



# PRE FILTER

**PURE AIR**  
HEALTHY LONG LIFE

**Exceii**-HVAC

# ALUMINIUM

PRE FILTER



## PRODUCT DESCRIPTION

EXCELL-HVAC ALUMINIUM FILTERS are designed for medium to heavy usage where frequent cleaning is necessary. EXCELL-HVAC ALUMINIUM FILTERS are proven filters for domestic and commercial heating, ventilating and air conditioning systems. Can be used as roughing filters in air handling units or as phase filters in kitchen exhaust installations. EXCELL-HVAC ALUMINIUM FILTERS are permanent filters with layers of aluminum slit and expanded into mesh of differing densities.

## IMPORTANT FEATURES

- Corrosion resistant construction including frame.
- Lightweight construction.
- Numerous sizes and shapes with optional accessories.
- Permanent washable construction.
- Top of the line robust construction for high air velocity conditions.



## 1) DESIGN & CONSTRUCTION

The filter is made of slit and expanded aluminum media with hundreds of baffle-like surfaces encased in an aluminum frame (galvanized frame is optional). The unique sturdy construction makes this a highly reliable product, for high moisture and high temperature conditions.

## 2) ASHRAE RATING

Arrestance value depends on the thickness of the filter. Synthetic dust weight arrestance averages from a minimum of 57% to a maximum of 81%.

## 3) SPECIFICATIONS:

<b>Filter Name</b>	ALUMINIUM FILTER
<b>Media</b>	ALUMINIUM MEDIA
<b>Frame</b>	ALUMINIUM / GALVANIZED STEEL
<b>Filter Depth</b>	1/2"/4"
<b>Special Size available</b>	YES
<b>Maximum Operating temperature</b>	80° C
<b>Filter Class EN779:2012</b>	G2
<b>Filter Class ASHRAE 52.2:2007</b>	MERV 4
<b>Certification</b>	UL 900

Filter size	Arrestance	Resistance (inch.W.G)	
		350fpm	500fpm
inches			
24X24X1	62.0%	0.04	0.085
12X24X1	62.0%	0.04	0.085
24X24X2	81.3%	0.06	0.125
12X24X2	81.3%	0.06	0.125
24X24X1	71.5%	0.045	0.095
12X24X1	71.5%	0.045	0.095
Recommended final resistance.50 " WG			



# METALLIC

PRE FILTER



## PRODUCT DESCRIPTION

EXCELL-HVAC METALLIC FILTERS are permanent filters with layers of metallic slits and expanded into mesh of differing densities, encased in an aluminium or galvanized steel frame. EXCELL-HVAC METALLIC FILTERS are washable type permanent air filters suitable for HVAC high velocity and grease filtration applications.

## IMPORTANT FEATURES

- Metal series for Heavy duty & coarse filter applications.
- Suitable for HVAC systems & kitchen exhaust units.
- Washable filters.
- Easy installation and maintenance.
- High dust holding capacity



## 1) DESIGN & CONSTRUCTION

EXCELL-HVAC METALLIC FILTERS are washable metal series filter made up of multiple layers of pleated metal mesh, enclosed in metal frames. The drain holes will easily drain out the dirt, oil and grease from the filter.

The rigid construction of metal series filters will ensure the performance in heavy-duty applications.

## 2) ASHRAE RATING

Arrestance value depends on the thickness of the filter. Synthetic dust weight arrestance averages from a minimum of 57% to a maximum of 81%.

## 3) SPECIFICATIONS:

<b>Filter Name</b>	METALLIC FILTER
<b>Media</b>	METAL MESH MEDIA
<b>Frame</b>	ALUMINIUM / GALVANIZED STEEL
<b>Filter Depth</b>	1/2"/4"
<b>Special Size available</b>	YES
<b>Maximum Operating temperature</b>	80° C
<b>Filter Class EN779:2012</b>	G2
<b>Filter Class ASHRAE 52.2:2007</b>	MERV 4

Filter size	Efficiency grade	Resistance (inch.W.G)	
		350fpm	500fpm
inches	CEN		
24x24x1	G2	0.04	0.07
12x24x1	G2	0.04	0.07
24x24x2	G2	0.05	0.10
12x24x2	G2	0.05	0.10
24x24x4	G2	0.09	0.18
12x24x4	G2	0.09	0.18
Recommended final resistance.50 " WG			





### PRODUCT DESCRIPTION

EXCELL-HVAC CORRUGATED FILTER is a washable metal filter for use in commercial and industrial heating. Owing to their excellent dust holding capacity and ability to perform in high moisture conditions, they are particularly suitable for use as grease filters in kitchen hoods

### IMPORTANT FEATURES

- Aluminum Frame.
- Reduces maintenance cost.
- Low resistance against air flow.
- High dust-holding capacity and long service life.
- Easy to clean and install.



### 1) DESIGN & CONSTRUCTION

EXCELL-HVAC CORRUGATED FILTER is made of corrugated aluminum wave net media, encased in an aluminum frame. The unique sturdy construction makes this a highly reliable product, for high moisture and high temperature conditions

### 2) ASHRAE RATING

Arrestance value depends on the thickness of the filter. Synthetic dust weight arrestance averages from a minimum of 57% to a maximum of 81%.

### 3) SPECIFICATIONS:

<b>Filter Name</b>	ALUMINIUM CORRUGATED FILTER
<b>Media</b>	ALUMINIUM CORRUGATED WAVE NET MEDIA
<b>Frame</b>	ALUMINIUM
<b>Filter Depth</b>	1"/2"/4"
<b>Special Size available</b>	YES
<b>Maximum Operating temperature</b>	80° C
<b>Filter Class EN779:2012</b>	G2
<b>Filter Class ASHRAE 52.2:2007</b>	MERV 4

Filter size	Air flow(m2/h)	Initial Resistance (<Pa)	Media area (m2)
592x592x21	3200	20	1.05
592x287x21	1560	20	0.51
592x490x21	2660	20	0.87
592x592x46	3200	20	3.15
592x287x46	1560	20	1.53
592x490x46	2660	20	2.61
592x592x50	3200	20	3.86
592x287x50	1560	20	1.87
592x490x50	2660	20	3.2



### PRODUCT DESCRIPTION

EXCELL-HVAC INDUSTRIAL ROBUST FILTERS are designed as a premium product for dusty areas where large quantities of lint and dust predominates, including paint spray booths. EXCELL-HVAC INDUSTRIAL ROBUST FILTERS finds extensive applications in pharmaceutical industries, food-processing plants, hospitals and many others.

### IMPORTANT FEATURES

- 100% polyester non-woven fibers.
- Wire mesh support on two sides.
- Longer service life.
- Three different thickness.
- Non-toxic, non-allergic.
- Washable Filter



### 1) DESIGN & CONSTRUCTION

The filter media is a lofted non-woven fiber mat. Mats of this type are washable. The media is designed to minimize surface loading. Two side wire mesh support.

### 2) ASHRAE RATING

EXCELL-HVAC INDUSTRIAL ROBUST FILTERS support ASHRAE 52. 1-92 method as the professionally accepted standard for air filtration. The average arrestance value varies from 80% to 90%.

### 3) SPECIFICATIONS:

<b>Filter Name</b>	INDUSTRIAL ROBUST FILTER
<b>Media</b>	SYNTHETIC POLYESTER MEDIA WITH WIRE MESH
<b>Frame</b>	ALUMINIUM / GALVANIZED STEEL
<b>Filter Depth</b>	1"/2"/4"
<b>Special Size available</b>	YES
<b>Maximum Operating temperature</b>	80° C
<b>Filter Class EN779:2012</b>	G3
<b>Filter Class ASHRAE 52.2:2007</b>	MERV 5
<b>Certification</b>	UL 900

Size (mm)	Air velocity (M/S)					
	0.5 volume M3/H	1 volume M3/H	1.5 volume M3/H	2 volume M3/H	2.5 volume M3/H	3 volume M3/H
287x592x50	610	1220	1830	2440	3050	3660
287x592x100	920	1840	2750	3680	4600	5500
400x500x50	720	1440	2160	2880	3600	4320
400x500x100	1080	2160	3240	4320	5400	6580
500x500x50	900	1800	2700	3600	4500	5400
500x500x100	1350	2700	4050	5400	6750	8100
400x625x50	900	1800	2700	3600	4500	5400
400x625x100	1350	2700	4050	5400	6750	8100
592x592x50	1260	2520	3780	5040	6300	7560
592x592x100	1890	3780	5670	7560	9450	11340





PRODUCT DESCRIPTION

EXCELL-HVAC POLYFIBER FILTERS are designed as a premium product for dusty areas where large quantities of lint and dust predominates, including paint spray booths. EXCELL-HVAC POLYFIBER FILTERS find extensive applications in pharmaceutical industries, food processing plants, hospitals and many others.

IMPORTANT FEATURES

- 100% polyester non-woven fibers.
- Three different thickness.
- Available in pre-cut pads and rolls.
- Non-toxic, non-allergic.
- Longer service life.
- Washable filter

1) DESIGN & CONSTRUCTION

EXCELL-HVAC POLYFIBER filter media is a lofted non-woven fiber mat. Mats of this type are washable. The media is designed to minimize surface loading. Two side wire mesh support.

2) ASHRAE RATING

EXCELL-HVAC POLYFIBER supports the ASHRAE 52.1-92 methods as the professionally accepted standards for air filtration. The average arrestance value varies from 80% to 90%.

3) SPECIFICATIONS:

<b>Filter Name</b>	POLYFIBER FILTER
<b>Media</b>	SYNTHETIC POLYESTER MEDIA
<b>Frame</b>	ALUMINIUM / GALVANIZED STEEL
<b>Filter Depth</b>	1 1/2" / 4"
<b>Special Size available</b>	YES
<b>Maximum Operating temperature</b>	80° C
<b>Filter Class EN779:2012</b>	G3
<b>Filter Class ASHRAE 52.2:2007</b>	MERV 5
<b>Certification</b>	UL 900



Size (mm)	Air velocity (M/S)							
	1		1.5		2		2.5	
	volume M3/H	Resistance Pa	volume M3/H	Resistance Pa	volume M3/H	Resistance Pa	volume M3/H	Resistance Pa
287x592x22	610	20	920.00	38	1220	60	1530	90
400x400x22	575	20	865.00	38	1150	60	1440	90
400x500x22	720	20	1080.00	38	1440	60	1800	90
400x625x22	900	20	1350.00	38	1800	60	2250	90
500x500x22	900	20	1350.00	38	1800	60	2250	90
500x625x22	1125	20	1685.00	38	2250	60	2810	90
592x592x22	1260	20	1890.00	38	2520	60	3150	90
287x592x48	610	35	920.00	770	1220	100	1530	160
400x400x48	575	35	865.00	70	1150	100	1440	160
400x500x48	720	35	1080.00	70	1440	100	1800	160
400x625x48	900	35	1350.00	70	1800	100	2250	160
500x500x48	900	35	1350.00	70	1800	100	2250	160
500x625x48	1125	35	1685.00	70	2250	100	2810	160
592x592x48	1260	35	1890.00	70	2520	100	3150	160

# PLEATED

## PRE FILTER



### PRODUCT DESCRIPTION

EXCELL-HVAC PLEATED FILTERS are designed for use in a wide variety of commercial, industrial and residential installations, where a higher air cleaning efficiency is desired than that provided by disposable panel filters, media pads or permanent metal filters.

### IMPORTANT FEATURES

- Fire resistant construction UI Class-2 listed. (File R. 14863).
- Radial wedge pleats minimize end losses, reduce resistance and saves energy.
- Pleat contour stabilizers for 4» filters.
- Available in 2 capacity ranges and in various sizes.
- Filter media pack is sealed to eliminate air by pass and improve IAQ.
- World class design with double wall construction.
- 3 to 4 times the service life compared to Panel disposable filters.



