AEROCEL®

APPLICATION

The rigid design and pleated media pack with aluminum separators enable AEROCEL Compact filters to operate at specified performance levels in systems with difficult operating conditions:

- ❑ Variable air volumes
- ❑ Turbulent air flow
- ❑ Repeated fan shutdown
- ❑ High temperature
- ❑ High humidity
- ❑ Intermittent exposure to water

The filter efficiency is not noticeably affected by changes in air velocities or repeated fan shutdown. AEROCEL Filters can easily be installed in systems with front, rear and side access because of its construction short depth. It is used and suitable for improving old existing air filter units. Mostly used in pharmaceutical plants and hospitals.

CONSTRUCTION

The galvanized steel header and cell sides provide a sturdy construction that prevents damage to the filter during shipping and handling. A shock absorbing glass sealant is placed between he media pack and cell sides which allows for a slight motion of the media pack. This was designed to prevent damage to the media. It also provides a positive air seal to ensure that unfiltered air does not by-pass the media pack.

The galvanized components are corrosion resistant during the entire service life of the filter. A horizontal bar is fastened across the air leaving side of the filter to retain the media pack at higher resistance levels

.

SEPARATOR

Corrugated aluminum separators maintain uniform spacing between pleats allowing for optimal air flow into and through filter. They also ensure large effective media area for low resistance and high dust holding capacity.

OPERATING TEMPERATURE

All AEROCEL filters can operate at temperatures up to 150°C, as long as the recommended final resistance is not exceed.

MEDIA

Each of the three grades is achieved by an exclusive high efficiency media made of submicron glass fibers formed into a high density paper. Continuos sheets are pleated and separated to provide a high ratio of media to face area. This results in a lower resistance and a lower velocity through the media performance properties that are essential for high efficiency filtration. AEROCEL media is both water resistant and fire retardant. The media can withstand intermittent exposure to water. when wet, there will be a temporary rise in resistance, which will return to normal as the moisture evaporates.

SHORT FILTER DEPTHS SAVE SPACE

AEROCEL filter size 594x594 mm for 3400 m^3/h air flow are only 292mm deep and AEROCELS, size 594x594mm for 1700m^3/h air flow are only 149mm deep. These short depths are particularly valuable when building design specifications limit the space available for the air filtration system. Because of these short depths AEROCEL filters can be completely enclosed in a side access housing.

UNDERWRITERS LABORATORIES INC LISTING

AEROCEL filters are class 1 approved when tested according to U.L. Standard 900.

AEROCEL®

TECHNICAL DATA

90-95% AVERAGE EFFICIENCY						
MODEL NO	RATED FILTER FACE VELOCITY (FPM)	NOMINAL SIZE (INCHES)	RATED AIR FLOW CAPACITY (CFM)	INITIAL RESISTANCE (INCH W.G.)	FINAL RESISTANCE (INCH W.G.)	GROSS MEDIA AREA (SQ.FT)
DARO64-12242	500	12 x 24 x 12	1000	0.60	1.5	62
DARO64-16252	500	16 x 25 x 12	1400	0.60	1.5	93
DARO64-20242	500	20 x 24 x 12	1650	0.60	1.5	115
DARO64-24242	500	24 x 24 x 12	2000	0.60	1.5	141
DARO64-12241	250	12 x 24 x 6	500	0.35	1.2	29
DARO64-16251	250	16 x 25 x 6	700	0.35	1.2	44
DARO64-20241	250	20 x 24 x 6	825	0.35	1.2	55
DARO64-24241	250	24 x 24 x 6	1000	0.35	1.2	67
DARO64-24243	250	24 x 24 x 5	2000	0.80	1.2	92
DARO64-12243	250	12 x 24 x 5	1000	0.80	1.2	55

