

HIGH FILTRATION



- ❖ 2" HIGH PERFORMANCE MINIPLEAT (Pages 2-3)
- ❖ ECONOMY PLEAT (Pages 4-5)
- ❖ FIBERGLASS POCKET (Pages 6-7)
- ❖ SYNTHETIC POCKET (Pages 8-9)
- ❖ FIBERGLASS RIGID CELL (Pages 10-11)
- ❖ SYNTHETIC RIGID CELL (Pages 12-13)
- ❖ ASHRAE CELL (Pages 14-15)
- ❖ TITAN FP (Pages 16-17)
- ❖ V-BANK MINIPLEAT (Pages 18-19)
- ❖ HEPA (Pages 20-21)

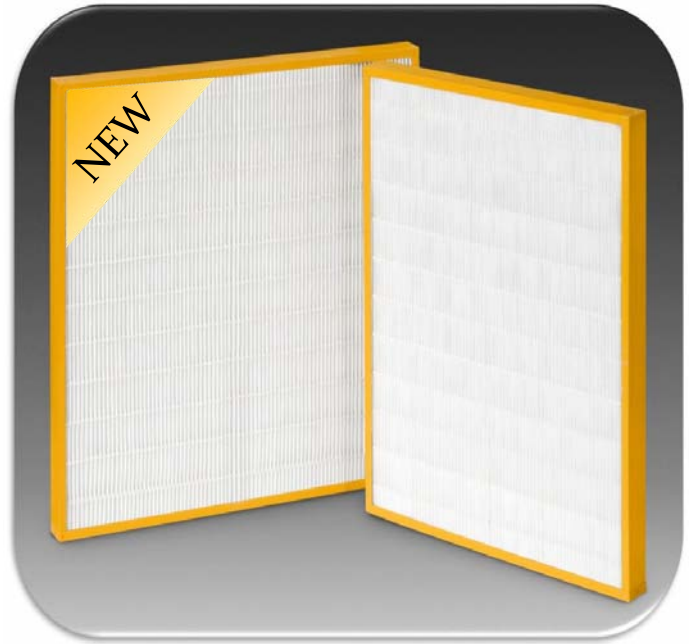


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2" HIGH-PERFORMANCE MINIPLEAT

- ❑ MERV 14 removes over 85% of particles 0.3-1.0 micron size from the airstream
- ❑ Initial pressure drop 0.36" w.g. @ 2000 cfm
- ❑ High-impact plastic frame for harsh environments
- ❑ Low resistance to air-flow results in energy savings



DESCRIPTION

The NEW High-Performance (HP) Minipleat air filter is specifically designed to provide high levels of air filtration efficiency to remove pollens, molds, dust and other airborne irritants. The HP filters can greatly reduce the fine particles from the air-stream. The high level of efficiency protects humans, ductwork, cooling coils, as well as any vulnerable items in the conditioned air space.

HP is constructed with a state-of-the-art synthetic media which is extremely durable. The media pack is adhered to a high impact plastic frame which is very resistant to moisture and high humidity

installations. The combination provides a tough filter that is nearly impervious to the damage often incurred during shipping, handling and installation. The filter is lightweight, easy to transport, install and can reduce disposal volume.

BENEFITS

The HP Minipleat filter has independent test lab data confirming exceptionally high levels of airborne particulate removal in a compact 2" depth design. The compact design allows facility engineers to improve air quality and increase IAQ levels without system modification.

- * 100% synthetic media provides

low resistance to air flow, lowering energy consumption

- * Robust materials and design create a very durable and damage resistant filter
- * Highly effective removing 0.3-1.0 micron particles from the air stream

APPLICATIONS

- * Commercial Buildings
- * Healthcare Facilities
- * Government Facilities
- * Schools & Universities
- * Hotel & Convention Centers

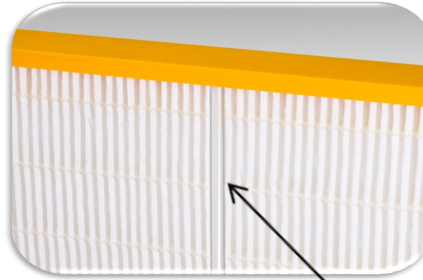


2" HIGH-PERFORMANCE MINIPLEAT

PLEAT ADVANCEMENTS



Durable media pack resists damage



Plastic stiffening bar for increased rigidity on larger sizes

APPLICATION PARAMETERS

- Recommended Temperature: 150 °F
- Flammability: UL Classified
- Relative Humidity: 100%
- Recommended Final Pressure Drop: 1.5" w.g.
- Filter Media: Gradient Dual Density Synthetic

PERFORMANCE RESULTS

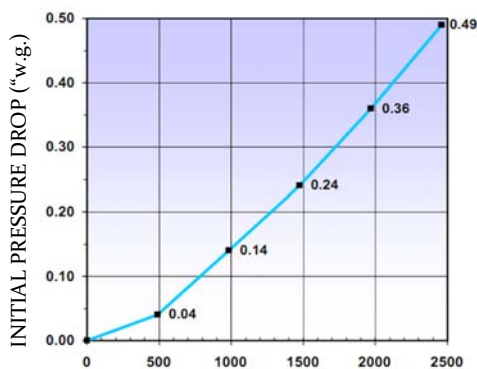
PRODUCT	INITIAL RESISTANCE @ 500 FPM
HP Minipleat	0.35

*Test data results are based on a 24 x 24 x 2 filter

DIMENSIONS & PART #S

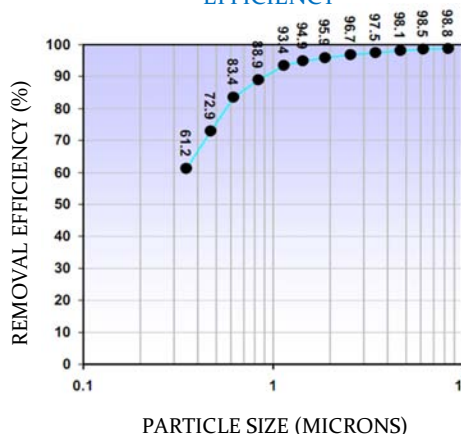
Nominal Size (In.)			Grainger #
H	W	D	
10	10	2	4YVC9
10	20	2	4YVD1
12	20	2	4YVD2
12	24	2	4YVD3
14	20	2	4YVD4
14	25	2	4YVD5
15	20	2	4YVD6
16	16	2	4YVD7
16	20	2	4YVD8
16	24	2	4YVD9
16	25	2	4YVE1
18	20	2	4YVE2
18	24	2	4YVE3
18	25	2	4YVE4
20	20	2	4YVE5
20	24	2	4YVE6
20	25	2	4YVE7
20	30	2	4YVE8
24	24	2	4YVE9
25	25	2	4YVF1

NOMINAL AIR FLOW



AIR FLOW RATE (CFM) FOR 24 X 24 X 12






INITIAL PARTICLE SIZE REMOVAL EFFICIENCY



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ECONOMY MINIPLEAT

-  Patented filter technology
-  Advanced pleat geometry for even dust loading and maximum service
-  Low resistance to air-flow results in lower energy costs
-  Completely incinerable
-  Compact design saves shipping and storage space



DESCRIPTION

The Economy Minipleat combines advanced pleating geometry with optimal performance in a high impact plastic frame. Plastic frames are often used in hostile environments or where high levels of moisture exists. The Economy Minipleat will stand up to nearly any HVAC installation and will not warp or collapse over time.

The Economy Minipleat utilizes a thermal embossing pleating and glue bead media separation technique, which creates a three-dimensional pleat in the media. This patented method of pleating and spacing allow the air stream to gently transition into the media, distributing the air evenly throughout the depth of the media.

The media pack of the Economy Minipleat is adhesively bonded on all four sides of the filter frame, eliminating the possibility of air bypass around the filter media.

