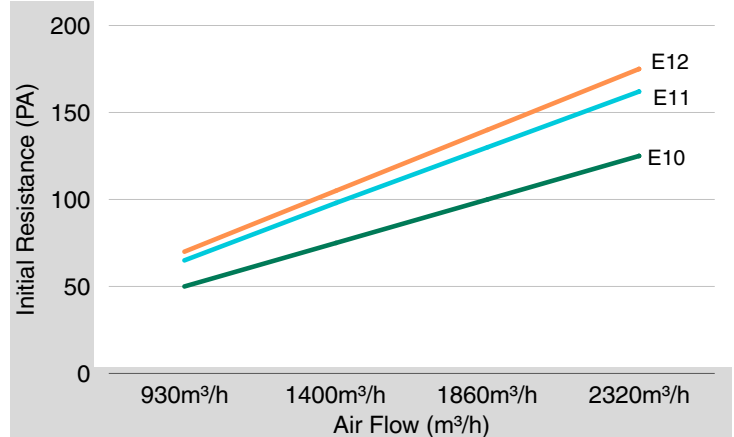
● E10(MERV16) ● E11(95% DOP)
● E12(99.5% DOP)



Product size: 610×610×220(mm)/24x24x9(inch)

Initial Resistance vs. Air Flow
(Face Velocity: 1.6m/s)

● E10(MERV16) ● E11(95% DOP)
● E12(99.5% DOP)



Product size: 610×610×292(mm)/24x24x12(inch)

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