### 1) DESIGN & CONSTRUCTION

EXCELL-HVAC PLEAT filters offers a complete line of 1», 2» and 4» Pleated filters. Media used is a high loft, reinforced, non-woven cotton /synthetic blend media. Media is laminated to an expanded metal grid on the air leaving side. EXCELL-HVAC PLEATED offers a two-piece, die cut, aqua board frame featuring diagonal and horizontal support and unique locking corners to ensure positive media-to-frame seal.

### 2) ASHRAE RATING

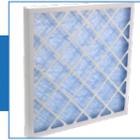
EXCELL-HVAC PLEAT offers a complete line of Pleated filters in two average efficiencies: 25-30% and 50-55% per ASHARE Standard 52.1.1992.

### 3) SPECIFICATIONS:

<b>Filter Name</b>	PLEATED FILTER
<b>Media</b>	COTTON/POLY
<b>Frame</b>	KRAFT BOARD
<b>Filter Depth</b>	1 1/2" / 4"
<b>Special Size available</b>	YES
<b>Maximum Operating temperature</b>	65° C
<b>Filter Class EN779:2012</b>	G4, F5
<b>Filter Class ASHRAE 52.2:2007</b>	MERV 6, 9
<b>Capacity</b>	STANDARD, HIGH
<b>Certification</b>	UL 900



TYPE	Nominal size INCHES	Nominal size MM	Actual size Inches			Actual size MM			Capacities CFM		Capacities M3/H		Resistance Inches W/G			Resistance Pa			MEDIA AREA	
			width	height	Depth	width	height	Depth	Med	high	Med	high	Med	high	Med	high	Med	high	FT2	M2
EP-1 1"	10X20X1	254x508x25	9.5	19.5	0.88	241	495	22.4	420	700	715	1190	0.22	0.4	0.9	55	99	223	2.1	0.19
	12X24X1	305x610x25	11.5	23.5	0.88	292	597	22.4	500	1000	850	1700	0.22	0.4	0.9	55	99	223	3.1	0.28
	14x20x1	356x508x25	13.5	19.5	0.88	343	495	22.4	600	1000	1020	1700	0.22	0.4	0.9	55	99	223	3.1	0.28
	14x25x1	356x635x25	13.5	24.5	0.88	343	622	22.4	705	1250	1200	2125	0.22	0.4	0.9	55	99	223	3.4	0.31
	15x20x1	381x508x25	14.5	19.5	0.88	368	495	22.4	600	1100	1020	1870	0.22	0.4	0.9	55	99	223	3.2	0.29
	16x20x1	406x508x25	15.5	19.5	0.88	394	495	22.4	660	1100	1120	1870	0.22	0.4	0.9	55	99	223	3.3	0.3
	16x25x1	406x635x25	15.5	24.5	0.88	394	622	22.4	700	1400	1190	2380	0.22	0.4	0.9	55	99	223	4.2	0.39
	20x20x1	508x508x25	19.5	19.5	0.88	495	495	22.4	700	1400	1190	2380	0.22	0.4	0.9	55	99	223	4.2	0.39
	20x25x1	508x635x25	19.5	24.5	0.88	495	622	22.4	870	1740	1480	2955	0.22	0.4	0.9	55	99	223	5.3	0.49
	24x24x1	610x610x25	23.5	23.5	0.88	597	597	22.4	1000	2000	1700	3400	0.22	0.4	0.9	55	99	223	6.1	0.56
	12X24X2	305x610x51	11.38	23.38	1.88	289	594	47.6	500	1000	850	1700	0.16	0.24	0.9	40	60	223	6	0.55
	16x20x2	381x508x51	15.5	19.5	1.88	394	495	47.6	550	1100	935	1870	0.16	0.24	0.9	40	60	223	6.6	0.61
16x25x2	406x635x51	15.5	24.5	1.88	394	622	47.6	700	1400	1190	2380	0.16	0.24	0.9	40	60	223	8.3	0.77	
20x20x2	508x508x51	19.5	19.5	1.88	495	495	47.6	700	1400	1190	2380	0.16	0.24	0.9	40	60	223	8.3	0.77	
20x25x2	508x635x51	19.5	24.5	1.88	495	622	47.6	870	1740	1480	2955	0.16	0.24	0.9	40	60	223	10	0.92	
24x24x2	610x610x51	23.38	23.38	1.88	594	594	47.6	1000	2000	1700	3400	0.16	0.24	0.9	40	60	223	12	1.11	
12x24x4	305x610x102	11.38	23.38	3.88	289	594	98.5	600	1250	1020	2125	0.18	0.26	0.9	45	65	223	11.1	1.3	
16x20x4	381x508x102	15.38	19.38	3.88	391	492	98.5	665	1350	1130	2290	0.18	0.26	0.9	45	65	223	11.8	1.9	
16x25x4	406x635x102	15.38	24.38	3.88	391	619	98.5	835	1700	1420	2890	0.18	0.26	0.9	45	65	223	15	1.39	
18x24x4	457x610x102	17.38	23.38	3.88	441	594	98.5	900	1875	1530	3185	0.18	0.26	0.9	45	65	223	16.6	1.54	
20x20x4	508x508x102	19.38	19.38	3.88	492	492	98.5	835	1700	1420	2890	0.18	0.26	0.9	45	65	223	15	1.39	
20x25x4	508x635x102	19.38	24.38	3.88	492	619	98.5	1050	2100	1785	3570	0.18	0.26	0.9	45	65	223	19.4	1.8	
24x24x4	610x610x102	23.38	23.38	3.88	594	594	98.5	1200	2400	2040	4080	0.18	0.26	0.9	45	65	223	22.2	2.6	
29x25x4	737x635x102	28.38	24.38	3.88	721	619	98.5	1550	3075	2635	5225	0.18	0.26	0.9	45	65	223	27	2.5	



PRODUCT DESCRIPTION

EXCELL-HVAC PANEL FILTERS are disposable filters. They are widely used as pre-filters along with higher efficiency filters, or to protect heating and cooling coils from becoming coated with dirt. Suitable for use in air handling units and banks of filter frames, in commercial applications including offices and factories.

IMPORTANT FEATURES

- Filter media will not sag.
- Available in ½”,1» and 2» nominal thickness.
- World-class construction
- Low cost filters.

1) DESIGN & CONSTRUCTION

EXCELL-HVAC PANEL FILTERS are built for heavy-duty applications. Filters are manufactured from progressive density fiberglass media with high compression strength (to prevent surface loading). A colourless and odourless adhesive retains the dirt particles within the filter media once they come in contact with the fibers.

The rugged kraftboard frame, which encases the media, is supported by die-cut frames on both the upstream and downstream sides. The thermo plastic sealant around the perimeter of the filter frame provides the product high rigidity and strength.

2) ASHRAE RATING

High arrestance and high dust holding capacity makes the EXCELL-HVAC Panel a leader in the highly competitive market. Average arrestance value 75-85%.

3) SPECIFICATIONS:

<b>Filter Name</b>	PANEL FILTER
<b>Media</b>	FIBERGLASS / SYNTHETIC
<b>Frame</b>	KRAFT BOARD
<b>Filter Depth</b>	1"/2"/4"
<b>Special Size available</b>	YES
<b>Maximum Operating temperature</b>	65° C
<b>Filter Class EN779:2012</b>	G3
<b>Filter Class ASHRAE 52.2:2007</b>	MERV 5



Nominal size (inches)	Nominal size MM	Resistance Inches W.G@ 500FPM		Resistance Inches W.G@ 500FPM		Average synthetic Dust weight Arrestance
		Initial	Final	Initial	Final	
12x24x1	305X610X25	0.19	0.50	47.18	124.18	75.2%
16x20x1	406X508X25	0.19	0.50	47.18	124.18	75.2%
20x20x1	508X508X25	0.19	0.50	47.18	124.18	75.2%
16x25x1	406X635X25	0.19	0.50	47.18	124.18	75.2%
20x25x1	505X635X25	0.19	0.50	47.18	124.18	75.2%
24x24x1	610X610X25	0.19	0.50	47.18	124.18	75.2%
12x24x2	305X610X51	0.20	0.50	49.67	124.18	86.5%
16x20x2	406X508X51	0.20	0.50	49.67	124.18	86.5%
20x20x2	508X508X51	0.20	0.50	49.67	124.18	86.5%
16x25x2	406X635X51	0.20	0.50	49.67	124.18	86.5%
20x25x2	505X635X51	0.20	0.50	49.67	124.18	86.5%
24x24x2	610X610X51	0.20	0.50	49.67	124.18	86.5%

Actual size are 5/8 less than the nominal size .Special size available upon request

A night-time photograph of an industrial facility. A tall, white smokestack with red and white horizontal bands is the central focus, emitting a thick plume of white smoke that drifts across the dark blue sky. To the left, a large, illuminated industrial structure with a complex metal framework is visible. In the foreground, a road with a white lane marking stretches across the frame. The overall scene is lit with a mix of blue and white light, creating a dramatic atmosphere.

# FINE FILTER

**PURE AIR**  
PROTECT YOUR FAMILY

**exceii-HVAC**



PRODUCT DESCRIPTION

In an effort to respond increasing synthetic media requirements in the air filtration industry, EXCELLECT filter factory offers the EXCELL-HVAC ULTRA-PAC bag filter for those areas requiring the highest degree of air cleanliness.

IMPORTANT FEATURES

- Create stability even at high airflow, turbulence, pressure surges and high humidity.
- Dust holding capacity increased by 10-30%.
- Initial resistance decreased by 5-20%.
- Treated media, which inhibit the growth of micro-organisms.
- Initial efficiency increased by 5-20%.
- Non-shedding, Non-carcinogenic synthetic media.
- UL listed File R14863

1) DESIGN & CONSTRUCTION

Each EXCELL-HVAC ULTRA-PAC FILTER provides extended surface filtration efficiency through high quality synthetic media formed into individual dust holding pockets. The pockets are created by a multi-row welding process, which promotes uniform spacing between each pocket, ensuring optimum dirty-air to-media contact.

In addition, each pocket is bonded and sealed to its own J-channel support frame, which is fastened mechanically to a heavy duty, corrosion resistant galvanized enclosure frame.

EXCELL-HVAC ULTRA-PAC Filters are Certified with Underwriters Laboratories Inc.

Underwriters Laboratories Inc, is a U.S. based independent, non-profit making organization that tests products for safety, and has the world's best reputation for unbiased assurance of filter safety.

DUAL STAGE MEDIA

Excellect utilizes a dual stage world-class media in each EXCELL-HVAC ULTRA-PAC Filter. The first stage is a pre-filter, which consists of coarse polyester fibers designed to arrest larger particulate in the air stream and enhance dirt-loading ability. The second stage is a layer of micro fine polypropylene fibers spun-bonded and fastened to a polypropylene backing which captures the remaining smaller particles. This dual stage media configuration increases the overall efficiency and dust holding capacity of EXCELL-HVAC ULTRA-PAC.