BENEFITS

Low Air Flow Resistance - The Economy Minipleat's patented pleating design creates the lowest pressure drop, for a given efficiency, available in rigid box filters. The low pressure drop of this filter leads to considerable energy savings in most HVAC systems.

Longer Filter Life - The ideal V-shape of the Economy Minipleat's media enables complete media utilization. The media loads evenly throughout the

depths of the pleats, maximizing the life of the filter.

Rugged Construction - The Economy Minipleat filter utilizes high impact plastic, creating an extremely durable design for harsh HVAC environments.

Lightweight - Extremely light weight allowing for easy transport, installation and removal.

Robust Media - The filtration media is tremendously resilient to tears and punctures. The structure requires no upstream or downstream grids to protect it from damage. The media is also resistant to moisture and microbial growth.



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ECONOMY MINIPLEAT

PLEAT ADVANCEMENTS



Durable media pack resists damage due to shipping



Advanced pleating geometry minimizes resistance to air-flow

APPLICATION PARAMETERS

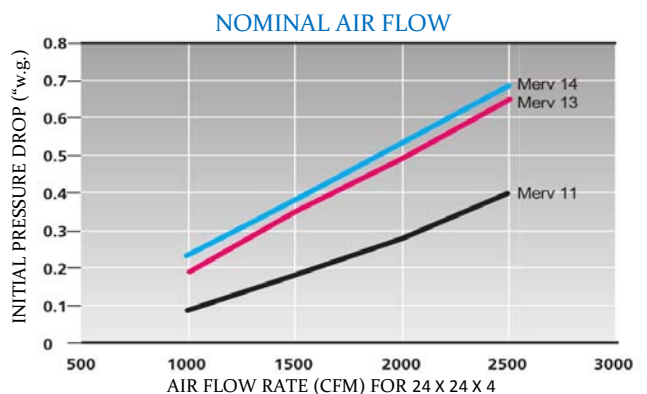
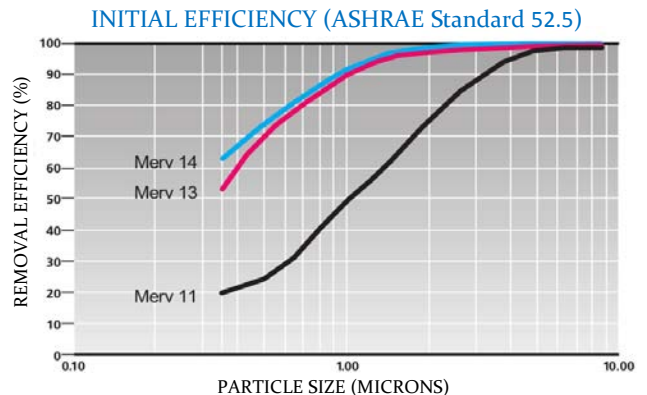
Maximum Constant Temperature:	150 °F Peaks @ 175°F
Flammability:	UL Classified
Media:	Synthetic
Relative Humidity:	100%
Recommended Final Pressure Drop:	1.5" w.g.

PERFORMANCE DATA

Filter Efficiency (%)	Nominal Size (In.)			Actual Size (In.)			Media Area (Sq.-Ft.)	Capacity (CFM)	Initial Resistance (In.)	Final Resistance	Approx. Weight (lbs.)	
	MERV	H	W	D	H	W						D
60-65	11	24	24	4	23 3/8	23 3/8	3 3/4	48	1500/2000/2500	0.17/0.27/0.39	1.5	6
80-85	13	24	24	4	23 3/8	23 3/8	3 3/4	48	1500/2000/2500	0.30/0.46/0.63	1.5	6
90-95	14	24	24	4	23 3/8	23 3/8	3 3/4	48	1500/2000/2500	0.32/0.48/0.65	1.5	7

DIMENSIONS & PART #S

MERV	Nominal Size (In.)			Single Header Grainger #	Box Style Grainger #
	H	W	D		
11	12	24	4	2GFA7	2GFW3
11	20	20	4	2GFC2	2GFW7
11	20	24	4	2GFC6	2GFX2
11	24	24	4	2GFD1	2GFX6
13	12	24	4	2GFD5	2GFY1
13	20	20	4	2GFD8	2GFY5
13	20	24	4	2GFE3	2GFY9
13	24	24	4	2GFE7	2GFZ4
14	12	24	4	2GFF2	2GFZ8
14	20	20	4	2GFF6	2GGA2
14	20	24	4	2GFG1	2GGA7
14	24	24	4	2GFG5	2GGC1



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FIBERGLASS POCKET

- ❖ Medium to High efficiency per ASHRAE Standard 52.2-2007
- ❖ Open throat design for optimum air flow
- ❖ Galvanized steel header and J-channels for filter strength
- ❖ Low initial pressure drop provides longer service life
- ❖ Pocket support loops are available



DESCRIPTION

The Fiberglass Pocket filters are constructed of an ultra fine glass fiber media. The media is bonded to thin multiple rows of expanded stitching. The stitch is flexible to help maintain pocket shape in changing conditions. All stitching is sealed with thermo-plastic resin to prevent any possible leakage.

The header is constructed of 26 gauge galvanized steel to prevent rusting and provide rigid support to the filter face.

BENEFITS

Fiberglass Pocket filters offer high efficiency filtration while maintaining low resistance to air flow. The open throat design and the precise pocket spacing produce a product which is aerodynamically balanced allowing even contaminant loading throughout the life of the filter.

APPLICATIONS

The Fiberglass Pocket filters are suitable in most medium to high efficiency applications.

The Fiberglass Pocket filters are used in a variety of commercial and industrial applications, such as hospitals, schools, automotive plants and a variety of special applications. Specialty application areas include: collection of oil mist, collection of fumes and collection of heavy concentrated fine airborne contaminants.

These filters fit most standard built-up filter banks or side access housing systems without any modification.



FIBERGLASS POCKET

APPLICATION PARAMETERS

Maximum Constant Temperature: 190°F

Flammability: UL Classified

Media: Lofted fiberglass

Header: 26 ga. Galvanized Steel; 13/16" Thickness

MEDIA IDENTIFICATION CHART

Media Color	Average Efficiency ASHRAE 52.1 - 1992
Yellow	90 - 95%
Pink	80 - 85%
Orange	60 - 65%
White	40 - 45%







DIMENSIONS & PART #S

MERV 14 (95%) Grainger #	MERV 13 (85%) Grainger #	MERV 11 (65%) Grainger #	MERV 9 (45%) Grainger #	H	W	D	# OF PKTS	MEDIA AREA
2JRX9	2JRX6	2JRX3	5E865	24	12	10	3	11
-	-	-	5W451	24	12	14	3	16
2GGX5	2GHC5	2GHG1	-	24	12	15	3	17
3DVP5	3DVN8	-	-	24	12	15	4	21
2GGX1	2GHC1	2GHF6	2GHP3	24	12	15	6	32
-	-	5E858	-	24	12	18	3	21
-	-	-	5W49	24	12	21	3	24
5E844	2GHA6	5W447	-	24	12	22	3	24
2GGW6	5W438	5W446	2GHN8	24	12	22	4	31
-	-	-	2GHN4	24	12	29	3	33
5W429	5W436	5W445	2GHL9	24	12	29	4	42
-	5W435	2JU05	2JRZ9	24	12	36	3	39
2JU03	2JUR7	2JTG7	2JTA3	24	12	36	4	45
3DVP4	3DVN7	-	-	20	20	15	6	30
-	-	-	5E861	20	20	21	5	34
2GHW9	2JRZ2	2GGU4	-	20	20	22	5	33
2GHP7	2GFF3	2JUT8	2JTA6	20	20	36	5	50
3DVP6	3DVN9	-	-	24	20	15	6	31
2GGV6	2GGZ7	2GHE7	2GHL5	24	20	22	5	40
2GGV2	2GGZ3	2GHE3	2GHL1	24	20	22	6	46
2GGU7	2GGY8	2GHD8	2GHK6	24	20	22	8	61
2JRZ3	2GGY4	2GHD4	2GHK2	24	20	29	6	61

