

# AIREPLEAT

## High Capacity G4/F5/MERV9 Pleated Panel Filter

### General

Airepure has selected pleat filtration media made from Japanese UBE fibre. This media is designed to provide sustained efficiency with a low pressure drop, high dust holding capacity and high energy efficiency. The UBE Filtration Media is 100% synthetic, so it will not absorb moisture or support microbial growth.

The filter has been carefully designed with an optimal number of pleats to suit the thicker than normal UBE media. This allows the filter to have a low pressure drop and maximise dust holding capacity which leads to energy savings over the life of the filter.

AirePleat high capacity filters can easily upgrade existing flat panel or V-Form filters currently being used to reduce energy costs. AirePleat high capacity filters are available in 22mm, 44mm and 95mm depths.

All AirePleat high capacity filters are rated as G4 per EN779:2012, F5 per AS1324.1:2001 and MERV9 per ASHRAE52.2:2017. Per ISO16890:2016, AirePleat 22mm depth filters are rated ePM10 60%, AirePleat 44mm depth filters are rated ePM10 65% and Airepleat 95mm depth filters are rated ePM10 60%.

AirePleat high capacity filters are suitable for variable air volume systems. Operating face velocity ranges are from 0 to 2.54 m/sec face velocity and can be used in most heating, air conditioning, or ventilating systems.

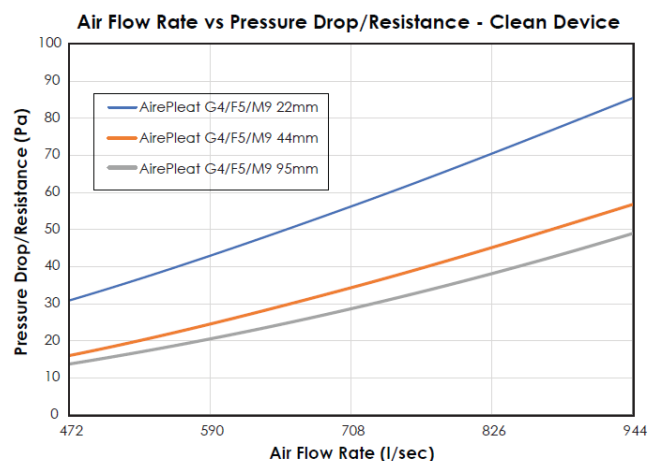
### Installation

AirePleat high capacity disposable pleated filters are suitable as a primary filter installed into universal holding frames, side access applications and similar existing hardware. They may be used as pre-filters to extend the life of AirePak, PurePak, PureCell, Aireflow-V, and AireCell filters in these framing systems.

AirePleat high capacity "elements" and "rolls" are also offered. These are pleated sections of AirePleat media in selected widths with the metal backing for use in a re-useable metal frame (service pleat).

### Important Features

- 100% Continuous hydrophobic polyolefin and alkene fibres coupled with proprietary additives
- Continuous fibres to prevent fibre shredding
- Media maximising V-Pleat design
- Expanded metal grid prevents media flutter while in operation
- Diagonal and horizontal support members provide frame strength
- Moisture resistant beverage board
- AirePleat is available in all the standard sizes and are available in non-standard cut-down versions



### Performance Ratings

- G4 efficiency rating to EN779:2012
- F5 efficiency rating to AS1324.1:2001
- MERV9 efficiency rating to ASHRAE52.2:2017
- AirePleat 22mm depth ePM10 60% efficiency rating to ISO16890:2016
- AirePleat 44mm depth ePM10 65% efficiency rating to ISO16890:2016
- AirePleat 95mm depth ePM10 60% efficiency rating to ISO16890:2016

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**AIREPLEAT HIGH CAPACITY G4/F5/MERV9 PLEATED PANEL FILTER PERFORMANCE DATA**

