Mini-pleated HEPA / ULPA Filter

(AG-PTFE)

Amorair mini-pleated HEPA/ULPA filter utilizes special PTFE material, offering exceptional efficiency with ultra-low resistance, resulting in a 40% reduction in energy consumption. This filter exhibits strong resistance to environmental corrosion (acidic, alkaline, and organic substances) and possesses extremely low chemical gas emission characteristics(boron, sodium, potassium, silicon) , making it suitable for use in extreme environments. It is ideal for stringent settings such as semiconductor chip manufacturing facilities, LCD electronics factories, and modular cleanrooms.

- Ultra Low Resistance
- High Efficiency
- Energy Saving
- Stable Performance
- Available for Customization
- 100% Scan Tested According To EN1822/ISO29463

Specifications

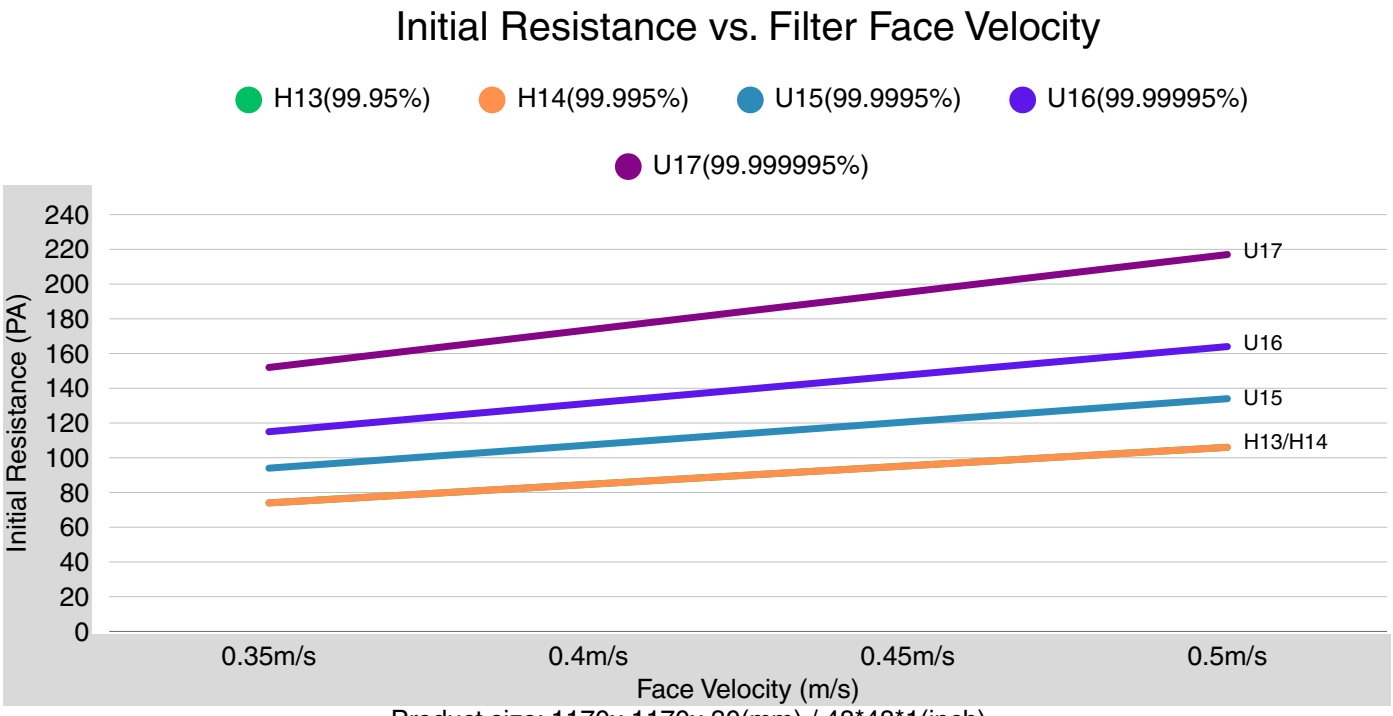
Frame Material	Galvanized Steel / Aluminum
Media	PTFE
U.S. Efficiency	99.95%, 99.995%, 99.9995%, 99.99995%, 99.999995% @ MPPS
Euro Efficiency	H13, H14, U15, U16，U17
Max Temperature	70 °C (158 °F)
Gasket	Optional
Sealant	Polyurethane
Depth	30mm (1.2″) / 50mm (2″) / 70mm (2.75″), custom upon request

