

Pleated Panel Filters (Cardboard)

(AG-HVAC-PAN)

Amorair HVAC pleated filter has a simple and sturdy structure. The cardboard is moisture-proof and high temperature-resistant, and is tightly bonded to the filter material, which enhances the sturdiness of the filter. A layer of steel mesh is tightly bonded to the filter material, and the pleats of the filter material with equal height and spacing allow air to pass freely and evenly, while also enhancing the strength of the filter material pleats, effectively reducing the shaking of the filter material pleats during use, thereby reducing secondary pollution.



- Economy Version
- Robust Construction
- Easy Installation
- Space Saving
- Available for Custom Sizes

Specifications

Frame Material	Cardboard
Media	Synthetic Fiber
U.S. Efficiency	MERV 8,MERV10,MERV11,MERV 13
Euro Efficiency	G4,M5,M6,F7
Replacement Rate	3-6 Months
Max Temperature	70 °C (158 °F)
Model Version	Economy Capacity/ Standard Capacity/ High Capacity
Depth	22mm (1")/ 44mm (2")/ 95mm (4")

PRODUCT PARAMETERS

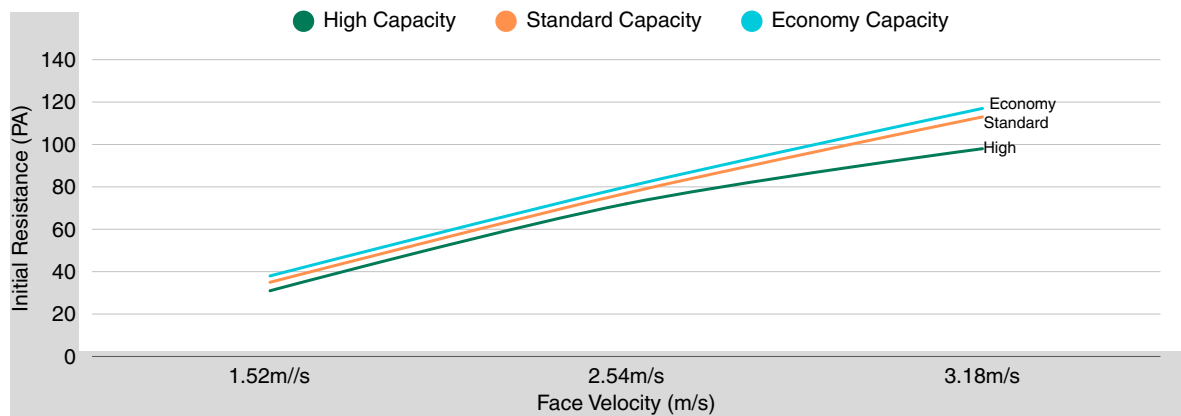
INTERNATIONAL STANDARD				
Model Version	Depth(mm)	Related Initial Resistance (Pa)		
		1.52m/s	2.54m/s	3.18m/s
High	44	31	72	98
High	95	29	61	88
Standard	44	35	77	113
Standard	95	33	65	93
Economy	44	38	80	117
Economy	95	35	68	96

U.S STANDARD				
Model Version	Depth(inch)	Related Initial Resistance (in W.G)		
		300 FPM	500 FPM	625 FPM
High	2	0.12	0.29	0.39
High	4	0.11	0.24	0.35
Standard	2	0.14	0.30	0.45
Standard	4	0.12	0.26	0.37
Economy	2	0.15	0.32	0.47
Economy	4	0.14	0.27	0.38

- Performance Initial Resistance Tolerance: (-2mm,+5mm)
- Recommended Final Resistance: 150 Pa(0.6 in W.G))
- Example dimensions displayed; custom Sizes Available