Product code	Actual Size H x W x D (mm)	Nominal Size H x W x D (mm)	Airflow Capacity @ 1.8 m/s (l/s)	Initial Resistance @ 1.8 m/s	Airflow Capacity @ 2.54 m/s (l/s)	Initial Resistance @ 2.54 m/s	Filter Classification				Media Area (m <sup>2</sup> )
							EN779 (2012)	AS1324.1 (2001)	ASHRAE52.2 (2017)	ISO16890 (2016)	
<b>22mm depth AIREPLEAT</b>											
80011010	241 x 241 x 22	254 x 254 x 25	120	52	165	84	G4	F5	MERV9	ePM10 60%	0.12
80011020	241 x 495 x 22	254 x 508 x 25	235	52	325	84	G4	F5	MERV9	ePM10 60%	0.25
80011220	292 x 495 x 22	305 x 508 x 25	280	52	390	84	G4	F5	MERV9	ePM10 60%	0.31
80011224	292 x 594 x 22	305 x 610 x 25	335	52	465	84	G4	F5	MERV9	ePM10 60%	0.37
80011420	343 x 495 x 22	356 x 508 x 25	325	52	455	84	G4	F5	MERV9	ePM10 60%	0.36
80011425	343 x 622 x 22	356 x 635 x 25	410	52	565	84	G4	F5	MERV9	ePM10 60%	0.45
80011520	368 x 495 x 22	381 x 508 x 25	350	52	485	84	G4	F5	MERV9	ePM10 60%	0.39
80011620	394 x 495 x 22	406 x 508 x 25	375	52	520	84	G4	F5	MERV9	ePM10 60%	0.41
80011624	394 x 594 x 22	406 x 610 x 25	450	52	620	84	G4	F5	MERV9	ePM10 60%	0.49
80011625	394 x 622 x 22	406 x 635 x 25	465	52	645	84	G4	F5	MERV9	ePM10 60%	0.51
80011824	445 x 594 x 22	457 x 610 x 25	505	52	700	84	G4	F5	MERV9	ePM10 60%	0.56
80011825	445 x 622 x 22	457 x 635 x 25	525	52	725	84	G4	F5	MERV9	ePM10 60%	0.58
80012020	495 x 495 x 22	508 x 508 x 25	465	52	645	84	G4	F5	MERV9	ePM10 60%	0.52
80012024	495 x 594 x 22	508 x 610 x 25	560	52	775	84	G4	F5	MERV9	ePM10 60%	0.62
80012025	495 x 622 x 22	508 x 635 x 25	585	52	810	84	G4	F5	MERV9	ePM10 60%	0.64
80012030	495 x 749 x 22	508 x 762 x 25	700	52	970	84	G4	F5	MERV9	ePM10 60%	0.79
80012424	594 x 594 x 22	610 x 610 x 25	670	52	930	84	G4	F5	MERV9	ePM10 60%	0.74
80012525	622 x 622 x 22	635 x 635 x 25	730	52	1010	84	G4	F5	MERV9	ePM10 60%	0.81
<b>44mm depth AIREPLEAT</b>											
80021010	241 x 241 x 44	254 x 254 x 50	120	34	165	54	G4	F5	MERV9	ePM10 65%	0.22
80021020	241 x 495 x 44	254 x 508 x 50	235	34	325	54	G4	F5	MERV9	ePM10 65%	0.46
80021212	292 x 292 x 44	305 x 305 x 50	170	34	235	54	G4	F5	MERV9	ePM10 65%	0.32
80021220	292 x 495 x 44	305 x 508 x 50	280	34	390	54	G4	F5	MERV9	ePM10 65%	0.56
80021224	292 x 594 x 44	305 x 610 x 50	335	34	465	54	G4	F5	MERV9	ePM10 65%	0.67
80021420	343 x 495 x 44	356 x 508 x 50	325	34	455	54	G4	F5	MERV9	ePM10 65%	0.66
80021424	343 x 594 x 44	356 x 610 x 50	390	34	545	54	G4	F5	MERV9	ePM10 65%	0.78
80021425	343 x 622 x 44	356 x 635 x 50	410	34	565	54	G4	F5	MERV9	ePM10 65%	0.81
80021520	368 x 495 x 44	381 x 508 x 50	350	34	485	54	G4	F5	MERV9	ePM10 65%	0.70
