

HVAC Bag Filter

(AG-BAG)

Amorair bag filters represent a fundamental and highly efficient class of air filtration technology widely deployed in commercial, industrial, and HVAC systems. They are composed of multiple bag-shaped filter media and metal frames and can filter larger particles from the air. Bag filters have a simple structure and significantly reduce energy costs due to their extremely low initial resistance and high dust-holding capacity.



- High Dust-holding Power
- Economy Version
- Low Initial Resistance
- Long Service Life
- Available for Custom Sizes

Specifications

Frame Material	Galvanized Steel / Aluminum
Media	Synthetic Fiber
U.S. Efficiency	MERV6,MERV8,MERV10,MERV11,MERV13,MERV14,MERV15
Euro Efficiency	G3,G4,M5,M6,F7,F8,F9,
Max Temperature	60 °C (140 °F)
Connection Angle	Aluminum Alloy/ High Temperature Resistant Plastic
Bag Quantity	3PCS-12PCS
Frame Thickness	20mm (0.79") / 21mm (0.83") / 26mm (1") / 47mm (1.85"), custom upon request

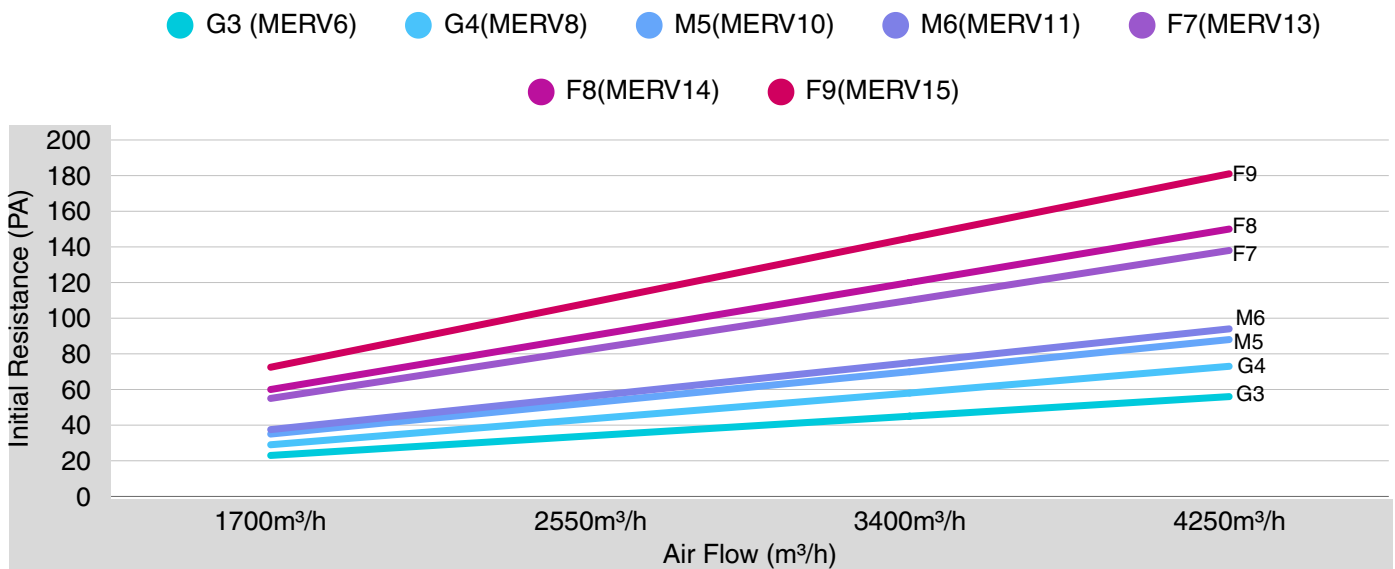
PRODUCT PARAMETERS

INTERNATIONAL STANDARD											
Actual Size (mm) W x H x D	Bag Quantity (pcs)	Air Flow (m³/h)	Initial Resistance (Pa)							Recommended final resistance	
			G3	G4	M5	M6	F7	F8	F9	G3-G4	M5-F9
287x592x381	4	1700	46	60	70	75	110	120	145	250	450
592x592x381	8	3400	45	58	70	75	110	120	145	250	450