80-85% AVERAGE EFFICIENCY						
MODEL NO	RATED FILTER FACE VELOCITY (FPM)	NOMINAL SIZE (INCHES)	RATED AIR FLOW CAPACITY (CFM)	INITIAL RESISTANCE (INCH W.G.)	FINAL RESISTANCE (INCH W.G.)	GROSS MEDIA AREA (SQ.FT)
DARO63-12242	500	12 x 24 x 12	1000	0.55	1.5	47
DARO63-16252	500	16 x 25 x 12	1400	0.55	1.5	70
DARO63-20242	500	20 x 24 x 12	1650	0.55	1.5	86
DARO63-24242	500	24 x 24 x 12	2000	0.55	1.5	105
DARO63-12241	250	12 x 24 x 6	500	0.35	1.2	22
DARO63-16251	250	16 x 25 x 6	700	0.35	1.2	33
DARO63-20241	250	20 x 24 x 6	825	0.35	1.2	41
DARO63-24241	250	24 x 24 x 6	1000	0.35	1.2	50

60-65% AVERAGE EFFICIENCY						
MODEL NO	RATED FILTER FACE VELOCITY (FPM)	NOMINAL SIZE (INCHES)	RATED AIR FLOW CAPACITY (CFM)	INITIAL RESISTANCE (INCH W.G.)	FINAL RESISTANCE (INCH W.G.)	GROSS MEDIA AREA (SQ.FT)
DARO62-12242	500	12 x 24 x 12	1000	0.50	1.5	47
DARO62-16252	500	16 x 25 x 12	1400	0.50	1.5	70
DARO62-20242	500	20 x 24 x 12	1650	0.50	1.5	86
DARO62-24242	500	24 x 24 x 12	2000	0.50	1.5	105
DARO62-12241	250	12 x 24 x 6	500	0.20	1.2	22
DARO62-16251	250	16 x 25 x 6	700	0.20	1.2	33
DARO62-20241	250	20 x 24 x 6	825	0.20	1.2	41
DARO62-24241	250	24 x 24 x 6	1000	0.20	1.2	50

* Filters can be operated up to 125% of rated face velocity

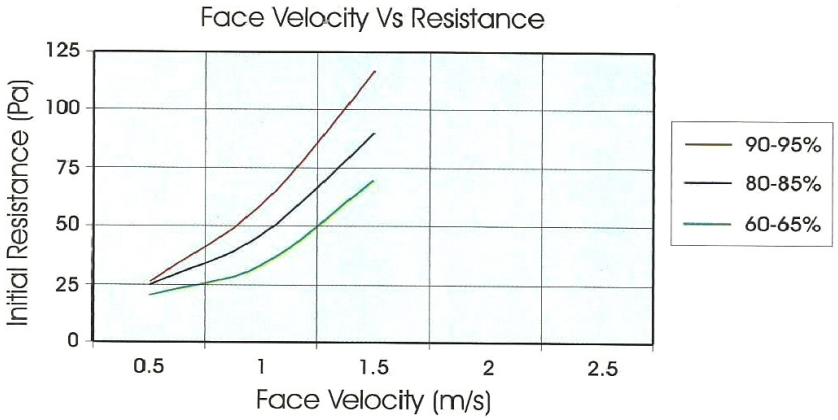
** Width and height dimensions are interchangeable. Aerocels may be installed with the pleats either vertical or horizontal

