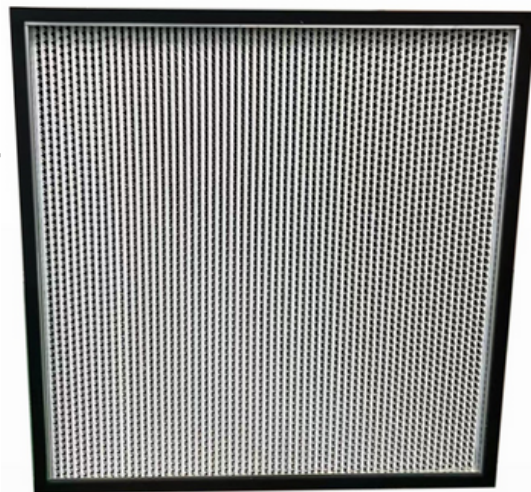


Separator HEPA Filter

(AG-HEPA-SWS)

Amorair HEPA filter with separator is a device used for terminal filtration in the filtration system. It uses glass fiber as filter material, corrugated paper or aluminum foil as separator, polyurethane sealant as seal, galvanized sheet/stainless steel sheet/aluminum alloy as outer frame, and each unit has been strictly tested. This filter can filter out airborne particles below 0.3 μm and is widely used in places with high cleanliness requirements.



- Ultra Fine Glass Fiber
- High Dust Holding Capacity
- Low Pressure Drop
- Available for Custom Sizes
- Optional Faceguard/ Gasket
- 100% Scan Tested According To EN1822/ISO29463

Specifications

Frame Material	Aluminum / Galvanized Steel / Stainless Steel
Media	Moisture-resistant Fiberglass
Max Temperature	80 °C (180 °F)
Euro Efficiency	H13 ,H14
U.S. Efficiency	99.95%, 99.995% @ MPPS
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

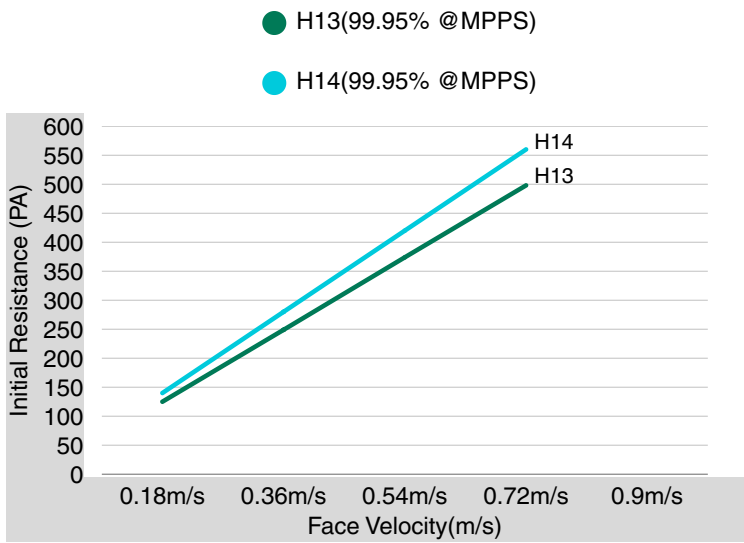
◀◀ Separator HEPA Filter- Standard Capacity ▶▶