2) ASHRAE RATING

Available in 4 certified color coded efficiency ranges F6 to F9 (EN779) 65% to 98% (Ashrae Dust Support):

MEDIA COLOR	AVERAGE Avg. Eff. Ashrae 52.1-92
White	98%+
Yellow	90%-95%
Pink	85%-90%
Green	60%-65%
Beige	45%-50%



3) SPECIFICATIONS:

Filter Name	SYNTHETIC BAG FILTER
Media	Synthetic polyester
Frame	GALVANIZED STEEL
Filter Depth	20MM ,25MM, 28 MM
Special Size available	YES
Filter Class EN779:2012	From F5 / F6 / F7 /F8 /F9
Filter Class ASHRAE 52.2:2007	MERV 9/12/13/14/15
Maximum Operating temperature	93° C
Certifications	UL-900



Nominal Size (inches)	No of Pockets	Initial Resistance to Airflow. (Inches W.G)												CFM Low	CFM Medium	CFM High	area (sq.ft)
		95% /F8/MERV14			85% /F7/MERV13			65% /F6/MERV11			50% /F5/MERV11						
		Low	Med	High	Low	Med	High	Low	Med	High	Low	Med	High				
24x24x36	10	0.28	0.46	0.56	0.36	0.46	0.46	0.15	0.20	0.32	-	-	-	130			
24x24x30	10	0.35	0.49	0.60	0.40	0.50	0.50	0.20	0.26	0.34	-	-	-	88.3			
24x24x29	8	0.38	0.40	0.54	0.30	0.48	0.48	0.22	0.26	0.30	-	-	-	74.71			
24x24x26	12	0.38	0.50	0.68	0.40	0.58	0.58	0.21	0.26	0.36	-	-	-	112.6			
24x24x26	10	0.35	0.42	0.52	0.34	0.48	0.48	0.21	0.26	0.36	0.11	0.13	0.20	76.55			
24x36x26	10	0.33	0.46	0.50	0.34	0.48	0.48	0.20	0.26	0.37	0.11	0.13	0.20	137.25			
24x24x25	10	0.36	0.44	0.54	0.36	0.50	0.50	0.20	0.28	0.38	0.12	0.14	0.22	90.25			
24x24x25	8	0.35	0.48	0.65	0.39	0.54	0.54	0.19	0.32	0.46	0.12	0.17	0.25	73.60			
24x24x24	8	0.35	0.50	0.68	0.44	0.58	0.58	0.21	0.35	0.48	0.12	0.19	0.28	70.65			
24x24x24	6	0.38	0.50	0.55	0.34	0.48	0.48	0.25	0.36	0.42	0.14	0.20	0.26	54			
24x24x22	10	0.40	0.45	0.6	0.30	0.52	0.52	0.20	0.33	0.46	0.13	0.18	0.26	79.54			
24x24x22	7	0.38	0.44	0.53	0.33	0.40	0.40	0.23	0.30	0.36	0.16	0.17	0.24	55.60			
24x24x22	6	0.44	0.48	0.56	0.35	0.44	0.44	0.26	0.34	0.40	0.17	0.18	0.25	49.50			
24x24x21	8	0.37	0.45	0.52	0.33	0.40	0.40	0.25	0.33	0.40	0.15	0.17	0.23	61.80			
24x24x21	6	0.45	0.50	0.58	0.37	0.50	0.50	0.28	0.36	0.44	0.18	0.20	0.27	47.25			
24x24x20	10	0.38	0.48	0.56	0.30	0.54	0.54	0.20	0.33	0.40	0.15	0.17	0.25	72.20			
24x24x20	8	0.40	0.48	0.54	0.36	0.45	0.45	0.27	0.35	0.42	0.16	0.18	0.24	58.90			
24x24x20	6	0.46	0.53	0.60	0.42	0.54	0.54	0.30	0.35	0.44	0.18	0.20	0.28	45			
24x24x19	8	0.46	0.53	0.60	0.41	0.54	0.54	0.29	0.37	0.45	0.17	0.23	0.26	55.95			
24x24x18	8	0.48	0.55	0.63	0.43	0.58	0.58	0.33	0.40	0.47	0.18	0.25	0.30	53			
24x24x15	10	0.36	0.46	0.56	0.30	0.54	0.54	0.33	0.39	0.46	0.19	0.25	0.30	54.15			
24x24x15	8	0.40	0.52	0.64	0.36	0.60	0.60	0.35	0.42	0.51	0.20	0.28	0.33	44.17			
24x24x12	12	0.42	0.48	0.6	0.36	0.64	0.64	0.33	0.43	0.50	0.20	0.26	0.32	52			



PRODUCT DESCRIPTION

EXCELL-HVAC POLY-PAC Filters are medium to high efficiency extended surface self-supported pocket (bag) filters made of super fine synthetic (polyester) filter media. The progressive density multi-layered fiber arrangement offers excellent filtration performance combined with very high dust holding capacity.

EXCELL-HVAC POLY-PAC filters are ideal air contributing system in Hospitals, Pharmaceutical plants, food processing plants etc.

IMPORTANT FEATURES

- Very high dust holding capacity.
- Washable.
- Low Pressure Drop.
- Long Service Life.
- Environmentally friendly.
- Suitable for 100% humidity

1) DESIGN & CONSTRUCTION

EXCELL-HVAC POLY-PAC, self-supporting bag filters are made up of superior grade synthetic filter media, multi-layered density fiber arrangement.

The three-stage fiber arrangement has a first layer which act as a pre-filter to the micro fiber second layer and third layer supports the media fibers. This results in high dust holding capacity, low-pressure drop and longer lifetime. The rigid pockets are formed by welded construction and aerodynamic design.

2) ASHRAE RATING

Available in G3 (EN779) 30% (Ashrae Dust Support).

3) SPECIFICATIONS:

<b>Filter Name</b>	POLY-PAC
<b>Media</b>	Synthetic polyester
<b>Frame</b>	GALVANIZED STEEL/Aluminum
<b>Frame thickness</b>	20MM ,25MM, 28 MM
<b>Special Size available</b>	YES
<b>Filter Class EN779:2012</b>	G4
<b>Filter Class ASHRAE 52.2:2007</b>	MERV 6
<b>Maximum Operating temperature</b>	65° C



Nomonal Size (inches)	No of Pockets	CFM Medium	CFM High	Initial Resistance to Airflow. (Inches W.G)				area (sq.ft)
				30% /G3/EU3		40% /G3/EU3		
				Med	High	Med	High	
24x24x12	6	2500	2500	0.11	0.20	0.14	0.25	26
20x24x12	5	1500	2000	0.11	0.20	0.14	0.25	21.6
12x24x12	3	1000	1250	0.11	0.20	0.14	0.25	13
24x24x15	6	2000	2500	0.10	0.19	0.12	0.23	32.5
20x24x15	5	1500	2000	0.10	0.19	0.12	0.23	27
12x24x15	3	1000	1250	0.10	0.19	0.12	0.23	16.25
24x24x24	6/8	2000	2500	0.09	0.17	0.11	0.20	51.92/69.5
20x24x24	5/6	1500	2000	0.09	0.17	0.11	0.20	43.27/51.92
12x24x24	3/4	1000	1250	0.09	0.17	0.11	0.20	25.96/34.6
24x24x26	6/8	2000	2500	0.08	0.14	0.09	0.15	56.33/75.10
20x24x26	5/6	2000	2400	0.08	0.14	0.09	0.15	46.95/56.33
12x24x26	3/4	1250	1500	0.08	0.14	0.09	0.15	28.17/37.55



PRODUCT DESCRIPTION

EXCELL-HVAC PAC Filters are designed for use in those areas requiring highest degree of air cleanliness. Typical applications include hospitals, office complexes, industrial facilities, schools and universities.

IMPORTANT FEATURES

- Low-pressure drop provides longer life.
- Unique space stitching provide optimum aerodynamics.
- Wide range of pocket depths, efficiencies and operating capacities are available.
- Edges have an exclusive over lock «Safety Stitch».
- Fire resistant construction.

1) DESIGN & CONSTRUCTION

EXCELL-HVAC PAC Micro fine Fiberglass Media pockets are sealed into a one-piece, galvanized steel header with pockets separators. Unique space stitching allows full depth loading of each pocket, maximum media utilization and lowest possible resistance.

2) ASHRAE RATING

Available in 4 certified color coded efficiency ranges:

MEDIA COLOR	AVERAGE Avg. Eff. Ashrae 52.1-92
Yellow	90%-95%
Pink	85%-90%
Orange	60%-65%
Dark Yellow	40%-50%

3) SPECIFICATIONS:

Filter Name	FIBER GLASS FILTER
Media	FIBER GLASS
Frame	GALVANIZED STEEL
Frame Thickness	20MM ,25MM, 28 MM
Special Size available	YES
Maximum Operating temperature	93° C
Filter Class EN779:2012	F5/F6/F7/F8
Filter Class ASHRAE 52.2:2007	70° C



Nominal Size (inches)	No of Pockets	CFM Low	CFM Medium	CFM High	Initial Resistance to Airflow. (Inches W.G)												area (sq.ft)
					95% /F7/MERV13			85% /F6/MERV11			65% /F5/MERV11			50% /F5/MERV11			
					Low	Med	High	Low	Med	High	Low	Med	High	Low	Med	High	
24x24x36	10	2000	2500	3000	0.36	0.48	0.66	0.33	0.43	0.50	0.28	0.33	0.40	-	-	-	130
24x24x30	10	2000	2400	2800	0.44	0.58	0.70	0.35	0.48	0.56	0.26	0.34	0.42	-	-	-	88.3
24x24x29	8	1800	2000	2200	0.44	0.47	0.58	0.32	0.44	0.52	0.23	0.30	0.38	-	-	-	74.71
24x24x26	12	2000	2400	2800	0.45	0.60	0.76	0.34	0.58	0.75	0.25	0.35	0.48	-	-	-	112.6
24x24x26	10	1800	2000	2400	0.44	0.48	0.65	0.33	0.37	0.52	0.24	0.28	0.37	0.15	0.19	0.26	76.55
24x36x26	10	2700	3000	3600	0.44	0.48	0.65	0.33	0.34	0.48	0.24	0.26	0.35	0.15	0.19	0.26	137.25
24x24x25	10	1750	2000	2400	0.44	0.50	0.70	0.33	0.36	0.52	0.26	0.28	0.42	0.17	0.20	0.28	90.25
24x24x25	8	1500	2000	2400	0.45	0.56	0.77	0.34	0.39	0.60	0.22	0.34	0.46	0.18	0.23	0.30	73.60
24x24x24	8	1400	2000	2400	0.45	0.58	0.85	0.34	0.41	0.65	0.21	0.36	0.48	0.17	0.25	0.34	70.65
24x24x24	6	1400	1800	2000	0.50	0.55	0.59	0.38	0.44	0.52	0.26	0.38	0.46	0.19	0.26	0.30	54
24x24x22	10	1750	2000	2250	0.47	0.58	0.68	0.35	0.43	0.58	0.21	0.33	0.48	0.18	0.23	0.30	79.54
24x24x22	7	1500	1750	2000	0.50	0.55	0.62	0.38	0.42	0.56	0.24	0.30	0.36	0.21	0.23	0.30	55.60
24x24x22	6	1500	1750	2000	0.54	0.60	0.72	0.42	0.46	0.60	0.30	0.34	0.40	0.22	0.24	0.30	49.50
24x24x21	8	1500	1750	2000	0.50	0.55	0.64	0.38	0.43	0.57	0.29	0.33	0.40	0.23	0.23	0.29	61.80
24x24x21	6	1500	1750	2000	0.56	0.65	0.68	0.41	0.48	0.62	0.32	0.38	0.50	0.26	0.26	0.33	47.25
24x24x20	10	1500	2000	2000	0.50	0.59	0.70	0.38	0.46	0.65	0.24	0.37	0.48	0.23	0.23	0.31	72.20
24x24x20	8	1500	1750	2000	0.56	0.60	0.68	0.42	0.50	0.62	0.31	0.39	0.48	0.21	0.24	0.30	58.90
24x24x20	6	1500	1750	2000	0.60	0.66	0.72	0.46	0.54	0.64	0.34	0.39	0.52	0.23	0.25	0.34	45
24x24x19	8	1500	1750	2000	0.58	0.65	0.70	0.45	0.55	0.66	0.33	0.41	0.50	0.22	0.28	0.31	55.95
24x24x18	8	1500	1750	2000	0.59	0.68	0.72	0.47	0.57	0.66	0.37	0.44	0.54	0.23	0.30	0.36	53
24x24x15	10	1350	1500	2000	0.50	0.56	0.68	0.47	0.52	0.66	0.37	0.43	0.53	0.24	0.30	0.36	54.15
24x24x15	8	1250	1500	2000	0.52	0.60	0.72	0.36	0.44	0.68	0.39	0.46	0.65	0.25	0.33	0.39	44.17
24x24x12	12	1250	1500	2000	0.50	0.58	0.75	0.36	0.46	0.70	0.37	0.47	0.60	0.50	0.31	0.38	52



PRODUCT DESCRIPTION

EXCELL-HVAC C-CELL FILTER is an extended surface MINI-PLEAT PANEL FILTER from the EXCELL-HVAC family of air filtration products. EXCELL-HVAC C-CELL has opened up a new chapter in filter technology. Much smaller in size than conventional filters, it satisfies much higher demands. The unique design and media properties made EXCELL-HVAC C-CELL a new state-of-the-art Filter.