*** Actual size is 5/8inch less than nominal size

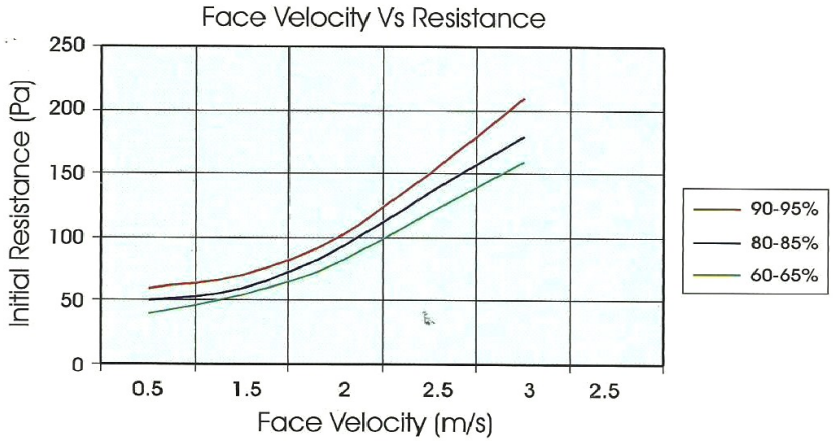
AEROCEL®

PERFORMANCE CURVE

6 INCH DEPTH



12 INCH DEPTH



AEROCEL-II®

EXTENDED SURFACE MINI PLEAT PANEL FILTERS



AEROCEL-II®

GENERAL

AEROCEL II extended surface minipleat filters are in a nominal four inches and two inches deep. They are designed for use in most commercial and industrial HVAC systems where medium to high efficiency filtration is required. They are available in average efficiency ranges of 65%, 85% and 95% per ASHRAE standard atmospheric dust spot test methods.

AEROCEL II filters are especially suitable for variable air volume systems and are designed to operate at face velocities from 0-625 fpm. The available style is standard box style. AEROCEL II filters are UL900 Class 2 listed.

PHYSICAL DATA

Frame: Double wall, moisture-resistant beverage board

Media: Water-laid microfine glass paper with a water-repellent binder

Media Support: Adhesive-bead pleat seperators

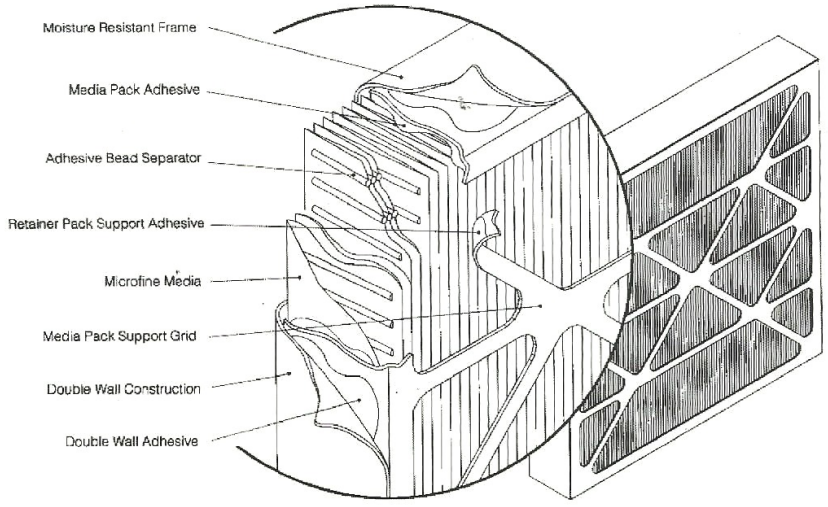
Face Grid: Diagonal supports bonded to the media pack

Operating Limits: 160° F and 100% RH

CONSTRUCTION

AEROCEL II filter are built with a minipleat media pack to achieve a rugged compact lightweight, high efficiency filter.

- The filter pack shall be constructed of water-laid microfine glass paper media containing a water-repellent binder formed into closely-spaced pleats held in position by adhesive bead seperators.
- The filter pack shall be strengthen on the air entering and air exit sides with diagonal support members.
- The enclosing frame shall be double-wall water resistant beverage board sealed between the walls and to the filter pack with adhesive.

