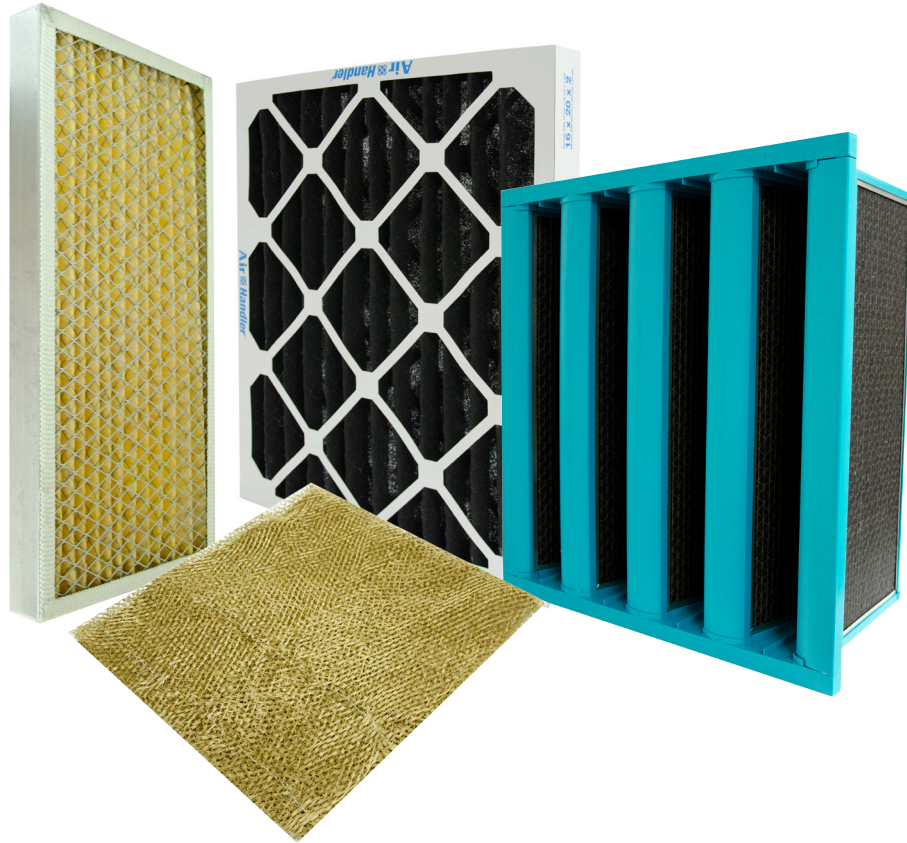


SPECIALTY FILTRATION



 Carbon Pleat (p. 2-3)

 Carbon Honeycomb (p. 4-5)

 FP Gas Phase (p. 6-7)

 Paint Collection (p. 8-10)

 NESHAP / EPA Method (p. 11-12)







 Filter Accessories (p. 13-14)

For our complete line of filters, visit grainger.com/airhandler

Find it at Grainger.

© 2013 W.W. Grainger, Inc. 8S

CARBON PLEAT

-  Dual purpose: Filters particulate and absorbs odor
-  Effective gas phase filter for intermittent gas applications
-  Excellent filter to determine if carbon filters will help remove the odor
-  Low pressure drop
-  Disposable, easy installation, low service cost
-  All filters wrapped and sealed in protective plastic bags to maintain filter viability



DESCRIPTION

The Air Handler Carbon Pleat filters are designed for the control of intermittent odor problems. Carbon pleated filters remove a wide range of odors and common indoor air pollutants. The advanced media has improved capability to absorb nuisance odors.

The filter's construction consists of pleated, non-woven/polyester media, impregnated with an activated carbon. The pleated filter pack is enclosed in a heavy duty, moisture resistant (beverage board) die-cut frame that will not crack, warp or distort under normal operating conditions.

BENEFITS

In some light duty applications, the effectiveness of carbon pleated filters can equal many long-term solutions used for controlling odor problems. Carbon pleated filters can be used as a low cost method to verify the potential effectiveness of carbon for controlling odors. The carbon pleat receives an efficient removal of particulate MERV 6 per ASHRAE Standard 52.2-2007.