IMPORTANT FEATURES

- No long bags, hence easy installation & disposal.
- Reduction in the filter section.
- Reduction in maintenance time.
- Increase in lifetime.
- Considerable reduction in operating cost.
- Contains no glass fibers, so free from health problems due to exposure to glass wool fibers.
- Anti-microbial media - prevents the growth of microorganisms.
- Water repellent & resistant to most chemicals.



1) DESIGN & CONSTRUCTION

All EXCELL-HVAC C-CELL utilizes 100% FIBER GLASS filter media developed from a modified melt blown process. The graded fiber density ensures coarse fibers upstream and fine fibers downstream giving optimum particle capture characteristics. This media is then taken through a manufacturing process which includes the addition of polypropylene separators to the pleated media which gives a unique V-configuration ensuring low initial resistance and longer life span. The pleated media is encased in a frame with proper bonding to provide 100% leak free operation. The final pleated filter is extremely durable with high compressive strength in the airflow direction. This durability also ensures that there is no damage to the pleats during transportation or installation.

2) ASHRAE RATING

Each filter of EXCELL-HVAC C-CELL series incorporates a large amount of filter media due to its mini-pleat (close pleats) design. For example, 4 sq ft panel filter with face dimension 24"X24" has about 10m filter area, which is more than that of a conventional high efficiency bag filter with same face area. EXCELL-HVAC C-CELL offers a significantly longer life span, extremely low-pressure drop and high filtration efficiency. Since the filter material is water repellent, the EXCELL-HVAC C-CELL can operate at extremely high humid conditions. It is not possible for the media to stick together when wet. So the related incalculable rise in pressure is avoided.

3) SPECIFICATIONS:

<b>Filter Name</b>	C-CELL FILTER
<b>Media</b>	FIBER GLASS
<b>Frame</b>	GALVANIZED STEEL/ ALUMINIUM
<b>Filter Depth</b>	1"/2"/4"
<b>Special Size available</b>	YES
<b>Maximum Operating temperature</b>	70° C
<b>Filter Class EN779:2012</b>	F6/F7/F8/F9
<b>Filter Class ASHRAE 52.2:2007</b>	MERV/12/13/14/15
<b>Certification</b>	UL-900



Nominal Size	Media Area	Rated flow Capacity ( CFM)			Initial Resistance (inches WG)					
					MERV8 35%/G4/EU4			MERV9 50%/G4/EU5		
Inches	(F)	250fpm	375fpm	500fpm						
24X24X4	108	1000	1500	2000	0.07	0.14	0.22	0.07	0.14	0.22
24X12X4	52	500	750	1000	0.07	0.14	0.22	0.07	0.14	0.22
24X20X4	90	830	1250	1660	0.07	0.14	0.22	0.07	0.14	0.22
24X48X4	220	2000	3000	4000	0.07	0.14	0.22	0.07	0.14	0.22
24X24X2	56	1000	1500	2000	0.08	0.16	0.24	0.08	0.16	0.24
24X12X2	27	500	750	1000	0.08	0.16	0.24	0.08	0.16	0.24
24X20X2	46	830	1250	1660	0.08	0.16	0.24	0.08	0.16	0.24
24X48X2	114	2000	3000	4000	0.08	0.16	0.24	0.08	0.16	0.24
24X24X1	42	1000	1500	2000	0.11	0.21	0.35	0.11	0.21	0.35
24X12X1	20	500	750	1000	0.11	0.21	0.35	0.11	0.21	0.35
24X20X1	34	830	1250	1660	0.11	0.21	0.35	0.11	0.21	0.35
24X48X1	88	2000	3000	4000	0.11	0.21	0.35	0.11	0.21	0.35

Nominal Size	Media Area	Initial Resistance (inches WG)											
		MERV12 65%/F6/EU8			MERV13 85%			MERV14 95%/F8/EU8			MERV15 98% /F9/EU9		
Inches	(F)												
24X24X4	108	0.14	0.23	0.35	0.18	0.30	0.45	0.25	0.42	0.60	0.28	0.47	0.68
24X12X4	52	0.14	0.23	0.35	0.18	0.30	0.45	0.25	0.42	0.60	0.28	0.47	0.68
24X20X4	90	0.14	0.23	0.35	0.18	0.30	0.45	0.25	0.42	0.60	0.28	0.47	0.68
24X48X4	220	0.14	0.23	0.35	0.18	0.30	0.45	0.25	0.42	0.60	0.28	0.47	0.68
24X24X2	56	0.15	0.26	0.43	0.25	0.45	0.72	0.31	0.54	0.81	0.34	0.61	0.93
24X12X2	27	0.15	0.26	0.43	0.25	0.45	0.72	0.31	0.54	0.81	0.34	0.61	0.93
24X20X2	46	0.15	0.26	0.43	0.25	0.45	0.72	0.31	0.54	0.81	0.34	0.61	0.93
24X48X2	114	0.15	0.26	0.43	0.25	0.45	0.72	0.31	0.54	0.81	0.34	0.61	0.93
24X24X1	42	0.31	0.55	0.89	0.58	-	-	0.63	-	-	0.69	-	-
24X12X1	20	0.31	0.55	0.89	0.58	-	-	1.63	-	-	1.69	-	-
24X20X1	34	0.31	0.55	0.89	0.58	-	-	2.63	-	-	2.69	-	-
24X48X1	88	0.31	0.55	0.89	0.58	-	-	3.63	-	-	3.69	-	-



PRODUCT DESCRIPTION

EXCELL-HVAC V-CELL extended surface air filter is another superior product from the EXCELLECT family of air filtration products. The unique design of EXCELL-HVAC V-CELL offers the user a wide spectrum of dust removal coupled with extremely low-pressure drop, the combination of these two values offer high performance filtration, highest energy savings and low operating costs.

Fabrication of V-Cell media packs in a multiple V-Bank arrangement substantially increases the amount of media contained in the filter. When compared to conventional Rigid or Cartridge type filters, EXCELL-HVAC V-CELL provides between 40% and 300% more surface area, assuring the user of abnormally long service life and economy of operation.

The rigid design with multiple mini-pleat media packs, Thermo Plastic separators all plastic cell sides and header make EXCELL-HVAC V-CELL filters ideally suited for the most difficult operating conditions. The V-Cell filters is offered in four distinct ASHRAE rated efficiency ranges. These include 65%, 85%, 95% and 98%.

This broad range of performance levels offers the user virtually every degree of required air cleanliness, the broad range of efficiencies assures the compatibility of V-Cell in virtually every applications.

IMPORTANT FEATURES

- Ideal for HVAC & Gas turbine applications.
- Low Pressure Drop.
- Very Large surface area.

1) DESIGN & CONSTRUCTION

EXCELL-HVAC V-CELL filters are designed to handle large airflow volumes per cell. The extremely low pressure drop, generated by the high ratio of media to filter face area, results in low media velocity and significant energy savings and low operating costs. The leak free construction offers guaranteed filter efficiency. The filter is extremely strong and durable, yet lightweight and easy to install.

EXCELL-HVAC V-CELL extended surface Air Filters are constructed from Ultra-fine synthetic media manufactured from a modified meltdown process. The graded fiber density ensures coarse fibers up stream and fine fibers downstream and giving optimum particle capturing characteristics.

The media is taken through a unique manufacturing process which includes addition of extruded polypropylene separators to the pleated media which gives uniform V-Configuration ensuring low resistance and a longer life span.

The mini-pleat media are bonded inside aesthetically pleasing polypropylene frame forming a completely unitized, rigid filter, that does not crack and resists damage during shipping and handling. The entire media pack is guaranteed leak free around the entire perimeter of the product.

2) ASHRAE RATING

EXCELL-HVAC V-CELL FILTERS are available in four distinct ASHRAE efficiency ranges to meet virtually any need. There are multiple face dimensions offered in each efficiency range. EXCELL-HVAC V-CELL FILTERS are furnished in a compact 12" nominal depth. Height and Width dimensions are inter changeable, as V-Cell filters may be installed with pleats in either vertical or horizontal directions. The product is totally Free from maintenance and is environmentally friendly being made from 100% polypropylene. The filter media is anti-microbial. This characteristic is a by-product of the manufacturing process and does not require addition of any chemicals.

3) SPECIFICATIONS:

Filter Name	V-CELL FILTER
Media	FIBER GLASS
Frame	Plastic
Filter Depth	12"
Special Size available	NO
Filter Class EN779:2012	F6 / F7 / F8 / F9
Filter Class ASHRAE 52.2:2007	MERV 12/13/14/15
Maximum Operating temperature	70° C
Certification	UL-900

Final resistance (In.WG)	Initial resistance (Inches WG)		Rated Airflow CFM		Size (nominal) Inches	EN779	EFFICIENCY	
	high	med	Vel @750fpm high	Vel @500fpm med			ASHRAE Dust pot	ASHRAE 52.2
1.5	0.70	0.53	3000	2000	24X24X12	F9	98%	MERV15
1.5	0.70	0.53	1250	1000	12X24X12	F9	98%	MERV15
1.5	0.58	0.41	3000	2000	24X24X12	F8	95%	MERV14
1.5	0.58	0.41	1250	1000	12X24X12	F8	95%	MERV14
1.5	0.50	0.36	3000	2000	24X24X12	F7	85%	MERV13
1.5	0.50	0.36	1250	1000	12X24X12	F7	85%	MERV13
1.5	0.36	0.28	3000	2000	24X24X12	F6	65%	MERV11
1.5	0.36	0.28	1250	1000	12X24X12	F6	65%	MERV11





### PRODUCT DESCRIPTION

EXCELL-HAVC RIGID PAC compact construction make RIGID PAC an ideal product for VAV (Variable Air Volume) system. They are ideally suited for commercial buildings, schools and universities, hospitals, as well as for industrial installations

### IMPORTANT FEATURES

- Rugged galvanized steel casing minimizes damage during shipping and handling.
- Units are available with or without header.
- Designed as a premium product for VAV systems.
- Energy effective - money saving

### 1) DESIGN & CONSTRUCTION

EXCELL-HAVC RIGID PAC filters are extended area filters constructed with a frame of galvanized steel for durability and long service life. Filter media consists of a single piece of certified high density, ultrafine glass or Synthetic Fibers. A non-woven synthetic backing is laminated to the air leaving side of the media. A fabricated metal grid with 98% open area provides the media additional support and rigidity. Permanently installed pleat contour stabilizers ensure that proper pleat configuration is maintained throughout the life of the filter.

### 2) ASHRAE RATING

Available in four certified and color-coded ASHRAE efficiencies.