80021616	394 x 394 x 44	406 x 406 x 50	300	34	415	54	G4	F5	MERV9	ePM10 65%	0.61
80021620	394 x 495 x 44	406 x 508 x 50	375	34	520	54	G4	F5	MERV9	ePM10 65%	0.75
80021624	394 x 594 x 44	406 x 610 x 50	450	34	620	54	G4	F5	MERV9	ePM10 65%	0.90
80021625	394 x 622 x 44	406 x 635 x 50	465	34	645	54	G4	F5	MERV9	ePM10 65%	0.93
80021820	445 x 495 x 44	457 x 508 x 50	420	34	585	54	G4	F5	MERV9	ePM10 65%	0.85
80021824	445 x 594 x 44	457 x 610 x 50	505	34	700	54	G4	F5	MERV9	ePM10 65%	1.01
80021825	445 x 622 x 44	457 x 635 x 50	525	34	725	54	G4	F5	MERV9	ePM10 65%	1.06
80022020	495 x 495 x 44	508 x 508 x 50	465	34	645	54	G4	F5	MERV9	ePM10 65%	0.95
80022024	495 x 594 x 44	508 x 610 x 50	560	34	775	54	G4	F5	MERV9	ePM10 65%	1.13
80022025	495 x 622 x 44	508 x 635 x 50	585	34	810	54	G4	F5	MERV9	ePM10 65%	1.17
80022030	495 x 749 x 44	508 x 762 x 50	700	34	970	54	G4	F5	MERV9	ePM10 65%	1.44
80022424	594 x 594 x 44	610 x 610 x 50	670	34	930	54	G4	F5	MERV9	ePM10 65%	1.35
80022525	622 x 622 x 44	635 x 635 x 50	730	34	1010	54	G4	F5	MERV9	ePM10 65%	1.37
80022830	698 x 749 x 44	711 x 762 x 50	975	34	1355	54	G4	F5	MERV9	ePM10 65%	2.03
<b>95mm depth AIREPLEAT</b>											
80041021	241 x 515 x 95	254 x 530 x 100	245	26	340	48	G4	F5	MERV9	ePM10 60%	0.92
80041212	292 x 292 x 95	305 x 305 x 100	170	26	235	48	G4	F5	MERV9	ePM10 60%	0.62
80041224	292 x 594 x 95	305 x 610 x 100	335	26	465	48	G4	F5	MERV9	ePM10 60%	1.29
80041620	394 x 495 x 95	406 x 508 x 100	375	26	520	48	G4	F5	MERV9	ePM10 60%	1.44
80041624	394 x 594 x 95	406 x 610 x 100	450	26	620	48	G4	F5	MERV9	ePM10 60%	1.74
80041625	394 x 622 x 95	406 x 635 x 100	465	26	645	48	G4	F5	MERV9	ePM10 60%	1.81
80041820	445 x 495 x 95	457 x 508 x 100	420	26	580	48	G4	F5	MERV9	ePM10 60%	1.62
80041824	445 x 594 x 95	457 x 610 x 100	505	26	700	48	G4	F5	MERV9	ePM10 60%	1.96
80042020	495 x 495 x 95	508 x 508 x 100	465	26	645	48	G4	F5	MERV9	ePM10 60%	1.80
80042024	495 x 594 x 95	508 x 610 x 100	560	26	775	48	G4	F5	MERV9	ePM10 60%	2.18
80042025	495 x 622 x 95	508 x 635 x 100	585	26	810	48	G4	F5	MERV9	ePM10 60%	2.28
80042030	495 x 749 x 95	508 x 762 x 100	700	26	970	48	G4	F5	MERV9	ePM10 60%	2.75
80042424	594 x 594 x 95	610 x 610 x 100	670	26	930	48	G4	F5	MERV9	ePM10 60%	2.62
80042529	622 x 724 x 95	635 x 737 x 100	845	26	1170	48	G4	F5	MERV9	ePM10 60%	3.34
80042830	698 x 749 x 95	711 x 762 x 100	975	26	1355	48	G4	F5	MERV9	ePM10 60%	3.88

\*Nominal Size height & width refers to recommended mounting frame height & width. Nominal size depth refers to recommended filter depth allowance.

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