APPLICATIONS

The Air Handler Carbon Pleat is well suited for use where gas contaminants are low and/or intermittent. Provides relief of odors created by cigarette smoke, industrial process, copier, pets and musty areas.

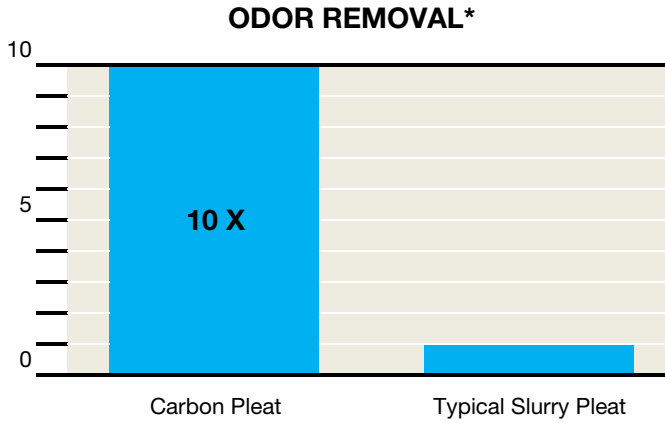
These filters are well suited for use in air make-up systems and re-circulation applications in office buildings, hospitals, airports, food courts and manufacturing facilities.

For our complete line of filters, visit grainger.com/airhandler

Find it at Grainger.

CARBON PLEAT

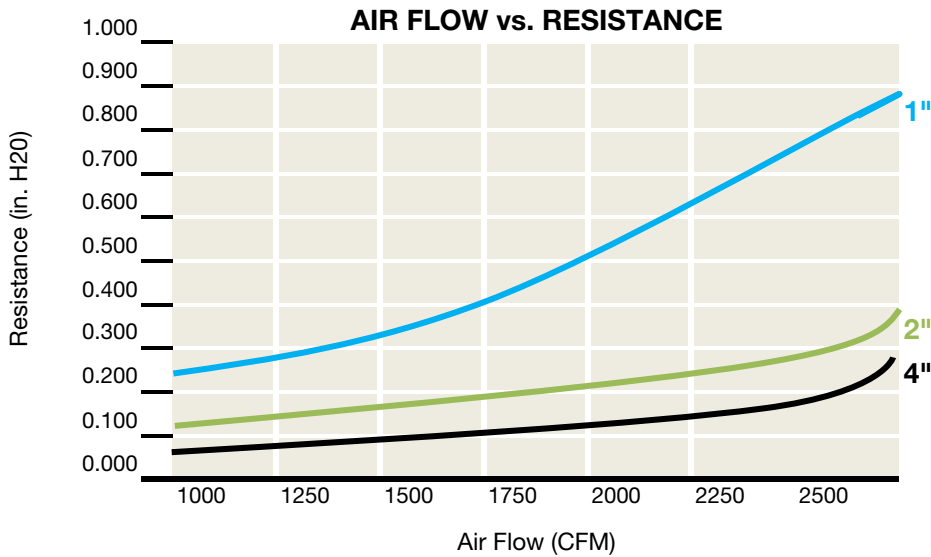
ODOR REMOVAL



*Amount of gas or odor removed at 50% break through given 880 PPM of Toluene @ 40 (media velocity)

