

Mini-Pleated Low-Resistance HVAC Filter

(AG-HVAC-MP)



Amorair mini-pleated low-resistance HVAC filters utilize synthetic fiber media that effectively capture dust, pollen, and larger particles. The compact design enables a higher surface area & a stronger dust-holding capacity, enhancing airflow while maintaining filtration efficiency. Ideal for residential and commercial applications.

- Lightweight & Compact Size
- Low Pressure Drop
- Easy Installation
- Robust Construction
- Available for Custom Sizes

SPECIFICATIONS

Frame Material	Aluminum / Plastic / Galvanized steel / Stainless Steel
Media	Low-pressure-drop Synthetic Fiber
U.S. Efficiency	MERV11, MERV13, ERV14, ERV15, MERV16
Euro Efficiency	M6, F7, F8, F9, E10, E11, E12
Max Temperature	60 °C (140 °F)
Faceguard	Optional
Sealant	Polyurethane/ Hot Melt Adhesive
Depth	30mm(1.2")/50mm (2") / 70mm (2.75"), custom upon request

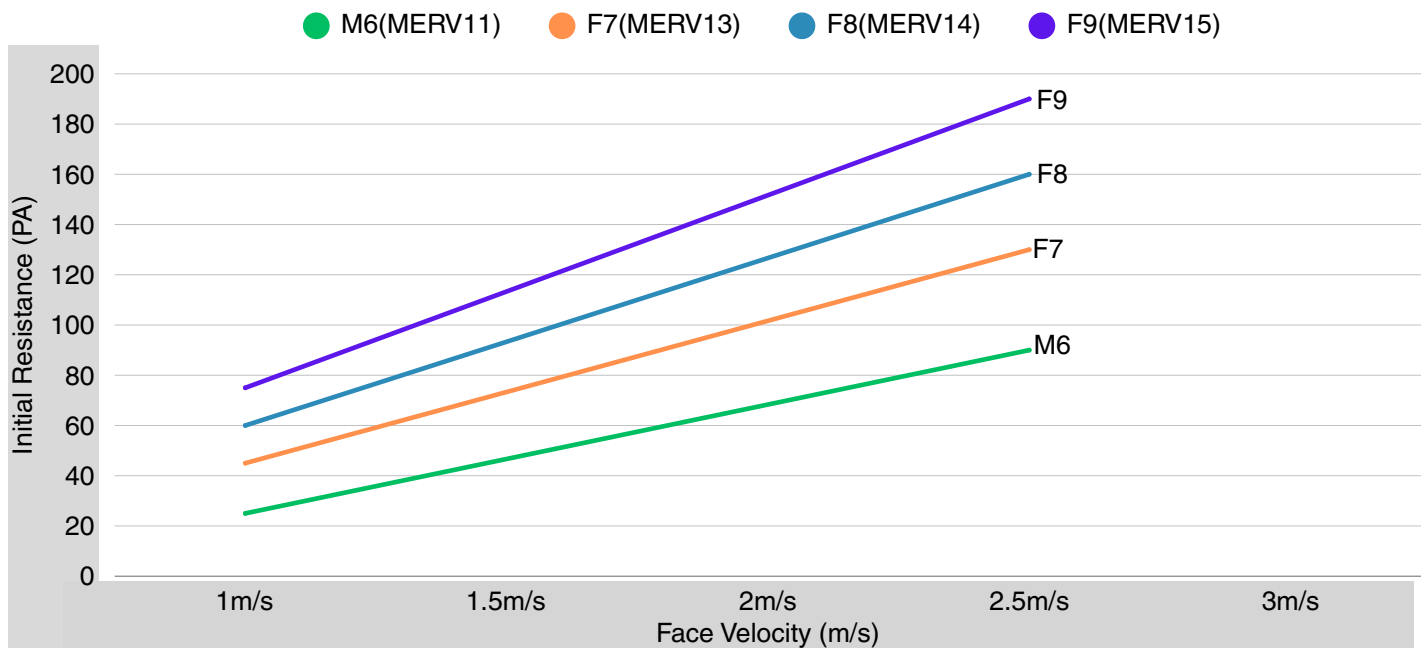
PRODUCT PARAMETERS

INTERNATIONAL STANDARD					
Actual Size (mm) W x H x D	Face Velocity (m/s)	Initial Resistance(Pa)			
		M6	F7	F8	F9
305x 610x 30	1	25	45	60	75
610x 610x30	1	25	45	60	75
305x 610x 50	1	25	45	60	75
610x 610x 50	1	25	45	60	75
U.S STANDARD					
Nominal Size (in.) (W*H*D)	Face Velocity (FPM)	Initial Resistance (in W.G)			
		MERV11	MERV13	MERV14	MERV15
12x 24x1	197	0.1	0.18	0.24	0.3
24x 24x1	197	0.1	0.18	0.24	0.3
12x 24x 2	197	0.1	0.18	0.24	0.3
24x 24x 2	197	0.1	0.18	0.24	0.3