PRODUCT PARAMETERS

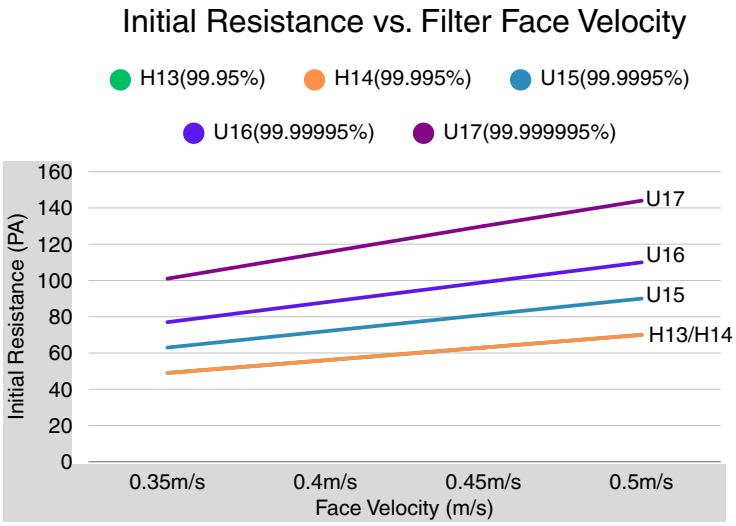
INTERNATIONAL STANDARD						
Actual Size (mm) W x H x D	Face Velocity (m/s)	Initial Resistance (Pa)				
		H13	H14	U15	U16	U17
570x570x30	0.35	74	74	94	115	152
570x1170x30	0.35	74	74	94	115	152
570x570x50	0.45	63	63	81	99	130
570x1170x50	0.45	63	63	81	99	130
570x570x70	0.45	38	38	49	59	78
570x1170x70	0.45	38	38	49	59	78
U.S STANDARD						
Nominal Size (in.) (W*H*D)	Face Velocity (FPM)	Initial Resistance (in W.G)				
		99.95% @MPPS	99.995% @MPPS	99.9995% @MPPS	99.99995% @MPPS	99.999995% @MPPS
24*24*1	69	0.30	0.30	0.38	0.46	0.61
24*48*1	69	0.30	0.30	0.38	0.46	0.61
24*24*2	89	0.25	0.25	0.32	0.40	0.52
24*48*2	89	0.25	0.25	0.32	0.40	0.52
24*24*3	89	0.15	0.15	0.20	0.24	0.31
24*48*3	89	0.15	0.15	0.20	0.24	0.31

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

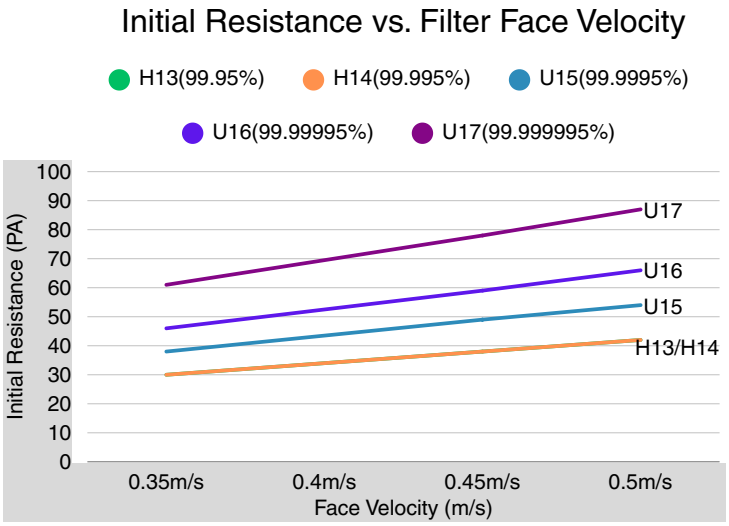
PERFORMANCE DATA



Product size: 1170x 1170x 30(mm) / 48*48*1(inch)



Product size: 1170x 1170x 50(mm) / 48*48*2(inch)



Product size: 1170x 1170x70(mm) / 48*48*3(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