

Mini-pleated HEPA/ULPA Filters (Knife-edge) (AG-HEPA/ULPA-MP)

Amorair HEPA/ULPA knife-edge filter- a mini-pleated filter with great performance in industrial air filtration. It adopts a unique knife-edge structure design, which has better sealing performance than a traditional sealing structure. All of them have passed effective leak detection and scanning tests before leaving the factory. While effectively reducing the operating cost of the clean room, it can meet the occasions with higher requirements for sealing.



- High Efficiency
- Low Initial Resistance
- Better Sealing Performance
- Available for Custom Sizes
- 100% Scan Tested According To EN1822/ISO29463

Specifications

Frame Material	Aluminum
Media	Fiberglass
U.S. Efficiency	99.95%, 99.995%, 99.9995%, 99.99995% @ MPPS
Euro Efficiency	H13, H14, U15, U16
Max Temperature	70 °C (158 °F)
Sealant	Polyurethane
Protection	Front and Back Faceguard Recommended
Depth	88mm (3.5")/110mm (4.3") / 130mm (5.1"), custom upon request

PRODUCT PARAMETERS

INTERNATIONAL STANDARD						
Actual Size (mm) W x H x D	Air Flow (m³/h)	Face Velocity (m/s)	Initial Resistance (Pa)			
			H13	H14	U15	U16
610x305x88	260	0.45	100	110	120	140
610x610x88	550	0.45	100	110	120	140
610x305x110	260	0.45	75	80	90	110
610x610x110	550	0.45	75	80	90	110
610x305x130	260	0.45	60	65	70	85
610x610x130	550	0.45	60	65	70	85

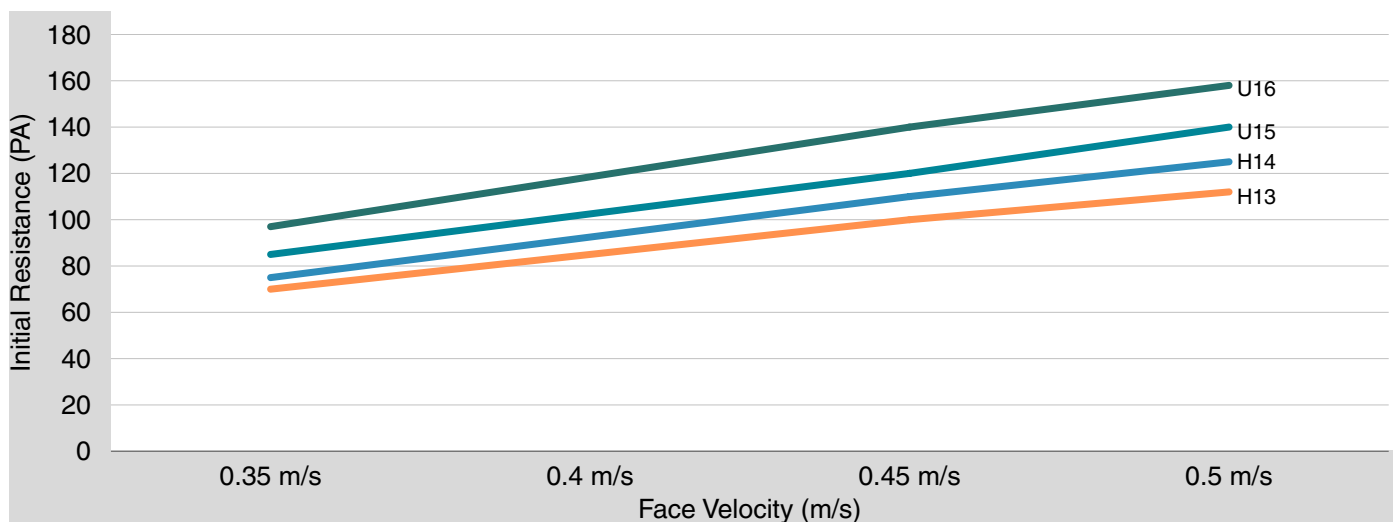
U.S STANDARD						
Nominal Size (inch) W x H x D	Air Flow (CFM)	Face Velocity (FPM)	Initial Resistance (in W.G)			
			99.95%	99.995%	99.9995%	99.99995%
24x 12x 3.5	153	89	0.40	0.44	0.48	0.56
24x 24x 3.5	324	89	0.40	0.44	0.48	0.56
24x 12x 4.3	153	89	0.30	0.32	0.36	0.44
24x 24x 4.3	324	89	0.30	0.32	0.36	0.44
24x 12x 5.1	153	89	0.24	0.26	0.28	0.34
24x 24x 5.1	324	89	0.24	0.26	0.28	0.34

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

PERFORMANCE DATA

Initial Resistance vs. Filter Face Velocity

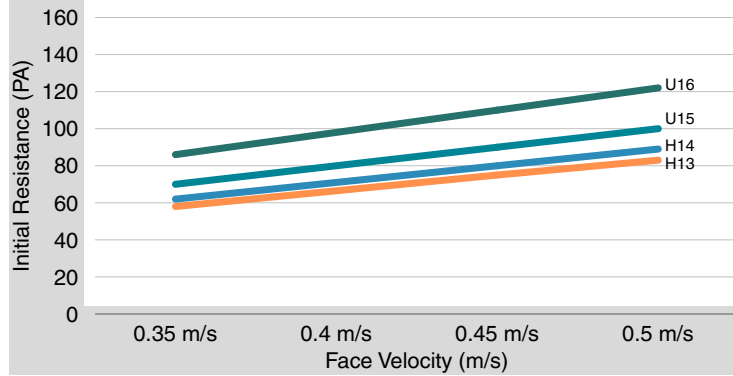
- H13(99.95% @MPPS)
 ● H14(99.995% @MPPS)
 ● U15(99.9995% @MPPS)
 ● U16(99.99995% @MPPS)



Product size: 1170x1170x88(mm) / 48x 48x 3.5(inch)

Initial Resistance vs. Filter Face Velocity

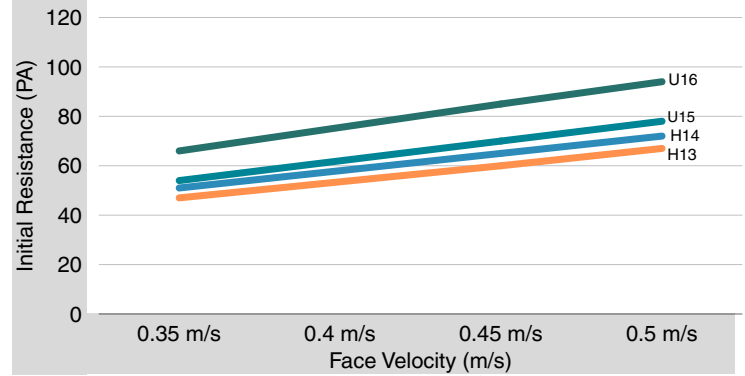
- H13(99.95% @MPPS)
 ● H14(99.995% @MPPS)
 ● U15(99.9995% @MPPS)
 ● U16(99.99995% @MPPS)



Product size: 1170x1170x110(mm) / 48x 48x 4.3(inch)

Initial Resistance vs. Filter Face Velocity

- H13(99.95% @MPPS)
 ● H14(99.995% @MPPS)
 ● U15(99.9995% @MPPS)
 ● U16(99.99995% @MPPS)



Product size: 1170x1170x 130(mm) / 48x 48x 5.1(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