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

PERFORMANCE DATA

Initial Resistance vs. Filter Face Velocity



Product size: 610x 610x 50(mm) / 24x 24x 2(inch)

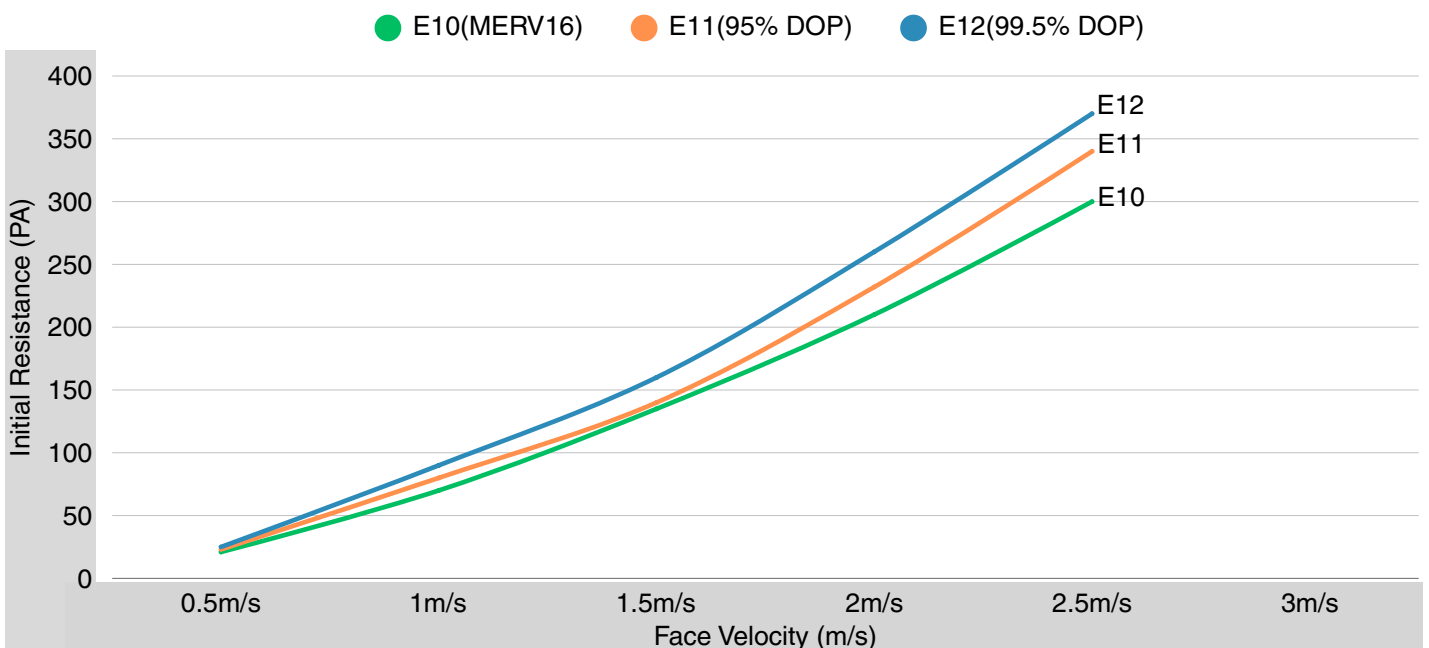
PRODUCT PARAMETERS

INTERNATIONAL STANDARD				
Actual Size (mm) W x H x D	Face Velocity (m/s)	Initial Resistance(Pa)		
		E10	E11	E12
305x 610x50	1	70	80	90
610x 610x50	1	70	80	90
305x 610x 70	1	70	80	90
610x 610x 70	1	70	80	90
U.S STANDARD				
Nominal Size (in.) (W*H*D)	Face Velocity (FPM)	Initial Resistance (in W.G)		
		MERV16	95% DOP	99.5% DOP
12x 24x2	197	0.28	0.32	0.36
24x 24x2	197	0.28	0.32	0.36
12x 24x 3	197	0.28	0.32	0.36
24x 24x 3	197	0.28	0.32	0.36

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

PERFORMANCE DATA

Initial Resistance vs. Filter Face Velocity



Product size: 610x 610x 70(mm) / 24x 24x 3(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