DIMENSIONS & PART #S

Nominal Size (in.)			Initial Resistance @ 250 FPM ("w.g.)	Initial Resistance @ 500 FPM ("w.g.)	Grainger #
H	W	D			
10	10	1	0.23	0.63	6B915
10	20	1	0.23	0.63	6B914
12	12	1	0.23	0.63	6B912
12	20	1	0.23	0.63	6B911
12	24	1	0.23	0.63	6B910
14	20	1	0.23	0.63	6B907
14	24	1	0.23	0.63	6B905
14	25	1	0.23	0.63	6B904
15	20	1	0.23	0.63	6B902
16	16	1	0.23	0.63	6B900
16	20	1	0.23	0.63	6B899
16	24	1	0.23	0.63	6B896
16	25	1	0.23	0.63	6B894
18	20	1	0.23	0.63	6B891
18	24	1	0.23	0.63	6B890
18	25	1	0.23	0.63	6B887
20	20	1	0.23	0.63	6B886
20	24	1	0.23	0.63	6B883
20	25	1	0.23	0.63	6B880
22	22	1	0.23	0.63	6B877
24	24	1	0.23	0.63	6B876
25	25	1	0.23	0.63	6B873
10	20	2	0.13	0.34	6B913
12	24	2	0.13	0.34	6B909
14	20	2	0.13	0.34	6B906
14	25	2	0.13	0.34	6B903
15	20	2	0.13	0.34	6B901
16	20	2	0.13	0.34	6B898
16	24	2	0.13	0.34	6B895
16	25	2	0.13	0.34	6B893
18	24	2	0.13	0.34	6B889
20	20	2	0.13	0.34	6B885
20	24	2	0.13	0.34	6B882
20	25	2	0.13	0.34	6B879
24	25	2	0.13	0.34	6B875
25	25	2	0.13	0.34	6B872
12	24	4	0.07	0.23	6B908
16	25	4	0.07	0.23	6B892
20	20	4	0.07	0.23	6B884
20	24	4	0.07	0.23	6B881
20	25	4	0.07	0.23	6B878
24	24	4	0.07	0.23	6B874



*Results based on 24x24 filter

For our complete line of filters, visit grainger.com/airhandler

Find it at Grainger.

CARBON HONEYCOMB



Dual function: Odor absorption and particulate filtration



Granular activated carbon to remove odorous and irritating gaseous contaminants



Honeycomb construction ensures low air flow resistance



Effective gas phase filtration in a compact design



Individually wrapped in plastic

DESCRIPTION

These combination particulate and carbon filters are designed for the control of intermittent odor problems in re-circulated air applications.

Honeycomb style filters are designed to remove a wide range of pollutants.

The 1" honeycomb filters are constructed using 0.5" honeycomb with a 0.5" pre-filter pad. The 2" honeycomb filters are constructed using 0.75" of honeycomb with a 1" pre-filter pleat offering medium efficiency.

BENEFITS

The activated carbon presented in the honeycomb filter acts like a porous sponge, collecting and retaining certain chemical compounds on its surface. The ability of activated carbon to absorb a gas or vapor is called its activity.

Carbon used in these filters has a minimum carbon tetrachloride (CCL4) activity of 60% which means it will absorb 60% of its own weight of CCL4 vapor under a standard set of conditions.

Max. Temp. - 150°F

APPLICATIONS

Dual purpose activated Carbon Honeycomb filters are designed to eliminate general odor problems where concentration levels are not extremely heavy. These combination filters offer medium particulate filtration along with an absorbent carbon for fume and odor removal.

The honeycomb style filters are used extensively in office buildings, hospitals, airports, food courts and manufacturing facilities.






For our complete line of filters, visit grainger.com/airhandler

Find it at Grainger.

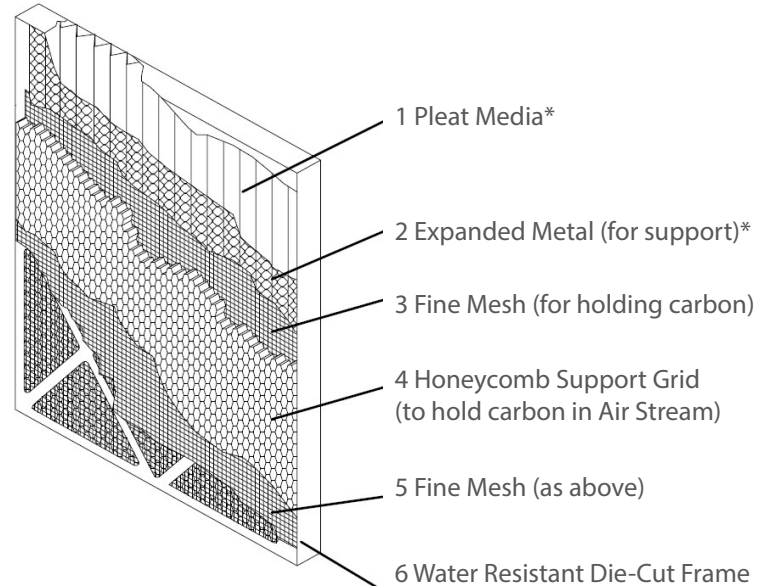
© 2013 W.W. Grainger, Inc. 8S

CARBON HONEYCOMB

ODORS REMOVED

-  Cooking Odors
-  Sewer Odors
-  Gasoline Fumes
-  Environmental Tobacco Smoke
-  Most Volatile Organic Compound (VOC) Odors