INTERNATIONAL STANDARD							
Actual Size (mm) (W*H*D)	Separator	Header	Air Flow (m³/h)	Face Velocity (m/s)	Initial Resistance (Pa)		
					H13	H14	Recommended final resistance
305x610x80	Aluminum Foil	No Header	200	0.36	249	280	2 - 2.5 times of initial resistance
610x610x80	Aluminum Foil	No Header	420	0.36	249	280	
305x610x150	Aluminum Foil	No Header	420	0.77	249	280	
610x610x150	Aluminum Foil	No Header	900	0.77	249	280	
305x610x220	Aluminum Foil	No Header	650	1.2	249	280	
610x610x220	Aluminum Foil	No Header	1400	1.2	249	280	
305x610x292	Aluminum Foil	No Header	860	1.6	249	280	
610x610x292	Aluminum Foil	No Header	1860	1.6	249	280	
U.S STANDARD							
Nominal Size (in.) (W*H*D)	Separator	Header	Air Flow (CFM)	Face Velocity (FPM)	Initial Resistance (in W.G)		
					99.95% @ MPPS	99.995% @ MPPS	Recommended final resistance
12x24x3	Aluminum Foil	No Header	118	71	1.00	1.12	2 - 2.5 times of initial resistance
24x24x3	Aluminum Foil	No Header	247	71	1.00	1.12	
12x24x6	Aluminum Foil	No Header	247	152	1.00	1.12	
24x24x6	Aluminum Foil	No Header	530	152	1.00	1.12	
12x24x9	Aluminum Foil	No Header	383	236	1.00	1.12	
24x24x9	Aluminum Foil	No Header	824	236	1.00	1.12	
12x24x12	Aluminum Foil	No Header	506	315	1.00	1.12	
24x24x12	Aluminum Foil	No Header	1095	315	1.00	1.12	

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

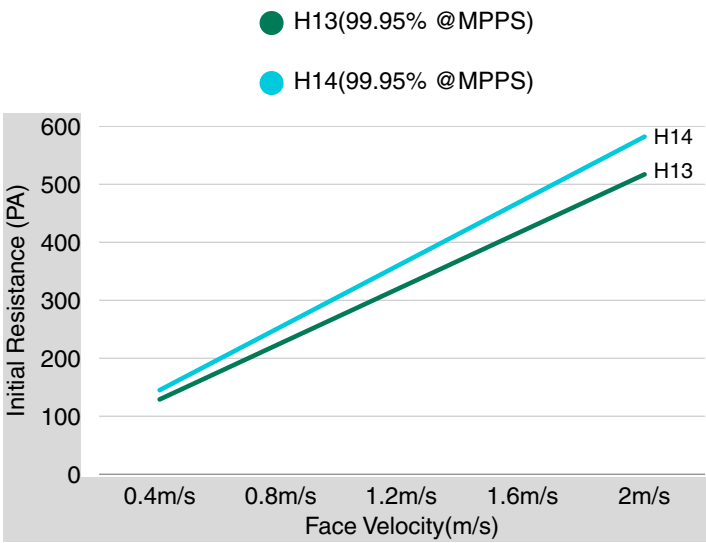
PERFORMANCE DATA

Initial Resistance vs. Face Velocity



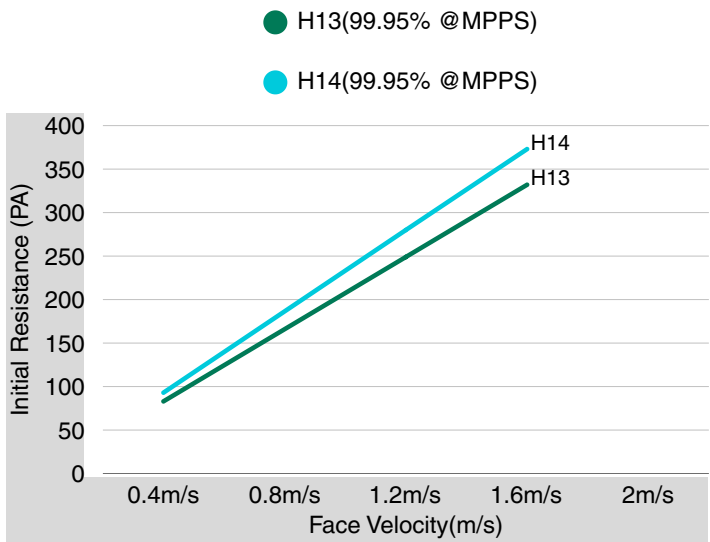
Product size: 610×610×80(mm)/24×24×3(inch)