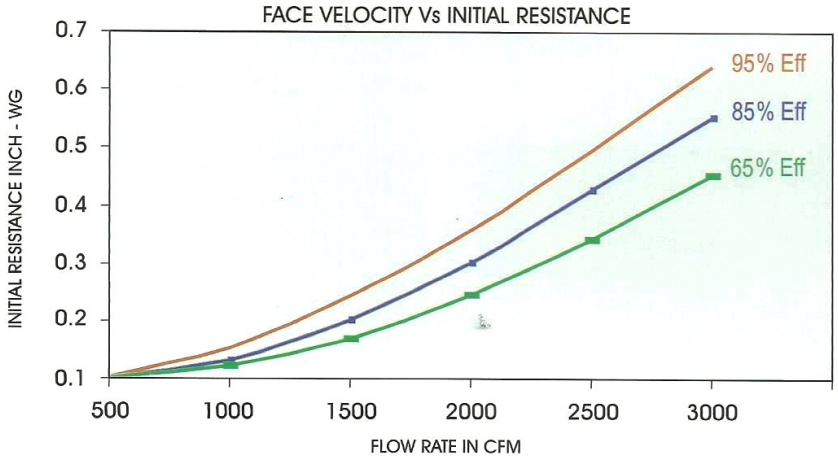


AEROCEL-II®

TECHNICAL DATA

Model No	Size (Inches)	Efficiency	Air Flow Rate (M^3/hr)	Initial Pressure Drop (Pa)	Final Pressure Drop (Pa)	Media Area (M^2)
DAROM62-031224	12 x 24 x 2	65%	1300	100	600	2.4
DAROM62-032424	24 x 24 x 2		1600	100	600	5.9
DAROM62-041224	12 x 24 x 4		1700	100	600	5.85
DAROM62-042424	24 x 24 x 4		3400	100	600	11.8
DAROM63-051224	12 x 24 x 2	85%	1300	145	600	2.4
DAROM63-052424	24 x 24 x 2		1600	145	600	5.9
DAROM63-061224	12 x 24 x 4		1700	145	600	5.85
DAROM63-062424	24 x 24 x 4		3400	145	600	11.8
DAROM64-071224	12 x 24 x 2	95%	1300	170	600	2.4
DAROM64-072424	24 x 24 x 2		1600	170	600	5.9
DAROM64-081224	12 x 24 x 4		1700	170	600	5.85
DAROM64-082424	24 x 24 x 4		3400	170	600	11.8

PERFORMANCE CURVE



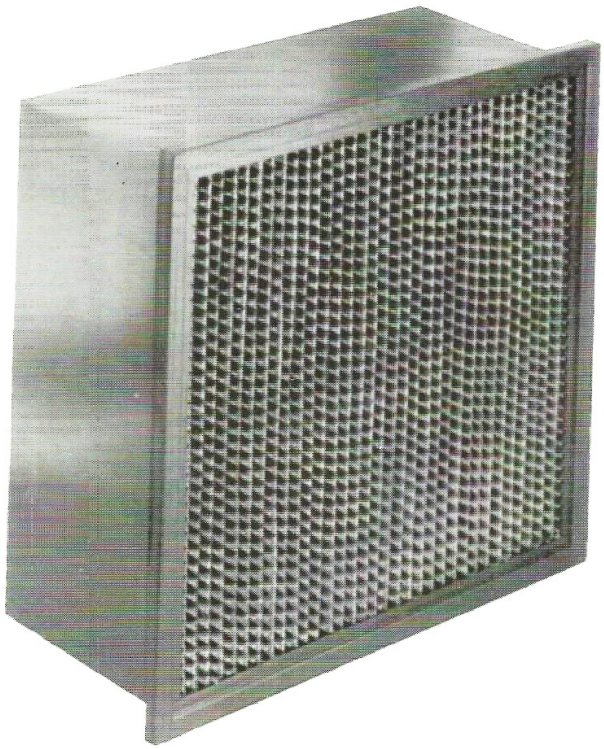
NOTES:

- ❒ Width and height dimensions are interchangable, Aerocell II filters can be installed horizontally or vertically
- ❒ All performance data based on ASHRAE 52: 1.1992. Classification in accordance with EN779.
  For maximum service life, AEROCEL II filter should always be operated with a pre-filter.
- ❒ Recommended final resistance is 450 Pa

