

Mini-Pleated HEPA/ULPA Filter

(AG-HEPA/ULPA-MP)

Amorair mini-pleated HEPA/ULPA filters are designed for environments with strict air quality standards, like hospitals and laboratories. They capture at least 99.95% of particles down to 0.1 microns. The filter media, supported by hot melt adhesive, is folded into a wave shape to maximize filtration area within a compact volume. Without separators, these filters are lighter and ideal for limited spaces.



- Low Initial Resistance
- Compact Design
- Easy Installation
- Available for Customization
- 100% Scan Tested According To EN1822/ISO29463

Specifications

Frame Material	Galvanized Steel / 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)
Gasket	Optional
Sealant	Polyurethane
Protection	Front and Back Faceguard Recommended
Depth	50mm (2") / 70mm (2.75") / 90mm (3.5") / 110mm (4.33"), custom upon request

PRODUCT PARAMETERS

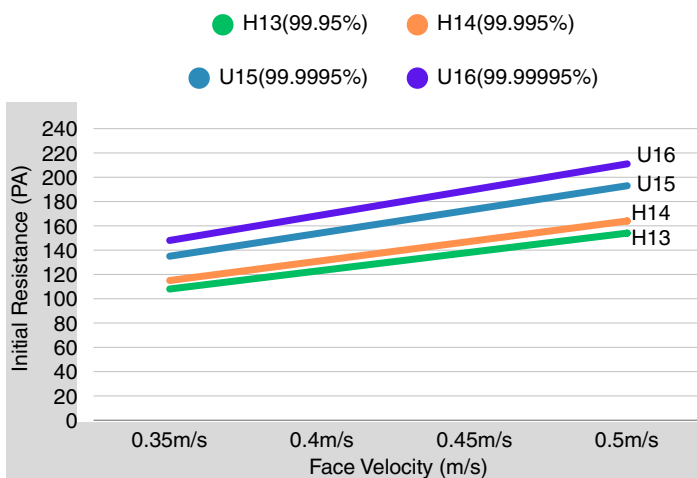
INTERNATIONAL STANDARD						
Actual Size (mm) W x H x D	Air Flow (m³/h)	Face Velocity (m/s)	Initial Resistance (Pa)			
			H13	H14	U15	U16
610x305x50	200	0.35	108	115	135	148
610x610x50	420	0.35	108	115	135	148
610x305x70	260	0.45	100	110	120	140
610x610x70	550	0.45	100	110	120	140
610x305x90	260	0.45	75	80	90	110
610x610x90	550	0.45	75	80	90	110
610x305x110	260	0.45	60	65	70	85
610x610x110	550	0.45	60	65	70	85

U.S STANDARD						
Nominal Size (in.) (W*H*D)	Air Flow (CFM)	Face Velocity (FPM)	Initial Resistance (in W.G)			
			99.95% @MPPS	99.995% @MPPS	99.9995% @MPPS	99.99995% @MPPS
24x 12x 2	118	69	0.43	0.46	0.54	0.59
24x 24x 2	247	69	0.43	0.46	0.54	0.59
24x 12x 2.75	153	89	0.40	0.44	0.48	0.56
24x 24x 2.75	324	89	0.40	0.44	0.48	0.56
24x 12x 3.5	153	89	0.3	0.32	0.36	0.44
24x 24x 3.5	324	89	0.3	0.32	0.36	0.44
24x 12x 4.33	153	89	0.24	0.26	0.28	0.34
24x 24x 4.33	324	89	0.24	0.26	0.28	0.34

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

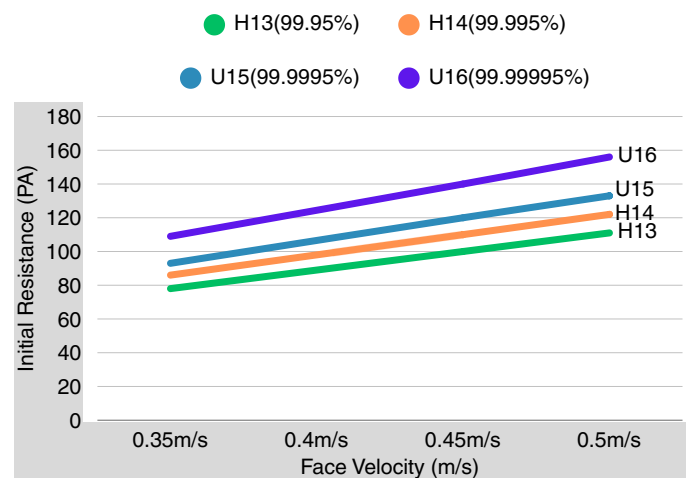
PERFORMANCE DATA

Initial Resistance vs. Filter Face Velocity



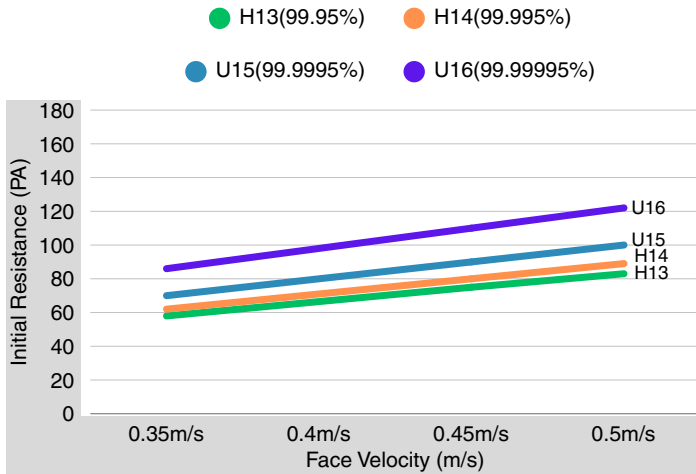
Product size: 1170x 570x 50(mm) / 48x 24x2(inch))

Initial Resistance vs. Filter Face Velocity

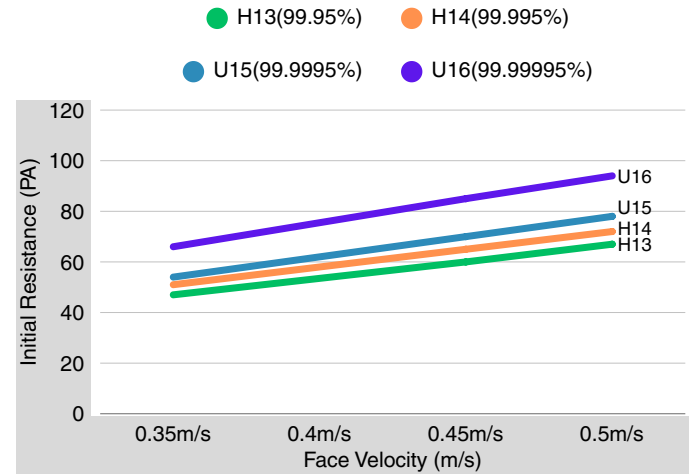


Product size: 1170x 570x 70(mm) / 48x 24x2.75 (inch))

Initial Resistance vs. Filter Face Velocity



Initial Resistance vs. Filter Face Velocity



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	