Initial Resistance vs. Face Velocity



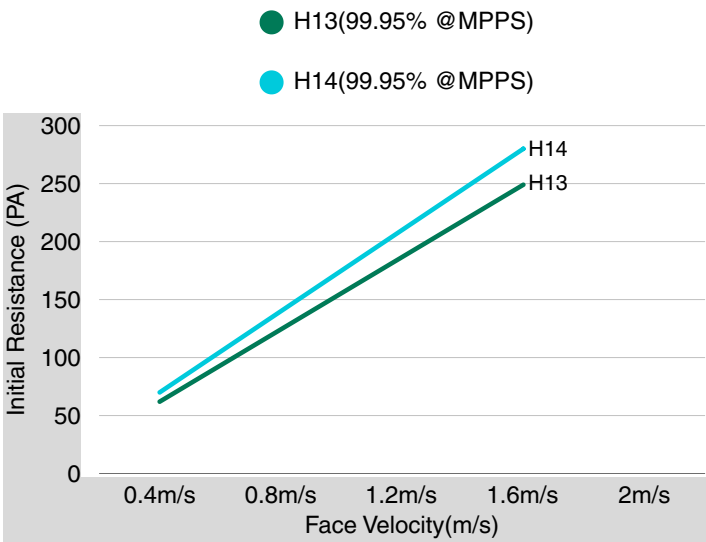
Product size: 610×610×150(mm)/24×24×6(inch)

Initial Resistance vs. Face Velocity



Product size: 610×610×220(mm)/24×24×9(inch)

Initial Resistance vs. Face Velocity



Product size: 610×610×292(mm)/24×24×12(inch)

PRODUCT PARAMETERS

◀◀Separator HEPA Filter- High Capacity▶▶

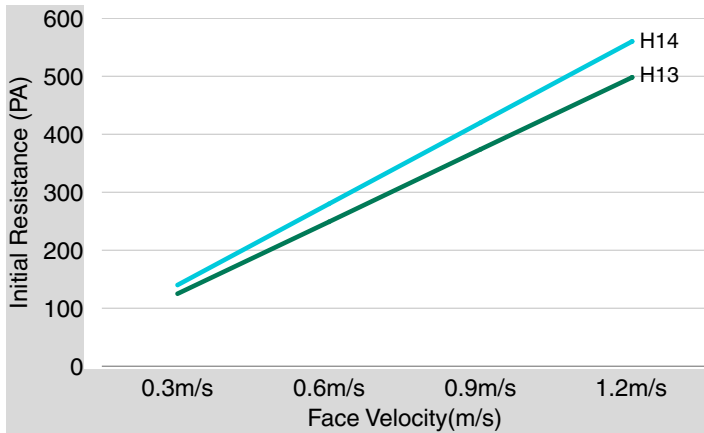
INTERNATIONAL STANDARD							
Actual Size (mm) (W*H*D)	Separator	Header	Air Flow (m³/h)	Face Velocity (m/s)	Initial Resistance (Pa)		
					H13	H14	Recommended final resistance
305x610x80	Aluminum Foil	No Header	400	0.6	249	280	2 - 2.5 times of initial resistance
610x610x80	Aluminum Foil	No Header	800	0.6	249	280	
305x610x150	Aluminum Foil	No Header	550	1	249	280	
610x610x150	Aluminum Foil	No Header	1170	1	249	280	
305x610x220	Aluminum Foil	No Header	850	1.55	249	280	
610x610x220	Aluminum Foil	No Header	1820	1.55	249	280	
305x610x292	Aluminum Foil	No Header	1120	2	249	280	
610x610x292	Aluminum Foil	No Header	2400	2	249	280	
U.S STANDARD							
Nominal Size (in.) (W*H*D)	Separator	Header	Air Flow (CFM)	Face Velocity (FPM)	Initial Resistance (in W.G)		
					99.95% @ MPPS	99.995% @ MPPS	Recommended final resistance
12x24x3	Aluminum Foil	No Header	235	118	1.00	1.12	2 - 2.5 times of initial resistance
24x24x3	Aluminum Foil	No Header	471	118	1.00	1.12	
12x24x6	Aluminum Foil	No Header	324	197	1.00	1.12	
24x24x6	Aluminum Foil	No Header	689	197	1.00	1.12	
12x24x9	Aluminum Foil	No Header	500	305	1.00	1.12	
24x24x9	Aluminum Foil	No Header	1071	305	1.00	1.12	
12x24x12	Aluminum Foil	No Header	659	394	1.00	1.12	
24x24x12	Aluminum Foil	No Header	1413	394	1.00	1.12	