AEROCEL®

COMPACT ASHRAE FILTER

MEDIUM AND HIGH EFFICIENCY
EXTENDED SURFACE AIR FILTERS

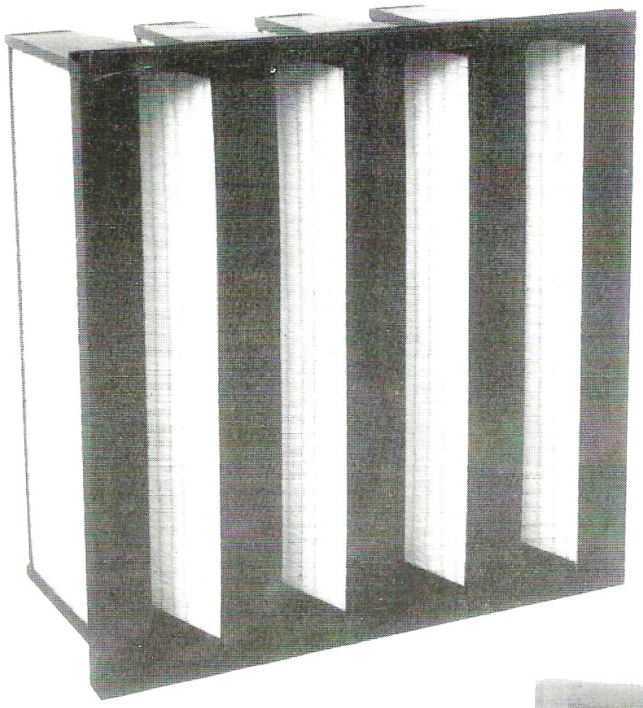


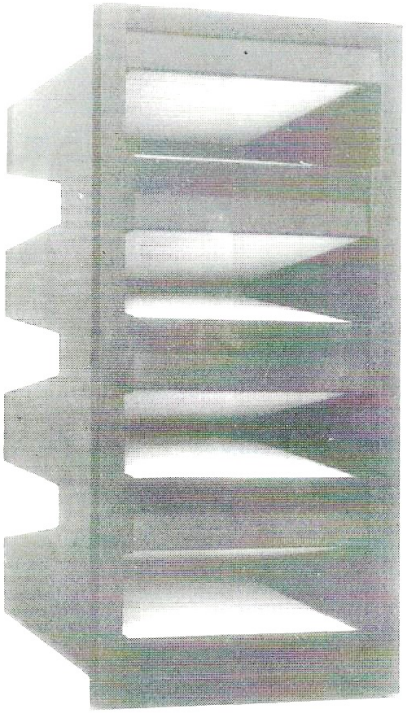
- Designed for variable Air volume systems

- High Dust Holding Capacity
- Filter Depths 149 and 292mm (6inch & 12inch)
- Rigid Construction Metal or Wood
- Operating Temperature up to 150°C
- Three Efficiencies
  - 90-95% Efficiency
  - 80-85% Efficiency
  - 60-65% Efficiency
- EU-Class 8,7 and 6