FILTER ADVANCEMENTS



*NOTE: for 1" version a poly pad and no expanded metal replace the pleat media

DIMENSIONS & PART #S

50% Carbon Fill (with Pre-Filter)				50% Carbon Fill (with Pre-Filter)				50% Carbon Fill (No Pre-Filter)			100% Carbon Fill (No Pre-Filter)	100% Carbon Fill (with Pre-Filter)	
H	W	D	Grainger #	H	W	D	Grainger #	H	W	D	Grainger #	Grainger #	Grainger #
10	10	1	6B869	10	20	2	6B867	10	20	1	2JTW5	2JUA5	2JTR1
10	20	1	6B868	12	24	2	6W741	12	24	1	2JTW7	2JTR3	2JUT6
12	12	1	6B866	14	20	2	6B863	14	20	1	2JTW9	2JUA7	2JTR5
12	20	1	6B865	14	25	2	6B860	14	25	1	2JTX2	2JUA9	2JTR7
12	24	1	6W735	15	20	2	6B858	15	20	1	2JTX4	2JUC2	2JTR9
14	20	1	6B864	16	20	2	6W742	16	20	1	2JTX6	2JUC4	2JTT2
14	24	1	6B862	16	24	2	6B855	16	25	1	2JTX8	2JUC6	2JTT4
14	25	1	6B861	16	25	2	6W743	20	20	1	2JTY7	2JUC8	2JTT6
15	20	1	6B859	18	24	2	6B852	20	25	1	2JTY1	2JUD1	2JTT8
16	16	1	6B857	20	20	2	6W744	24	24	1	2JTY3	2GJD5	2JTU1
16	20	1	6W736	20	24	2	6B849	25	25	1	2JTY5	2JUD3	2JTU3
16	24	1	6B856	20	25	2	6W754	12	24	2	2GJD9	2JUD5	2JTU5
16	25	1	6W737	24	24	2	6W746	16	20	2	2JTY9	2JUD7	2JTU7
18	20	1	6B854	25	25	2	6B846	16	25	2	2JTZ2	2JUD9	2JTU9
18	24	1	6B853					18	24	2	2JTZ4	2JUF2	2JTV2
18	25	1	6B851					20	20	2	2JTZ6	2JUF4	2JTV4
20	20	1	6W738					20	24	2	2JTZ8	2JUF6	2JTV6
20	24	1	6B850					20	25	2	2JUA1	2JUF8	2JTV8
20	25	1	6W739					20	25	2	2GJE4	2JTD2	2JTW1
22	22	1	6B848					24	24	2	2JUA3	2JUH1	2JTW3
24	24	1	6W740					25	25	2			
25	25	1	6B847										

For our complete line of filters, visit grainger.com/airhandler
Find it at Grainger.

FP GAS PHASE



Improve indoor air quality through effective removal of contaminants, odors and gases



Available with activated carbon for adsorption, potassium permanganate for chemisorption, or a 50/50 blend of both



100% fill for maximum single pass efficiency and longer service life



DESCRIPTION

The Air Handler FP Gas Phase filter is designed to remove a wide range of odors and common indoor air pollutants at high air flows. Constructed of heavy-duty galvanized steel and plastic, with 3/4" honeycomb media packs, the FP Gas Phase filter can be filled with one of two media or a blend of the two to fit any application.

BENEFITS

The FP Gas Phase filter provides effective odor removal with just a moderate increase in pressure drop.

Using 60% CTC activated carbon, potassium permanganate on zeolite, or a blend of the two, the FP Gas Phase filter removes a broad spectrum of compounds including Volatile Organic Compounds (VOC's), vehicle exhaust, sulfur compounds, ammonia and formaldehyde.

APPLICATIONS

These filters are used in commercial and industrial applications when odors and gases need to be removed to protect people, processes, equipment or artifacts.

With a standard header, it can be used in existing HVAC systems, easily retrofitted or specified for new construction. The dual direction design allows for a front or reverse mount installation, without a reduction in filter performance.