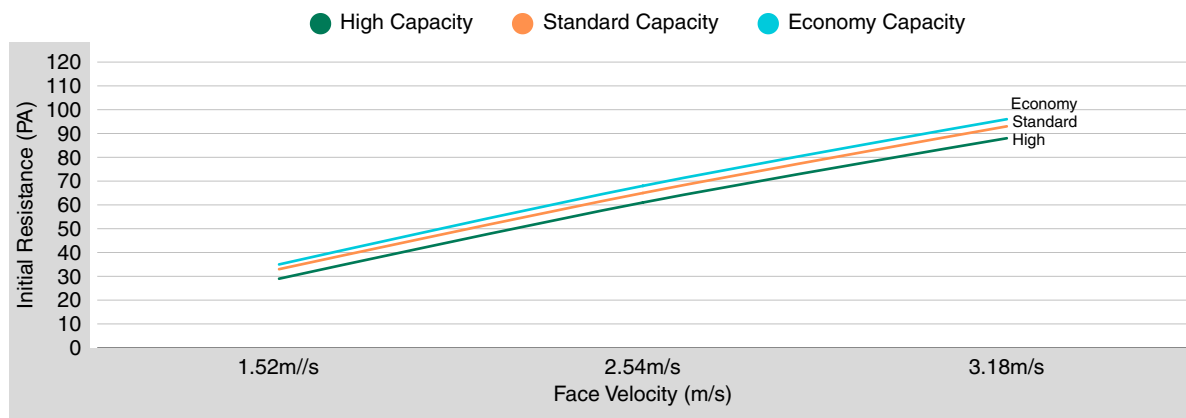
PERFORMANCE DATA

Initial Resistance vs. Face Velocity



Product Depth:44mm/ 2"

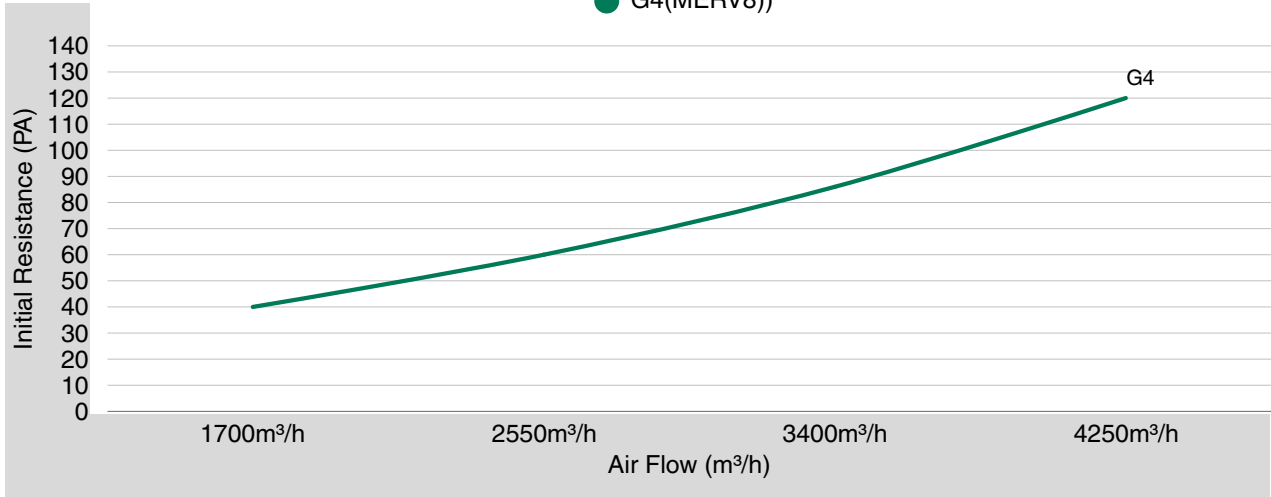
Initial Resistance vs. Face Velocity



Product Depth:95mm/ 4"

Initial Resistance vs. Air Flow

● G4(MERV8))



Product size: 595×595×44(mm)/24x24x2(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										
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	