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

PERFORMANCE DATA

Initial Resistance vs. Face Velocity

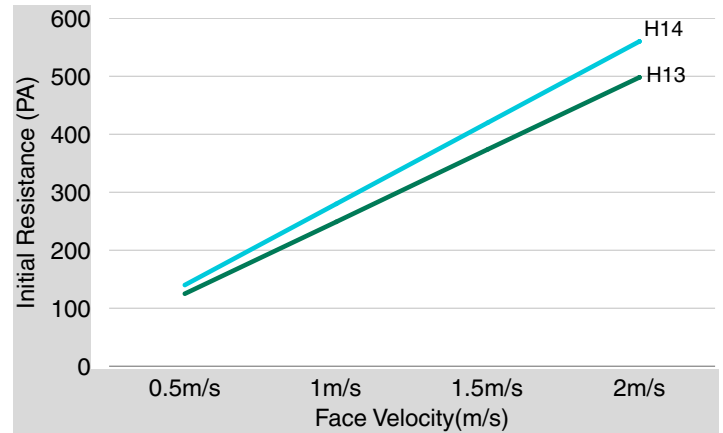
- H13(99.95% @MPPS)
- H14(99.95% @MPPS)



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

Initial Resistance vs. Face Velocity

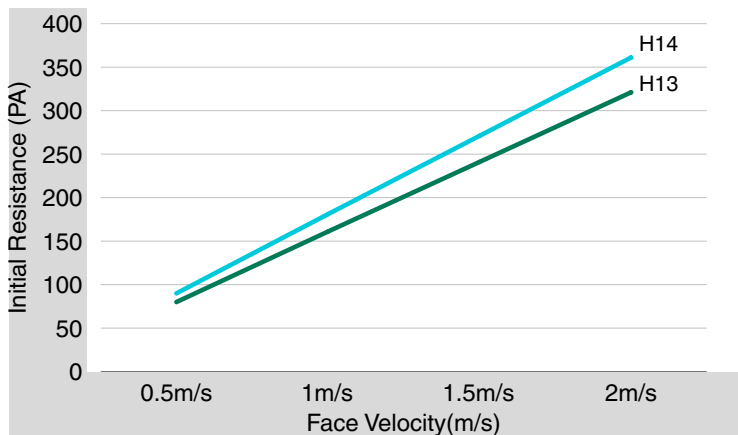
- H13(99.95% @MPPS)
- H14(99.95% @MPPS)



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

Initial Resistance vs. Face Velocity

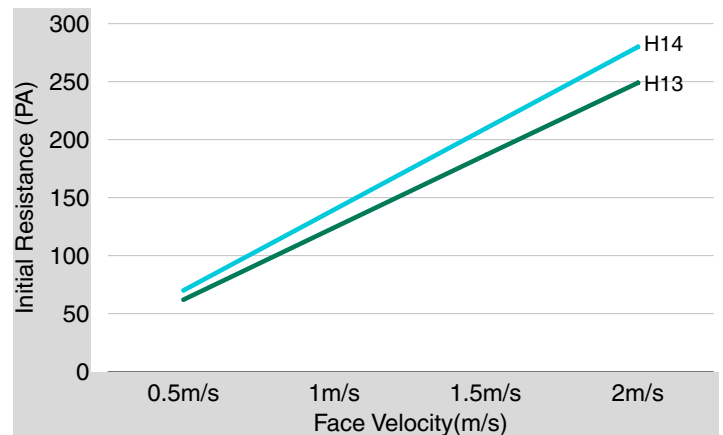
- H13(99.95% @MPPS)
- H14(99.95% @MPPS)