287x592x550	4	1700	42	50	60	65	100	115	135	250	450
592x592x550	8	3400	40	49	60	65	100	115	135	250	450
287x592x635	4	1700	38	48	55	58	90	95	125	250	450
592x592x635	8	3400	37	45	55	58	90	95	125	250	450
U.S STANDARD											
Nominal Size (inch) W x H x D	Bag Quantity (pcs)	Air Flow (CFM)	Initial Resistance (in W.G)							Recommended final resistance	
			MERV6	MERV8	MERV10	MERV11	MERV13	MERV14	MERV15	MERV6- MERV-8	MERV10- MERV15
12x24x15	4	1001	0.18	0.24	0.28	0.3	0.44	0.48	0.58	1	1.8
24x24x15	8	2001	0.18	0.23	0.28	0.3	0.44	0.48	0.58	1	1.8
12x24x22	4	1001	0.17	0.20	0.24	0.26	0.40	0.46	0.54	1	1.8
24x24x22	8	2001	0.16	0.20	0.24	0.26	0.40	0.46	0.54	1	1.8
12x24x25	4	1001	0.15	0.19	0.22	0.23	0.36	0.38	0.50	1	1.8
24x24x25	8	2001	0.15	0.18	0.22	0.23	0.36	0.38	0.50	1	1.8

- Performance Initial Resistance Tolerance: ±10%
- Example dimensions displayed; custom sizes available

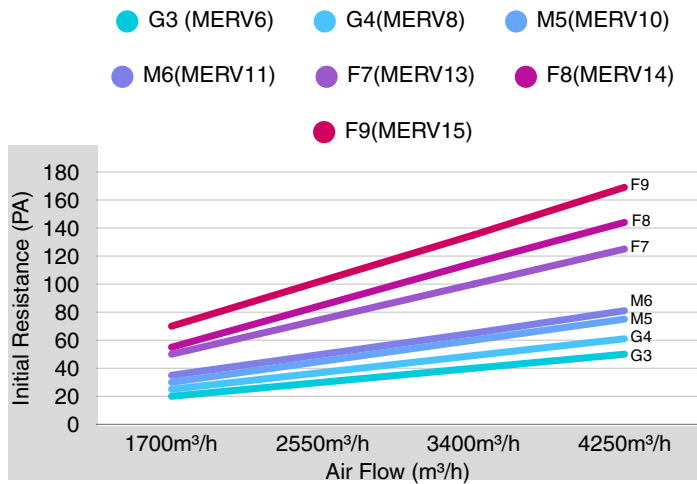
PERFORMANCE DATA

Initial Resistance vs. Air Flow



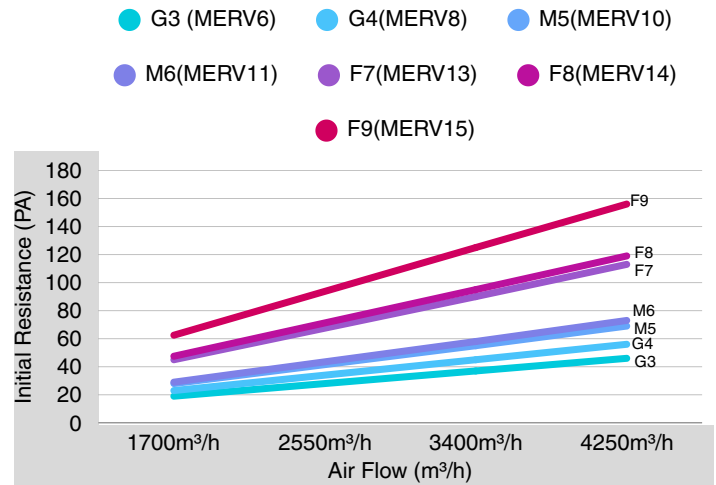
Product size: 592x592x381(mm),24x 24x 15(inch) 8pcs

Initial Resistance vs. Air Flow



Product size: 592x592x550(mm),24x 24x 22(inch) 8pcs

Initial Resistance vs. Air Flow



Product size: 592x592x635(mm),24x 24x 25(inch) 8pcs

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 Arrestanc e (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	