For our complete line of filters, visit grainger.com/airhandler

Find it at Grainger.

© 2013 W.W. Grainger, Inc. 8S

FP GAS PHASE

DIMENSIONS & PERFORMANCE DATA

ACTIVATED CARBON (100%)

Contaminants Removed by Activated Carbon

Acetone	Gasoline	Naphtha	Perchloroethylene
Nitrobenzene	Pyridine	Chlorobenzene	Methyl Chloroform
Chloroform	Paint Fumes	Toluene	Methyl Ethyl Ketone
Benzene	Ozone	Styrene	Methylene Chloride

H	W	D	Initial Resistance @ 500 FPM ("w.g.)	Media Weight	Shipping Weight	Grainger #
12	24	12	0.51	11	16	2GGY7
20	24	12	0.51	20	27	2GGZ2
24	24	12	0.51	32	32	2GGV7

POTASSIUM PERMANGANATE (100%)

Contaminants Removed by Potassium Permanganate Impregnated Media

Acetylene	Amines	Mercaptans	Nitrogen Oxides
Alcohols	Ammonia	Sulfur Oxides	

H	W	D	Initial Resistance @ 500 FPM ("w.g.)	Media Weight	Shipping Weight	Grainger #
12	24	12	0.36	14	19	2GHA1
20	24	12	0.36	26	33	2GHA5
24	24	12	0.36	32	40	2GHA9

ACTIVATED CARBON / POTASSIUM PERMANGANATE BLEND (100%)

Contaminants Removed by Activated Carbon / Potassium Permanganate Blend

Acetic Acid	Cooking Odors	Butyric Acid	Chlorine Dioxide
Urea	Chlorine	Isopropanol	Sodium Thiosulfate
Trichloroethylene	Auto Exhaust	Tobacco Smoke	Cleaning Compounds
Animal Odors	Diesel Fumes		

H	W	D	Initial Resistance @ 500 FPM ("w.g.)	Media Weight	Shipping Weight	Grainger #
12	24	12	0.36	13	18	2GGY3
20	24	12	0.36	23	30	2GGZ6
24	24	12	0.36	28	37	2GGX8

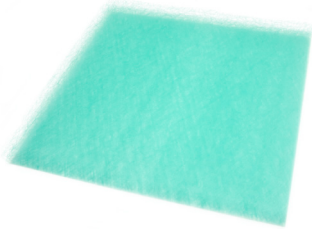
For our complete line of filters, visit grainger.com/airhandler

Find it at Grainger.

© 2013 W.W. Grainger, Inc. 8S

PAINT COLLECTION

FIBERGLASS OVERSPRAY MEDIA



The Air Handler Fiberglass Overspray Media is 2-1/4" thick and is progressively layered (air-entering to air-leaving) to enhance filter efficiency and service life. Loosely woven construction allows paint to load evenly without face loading.

All Sizes Are UL Classified

SPRAY BOOTH PANELS

The Air Handler M3 Panel Filter is constructed with a premium grade, 100% polyester fiber, 3 stage media.

The M3 features a dry open web on the air entering side serving as a first stage pre-filter. Smaller particles are caught by the second ply of finer denier fibers.

The final layer is a tightly needled matrix treated with a non-migrating tackifier to catch and hold the smallest particles. The M3 Panel Filter is self-sealing and contains a 9-gauge internal wire frame.



DIMENSIONS & PART #S

	H	W	Grainger #
14 Grams	18	400'	2DXU6
	20.25	400'	2DXU9
	21	400'	2DXV3
	24	400'	2DXV6
	30	400'	2DXV9
	36	400'	2DXW3
	45	400'	2DXW6
	48	400'	2DXW9

	H	W	Grainger #
22 Grams	18	400'	2DXP9
	20.25	400'	2DXR3
	21	400'	2DXR6
	24	300'	2DXR9
	30	300'	2DXT3
	36	300'	2DXT6
	45	300'	2DXT9
	48	300'	2DXU3

DIMENSIONS & PART #S

H	W	Grainger #
10	20	2DXK4
12	20	2DXK6
12	24	5W421
14	16	2DXH8
14	20	2DXK8
14	25	2DXL7
15	20	2GFE8
16	16	2DJX1
16	18	2DJX3
16	20	2DJX5
16	22	2DJX7

H	W	Grainger #
16	24	2DXJ9
16	25	2DXK2
18	24	2DXL5
18	25	2DXL9
20	20	5W422
20	22	2DXL1
20	24	2DXL3
20	25	5W423
22	25	2DXN2
24	24	5W424
25	25	2DXN4

For our complete line of filters, visit grainger.com/airhandler
Find it at Grainger.