MERV 14 (95%) Grainger #	MERV 13 (85%) Grainger #	MERV 11 (65%) Grainger #	MERV 9 (45%) Grainger #	H	W	D	# OF PKTS	MEDIA AREA
-	-	5E859	-	24	20	29	7	65
2JRZ6	2GGX9	2GHC9	2GHJ7	24	20	29	8	83
2JTC3	2JU09	2JU01	2JTA9	24	20	36	5	60
2JTC9	2JU01	2JU07	2JTC6	24	20	36	6	72
2JU09	2JRY2	2JU07	2JTD4	24	20	36	8	99
2JRY6	2JRY5	2JRY3	5E864	24	24	10	6	22
-	2ACC3	-	-	24	24	12	6	30
-	-	-	5W450	24	24	14	6	32
2JRT7	2GHR1	2JRY9	-	24	24	15	6	33
3DVP7	3DVP2	-	-	24	24	15	8	42
2DVU9	2DVU5	2DVT9	2JTH7	24	24	15	12	64
-	-	-	5W448	24	24	21	6	48
5E840	5W434	5W443	-	24	24	22	6	48
5E839	5W433	5W442	2GHJ3	24	24	22	8	62
2DVX1	2DVU6	2DVU1	2GHH8	24	24	22	10	76
5E838	5W432	5E854	2GHH4	24	24	29	6	65
5W427	5W431	5W441	2GHG9	24	24	29	8	84
-	2DVU7	2DVU2	2GHG5	24	24	29	10	103
2DVX2	-	-	-	24	24	30	10	101
5W426	5W430	2DVU4	2JUJ2	24	24	36	6	73
5E836	2DVU8	2DVU3	2JUJ4	24	24	36	8	96
2JRU2	2JTH4	2JTH1	2JUJ6	24	24	36	10	124



SYNTHETIC POCKET

-  Medium to High efficiency per ASHRAE Standard 52.2-2007
-  Ultrasonic welding technology
-  Open throat design for optimum air flow
-  Galvanized steel header and J-channels for filter strength
-  US Patents 6,159,316 and 6,258,142
-  Pocket support loops are available



DESCRIPTION

The Air Handler Synthetic Pocket filter is constructed with a moisture resistant, ultrasonically welded media. This synthetic media consists of strategically layered and blended melt-blown polypropylene fibers fastened to a non-shed, high density polypropylene backing. This design creates a dual-stage filtration effect with the final layer capturing the smaller particulate from the air stream. The patented ultrasonic welding process allows us to manufacture a product without creating stitch holes in the media and still be able to provide an increase in surface area.

Vertical separators are incorporated into each pocket to effectively

channel air throughout the media to prevent excessive turbulence and allow even contaminant loading throughout the life of the filter. The header is constructed of 26 gauge galvanized steel with rolled edges to provide rigid support to the filter face and allow for easier handling.

BENEFITS

The Synthetic Pocket filter offers high efficiency filtration while maintaining low resistance to air flow. The non-shed media eliminates fiber migration downstream and the ultrasonic welding provides lower resistance with no disruption to the integrity of the filter.

The open throat design and the precise pocket spacing produces a product that is aerodynamically balanced and provides excellent all-around performance.

APPLICATIONS

The Synthetic Pocket filters are designed as primary or secondary filters in heating, ventilating and air conditioning systems. Superior dust-holding capabilities allow these filters to be used in most commercial and industrial applications as well as hospitals, automotive plants and biotechnology facilities. These filters can be used in most standard built-up filter banks or side-access housing systems.



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SYNTHETIC POCKET

APPLICATION PARAMETERS

- Maximum Constant Temperature: 160°F
- Flammability: UL Classified
- Media: Synthetic Polypropylene;
45% Media—Stitched only
- Header: 26 ga. Galvanized Steel; 13/16" Thickness

DIMENSIONS & PART #S

MERV 14 (95%) Grainger #	MERV 13 (85%) Grainger #	MERV 11 (65%) Grainger #	MERV 9 (45%) Grainger #	H	W	D	# OF PKTS	MEDIA AREA
2GJD4	2GHZ1	2GJA4	6B680	24	12	10	3	11
2JUW4	2JVC9	2JV11	-	24	12	12	4	19
-	-	-	6B679	24	12	14	3	16
2JUX9	2JVE5	2JVK6	-	24	12	15	3	17
2JUX5	2JVE1	2JVK2	-	24	12	15	4	21
2JWA2	2JVZ7	2GHW4	2GJG7	24	12	15	6	32
-	-	6B677	-	24	12	18	3	21
6B668	6B672	6B676	-	24	12	22	3	24
2JUY6	6B662	6B665	2GGH3	24	12	22	4	31
-	6B671	-	2GGH7	24	12	29	3	33
6B659	2JVF8	6B664	2GGJ1	24	12	29	4	42
-	6B670	2JVP9	2GGJ5	24	12	36	3	39
2JVA6	2JVG7	2JVP1	2GGJ9	24	12	36	4	45
2JUW2	2JVC7	2JVH8	-	20	20	12	6	27
2JUX3	2JVD8	2JVJ9	-	20	20	15	6	30
3XJ91	-	-	-	20	20	16	8	34
-	-	-	6B656	20	20	21	5	34
2JUZ1	2JVF4	2JVL5	-	20	20	22	5	33
2JUY4	2JVE9	2JVL1	-	20	20	22	6	40
2JUZ7	2JVF6	2JVL9	-	20	20	29	6	54
2JVC1	2JVH2	2JVP7	2GGN6	20	20	36	5	50
2JVA4	2JVG5	2JVN8	-	20	20	36	6	60
2JUY9	2JVC5	2JVH6	-	24	20	12	6	28
2JUX1	2JVD6	2JVJ7	-	24	20	15	6	31
2JUY8	2JVF2	-	2GJF9	24	20	22	5	40
2JUY2	2JVE7	2JVK8	2GGP1	24	20	22	6	46

ENGINEERING SPECIFICATIONS

- Media shall be 100% synthetic that does not support microbial growth.
- The media shall be sonically bonded by a patented process to form pockets as to not allow by-pass.
- The pockets shall be attached internally by synthetic bands to reduce vibration and stabilize the filter during its life.






MERV 14 (95%) Grainger #	MERV 13 (85%) Grainger #	MERV 11 (65%) Grainger #	MERV 9 (45%) Grainger #	H	W	D	# OF PKTS	MEDIA AREA
2DYK3	2GHX3	2GGC5	2GHV2	24	20	22	8	61
2JUZ5	-	2JVL7	2GGP5	24	20	29	6	61
2GJD4	2GHZ1	2GJA4	6B680	24	12	10	3	11
2JVA8	2JVG9	2JVP5	2GGR3	24	20	36	5	60
2JVA2	2JVG3	2JVN6	2GGK4	24	20	36	6	72
2GGF9	2GGF1	2GGD4	2GGK8	24	20	36	8	99
2GGG4	2GHY6	2GHZ9	2GJG4	24	24	10	6	22
2JUW6	2JVD2	2JVJ3	-	24	24	12	6	30
2JUW7	2JVC3	2JVH4	-	24	24	12	8	38
-	-	-	6B652	24	24	14	6	32
2JUW7	2JVE3	2JVK4	-	24	24	15	6	33
2JUW8	2JVD4	2JVJ5	-	24	24	15	8	42
2JWA1	2JVZ8	2GHW6	2GJF1	24	24	15	12	64
3XJ80	-	-	-	24	24	20	10	56
-	-	-	6B651	24	24	21	6	48
6B641	6B645	6B649	-	24	24	22	6	48
6B628	6B631	6B634	2GJF5	24	24	22	8	62
2JWA3	3XJ75	2JVZ9	2GHT9	24	24	22	10	76
6B640	6B644	6B648	2GGG8	24	24	29	6	65
6B627	6B630	6B633	2GGL3	24	24	29	8	84
2GHY2	2JWA4	2GGD8	2GGL7	24	24	29	10	103
3XJ82	-	-	-	24	24	30	10	101
6B639	6B643	2JVP3	2GGN2	24	24	36	6	73
6B626	2JVG1	2JVN4	2GGR7	24	24	36	8	96
3XJ83	2GHW1	2GGE3	2GGT2	24	24	36	10	124