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

Initial Resistance vs. Face Velocity

- H13(99.95% @MPPS)
- H14(99.95% @MPPS)



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

PRODUCT PARAMETERS

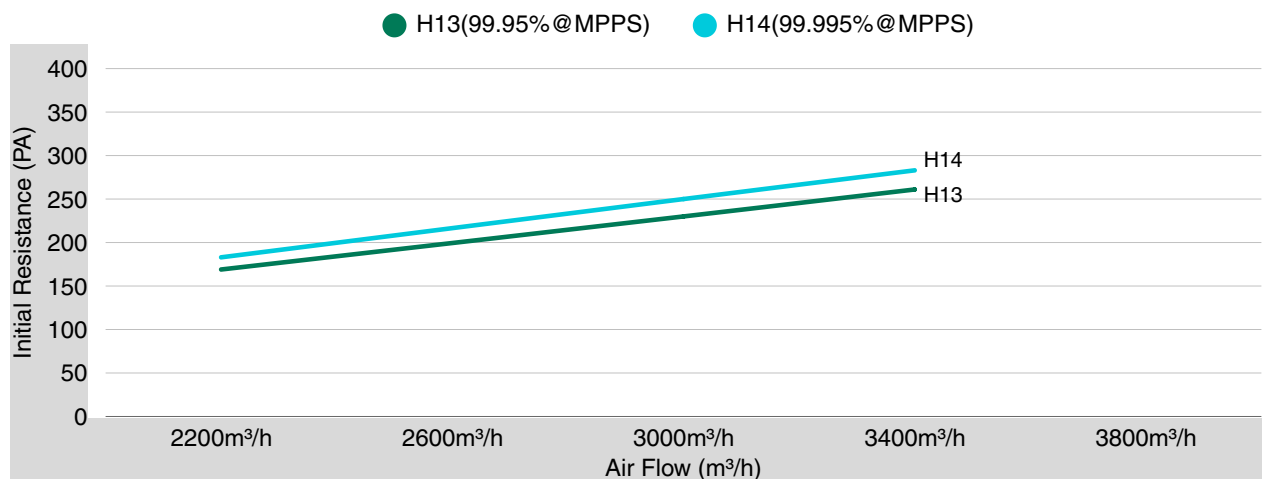
◀◀ Separator HEPA Filter- Premium Capacity ▶▶

INTERNATIONAL STANDARD							
Actual Size (mm) (W*H*D)	Separator	Header	Air Flow (m³/h)	Face Velocity (m/s)	Initial Resistance (Pa)		
					H13	H14	Recommended final resistance
305x610x292	Aluminum Foil	No Header	1400	2.5	230	250	2 - 2.5 times of initial resistance
610x305x292	Aluminum Foil	No Header	1400	2.5	230	250	
610x610x292	Aluminum Foil	No Header	3000	2.5	230	250	
U.S STANDARD							
Nominal Size (in.) (W*H*D)	Separator	Header	Air Flow (CFM)	Face Velocity (FPM)	Initial Resistance (in W.G)		
					99.95% @ MPPS	99.995% @ MPPS	Recommended final resistance
12x24x12	Aluminum Foil	No Header	824	492	0.92	1	2 - 2.5 times of initial resistance
24x12x12	Aluminum Foil	No Header	824	492	0.92	1	
24x24x12	Aluminum Foil	No Header	1766	492	0.92	1	

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

PERFORMANCE DATA

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



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										
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	