PAINT COLLECTION

PAINT OVERSPRAY PADS / ROLLS

STANDARD-CAPACITY PAPER

6 layers of kraft media, slit and expanded into a mesh with baffle-like surfaces, are progressively layered to collect particulates from larger overspray to smaller droplets. Excellent choice for air-dry enamels, stains and glazes.

HIGH-CAPACITY PAPER

The first 3 layers (total of 8) employ large baffle openings for maximum particulate-holding capacity. Ideal for use with heavier tacky coatings, conventional coatings and in situations requiring extended service life. Excellent choice for air-dry enamels, stains, glazes, epoxies, urethanes, asphalts, fiberglass, gel, tar-like, Teflon, vinyls, bake-dry enamels and clear coats.

HIGH-SOLIDS PAPER

5 layers of expanded kraft media with multistage baffle openings and 1 synthetic layer provide high-efficiency collection and straining, especially with high solids and waterborne coatings. Excellent choice for air-dry enamels, stains, glazes, epoxies, urethanes, bake-dry enamels, clear coats and water-borne.

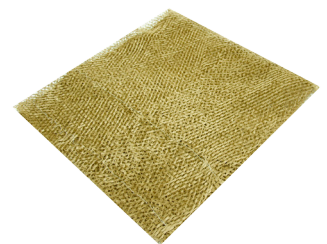
STANDARD-CAPACITY FIBERGLASS

2-1/4" thick media is progressively layered (air-entering to air-leaving) to enhance filter efficiency and service life. Loosely woven construction allows paint to load evenly without face loading.

DIMENSIONS & PART #S

H	W	D	Media	Style	Case Qty.	Grainger #
20	20	1	Paper	Standard Capacity	50	6W747
20	25	1	Paper	Standard Capacity	50	6W748
20	20	1	Paper	High Capacity	30	6W749
20	25	1	Paper	High Capacity	30	6W750
20	20	1	Paper / Synthetic	High Capacity	50	6W751
20	25	1	Paper / Synthetic	High Capacity	50	6W752
20	20	1	Fiberglass	Standard Capacity	50	2W001
20	25	1	Fiberglass	Standard Capacity	50	2W002
20	20	1	Polyester	*	30	2EKK1
20	25	1	Polyester	*	30	2EKK2

High Solids Pad



6W751

For our complete line of filters, visit grainger.com/airhandler

Find it at Grainger.

© 2013 W.W. Grainger, Inc. 8S

PAINT COLLECTION

PAINT OVERSPRAY ROLLS

Designed for use in all spray booth overspray applications and in high-production situations.

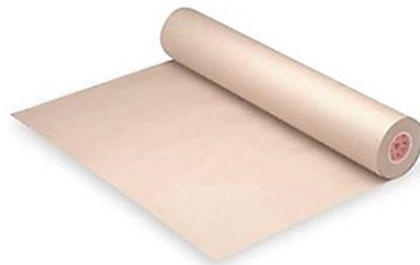
H	L	D	Media	Style	Case Qty.	Grainger #
20-1/2	260'	2-1/2	Fiberglass	Standard Capacity	1	6B845
25-1/2	260'	2-1/2	Fiberglass	Standard Capacity	1	6B844
30	260'	2-1/2	Fiberglass	Standard Capacity	1	6C525
36	260'	2-1/2	Fiberglass	Standard Capacity	1	6C526
41	260'	2-1/2	Fiberglass	Standard Capacity	1	6C527
48	260'	2-1/2	Fiberglass	Standard Capacity	1	6C528
60	260'	2-1/2	Fiberglass	Standard Capacity	1	6B843
40	260'	1	Paper	Standard Capacity	1	6B834
40	40'	1	Paper	High Capacity	1	6B836
40	20'	1	Paper / Synthetic	High Solids	1	6B835
20-1/2	90'	1	Polyester	*	1	2EKK3
25-1/2	90'	1	Polyester	*	1	2EKK4
30	90'	1	Polyester	*	1	2EKK5
36	90'	1	Polyester	*	1	2EKK6
41	90'	1	Polyester	*	1	2EKK7
48	90'	1	Polyester	*	1	2EKK8
60	90'	1	Polyester	*	1	2EKK9