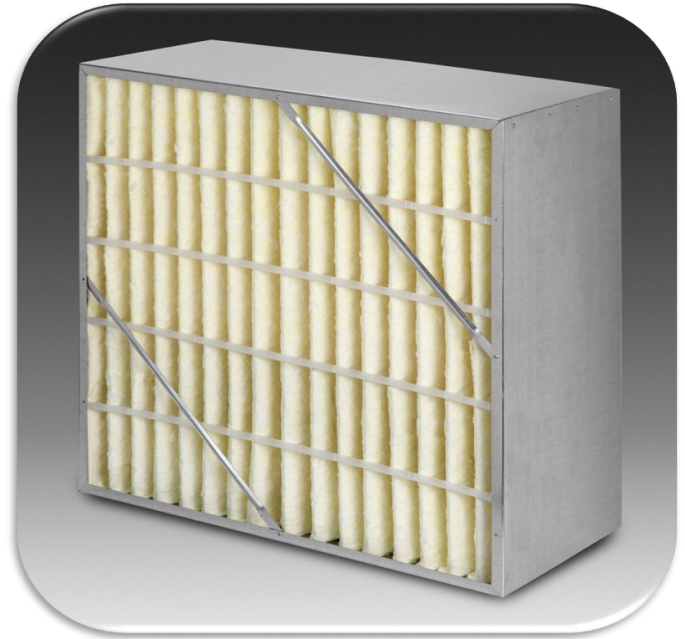


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FIBERGLASS RIGID CELL

-  High lofted ultra fine fiberglass media
-  Rigid format prevents unloading in variable air volume systems
-  Galvanized steel frame provides rigid construction
-  Replaces traditional pocket-style filters
-  Available in box-style or single header



DESCRIPTION

The Fiberglass Rigid Cell is an extended surface, medium to high efficiency filter. Its lofted ultra fine fiberglass media provides excellent dust holding capacity and coupled with its rigid construction virtually eliminates dust particles unloading downstream of the filter.

A galvanized steel frame, diagonal support bracing, moisture resistant media contour stabilizers and metal media support grid enhance the durability of this filter. This durability eliminates media oscillation and media pull-away. The media of this filter is adhesively bonded to all four sides of the frame to eliminate air by-pass.

BENEFITS

This filter is the ideal solution to IAQ problems that demand a high efficiency, long lasting rigid filter without costly modification to existing equipment. The secure, superior performance of this filter helps reduce costly maintenance.

The Rigid Cell can withstand many unfavorable conditions, especially variable air volume (VAV) without negatively effecting the performance of the filter.

APPLICATIONS

The Fiberglass Rigid Cell can be used in place of many high efficiency style filters. This filter may be used in spaces requiring 6" or 12" filters and is suitable for use in most commercial and industrial HVAC systems.

The Fiberglass Rigid Cell can be used as a prefilter for higher efficiency products or a final filter in HVAC systems that require a high level of efficiency and cleanliness. It is designed for ease of installation in either side access systems or built-up banks. It is available in traditional box style or single header versions.



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FIBERGLASS RIGID CELL PERFORMANCE DATA

BOX STYLE	SINGLE HEADER	Nominal Size (In.)			Actual Size (In.)			Media Area (Sq. Ft.)		Capacity (cfm) 250/375/500 fpm	Initial Resistance (w.g.) 250/375/500 fpm
		H	W	D	H	W	D	BOX	SINGLE HEADER		
40-45% EFFICIENCY (MERV 9*)											
2JUH2	2GHV1	24	12	12	23-3/8	11-3/8	11-1/2	28	N/A	500/750/1000	0.21/0.26/0.29
2JUH4	2GHV5	20	20	12	19-3/8	19-3/8	11-1/2	39	N/A	700/1050/1400	0.21/0.26/0.29
2JUH6	2GHV9	24	20	12	23-3/8	19-3/8	11-1/2	47	N/A	850/1250/1650	0.21/0.26/0.29
2JUH8	2GHW5	24	24	12	23-3/8	23-3/8	11-1/2	58	N/A	1000/1500/2000	0.21/0.26/0.29
2JUF3	2GHT3	24	12	6	23-3/8	11-3/8	5-1/2	14	N/A	500/750/1000	0.21/0.26/0.30
2JUF5	2GHT7	20	20	6	19-3/8	19-3/8	5-1/2	19	N/A	700/1050/1400	0.21/0.26/0.30
2JUF7	2GHU2	24	20	6	23-3/8	19-3/8	5-1/2	24	N/A	825/1200/1650	0.21/0.26/0.30
2JUF9	2GHU6	24	24	6	23-3/8	23-3/8	5-1/2	29	N/A	1000/1500/2000	0.21/0.26/0.30
60-65% EFFICIENCY (MERV 11*)											
5W920	2GHP5	24	12	12	23-3/8	11-3/8	11-1/2	28	N/A	500/750/1000	0.14/0.27/0.42
2JUD8	2GHP9	20	20	12	19-3/8	19-3/8	11-1/2	39	N/A	700/1050/1400	0.14/0.27/0.42
2JUF1	2GHR4	24	20	12	23-3/8	19-3/8	11-1/2	47	N/A	850/1250/1650	0.14/0.27/0.42
5W919	2GHR8	24	24	12	23-3/8	23-3/8	11-1/2	58	N/A	1000/1500/2000	0.14/0.27/0.42
2JUC9	2GHL7	24	12	6	23-3/8	11-3/8	5-1/2	14	N/A	400/600/750	0.13/0.26/0.41
2JUD2	2GHN2	20	20	6	19-3/8	19-3/8	5-1/2	19	N/A	550/800/1050	0.13/0.26/0.41
2JUD4	2GHN6	24	20	6	23-3/8	19-3/8	5-1/2	24	N/A	650/950/1250	0.13/0.26/0.41
2JUD6	2GHP1	24	24	6	23-3/8	23-3/8	5-1/2	29	N/A	750/1150/1500	0.13/0.26/0.41
80-85% EFFICIENCY (MERV 13*)											
5W918	2GHJ9	24	12	12	23-3/8	11-3/8	11-1/2	28	N/A	500/750/1000	0.19/0.28/0.50
2JUC5	2GHK4	20	20	12	19-3/8	19-3/8	11-1/2	39	N/A	700/1050/1400	0.19/0.28/0.50
2JUC7	2GHK8	24	20	12	23-3/8	19-3/8	11-1/2	47	N/A	850/1250/1650	0.19/0.28/0.50
5W917	2GHL3	24	24	12	23-3/8	23-3/8	11-1/2	58	N/A	1000/1500/2000	0.19/0.28/0.50
2JUA6	2GHH2	24	12	6	23-3/8	11-3/8	5-1/2	14	N/A	300/450/600	0.19/0.28/0.41
2JUA8	2GHH6	20	20	6	19-3/8	19-3/8	5-1/2	19	N/A	450/650/850	0.19/0.28/0.41
2JUC1	2GHJ1	24	20	6	23-3/8	19-3/8	5-1/2	24	N/A	500/750/1000	0.19/0.28/0.41
2JUC3	2GHJ5	24	24	6	23-3/8	23-3/8	5-1/2	29	N/A	600/900/1200	0.19/0.28/0.41
90-95% EFFICIENCY (MERV 14*)											
5W916	2GHF3	24	12	12	23-3/8	11-3/8	11-1/2	28	N/A	500/750/1000	0.26/0.40/0.68
2JUA2	2GHF7	20	20	12	19-3/8	19-3/8	11-1/2	39	N/A	700/1050/1400	0.26/0.40/0.68
2JUA4	2GHG2	24	20	12	23-3/8	19-3/8	11-1/2	47	N/A	850/1250/1650	0.26/0.40/0.68
5W915	2GHG6	24	24	12	23-3/8	23-3/8	11-1/2	58	N/A	1000/1500/2000	0.26/0.40/0.68
2JT3	2GHD5	24	12	6	23-3/8	11-3/8	5-1/2	14	N/A	300/450/600	0.26/0.40/0.56
2JT5	2GHD9	20	20	6	19-3/8	19-3/8	5-1/2	19	N/A	450/650/850	0.26/0.40/0.56
2JT7	2GHE4	24	20	6	23-3/8	19-3/8	5-1/2	24	N/A	500/750/1000	0.26/0.40/0.56
2JT9	2GHE8	24	24	6	23-3/8	23-3/8	5-1/2	29	N/A	600/900/1200	0.26/0.40/0.56