MODEL	MEDIA COLOR	AVERAGE Avg. Eff. Ashrae 52.1-92
95	Yellow	90%-95%
85	Pink	85%-90%
65	Green	60%-65%
50	Orange	40%-50%

### 3) SPECIFICATIONS:

<b>Filter Name</b>	RIGID-PAC FILTER
<b>Media</b>	Synthetic fiber with laminated mesh.
<b>Frame</b>	Galvanized steel
<b>Filter Depth</b>	6"/12"
<b>Special Size available</b>	YES
<b>Filter Class EN779:2012</b>	F5/F6/F7/F8
<b>Filter Class ASHRAE 52.2:2007</b>	MERV 9/12/13/14
<b>Maximum Operating temperature</b>	70° C



Nomonal Size (inches)	Actual Size (inches)	CFM Medium	CFM High	Initial Resistance to Airflow. (Inches W.G)											
				95% /F8/MERV14		85%/F7/MERV13		65%/F6/MERV11		Model CRPF5					
				Med	High	Med	High	Med	High	Med	High	Med	High		
24x24x12	23-3/8x23-3/8x11-1/2	1000	2000	0.28	0.58	0.15	0.39	0.11	0.26	0.07	0.20	0.07	0.20		
12x24x12	11-3/8x23-3/8x11-1/2	500	1000	0.28	0.58	0.15	0.39	0.11	0.26	0.07	0.20	0.07	0.20		
24x20x12	23-3/8x19-3/8x11-1/2	850	1700	0.28	0.58	0.15	0.39	0.11	0.26	0.07	0.20	0.07	0.20		
12x12x12	11-3/8x11-3/8x11-1/2	250	500	0.28	0.58	0.15	0.39	0.11	0.26	0.07	0.20	0.07	0.20		
24x24x6	23-3/8x23-3/8x5-88	600	1200	0.24	0.48	0.12	0.25	0.09	0.16	0.05	0.12	0.05	0.12		
12x24x6	11-3/8x23-3/8x5-88	300	600	0.24	0.48	0.12	0.25	0.09	0.16	0.05	0.12	0.05	0.12		
24x20x6	23-3/8x19-3/8x5-88	475	950	0.24	0.48	0.12	0.25	0.09	0.16	0.06	0.12	0.06	0.12		
24x24x4	23-3/8x23-3/8x3.75	1000	2000	-	-	-	-	0.20	0.41	0.16	0.32	0.16	0.32		
12x24x4	11-3/8x23-3/8x3.75	500	1000	-	-	-	-	0.20	0.41	0.16	0.32	0.16	0.32		
24x20x4	23-3/8x19-3/8x3.75	850	1700	-	-	-	-	0.20	0.41	0.16	0.32	0.16	0.32		

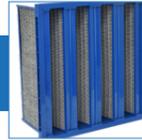


# SPECIAL FILTERS

**PURE AIR**

Fresh Natural Air

**exceff**-HVAC



PRODUCT DESCRIPTION

EXCELL-HVAC V-CELL CARBON extended surface air filter is another superior product from the EXCELLECT family of air filtration products. The unique design of EXCELL-HVAC V-CELL CARBON FILTER offers the user a wide spectrum of dust removal coupled with extremely low-pressure drop, the combination of these two values offer high performance filtration, highest energy savings and low operating costs.

Fabrication of V-Cell Carbon media packs in a multiple V-Bank arrangement substantially increases the amount of Carbon media contained in the filter. When compared to conventional Rigid or Cartridge type filters, EXCELL-HVAC V-CELL CARBON FILTER provides between 40% and 300% more surface area, assuring the user of abnormally long service life and economy of operation.

The rigid design with Carbon media packs, Thermo Plastic separators, all plastic cell sides and header make EXCELL-HVAC V-CELL CARBON FILTERS ideally suited for the most difficult operating conditions, The V-Cell filters are offered in four distinct ASHRAE rated efficiency ranges. These include 65%, 85%, 95% and 98%+.

This Carbon range of performance levels offers the user virtually every degree of required air cleanliness, these broad range of efficiencies assure the compatibility of V-Cell in virtually every applications.

IMPORTANT FEATURES

- Ideal for HVAC & Gas turbine applications.
- Low Pressure Drop.
- Very Large surface area.
- Remove odors.

1) DESIGN & CONSTRUCTION

EXCELL-HVAC V-CELL filters are designed to handle large airflow volumes per cell. The extremely low pressure drop, generated by the high ratio of media to filter face area, results in low media velocity and significant energy savings and low operating costs. The leak free construction offers guaranteed filter efficiency. The filter is extremely strong and durable, yet lightweight and easy to install,

EXCELL-HVAC V-CELL extended surface Air Filters are constructed from Ultra-fine synthetic media manufactured from a modified meltdown process. The graded fiber density ensures coarse fibers up stream and fine fibers downstream and giving optimum particle capturing characteristics.

The media is taken through a unique manufacturing process which includes addition of extruded polypropylene separators to the pleated media which gives uniform V-Configuration ensuring low resistance and a longer life span.

The mini-pleat media are bonded inside aesthetically pleasing polypropylene frame forming a completely unitized, rigid filters, that does not crack and resists damage during shipping and handling. The entire Carbon media pack is assured leak free around the entire perimeter of the product.

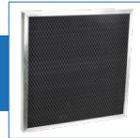
2) ASHRAE RATING

EXCELL-HVAC V-CELL CARBON FILTERS are available in four distinct ASHRAE efficiency ranges to meet virtually any need. There are multiple face dimensions offered in each efficiency range. EXCELL-HVAC V-CELL CARBON FILTERS are furnished in a compact 12" nominal depth. Height and Width dimensions are inter changeable, as V-Cell filters may be installed with pleats in either vertical or horizontal directions. The product is totally free from maintenance, and is environmentally friendly being made from 100% polypropylene. The filter Carbon Media is anti-microbial. This characteristic is a by-product of the manufacturing process and does not require addition of any chemicals.

3) SPECIFICATIONS:

<b>Filter Name</b>	V-CELL CARBON FILTER
<b>Media</b>	Synthetic Carbon
<b>Frame</b>	Plastic PVC
<b>Filter Depth</b>	12"
<b>Special Size available</b>	NO
<b>Filter Class EN779:2012</b>	F6 / F7 / F8 / F9
<b>Maximum Operating temperature</b>	70° C





PRODUCT DESCRIPTION

EXCELL-HVAC CARBON FILTER is used when undesirable gases, vapors, odors, or fumes are present. By means of its unique design, it provides an economically viable solution to many of the indoor air quality problems. EXCELL-HVAC CARBON FILTERS are panel type filters with excellent airflow properties.

IMPORTANT FEATURES

- Millions of square feet of adsorptive surface area per cubic feet of activated carbon.
- An economical solution to indoor air problems.
- Designed for effective cleaning of undesirable vapors, toxic gases.
- Combination of odor control with particulate filtration for improved indoor air quality.
- Top of the line construction



1) DESIGN & CONSTRUCTION

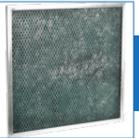
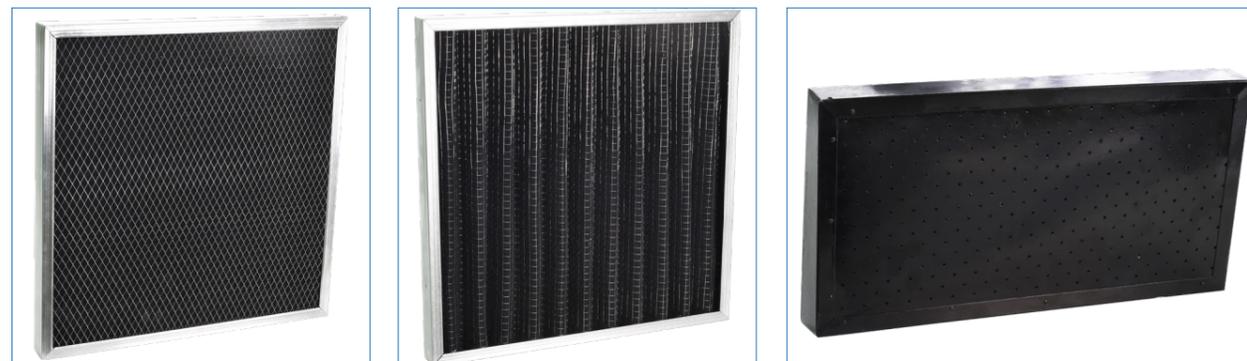
EXCELL-HVAC CARBON FILTERS employ a durable non-woven polyester base media, impregnated with activated charcoal. The unique combination of high quality activated carbon and polyester affords odor and particulate trapping efficiency, while maintaining excellent airflow properties. The media is enclosed in an aluminum frame with metal retainers on both sides for rigidity.

2) ASHRAE RATING

EXCELL-HVAC CARBON FILTERB supports the ASHRAE 52.1-92 methods as the professionally accepted standards for air filtration. The average arresance value 80%-85%

3) SPECIFICATIONS:

<b>Filter Name</b>	CARBON FILTER
<b>Media</b>	Nonwoven polyester activated, Carbon Granules
<b>Frame</b>	ALUMINIUM / GALVANIZED STEEL
<b>Filter Depth</b>	1"/2"/4"
<b>Special Size available</b>	YES
<b>Filter Class EN779:2012</b>	G3
<b>Filter Class ASHRAE 52.2:2007</b>	MERV 4
<b>Maximum Operating temperature</b>	40 C



PRODUCT DESCRIPTION

EXCELL-HVAC HOG HAIR FILTER is a washable filter. Media, manufactured from a select blend of many fine interconnected natural fibers, spun into a high loft, depth loading, fiber maze. The fibers are fully bonded together and firmly locked upon a rigid scrim net backing. This material is used in Swamp Coolers and Paint Booths as well as other filter applications. This material is available in 1" and 2" depths. EXCELL-HVAC HOG HAIR FILTER is used in schools, factories, office buildings, homes, hotels and motels and many other air handling applications.

IMPORTANT FEATURES

- Low cost permanent filters.
- Contains no glass fiber –a pleasure to handle.
- No oil coating-filters electrostatically.
- Excellent paint arrestor capability.
- Treated against bacterial growth.
- High dust holding capacity.
- Flexible, but rigid.
- Available with or without frame

1) DESIGN & CONSTRUCTION

Constructed of graduated density natural hair and vegetable fiber media backed with supporting scrim.

2) ASHRAE RATING

Average arresance 60-80%

3) SPECIFICATIONS:

<b>Filter Name</b>	HOG HAIR FILTER
<b>Media</b>	Hog Hair
<b>Frame</b>	ALUMINIUM / GALVANIZED STEEL
<b>Filter Depth</b>	1"/2"/4"
<b>Special Size available</b>	YES
<b>Maximum Operating temperature</b>	65°C
<b>Filter Class EN779:2012</b>	G2
<b>Filter Class ASHRAE 52.2:2007</b>	MERV 4





**PRODUCT DESCRIPTION**

EXCELL-HVAC Electrostatic Filters operate on a simple principle of Static Electricity. These unique filters remove up to 85% by weight of pollen, dust, mold, pet dander and other indoor pollutants. Available in various sizes, they are an excellent replacement for inefficient disposable air filters.

**IMPORTANT FEATURES**

- Easy to install.
- Simply remove your present filter and replace it with EXCELL-HVAC STAT.
- Easy to clean. Just use a vacuum cleaner, or water spray and rinse, drain and replace when dry.
- Drain holes are provided in the frame for easy drainage of water after cleaning.

**1) DESIGN & CONSTRUCTION**

- Retainers on both sides for rigidity.
- The unique design of EXCELL-HVAC STAT filter gives it higher efficiency and more dust holding capacity, with a lower resistance to airflow.
- Long lasting materials used in the construction of this filter makes it a “permanent” filter, which can be used, and reused for many years.
- Standard and custom sizes available in 1” and 2” nominal frame thickness.
- Non-allergenic media is unaffected by moisture or washing,

**2) ASHRAE RATING**

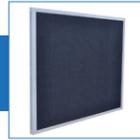
EXCELL-HVAC Electrostatic Filter supports the ASHRAE 52.1-92 methods as the professionally accepted standards for air filtration. The average arrestance value up to 80%-90%.