LINER PAPER / PROTECTIVE SHEETING

High-grade, fire retardant kraft paper is ideal for spray booths, welding areas, or potentially flammable operations. Cut to desired size for walls & floors. Meets state and local government requirements for EPA, NFPA—Standard 33, OSHA Standard 1910.107

DIMENSIONS & PART #S

H	W	Grainger #
36	300	6W753
42	300	6W754
60	300	6W755
72	300	6W756



For our complete line of filters, visit grainger.com/airhandler

Find it at Grainger.

© 2013 W.W. Grainger, Inc. 8S

Air  Handler[®]
Clear the air. Ease your mind.

NESHAP / EPA METHOD 319

The EPA National Emissions Standards for Hazardous Air Pollutants (NESHAP) mandated that a new filtration test method be established to determine the efficiency of a filter to remove hazardous pollutants from paint overspray. The EPA guidelines went into effect on September 1, 1998 and continue to set the standard for paint overspray collection systems today. The test method to determine compliance is Test Method 319.

PREFERRED 1ST STAGE

PAINT FILTER PAD



Paint Filter Pad, Polyester media with ECXL style. The media is multilayered, with finer fiber structures downstream in order to enhance depth loading capacity. The multiple layers will avoid face loading as it captures overspray paint with a downstream tackifier.

APPROVED 2-STAGE SYSTEM

2 POCKET BAG FILTER



The recommended 2-stage system consists of a prefilter paint arrestor pad followed by a two pocket bag filter. This two pocket bag filter exceeds the approved EPA Method 319 testing requirements with or without the prefilter pad. The 2-pocket filter is self-sealing and has self supporting pockets. The Media construction is a multi-layered gradient density structure to maximize paint collection and retention.

APPROVED 3-STAGE SYSTEM

5 POCKET BAG FILTER



The recommended 3-stage system consists of a prefilter pad, a 2 pocket filter bag, followed by the EPA Method 319 approved 5 pocket bag filter. The 5 pocket bag filter is self sealing and exceeds the testing requirements with or without the pre-filter pad and two pocket filter bag. The media construction is multi-layered with the downstream layer consisting of a high efficiency synthetic media.

For our complete line of filters, visit grainger.com/airhandler

Find it at Grainger.

© 2013 W.W. Grainger, Inc. 8S

NESHAP / EPA METHOD 319

DIMENSIONS & PART #S

Nominal Size (in.)			2-Pocket Bag
H	W	D	Grainger #
20	20	15	4YKR4
20	25	15	4YKR5
24	24	15	4YKR6

Nominal Size (in.)			5-Pocket Bag
H	W	D	Grainger #
20	20	12	4YKR1
20	25	12	4YKR2
24	24	12	4YKR3

PERFORMANCE COMPARISON 2-STAGE FILTER

Liquid Challenge - Oleic Acid			
Particle Size	EPA 319 Requirement	Air Handler Actual	ATI Actual
>2.2um	>10%	55.40%	41%
>4.1um	>50%	81.30%	87%
>5.7um	>90%	92.40%	96%

Solid Challenge - KCl			
Particle Size	EPA 319 Requirement	Air Handler Actual	ATI Actual
>2.2um	>10%	55.40%	41%
>4.1um	>50%	81.30%	87%
>5.7um	>90%	92.40%	96%

Initial dP @ 120 FPM Air Handler - 0.045"

Initial dP @ 120 FPM ATI - 0.13"

PERFORMANCE COMPARISON 3-STAGE FILTER

Liquid Challenge - Oleic Acid			
Particle Size	EPA 319 Requirement	Air Handler Actual	ATI Actual
>0.42um	>65%	83.50%	75%
>1.0um	>80%	95.00%	87%
>2.0um	>95%	99.10%	99%

Solid Challenge - KCl			
Particle Size	EPA 319 Requirement	Air Handler Actual	ATI Actual
>0.70um	>75%	93.80%	88%
>1.1um	>85%	97.80%	92%
>2.5um	>95%	99.50%	98%

Initial dP @ 120 FPM Air Handler - 0.22"

Initial dP @ 120 FPM ATI - 0.28"

The lower initial dP results in longer life and lower operating costs.