* Reference ASHRAE 52.2-2007



SYNTHETIC RIGID CELL

-  Lofted ultra fine synthetic media eliminates fiber shedding
-  Superior media integrity in high humidity applications
-  Rigid format prevents unloading in variable air volume systems
-  Replaces traditional pocket-style filters
-  Available in box-style or single header



DESCRIPTION

The Synthetic Rigid Cell is an extended surface, medium to high efficiency filter. Air Handler is taking advantage of recent technology improvements in synthetic media to offer a synthetic version of our rigid cell filter. Superior performance in high humidity applications combined with the elimination of media fiber shedding make this filter a smart choice over traditional fiberglass high efficiency products. The lofted ultra fine synthetic media provides excellent dust holding capacity and coupled with its rigid construction virtually eliminates dust particle unloading downstream of the filter.

A galvanized steel frame, diagonal support bracing, moisture proof

media, contour stabilizers and metal media support grid enhance the durability of this filter. This durability eliminates media oscillation and media pull-away. The media of this filter is adhesively bonded to all four sides of this frame to eliminate air by-pass. The Synthetic Rigid Cell is available in a MERV 11, 13 and 14 per ASHRAE Standard 52.2-2007.

BENEFITS

This filter is the ideal solution to IAQ problems that demand a high efficiency, long lasting rigid filter without costly modification to existing equipment. The secure, superior performance of this filter helps reduce costly maintenance.

The Rigid Cell can withstand many unfavorable conditions, especially variable air volume (VAV) without negatively effecting the performance of the filter.

APPLICATIONS

The Synthetic Rigid Cell can be used in place of many high efficiency style filters. This filter may be used in spaces requiring 6" or 12" filters and is suitable for use in most commercial and industrial HVAC systems.

The Synthetic Rigid Cell can be used as a prefilter for higher efficiency products or a final filter in HVAC systems that require a high level of efficiency and cleanliness.



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SYNTHETIC RIGID CELL PERFORMANCE DATA

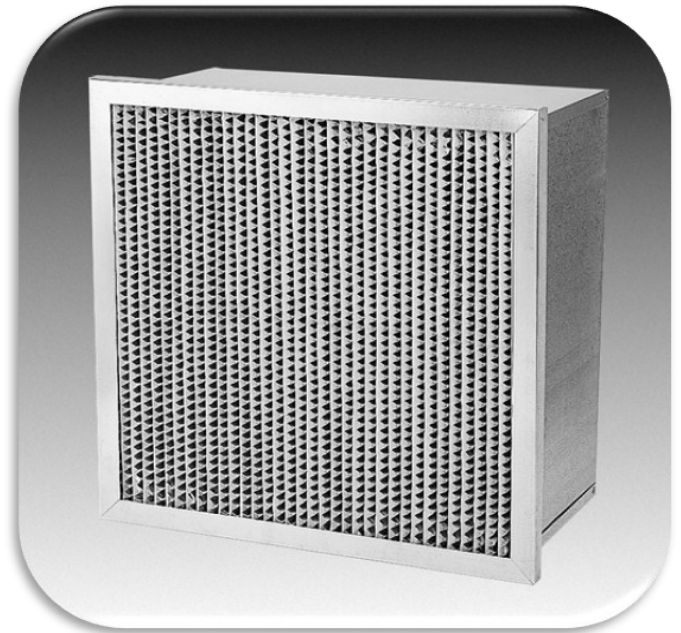
BOX STYLE	SINGLE HEADER	Nominal Size (In.)			Actual Size (In.)			Media Area (Sq. Ft.)		Capacity (cfm) 250/375/500 fpm	Initial Resistance (w.g.) 250/375/500 fpm
		H	W	D	H	W	D	BOX	SINGLE HEADER		
40-45% EFFICIENCY (MERV 9*)											
2JTY4	4YVA2	24	12	12	23-3/8	11-3/8	11-1/2	30	25	500/750/1000	N/A
2JTY6	4YVA3	20	20	12	19-3/8	19-3/8	11-1/2	41	35	700/1050/1400	N/A
2JTY8	4YVA4	24	20	12	23-3/8	19-3/8	11-1/2	49	42	850/1275/1700	N/A
2JTZ1	4YVA5	24	24	12	23-3/8	23-3/8	11-1/2	60	53	1000/1500/2000	N/A
2JTX5	-	24	12	6	23-3/8	11-3/8	5-1/2	21	17	500/750/N/A	N/A
2JTX7	-	20	20	6	19-3/8	19-3/8	5-1/2	28	24	700/1050/N/A	N/A
2JTX9	-	24	20	6	23-3/8	19-3/8	5-1/2	33	29	850/1275/N/A	N/A
2JTY2	-	24	24	6	23-3/8	23-3/8	5-1/2	41	36	1000/1500/N/A	N/A
60-65% EFFICIENCY (MERV 11*)											
2HYX1	4YVA6	24	12	12	23-3/8	11-3/8	11-1/2	30	25	500/750/1000	0.07/0.12/0.20
2JTX1	4YVA7	20	20	12	19-3/8	19-3/8	11-1/2	41	35	700/1050/1400	0.07/0.12/0.20
2JTX3	4YVA8	24	20	12	23-3/8	19-3/8	11-1/2	49	42	850/1275/1700	0.07/0.12/0.20
2HYW9	4YVA9	24	24	12	23-3/8	23-3/8	11-1/2	60	53	1000/1500/2000	0.07/0.12/0.20
2JTW2	-	24	12	6	23-3/8	11-3/8	5-1/2	21	17	500/750/N/A	0.12/0.21/0.32
2JTW4	-	20	20	6	19-3/8	19-3/8	5-1/2	28	24	700/1050/N/A	0.12/0.21/0.32
2JTW6	-	24	20	6	23-3/8	19-3/8	5-1/2	33	29	850/1275/N/A	0.12/0.21/0.32
2JTW8	-	24	24	6	23-3/8	23-3/8	5-1/2	41	36	1000/1500/N/A	0.12/0.21/0.32
80-85% EFFICIENCY (MERV 13*)											
2HYW8	4YVC1	24	12	12	23-3/8	11-3/8	11-1/2	30	25	500/750/1000	0.16/0.23/0.31
2JTV7	4YVC2	20	20	12	19-3/8	19-3/8	11-1/2	41	35	700/1050/1400	0.16/0.23/0.31
2JTV9	4YVC3	24	20	12	23-3/8	19-3/8	11-1/2	49	42	850/1275/1700	0.16/0.23/0.31
2HYW6	4YVC4	24	24	12	23-3/8	23-3/8	11-1/2	60	53	1000/1500/2000	0.16/0.23/0.31
2JTU8	-	24	12	6	23-3/8	11-3/8	5-1/2	21	17	500/750/N/A	0.46/0.73/1.04
2JTV1	-	20	20	6	19-3/8	19-3/8	5-1/2	28	24	700/1050/N/A	0.46/0.73/1.04
2JTV3	-	24	20	6	23-3/8	19-3/8	5-1/2	33	29	850/1275/N/A	0.46/0.73/1.04
2JTV5	-	24	24	6	23-3/8	23-3/8	5-1/2	41	36	1000/1500/N/A	0.46/0.73/1.04
90-95% EFFICIENCY (MERV 14*)											
2HYW5	4YVC5	24	12	12	23-3/8	11-3/8	11-1/2	30	25	500/750/1000	0.23/0.35/0.47
2JTU4	4YVC6	20	20	12	19-3/8	19-3/8	11-1/2	41	35	700/1050/1400	0.23/0.35/0.47
2JTU6	4YVC7	24	20	12	23-3/8	19-3/8	11-1/2	49	42	850/1275/1700	0.23/0.35/0.47
2HYW7	4YVC8	24	24	12	23-3/8	23-3/8	11-1/2	60	53	1000/1500/2000	0.23/0.35/0.47
2JTT5	-	24	12	6	23-3/8	11-3/8	5-1/2	21	17	500/750/N/A	0.49//0.78/1.10
2JTT7	-	20	20	6	19-3/8	19-3/8	5-1/2	28	24	700/1050/N/A	0.49//0.78/1.10
2JTT9	-	24	20	6	23-3/8	19-3/8	5-1/2	33	29	850/1275/N/A	0.49//0.78/1.10
2JTU2	-	24	24	6	23-3/8	23-3/8	5-1/2	41	36	1000/1500/N/A	0.49//0.78/1.10