**3) SPECIFICATIONS:**

<b>Filter Name</b>	ELECTROSTATIC FILTER
<b>Media</b>	Washable flame-resistant polyester
<b>Frame</b>	ALUMINIUM / GALVANIZED STEEL/STAINLESS STEEL
<b>Filter Depth</b>	1 1/2" / 4"
<b>Special Size available</b>	YES
<b>Filter Class EN779:2012</b>	G3
<b>Filter Class ASHRAE 52.2:2007</b>	MERV 5
<b>Maximum Operating temperature</b>	40° C



Nominal Size	Actual Size	Rated CFM @FPM
10"x20"x1"	9-1/2x19-1/2x13/16	695
12"x24"x1"	11-1/2x23-1/2x13/16	1000
14"x20"x1"	13-1/2x19-1/2x13/16	972
14"x24"x1"	13-1/2x23-1/2x13/16	1167
14"x25"x1"	13-1/2x24-1/2x13/16	1215
15"x20"x1"	14-1/2x19-1/2x13/16	1042
16"x20"x1"	15-1/2x19-1/2x13/16	1112
16"x25"x1"	15-1/2x24-1/2x13/16	1388
18"x24"x1"	17-1/2x23-1/2x13/16	1500
20"x20"x1"	19-1/2x19-1/2x13/16	1388
20"x24"x1"	19-1/2x23-1/2x13/16	1667
20"x25"x1"	19-1/2x24-1/2x13/16	1737
24"x24"x1"	23-1/2x23-1/2x13/16	2000
25"x25"x1"	24-1/2x24-1/2x13/16	2170

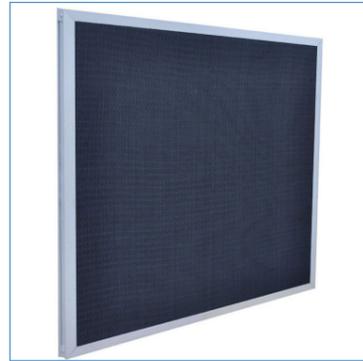


### PRODUCT DESCRIPTION

EXCELL-HVAC Nylon Filter is a hydrophilic yet solvent-resistant membrane, and therefore widely used for filtering aqueous solutions as well as organic solvents. These membranes are strong and flexible. Nylon net filters are unique because of their large, yet uniform pores

### IMPORTANT FEATURES

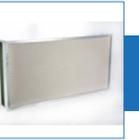
- Pre-filter and foreign material filtration in commercial and industrial ventilation system.
- Used for air conditioning system of clean rooms, pre-filtration of fresh air ventilation units
- Primary filtration of central air conditioning system.
- Pre-filtration at the inlet of air purification equipment.
- Air conditioning airflow distribution filtration
- Primary filtration in a filter system.



### 1) SPECIFICATIONS:

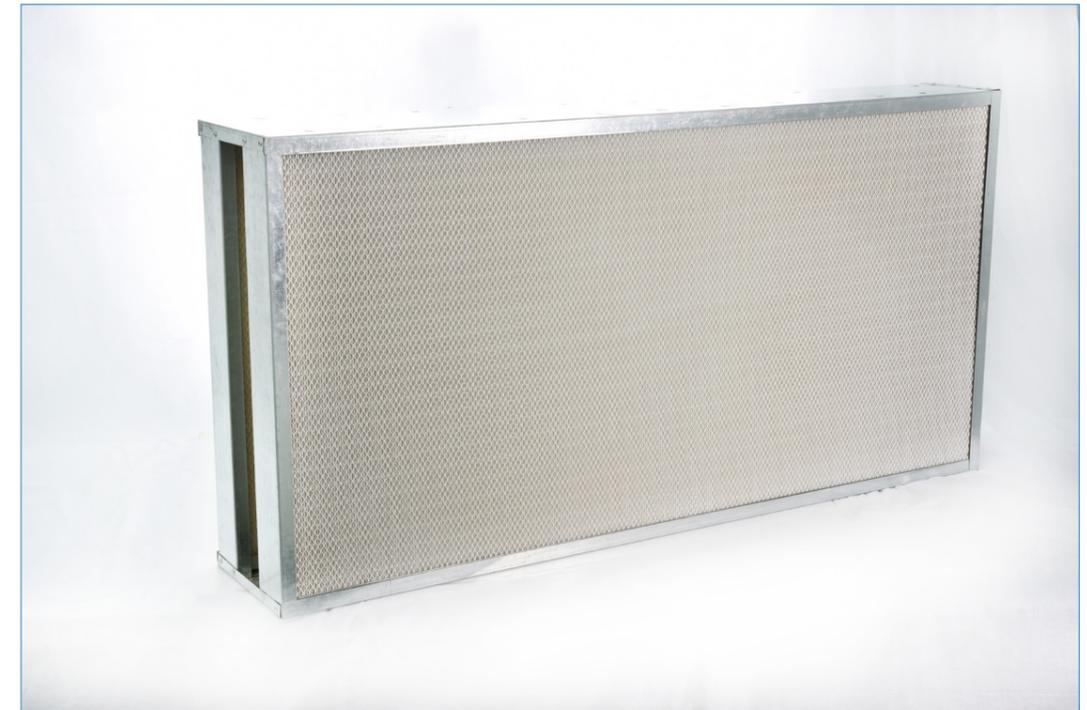
<b>Filter Name</b>	NYLON NET FILTER
<b>Media</b>	Black Nylon nets
<b>Frame</b>	ALUMINIUM / Galvanized STEEL
<b>Filter Class EN779:2012</b>	G4
<b>Filter Class ASHRAE 52.2:2007</b>	MERV 6
<b>Special Size available</b>	YES
<b>Maximum Operating temperature</b>	80° C

Size (WxHxD)	Air flow(M3/h)	Initial Resistance (≥Pa)	Media area (m2)
592X592X10	3200	20	0.7
592X287X10	1560	20	0.34
592X490X10	2650	20	0.58
592X592X21	3200	20	0.7
592X287X21	1560	20	0.34
592X490X21	2650	20	0.58
295X295X10	799	20	0.17
495X295X10	1341	20	0.29
495X495X10	2249	20	0.49
595X295X10	1611	20	0.35
560X515X10	2648	20	0.58
295X295X21	799	20	0.17
495X295X21	1341	20	0.29
595X495X8	2704	20	0.59
595X595X8	3250	20	0.71



### PRODUCT DESCRIPTION

EXCELL-HVAC Pack Filter is designed with a large surface area to guarantee a long operational life. With absolutely no change in pressure it offers a high flow rate to maintain an ideal performance. It is manufactured of high quality expanded mesh and hotmelt which provide it with a great durability and an optimum dust holding capacity especially in the desert areas in the Middle East. EXCELL-HVAC Pack Filter is used in wide range of applications like power plants and air entrance in refrigeration units.





**PRODUCT DESCRIPTION**

EXCELL-HVAC GREASE GUARD FILTER is designed as the ideal filter for extreme heat situations. EXCELL-HVAC GREASE GUARD filters are particularly suitable for the collection of grease and oil mist in kitchens, cafeterias and similar applications, because it reduces the risk of flash fires.

**IMPORTANT FEATURES**

- Aerodynamic design reduces fire hazard.
- Washable metallic filters.
- Heavy-duty design for high temperature commercial applications.
- No moving parts to loosen or break.
- Drain-off holes allow grease to continually drain and run-off from the filter.
- Top of all line design available in Aluminum or Stainless Steel.

**1) DESIGN & CONSTRUCTION**

EXCELL-HVAC GREASE GUARD filters are constructed of nonrusting, heavy-duty metal for rigorous commercial kitchen use. Enclosing frame of EXCELL-HVAC GUARD filters are of the same corrosion resistant metal with drain-off holes to drain out grease from the filter.

**2) ASHRAE RATING**

EXCELL-HVAC GREASE GUARD supports the ASHRAE 52.1-92 methods as the professionally accepted standards for air filtration. The average arrestance value up to 80%-85%.

**3) SPECIFICATIONS:**

<b>Filter Name</b>	GREASE GUARD FILTER
<b>Media</b>	ALUMINIUM / STAINLESS STEEL
<b>Frame</b>	ALUMINIUM / STAINLESS STEEL
<b>Filter Depth</b>	2"
<b>Filter Class EN779:2012</b>	G3
<b>Filter Class ASHRAE 52.2:2007</b>	MERV 5
<b>Special Size available</b>	YES
<b>Maximum Operating temperature</b>	177° C

Nominal Size(inches)	Actual Size (inches)	Capacity CFM300 FPM	Net Area (Sq.Ft.)
10x20x2	9.5x19.5x1.75	300	1.0
12x20x2	11.5x19.5x1.75	375	1.25
16x20x2	15.5x19.5x1.75	525	1.75
16x25x2	15.5x24.5x1.75	675	2.24
20x20x2	19.5x19.5x1.75	675	2.25
20x25x2	19.5x24.5x1.75	865	2.88





# HEPA FILTERS

**PURE AIR**  
FOR HOSPITAL SOLUTIONS

**exceii**-HVAC



### PRODUCT DESCRIPTION

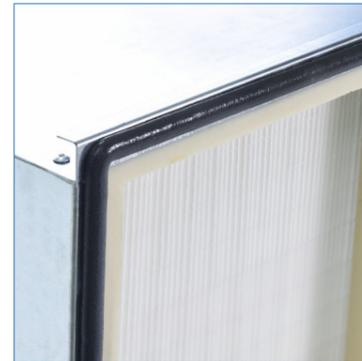
EXCELL-HVAC HEPA MINIPLAAT FILTERS. These filters are of low-depth construction and use very close pleating of the medium, with separation of the pleats achieved by means of continuous, narrow beads of a special hot-melt compound. Typically, a mini-pleat filter has similar airflow/pressure drop characteristics to a conventional filter of the same face dimensions, but has only one third of the depth of the conventional filter. Their lightweight and compact dimensions make them the preferred selection for laminar flow cleanrooms and low-profile ceiling modules.

### Features and benefits

- Suitable for turbulent flows.
- Mini-Pleat box type filters as an alternative design to aluminum separator style filters for increased airflow lower pressure drops.
- Finely pleated, water repellent micro glass fiber media & thermosetting bead separators.
- Two part urethane sealant.
- Wood and Metal construction
- Efficiencies: 99.99 % To 99.999% on 0.3 micron. H13-H14.

### 2) Applications:

- Clean rooms
- Hospital operating theatres
- Biological containment laboratories
- Laminar flow clean benches and safety cabinets
- Food processing plants
- Research laboratories



### 3) SPECIFICATIONS:

<b>Filter Name</b>	HEPA MINIPLAAT
<b>Media</b>	Fiber glass
<b>Frame</b>	EXTRUDED ALUMINUM /GI/PARTICLE BOARD
<b>Filter Depth</b>	Various
<b>Special Size available</b>	YES
<b>Separator Style</b>	Hot melt
<b>Gasket</b>	Endless gasket
<b>Filter Class EN779:2012</b>	H13 / H14
<b>Maximum Operating temperature</b>	65° C



FILTER SIZES	Nominal Depth (Inch)	Airflow: CFM @ 0.5"WG	
		MP2 (H13)	MP3 (H14)
125/250	150/295	6/12.	12X12
245/495	290/285	6/12.	12X24
410/825	490/975	6/12.	20X24
500/900	590/1170	6/12.	24X24
620/1360	730/1600	6/12.	30X24
750	875	6	36X24
1000	1170	6	48X24
1250	1475	6	60X24

PRODUCT DESCRIPTION and Design

EXCELL-HVAC HEPA LFD FILTERS. These mini pleat panel filters are of low-depth construction and use very close pleating of the media, with separation of the pleats achieved by means of continuous, narrow beads of a special hot-melt compound. Typically EXCELL-HVAC HEPA LFD FILTER has similar airflow/pressure drop characteristics to a conventional filter of the same face dimensions, but has only one third of the depth of the conventional filter. Their lightweight and compact dimensions make them the preferred selection for laminar flow cleanrooms and low-profile ceiling modules

Features and benefits

- Available in efficiencies 95% ,98%, 99.97%, 99.99%, 99.999% on 0.3 micron & 99.9995% @ .12 micron particles ( H10 to U15)
- Mini-Pleat panel filters designed for use in laminar flow clean rooms & clean work benches.
- Finely pleated, water repellent micro glass fiber media & thermosetting bead separators.
- Two part urethane sealant Wood and Metal constructions.

