

Pleated Panel Filters (Aluminum) (AG-HVAC-PAN)

Constructed with a rigid aluminum alloy frame – available with ABS plastic corners or aluminum alloy corners – Amoraire pleated panel filters deliver exceptional structural integrity and vibration resistance for stable, long-lasting operation. The filtration media utilizes advanced polyester fiber pleats with integrated mesh reinforcement. This innovative design delivers two critical advantages:

- Ultra-Low Initial Resistance for optimized energy efficiency
- Maximized Dust Holding Capacity extending service life while maintaining consistent airflow



- Economy Version
- Robust Construction
- High Dust Holding Capacity
- Low Pressure Drop
- Available for Custom Sizes

Specifications

Frame Material	Aluminum
Media	Synthetic Fiber
Max Temperature	70 °C (158 °F)
Euro Efficiency	G3,G4
U.S. Efficiency	MERV 6,MERV8
Connection Angle	Aluminum Alloy/ High Temperature Resistant Plastic
Depth	46mm (1.8") /96mm (3.8")
Replacement Rate	3-6 Months

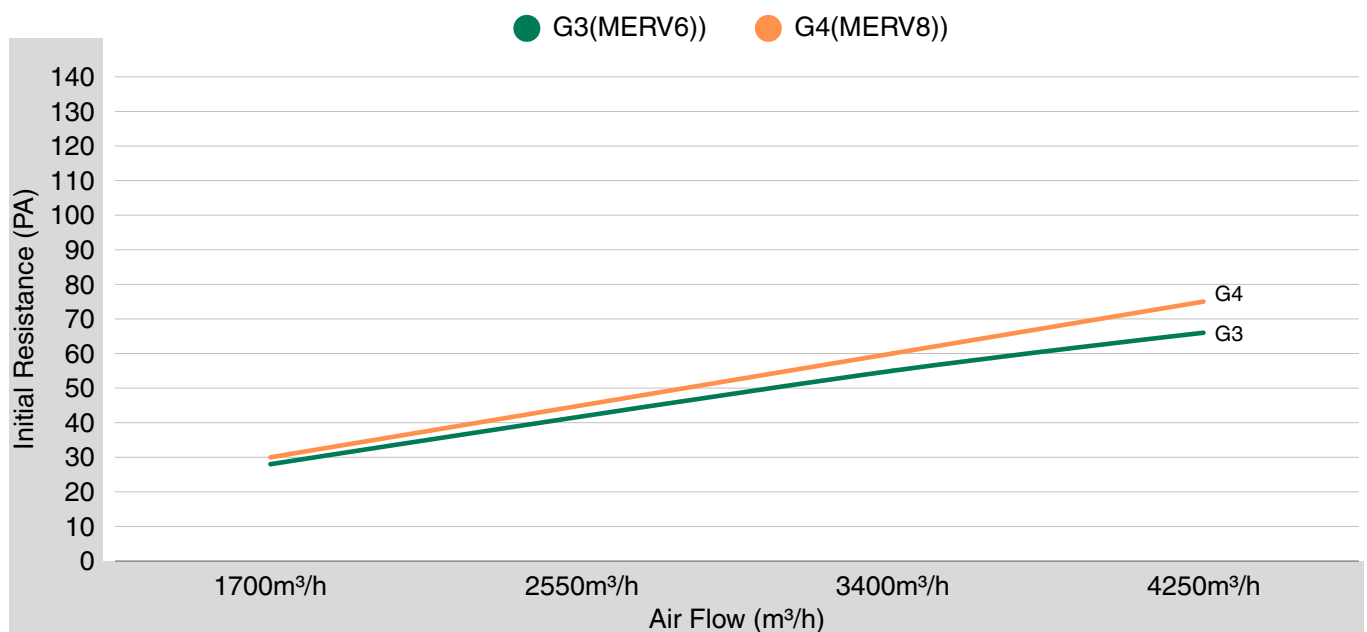
PRODUCT PARAMETERS

INTERNATIONAL STANDARD						
Actual Size (mm) (W*H*D)	Efficiency	Air Flow (m³/h)	Initial Resistance at Different Airflow Rates(Pa)			
			70%	100%	120%	Recommended final resistance
290x595x46	G3	1700	35	55	70	2 to 2.5 times of Initial Resistance
595x595x46	G3	3400	35	55	70	
290x595x46	G4	1700	40	60	75	
595x595x46	G4	3400	40	60	75	
U.S. STANDARD						
Nominal Size (in.) (W*H*D)	Efficiency	Air Flow (CFM)	Initial Resistance at Different Airflow Rates(in W.G)			
			70%	100%	120%	Recommended final resistance
12x24x2	MERV6	1001	0.14	0.22	0.28	2 to 2.5 times of Initial Resistance
24x24x2	MERV6	2001	0.14	0.22	0.28	
12x24x2	MERV8	1001	0.16	0.24	0.30	
24x24x2	MERV8	2001	0.16	0.24	0.30	

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

PERFORMANCE DATA

Initial Resistance vs. Air Flow



Product size: 595x595x46(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					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