* Reference ASHRAE 52.2-2007



ASHRAE CELL

-  Moisture resistant media for high humidity applications
-  Designed for use in Variable Air Volume systems
-  Replaces traditional pocket-style filters
-  Rigid format prevents unloading of dust due to media oscillation
-  Galvanized steel frame provides exceptional strength



DESCRIPTION

The ASHRAE Cell is an extended surface, high efficiency filter constructed in a rigid frame. The filter utilizes a continuous sheet of wet-laid microfiber media that is deep pleated and can operate in applications that have 100% humidity.

Hemmed edge aluminum corrugated separators are placed between each pleat to stabilize the pack and ensure proper air flow through the filter. The media pack is sealed to all four sides of the frame. The result is a high integrity filter that delivers high efficiency and consistent performance. The ASHRAE Cell is available in both 6" and 12" depths and with a single or double header .

BENEFITS

The ASHRAE Cell can be used in diverse conditions including 100% humidity and turbulent or variable air volume (VAV) systems. With such durability, this filter usually requires fewer change-outs than pocket or rigid cell filters.

The ASHRAE Cell is an upgrade from lofted high efficiency fiberglass media filters and provides more media per filter than the traditional pocket style or rigid cell filter. The construction and media of this filter eliminates fiber shedding and dust particle unloading.

APPLICATIONS

The ASHRAE Cell can be used in place of pocket filter when conditions call for a rigid filter or where high humidity warrants its use.

These filters can be used in a variety of commercial and industrial applications including hospitals, high-tech manufacturing and food processing. This filter can also be used in place of other rigid cell filters when high dust holding capacity is desired.



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ASHRAE CELL PERFORMANCE DATA

SINGLE HEADER	DOUBLE HEADER	Nominal Size (In.)			Actual Size (In.)			MEDIA (Sq. Ft.)	Capacity (cfm) 250/375/500/625 fpm	Initial Resistance (w.g.) 250/375/500/625 fpm
		H	W	D	H	W	D			
60-65% EFFICIENCY (MERV 11*)										
5W926	2GGJ3	24	12	12	23-3/8	11-3/8	11-1/2	47	500/750/1000/1250	0.15/0.25/0.45/0.60
2GGF2	2GGJ7	20	20	12	19-3/8	19-3/8	11-1/2	72	700/1050/1400/1750	0.15/0.25/0.45/0.60
2GGE6	2GGH8	24	20	12	23-3/8	19-3/8	11-1/2	88	850/1275/1700/2125	0.15/0.25/0.45/0.60
5W925	2GGH4	24	24	12	23-3/8	23-3/8	11-1/2	106	1000/1500/2000/2500	0.15/0.25/0.45/0.60
2GGG5	2GGL1	24	12	6	23-3/8	11-3/8	5-7/8	23	500/750	0.25/0.45
2GGG9	2GGL5	20	20	6	19-3/8	19-3/8	5-7/8	35	700/1050	0.25/0.45
2GGG1	2GKG6	24	20	6	23-3/8	19-3/8	5-7/8	43	850/1275	0.25/0.45
2GGF6	2GGK2	24	24	6	23-3/8	23-3/8	5-7/8	52	1000/1500	0.25/0.45
80-85% EFFICIENCY (MERV 13*)										
5W924	2GGT5	24	12	12	23-3/8	11-3/8	11-1/2	47	500/750/1000/1250	0.20/0.35/0.50/0.60
2GGN4	2GGU1	20	20	12	19-3/8	19-3/8	11-1/2	72	700/1050/1400/1750	0.20/0.35/0.50/0.60
2GGL9	2GGT1	24	20	12	23-3/8	19-3/8	11-1/2	88	850/1275/1700/2125	0.20/0.35/0.50/0.60
5W923	2GGR6	24	24	12	23-3/8	23-3/8	11-1/2	106	1000/1500/2000/2500	0.20/0.35/0.50/0.60
2GGP7	2GGV4	24	12	6	23-3/8	11-3/8	5-7/8	23	500/750	0.35/0.55
2GGR2	2GGV8	20	20	6	19-3/8	19-3/8	5-7/8	35	700/1050	0.35/0.55
2GGP3	2GGU9	24	20	6	23-3/8	19-3/8	5-7/8	43	850/1275	0.35/0.55
2GGN8	2GGU5	24	24	6	23-3/8	23-3/8	5-7/8	52	1000/1500	0.35/0.55
90-95% EFFICIENCY (MERV 14*)										
5W922	2GGZ8	24	12	12	23-3/8	11-3/8	11-1/2	56	500/750/1000/1250	0.25/0.40/0.65/0.78
2GGW7	2GHA3	20	20	12	19-3/8	19-3/8	11-1/2	84	700/1050/1400/1750	0.25/0.40/0.65/0.78
2GGW3	2GGZ4	24	20	12	23-3/8	19-3/8	11-1/2	102	850/1275/1700/2125	0.25/0.40/0.65/0.78
5W921	2GGY9	24	24	12	23-3/8	23-3/8	11-1/2	125	1000/1500/2000/2500	0.25/0.40/0.65/0.78
2GGY1	2GHC6	24	12	6	23-3/8	11-3/8	5-7/8	27	500/750	0.45/0.65
2GGY5	2GHD1	20	20	6	19-3/8	19-3/8	5-7/8	41	700/1050	0.45/0.65
2GGX6	2GHC2	24	20	6	23-3/8	19-3/8	5-7/8	50	850/1275	0.45/0.65
2GGX2	2GHA7	24	24	6	23-3/8	23-3/8	5-7/8	60	1000/1500	0.45/0.65

* Reference ASHRAE 52.2-2007

APPLICATION PARAMETERS

Maximum Constant
Temperature:

200 °F

Flammability:

UL Classified

Media:

Wet-laid microfiber paper

Frame:

24-26 gauge galvanized steel

Recommended Final
Resistance:






1.5"



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TITAN FP

-  Lightweight Design
-  State-of-the-art mini-pleat construction
-  Integral handle for ease of transportation
-  Suitable for high humidity
-  High efficiency per ASHRAE 52.2



DESCRIPTION

The Titan FP is constructed with the highest quality components available. The high impact plastic frame, steel struts and microglass media work together to form an extremely rigid filter suitable for normal to hostile environments. The built-in handle eases the load when transporting to installation sites. The Titan FP is designed to be used in variable air volume (VAV) systems and recommended for use in constant velocity systems.

BENEFITS

The Titan FP's proven V-Bank design provides maximum air flow conditions, while providing nearly complete media utilization. Dead spots due to aluminum separators and other restrictions are virtually eliminated. The aerodynamic construction minimizes and in some cases eliminates the need for prefiltration.