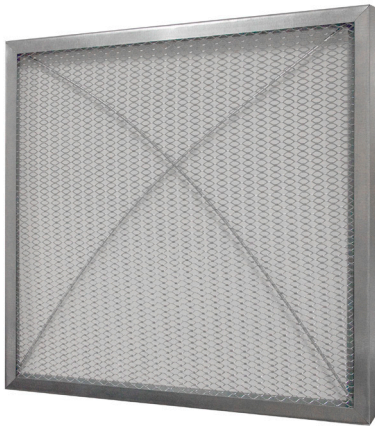
For our complete line of filters, visit grainger.com/airhandler

Find it at Grainger.

FILTER ACCESSORIES

PAD HOLDING FRAMES

Air Handler Pad Holding Frames are reusable. Permanent pad holding frames are constructed around a 24-gauge steel frame. The downstream side is 16-gauge, 1" x 1" welded wire. A hinged gate makes changing the pad easy, quick and safe.



DIMENSIONS & PART #S

H	W	D	Grainger #
10	10	1	6B730
10	20	1	6B729
12	12	1	5W082
12	20	1	6B727
12	24	1	5W081
14	20	1	6B725
14	25	1	6B723
15	20	1	6B721
16	16	1	6B719
16	20	1	5W080
16	24	1	6B718
16	25	1	5W079
18	18	1	5W078
18	20	1	6B716
18	24	1	5W077
18	25	1	6B714
20	20	1	5W076
20	24	1	6B713

H	W	D	Grainger #
20	25	1	5W075
22	22	1	5W074
24	24	1	5W073
25	25	1	5W083
10	20	2	6B728
12	24	2	6B726
14	20	2	6B724
14	25	2	6B722
15	20	2	6B720
16	20	2	5W072
16	24	2	6B717
16	25	2	5W071
18	24	2	6B715
20	20	2	5W070
20	24	2	6B712
20	25	2	5W069
24	24	2	6B711
25	25	2	6B710

AIR FILTER HOLDING FRAMES

Air Handler Filter Holding Frames are used to construct "built-from-scratch" filter banks for air handling systems. They may be bolted or riveted together utilizing matching holes on frames. Combined with a variety of holding clips, they can accept most 1", 2", 4", 6" and 12" supported filters and non-supporting pocket filters.

H	W	D	Case Qty.	Grainger #
24	24	3	8	6B731
20	24	3	8	6B732
12	24	3	8	6B733



For our complete line of filters, visit grainger.com/airhandler
Find it at Grainger.

FILTER ACCESSORIES

GASKETING FOR AIR FILTERS

Air Handler Filter Gasketing consists of black neoprene foam construction with adhesive backing. Excellent resistant to chemicals, maximum temperature of 220°F. Used to seal filters and avoid air by-pass.

DIMENSIONS & PART #S

W	L	D	Grainger #
13/16"	75'	1/8"	6C523
13/16"	50'	1/4"	6C524

FILTER HOLDING CLIPS

Air Handler Filter Holding Clips keep all types of air filters firmly fastened within frames. Install using hand tools only - no rivets or bolts necessary. See chart below to match air filter to proper clip.

All pigtail clips are galvanized steel and all spring clips are stainless steel.

Case quantity equals 12



DIMENSIONS & PART #S

Clip Style	To Hold	No. Required	Grainger #
1" Pigtail	1" Header	4	5E904
2" Pigtail	2" Filter	2	5E905
3" Pigtail	2" Prefilter to a filter w/ header	4	5E906
4" Pigtail	4" Filter	4	5E907
6" Spring	6" Rigid or Box	4	5E908
12" Spring	12" Rigid or Box	4	5E909



Pigtail Clip



Spring Clip

For our complete line of filters, visit grainger.com/airhandler

Find it at Grainger.

© 2013 W.W. Grainger, Inc. 8S