2) Applications:

- Clean rooms
- Biological containment laboratories
- Food processing plants
- Research laboratories
- Hospital operating theatres
- Laminar flow clean benches and safety cabinets

3) SPECIFICATIONS:

<b>Filter Name</b>	HEPA LFD
<b>Media</b>	Fiber glass
<b>Frame</b>	EXTRUDED ALUMINUM /GI/PARTICLE BOARD
<b>Filter Depth</b>	Various
<b>Special Size available</b>	YES
<b>Separator Style</b>	Hot melt
<b>Gasket</b>	Endless gasket
<b>Maximum Operating temperature</b>	105° C
<b>Filter Class EN779:2012</b>	H-13 to U15

FILTER SIZES	Nominal Depth (Inch)	LFD1*(H11)	LFD2*(H13)	LFD3*(H14)	LFD4*(U15)
Wxh(inches)	LFD	23 WG	36 WG	40 WG	48 WG
12X12	3	100	100	100	100
12X24	3	200	200	200	200
20X24	3	330	330	330	330
24X24	3	400	400	400	400
30X24	3	500	500	500	500
36X24	3	600	600	600	600
48X24	3	1000	1000	1000	1000
60X24	3	1250	1250	1250	1250

PRODUCT DESCRIPTION and Design

EXCELL HVAC HIGH VOLUME FILTER is assembled by multiple mini-pleat packs formed into six to eight packs of V- type pleat. It contains up to 90% more media than the standard HEPA SC filter. And it can easily remove air contamination such as fine dust, smoke, vapor, soot, pollen, bacteria and etc. The effective media area results in greater flow capacity, lower resistance, and longer life span. With high capacity, low-pressure drop & longer life span advantages, EXCELL HVAC HIGH VOLUME FILTERS can be used to replace the traditional aluminum separator filters.

Features and benefits

- Efficiencies: 99.97%, 99.99%, 99.999% down to 0.3 micron. H13 & H14.
- Water repellent micro fine glass fiber paper media.
- Media packs arranged in a perfect V-shape offering lowest pressure drop.
- Two part urethane sealant.
- Metal construction.
- With or without header frame.

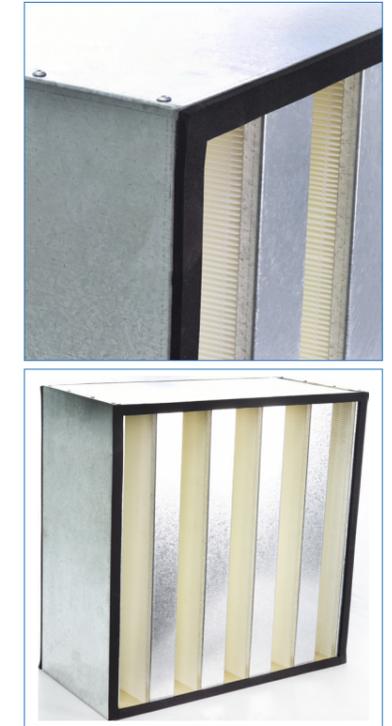
1) Applications:

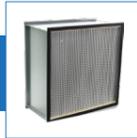
- Clean rooms
- Hospital operating theatres
- Biological containment laboratories
- Laminar flow clean benches and safety cabinets
- Food processing plants
- Research laboratories

2) SPECIFICATIONS:

<b>Filter Name</b>	HEPA HIGH VOLUME
<b>Media</b>	Glass fiber paper
<b>Frame</b>	Galvanized steel
<b>Filter Depth</b>	6"/12"
<b>Special Size available</b>	YES
<b>Maximum Operating temperature</b>	70° C
<b>Gasket</b>	Endless polyurethane gasket
<b>Filter Class EN779:2012</b>	H13 /H14

FILTER SIZES	Nominal Depth (Inch)	Airflow: CFM @ 0.5"WG		Airflow: CFM @ 1"WG		
		Wxh(inches)	HIGH VOLUME	(H-11)	(H-13)	(H-14)
12X12	12			500	500	390
12X24	12			1000	1000	810
20X24	12			1665	1665	1280
24X24	12			2000	2000	1540
30X24	12			2500	2500	1925





PRODUCT DESCRIPTION

EXCELL-HVAC HEPA SC FILTERS are designed to meet the critical filtration requirements where airborne contaminants can cause damage in manufacturing processes or may cause health hazards.

Only materials that meet our stringent quality standards are utilized. All manufacturing steps are closely monitored to ensure that every filter will perform as expected.

EXCELL-HVAC HEPA SC FILTERS are available in a variety of framing materials, which include particle board, extruded aluminum, stainless steel and galvanized steel. The gasket type sealing frames are available in double turned flange (DTF), and single header styles in metal, and box and single header styles in particle board.

EXCELL-HVAC HEPA SC FILTERS are certified to be a minimum of 99.97% @ 0.3 µm particles and meet the requirements. EXCELL-HVAC HEPA SC FILTERS are constructed to perform at temperatures up to 104°C at 100% relative humidity.

IMPORTANT FEATURES

- Deep pleated micro fine glass fiber paper media.
- Corrugated aluminum separators having hemmed edges.
- Two part urethane sealant.
- Particle board and Metal constructions.
- With or without header frame.
- Efficiencies: 99.97%, 99.99% and 99.999% down to 0.3 µm particles H12, H13 and H14 as per EN 1822.

1) DESIGN & CONSTRUCTION

Standard EXCELL-HVAC HEPA SC FILTERS are constructed with a metal galvanized frame. Styles are available with single inward turned flange, single outward turned flange or double turned flanges. Frame materials available are fire retardant wood particle board, plywood, and a variety of metals which include zinc-coated steel, stainless steel and extruded aluminum. All wooden frames have rabbeted joints for secure seal and ridged construction.

The filter pack consists of a continuous sheet of pleated micro glass-fiber media. Controlled pleat spacing is maintained by corrugated aluminum separators. The filter pack is secured to the top and bottom of the frame utilizing a two-part high-density fire retardant urethane adhesive.

The adjacent sides are secured using a self-extinguishing rubber based adhesive. A closed cell neoprene gasket is supplied standard on one side. All EXCELL-HVAC HEPA SC FILTERS are constructed with metal frames or fire retardant wood particle board, and meet the requirements of UL-900.

EXCELL-HVAC HEPA SC FILTERS are constructed to perform at temperature up to 104° C and at 100% relative humidity.

Pre-Filtration

It is recommended that in systems where the air contains a number of large particles, pre filters should be placed ahead of the EXCELL-HVAC HEPA SC FILTERS. This can increase the life greatly, depending upon the efficiency of the pre filter

2) Applications:

- o Precision Assembly Areas.
- o Pharmaceutical Plants.
- o Food and Beverage Processing Plants.
- o Research Laboratories Photographic Plants and Laboratories.
- o Nuclear Operations.
- o To provide dust free air.
- o To remove pathogenic organisms and mold spores.
- o To remove radioactive or toxic dust.

3) SPECIFICATIONS:

Filter Name	HEPA SC
Media	Fiber glass paper
Frame	Galvanized steel/Particle Board/SS/Alum
Filter Depth	6"/12"
Special Size available	YES
Separator Style	Aluminum foil
Sealant	Polypropylene
Filter Class EN779:2012	H13/ H14
Maximum Operating temperature	105° C

Nominal Size	Actual Size	AIR FLOW CAPACITY (CFM) @ 1" WG	
		99.97 /99.99%	99.999
24x24x12	23-3/8x23-3/8x11-1/2	1200/1140	1000/950
12x24x12	11-3/8x23-3/8x11-1/2	570/540	475/440
24x30x12	23-3/8x29-3/8x11-1/2	1525/1460	1270/1210
24x24x12	23-3/8x23-3/8x5-7/8	670/635	550/525
12x24x12	11-3/8x23-3/8x5-7/8	317/295	260/240





PRODUCT DESCRIPTION

EXCELL-HVAC HEPA HC FILTER (High Capacity) was developed for areas demanding high efficiency particulate air (HEPA) filter applications.

EXCELL-HVAC HEPA HC FILTER is constructed with a robust, aluminum light weight frame, together with our proven technology, EXCELL-HVAC HEPA HC offers the ultimate in security for the most critical and challenging environments.

Features and benefits

EXCELL-HVAC HEPA HC not only provides security, but also offers the lowest total operating costs of any high efficiency filter available today.

- Higher airflows require less hardware and filters.
- Lower pressure drop, conserves energy.
- High dust-holding capacity allows for fewer filter change outs.
- Minimizes total operating costs.
- H-13/H-14 – 375 FM @ 1" WG.
- Efficiencies: 99.99% & 99.999% down to 0.3µ particles H13 & H14 as per EN 1822.
- Deep pleated micro fine glass fiber paper media.
- Corrugated aluminum separators having hemmed edges.
- Two part urethane sealant.
- Wood and Metal constructions.
- With or without header frame

1) DESIGN & CONSTRUCTION

EXCELL-HVAC HEPA HC FILTERS are constructed with a metal galvanized frame. Styles are available with single inward turned flange, single outward turned flange or double turned flanges. Frame materials also available are fire retardant wood particle board, plywood, and a variety of metals which include zinc-coated steel, stainless steel and aluminum. All wood frames have rabbeted joints for secure seal and ridged construction.

The filter pack consists of a continuous sheet of pleated micro glass-fiber media. Controlled pleat spacing is maintained by corrugated aluminum separators. The filter pack is secured to the top and bottom of the frame utilizing a two-part high-density fire retardant urethane adhesive.

The adjacent sides are secured using a self-extinguishing rubber based adhesive. A closed cell neoprene gasket is supplied standard on one side. All EXCELL-HVAC HEPA HC filters constructed with metal frames or fire retardant wood particle board meet the requirements of UL-900.

EXCELL-HVAC HEPA HC FILTERS are constructed to perform at temperature up to 105° C and at 100% relative humidity.

2) Applications:

EXCELL-HVAC HEPA HC FILTER removes a broad range of airborne contaminants including fine dust, smoke, bacteria, viruses, soot, pollen and radioactive particles. This filter is widely used to replace all conventional aluminum separator HEPA filters and other high efficiency HEPA products.

- EXCELL-HVAC HEPA HC FILTER applications include electronic, nuclear, pharmaceutical, hospital, laboratory, aerospace, food processing and optics.
- EXCELL-HVAC HEPA HC FILTERS are to be used along with Pre-Filters.

3) SPECIFICATIONS:

<b>Filter Name</b>	HEPA SC
<b>Media</b>	Fiber glass paper
<b>Frame</b>	Galvanized steel/Particle Board/SS/Alum
<b>Filter Depth</b>	6"/12"
<b>Special Size available</b>	YES
<b>Separator Style</b>	Aluminum foil
<b>Sealant</b>	Polypropylene
<b>Filter Class EN779:2012</b>	H13/H14
<b>Maximum Operating temperature</b>	105° C

Nominal Size	Actual Size	AIR FLOW CAPACITY (CFM) @ 1" WG	
		99.99%	99.999
24x24x12	23-3/8x23-3/8x11-1/2	1700/1615	1400/1325
12x24x12	11-3/8x23-3/8x11-1/2	805/765	556/360
24x30x12	23-3/8x29-3/8x11-1/2	2160/2050	1780/1685
24x24x12	23-3/8x23-3/8x5-7/8	900/855	750/715
12x24x12	11-3/8x23-3/8x5-7/8	425/395	360/335





PRODUCT DESCRIPTION and Design

EXCELL-HVAC HEPA BIO FILTERS are designed with continuous sheet of special micro fine glass-fiber filter medium is pleated into a vee configuration with corrugated aluminum separators inserted between the pleats. This forms the filter element, which is bonded into a rigid corrosion-resistant steel frame with all joints encapsulated and sealed in a special urethane elastomer. Standard filters have a closed-cell neoprene gasket on the air-leaving side, and filters for fluid seal installation have an extended frame with a 60 mm skirt to engage the sealant channel. Filters are produced in a wide range of face dimensions and in two standard depths of 150 mm and 300 mm nominal.

Features and benefits

- Efficiency 95% & 98% down to 0.3micron particles ( H10 & H11 as per EN 1822).
- Deep pleated micro fine glass fiber paper media.
- Corrugated aluminum separators having hemmed edges.
- Two part urethane sealant.
- Wood and Metal constructions.
- With or without header frame.