The Titan FP is extremely light weight, reducing stress on the installer and promoting a safer work environment.

APPLICATIONS

The Titan FP is designed to handle nearly all types of conditions: 100% relative humidity, turbulent air flow, intermittent exposure to water, repeated fan shutdowns, desert and marine installations.

The Titan FP is engineered for hospitals, turbine, industrial, commercial and original equipment applications.



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TITAN FP

DIMENSIONS AND PERFORMANCE DATA

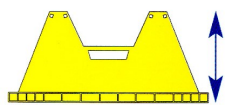
Filter Efficiency (%)	Nominal Size (In.)			Actual Size (In.)			Media Area (Sq.-Ft.)	Capacity (CFM)	Initial Resistance (In.)	Final Resistance	Approx. Weight (lbs.)	Grainger #	
	MERV	H	W	D	H	W							D
60-65	11	12	24	12	11 3/8	23 3/8	10 3/4	45	750/1000/1250	0.17/0.27/0.40	1.5	5.5	4PY75
60-65	11	24	24	12	23 3/8	23 3/8	10 3/4	96	1500/2000/2500	0.17/0.27/0.40	1.5	9	4PY76
80-85	13	12	24	12	11 3/8	23 3/8	10 3/4	45	750/1000/1250	0.35/0.49/0.64	1.5	5.5	4PY73
80-85	13	24	24	12	23 3/8	23 3/8	10 3/4	96	1500/2000/2500	0.35/0.49/0.64	1.5	9	4PY74
90-95	14	12	24	12	11 3/8	23 3/8	10 3/4	45	750/1000/1250	0.44/0.59/0.75	1.5	5.5	4PY71
90-95	14	24	24	12	23 3/8	23 3/8	10 3/4	96	1500/2000/2500	0.44/0.59/0.75	1.5	9	4PY72

APPLICATION PARAMETERS

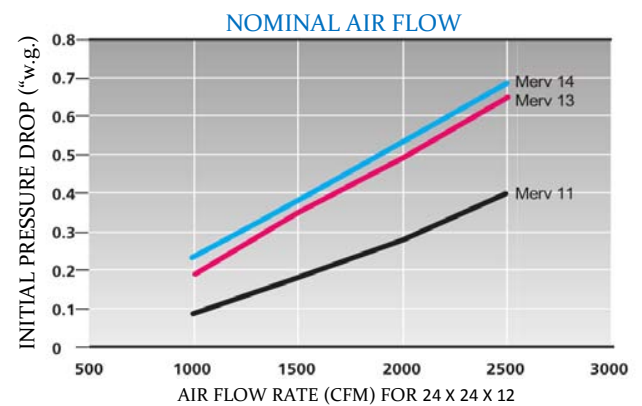
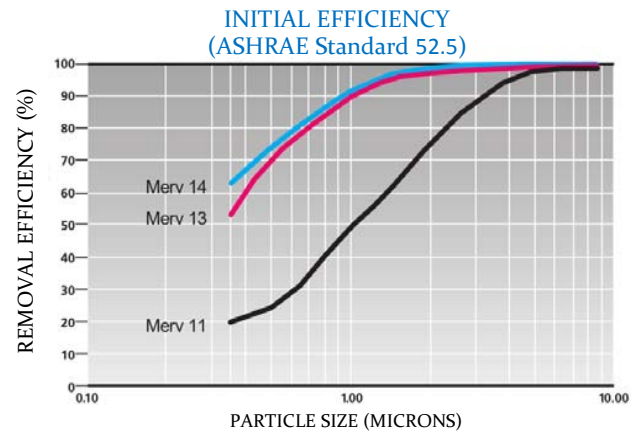
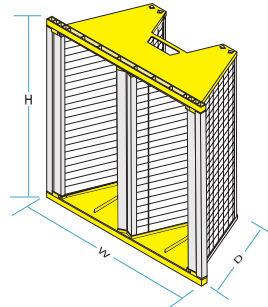
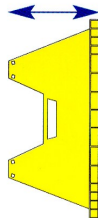
Maximum Constant Temperature: 150 °F
 Flammability: UL Classified
 Media: Wet Laid Microglass
 Relative Humidity: 100%
 Recommended Final Pressure Drop: 1.5" w.g.

AIR FLOW VERSATILITY

HORIZONTAL AIR FLOW DIRECTION








VERTICAL AIR FLOW DIRECTION

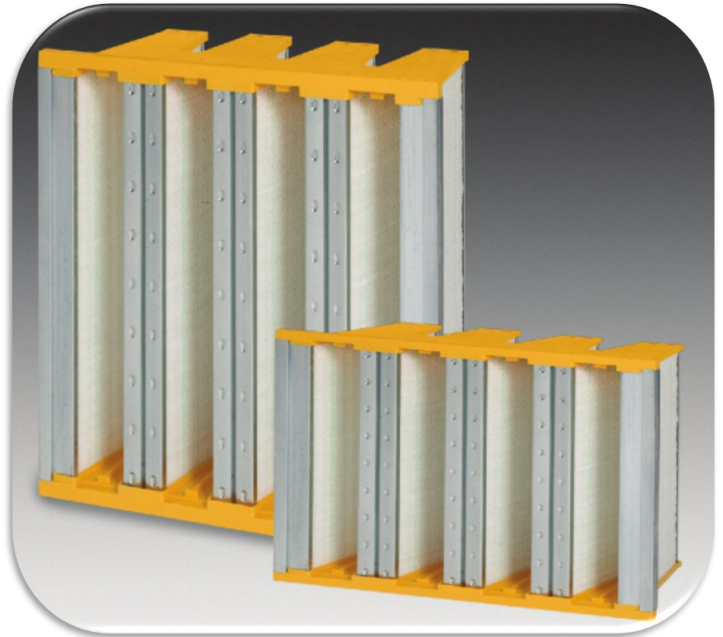


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V-BANK MINIPLEAT

-  Reduced resistance to air flow promotes significant energy savings
-  Longer filter life with lower replacement and maintenance costs
-  Eliminates downstream dust and fiber shedding
-  Dual direction media for front or reverse mount installations
-  No aluminum spacers to damage the filter media



DESCRIPTION

The Air Handler V-Bank Minipleat was developed in Europe for demanding fine dust applications in high energy cost environments.

Today, the Air Handler V-Bank Minipleat is recognized worldwide as the most proven and reliable high technology air filter on the market. The technology has proven to be extremely cost effective and highly efficient in removing a wide variety of contaminants from the air stream in industrial, medical, office and equipment applications.

BENEFITS

The Air Handler V-Bank's unique minipleat design incorporates 193 square feet of high efficiency media within a 24"x24"x12" (nominal) rigid format, significantly more than most other efficiency filters out on the market.

The extended media surface creates a very low resistance to air flow. The low pressure drop results in lower energy costs and a longer filter life. The Air Handler V-Bank's rigid design allows it to withstand many unfavorable conditions especially variable air volume (VAV) systems.

APPLICATIONS

The Air Handler V-Bank's inherently stable filter design distributes air evenly across the filter. Its performance is not affected by repeated fan shutdowns, changes in air flow velocities or pressure drop. The Air Handler V-Bank is rated at continuous air flow of 3000 cfm.

The Air Handler V-Bank is designed to handle nearly all types of environments: 100% relative humidity, turbulent air flow, intermittent exposure to water, repeated fan shutdowns, desert and marine installations.



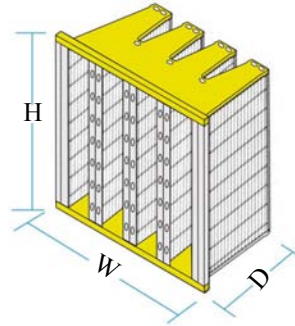
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V-BANK MINIPLEAT

APPLICATION PARAMETERS

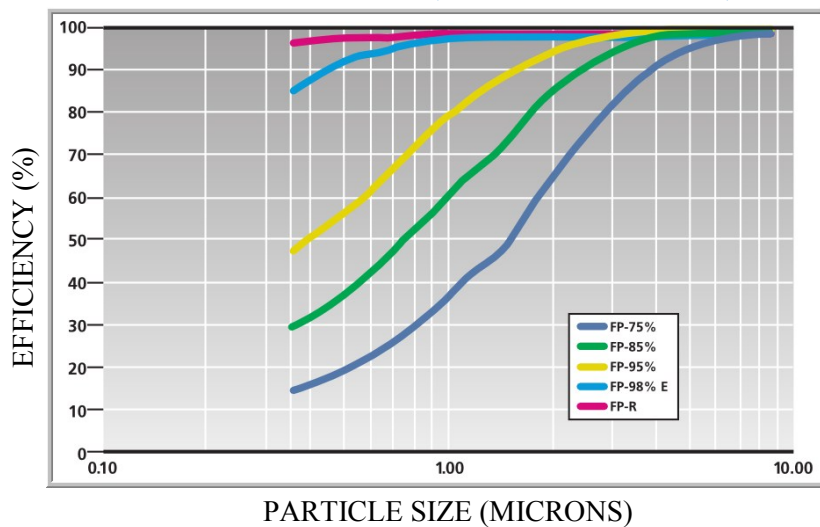
Maximum Constant Temperature: 150 Degrees F
 Flammability: UL Classified
 Media: Wet Laid Microglass
 Relative Humidity: 100%
 Recommended Final Pressure Drop: 2.0" w.g.



DIMENSIONS & PART #S

MERV	H	W	D	Grainger #
11	12	24	12	4E409
11	18	24	12	2GHF4
11	20	20	12	3XJ96
11	20	24	12	5W990
11	24	24	12	4E408
13	12	24	12	4E411
13	18	24	12	2GHF8
13	20	20	12	3XJ97
13	20	24	12	5W991
13	24	24	12	4E410
14	12	24	12	4E413
14	18	24	12	2GHG3
14	20	20	12	3XJ98
14	20	24	12	5W992
14	24	24	12	4E412
16	12	24	12	4E415
16	18	24	12	2GHC4
16	20	20	12	3XJ99
16	20	24	12	5W993
16	24	24	12	4E414
16	12	24	12	5W995
16	18	24	12	2GHC8
16	20	20	12	2GHD6
16	20	24	12	5W994
16	24	24	12	5W996

INITIAL EFFICIENCY (ASHRAE Standard 52.5)



PERFORMANCE DATA






Filter Efficiency (%)	Nominal Size (In.)			Actual Size (In.)			Media Area (Sq.-Ft.)	Capacity (CFM)	Initial Resistance (In.)	Final Resistance	Approx. Weight (lbs.)	
	MERV	H	W	D	H	W						D
70-75	11	24	24	12	23 3/8	23 3/8	11 3/4	193	2000/2500/3000	0.28/0.43/0.58	2.0	16.3
80-85	13	24	24	12	23 3/8	23 3/8	11 3/4	193	2000/2500/3000	0.30/0.45/0.60	2.0	16.3
90-95	14	24	24	12	23 3/8	23 3/8	11 3/4	193	2000/2500/3000	0.38/0.55/0.72	2.0	16.3
98%	16	24	24	12	23 3/8	23 3/8	11 3/4	193	2000/2500/3000	0.61/0.81/NA	2.0	16.3
95% DOP	16	24	24	12	23 3/8	23 3/8	11 3/4	193	2000/2500/3000	0.90/NA/NA	2.0	16.3



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HEPA FILTER

-  Standard and High Capacity
-  Proprietary automated computer test CIPAT (Computer Integrated Particulate Air Test)
-  Controlled laminar flow
-  Rugged Construction
-  Available in galvanized or stainless steel frame



DESCRIPTION

The Air Handler HEPA (High Efficiency Particulate Air) filter is constructed with a 16 gauge galvanized or stainless steel frame with a continuous band of media pleated back and forth over corrugated aluminum separators.

These filters contain a two-part polyurethane, which assures a positive seal of the media pack and frame. The interlocking frame design with sealant placed behind the top and bottom flange allows unobstructed airflow and ease of filter handling. Available for high temperature applications by using a different frame configuration with high temperature sealant gasketing.

BENEFITS

The Air Handler HEPA filter's corrugated aluminum separators have proven to have 3 to 4 times more support to the media than other types of construction, thereby allowing use in higher humidity environments. These separators assure even pleat spacing for controlled laminar airflow. The hemmed edges on the aluminum separators and square pleat design reduce possible pleat damage.

Each filter 99.97% DOP or higher is tested on our CIPAT (Computer Integrated Particulate Air Test Duct) to assure compliance with overall efficiency specifications. The filters are tested with PAO (poly-alpha-olefin), approved by the US Army

and Surgeon General as suitable replacement for DOP.

APPLICATIONS

The Air Handler HEPA filter removes a broad range of airborne contaminants, including fine dust, smoke, soot, pollen and radioactive particles. HEPA filters are used in final filter applications including hospitals, electronics, nuclear, pharmaceuticals, laboratories, aerospace, food processing and optics. They can also be used as prefilters in cleanroom environments and other critical applications for final HEPA/ULPA/SULPA filters.



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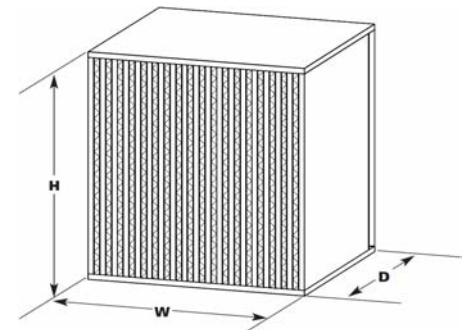
HEPA FILTER

PERFORMANCE DATA

Grainger #	Actual Size (In.)			Capacity (cfm)	Initial Resistance (w.g.)
	H	W	D		
95% DOP (MPPS 0.2–0.3 MICRONS)					
6B923	23-3/8	11-3/8	11-1/2	930	1.0
6B622	12	12	11-1/2	435	1.0
6B621	24	12	11-1/2	930	1.0
6B620	23-3/8	23-3/8	11-1/2	2000	1.0
6B619	24	24	11-1/2	2000	1.0
99.97% DOP (MPPS 0.2–0.3 MICRONS)					
6B618	23-3/8	11-3/8	11-1/2	535	1.0
6B617	12	12	11-1/2	250	1.0
6B615	23-3/8	23-3/8	11-1/2	1150	1.0
6B616	24	12	11-1/2	535	1.0
6B614	24	24	11-1/2	1150	1.0
2GJC6	12	12	11-1/2	435	1.45
2GHT1	24	12	11-1/2	930	1.45
2GHR3	24	24	11-1/2	2000	1.45
99.99% DOP-SCANNED (MPPS 0.2–0.3 MICRONS SCANNED)					
2DXN6	12	12	11-1/2	250	1.0
2DXP1	24	12	11-1/2	535	1.0
2DXN8	24	24	11-1/2	1150	1.0
2GHU3	12	12	11-1/2	435	1.45
2GHU7	24	12	11-1/2	930	1.45
2GHR6	24	24	11-1/2	2000	1.45

APPLICATION PARAMETERS

Maximum Constant Temperature:	212° F (100° C)
Flammability:	UL Classified
Recommended Final Pressure Drop:	2.0" w.g.
Relative Humidity:	100%
Frame:	16 ga Galvanized Steel
Media:	Wet laid microglass paper
Separators:	Corrugated aluminum with hemmed edges on both sides
Sealant:	Polyurethane
Gasketing:	HD-urethane 1/4" x 5/8" wide, dove-tailed corner joints, downstream



CIPAT Tests performed on 99.97% and higher efficiencies.

*Contact your local Air Handler Representative for additional sizes and information

**Airflow for high temperature filters at high capacity is reduced to 325, 700 and 1500 cfm at 1"



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