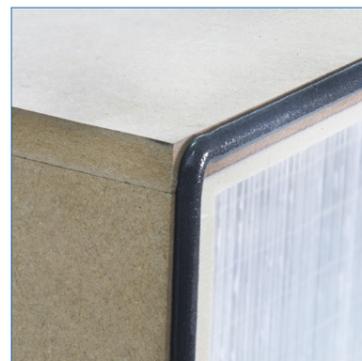
2) Applications:

- Clean rooms
- Hospital operating theatres
- Biological containment laboratories
- Laminar flow clean benches and safety cabinets
- Food processing plants.
- Research laboratories

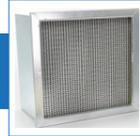


3) SPECIFICATIONS:

<b>Filter Name</b>	HEPA BIO
<b>Media</b>	Fiber glass paper
<b>Frame</b>	Galvanized steel/ Particle Board
<b>Filter Depth</b>	6"/12"
<b>Special Size available</b>	YES
<b>Separator Style</b>	Aluminum foil
<b>Sealant</b>	Polypropylene
<b>Filter Class EN779:2012</b>	H10/ H11
<b>Maximum Operating temperature</b>	105° C



Nominal Size	Actual Size	AIR FLOW CAPACITY (CFM) @ 1" WG
		95% & 98% DOP
24x24x12	23-3/8x23-3/8x11-1/2	2000/1900
12x24x12	11-3/8x23-3/8x11-1/2	1000/925
24x30x12	23-3/8x29-3/8x11-1/2	2500/2380
24x24x12	23-3/8x23-3/8x5-7/8	1000/925
12x24x12	11-3/8x23-3/8x5-7/8	500/460



PRODUCT DESCRIPTION

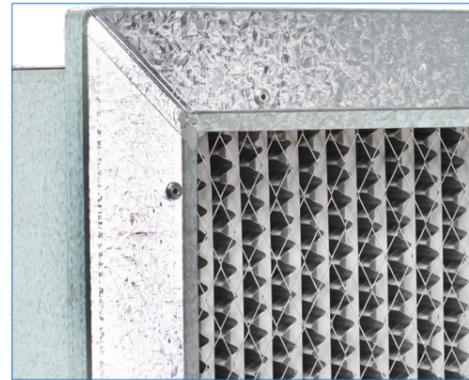
EXCELL-HVAC ASHRAE-CELL FILTERS provide high efficiency filtration where a clean air environment is a necessity. This includes Hospitals, laboratories, Office Buildings, Food and Beverage Processing plants, etc.

Since filter performance does not get significantly affected by changing air velocity or repeated fan shutdown, making it the ideal filter choice for variable volume systems. EXCELL-HVAC ASHRAE-CELL makes upgrading of an existing filtration system simple.

EXCELL-HVAC ASHRAE-CELL can be easily installed where lower efficiency filters no longer meet the filtration needs.

IMPORTANT FEATURES

- Commercial Buildings.
- Data Centers
- Food and Beverage
- Healthcare
- Hospitality
- Industrial
- Microelectronics
- Museums & Historic Storage
- Pharmaceutical
- Schools and Universities



1) DESIGN & CONSTRUCTION

EXCELL-HVAC ASHRAE-CELL filter is constructed of high strength water resistant glass micro-fiber paper in a pleated design. A corrugated aluminum separator is placed between each pleat of media to prevent the pleats from touching.

This allows free flow of air into and through the filter. The separators also add rigidity to the construction

The front and rear edges of the separators are rolled over to eliminate sharp edges that could damage the media during shipping and handling.

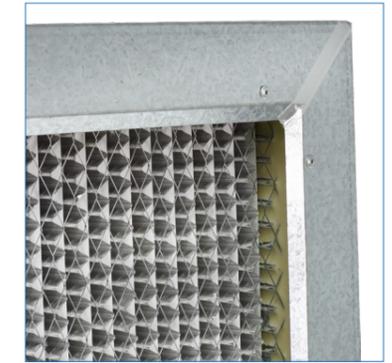
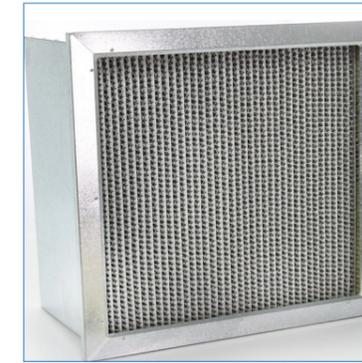
The media pack is installed into a heavy 0.50mm galvanized steel enclosure frame. A sealant is then applied to provide a positive seal between the media and the frame. Optional face guards are available on the air entering or air leaving sides of the filter upon request.

2) ASHRAE RATING

The ASHRAE-CELL is available in three efficiency ranges  
 ASHRAE test standard 52.1-1992: 98%, 95%, 85% and 65%,  
 ASHRAE test standard 52.2-2007: MERV 15, 14, 13 and 12

3) SPECIFICATIONS:

Filter Name	ASHRAE CELL FILTER
Media	MICROFINE GLASS FIBER
Frame	GALVANISED STEEL
Filter Depth	6"/12"
Special Size available	YES
Maximum Operating temperature	90° C
Filter Class EN779:2012	F6/F7/F8
Filter Class ASHRAE 52.2:2007	MERV 12/13/14
Certification	UL-900



Nominal Size (inches)	Airflow capacity (CFM)	EXCELL-HVAC ASHRAE CELL			EXCELL-HVAC GT CELL		
		Initial Resistance			Initial Resistance		
		95% /F8/EU8	85% /F7/EU7	65% /F6/EU6	95% /F8/EU8	85% /F7/EU7	65% /F6/EU6
24X24X12	2000	0.55/0.60	0.43/0.52	0.32/0.38	0.56	0.52	0.38
24X12X12	1000	0.55/0.60	0.43/0.52	0.32/0.38	0.56	0.52	0.38
24X24X6	1000	0.45/0.50	0.38/0.42	0.22/0.26	-	-	-
24X12X6	500	0.45/0.50	0.38/0.42	0.22/0.26	-	-	-



**RAW  
MATERIALS**

**PURE AIR**

FINE RAW MATERIALS

**exceit**-HVAC

### ALUMINIUM EXPANDED MEDIA

Aluminum expanded media is made of multiple layers of aluminum-slit material, expanded into a mesh of differing densities with hundreds of small baffles on the surface. There are 7 layers for 1/4" thick media and 9 layers for 5/8" thick media. Available in rolls of 50' length for 1/4" and 5/8" thicknesses, and in sheets of 40" x 64" size and 5/8" thickness.



### FIBERGLASS MEDIA FOR PREFILTERS

Glass fiber media have high dust holding capacity and low pressure drop. They are available in rolls of 200' length and various thicknesses. Country of origin is USA



### SYNTHETIC POCKET MEDIA

Synthetic media for pocket filters consists of 9-layers of superfine high-efficiency material, offering excellent filtration and high dust holding capacity. The media is available in all efficiencies from 98% White, 95% Yellow, 85% Pink, 65% Green and 45% Beige, thus being suitable for all types of requirements. Rolls come in standard size of 670 mm wide and 150 meter long.



### FIBERGLASS POCKET MEDIA

Fiberglass media for pocket filters is made from 100% continuous filaments of spun glass which are bonded with a thermosetting resin. The media is available in efficiencies of 95%, 85%, 65% and 45%. Rolls originate from USA, and come in standard size of 26" width and 500' length.



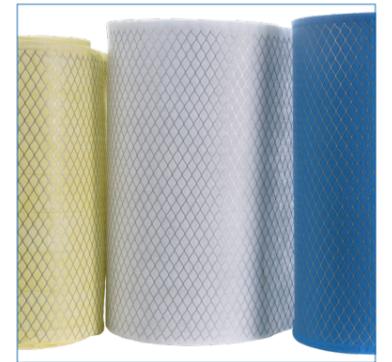
### CARBON MEDIA

Carbon media is made of non-woven polyester fiber impregnated with high quality activated carbon. They are effective in capturing unpleasant gases, odors or fumes from locations like kitchens, effluent-treatment plants and non-vented areas. Available in rolls 50' long, and originate from USA.



### LAMINATED PLEATED MEDIA

This media is high-loft reinforced non-woven cotton-synthetic blend media, and is laminated onto an expanded metal grid. Available in rolls of 150 meters length and various widths..



### HOG HAIR MEDIA

Hog Hair media is made from a select blend of fine interconnected natural fibers, spun into a high loft. The fibers are bonded and firmly locked upon a rigid scrim net backing. The media is used in Swamp Coolers and Paint Booths as well as other filter applications. Hog Hair media is available in rolls 1/2", 1" and 2" thick, and 25" width.



### SYNTHETIC POLYFIBER ROLL MEDIA

High dust holding Synthetic Polyfiber media are available in rolls of 12, 20 and 50 mm thickness, and length of 20 meters.



A wide-angle photograph of a modern, empty office space. The room features a white grid ceiling with several square recessed light fixtures and air vents. A long row of windows runs along the back wall, providing a view of an urban environment. The floor is a light-colored, polished material that reflects the overhead lights. The overall atmosphere is clean, bright, and professional.

# AIR TERMINALS

PURE AIR

exceit-HVAC

## TERMINAL UNITS

EXCELL-HVAC offers a wide range of articles dedicated to match the most demanding requirements in the in-door sector.

This industry requires high standard of air purification efficiency obtainable only with quality materials and manufactures, quality that EXCELL-HVAC offers in its products for OEM.

## MAIN APPLICATIONS

Very appreciated in all those environments where high performance solutions are sought with high quality and aesthetic high quality.

Used mainly in Cleanroom in hospital sector and in research centers, these devices are capable of generating both laminar and turbulent airflow as required.

The solution offered by EXCELL-HVAC makes it possible to replace the individual filters with both polyurethane foam and gel seal.

Terminal units made by EXCELL-HVAC, are manufactured in single-piece

Or two-piece in large cases,

This constructive design minimizes filtering by-pass possibilities and greatly simplifies the installation phase, result-ing in economical savings

### Features:

Available in several finish and materials

Powder coated steel or stainless steel.

Satin finish: sb

Glossy finish: ba

Raw finish zb

Powder coated finish RAL 9010

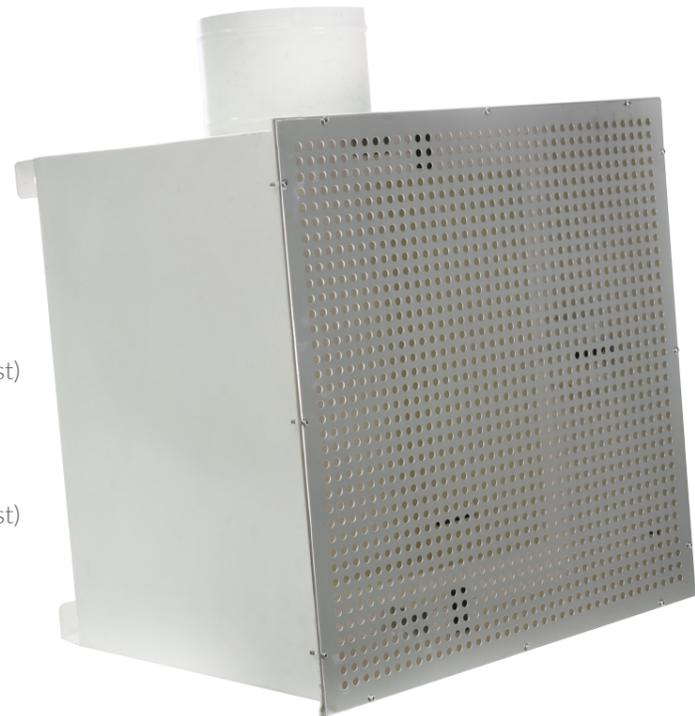
### Carbon Steel

Powder coated finish RaL 9010 (customization on request)

### Aluminum 6060

#### Raw finish

Powder coated finish RaL 9010 (customization on request)



EXCELL-HVAC