AEROCEL-V®

HIGH CAPACITY, LOW RESISTANCE, RIGID MINI-PLEAT V-BANK AIR FILTER WITH EFFICIENCY LEVEL OF 65%,85% AND 95%





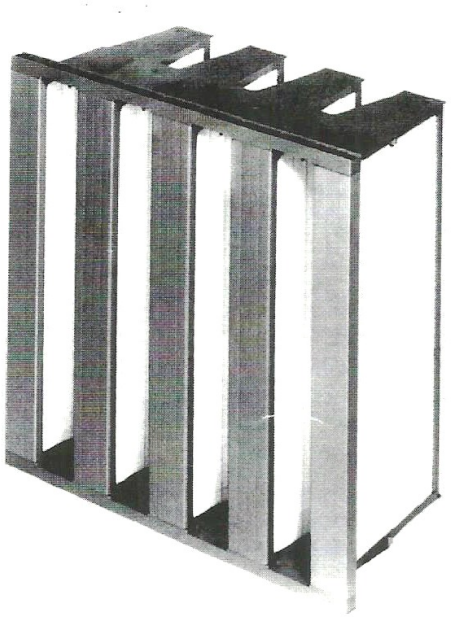
- High Capacity Upto 750FPM
- Aerodynamic design
- Versatile rigid construction
- Superior moisture resistance
- Low airflow resistance
- Three Efficiencies
- Light weight, easy to handle
- Corrosion resistant

Typical Application

- Hospital & health care facilities
- Microelectronics
- Pharmaceutical
- Airports
- Sports facilities, arenas
- Commercial buildings
- Automotive paint facilities
- Food processing plants

AEROCEL-V®

DAFF'S Aerocel-V is made with nominal 1" depth rigid mini-pleat media packs held by a rigid frame. With this design, you get up to 220 square feet of high efficiency media in filter that's designed for high air flow at low resistance. It is the perfect filter for applications that specifically require these features plus an excellent upgrade for other systems.



APPLICATION

The Aerocel-V compact filter has been designed for the most difficult operating conditions:

- ❑ Variable air volume
- ❑ Turbulent air flow
- ❑ Repeated fan shutdown
- ❑ High relative humidity
- ❑ Intermittent exposure to water

The rigid design and pleated media pack with thermoplastic separators enable the Aerocel-V to operate at specified performance levels in variable air volume systems. Filter efficiency is not appreciably affected by changing air velocity or repeated fan shutdown.

CONSTRUCTION

The polystyrene header and cell sides provide a sturdy construction that resists damage during shipping and handling. Rigid construction and minimum depth make Aerocel-V filters easy to install in front, rear and side access systems. All components are absolutely corrosion resistant during the entire service life of the filter.

WATER RESISTANT MEDIA

AEROCEL-V glass paper media is water resistant and can withstand intermittent exposure to water. When wet there will be a temporary rise in resistance, which quickly returns to normal as soon as the moisture evaporates.

OPERATING TEMPERATURE

All Aerocel-V filters can operate at temperature up to 150°C.

HIGH PERFORMANCE

Each of the three grades is achieved by an exclusive new high efficiency media formed from ultra glass paper finely woven into a mat. The progressive density achieved by this process ensures a full depth loading of dirt providing a high dust holding capacity which is directly related to the filter life.

SEPARATORS

The thermoplastic separators maintain uniform spacing between pleats to allow optimal flow of air into and through the filter. They also ensure large effective media area for low resistance and high dust holding capacity.

INCINERABLE

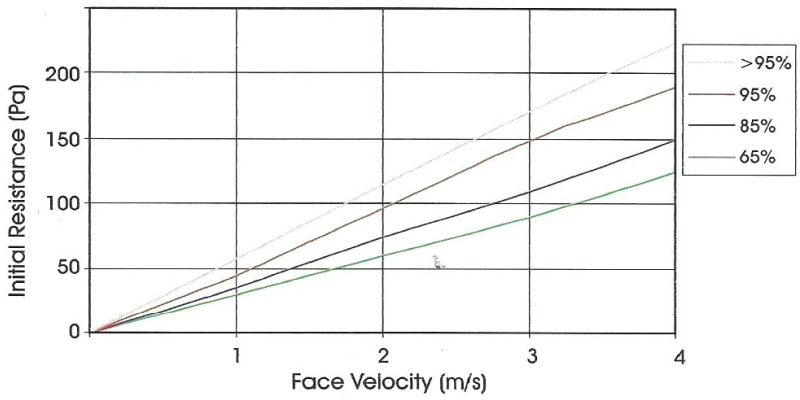
The AEROCEL-V utilizes materials which are incinerable and do not emit hazardous chorine gases. Disposal in municipal incinerators is permitted.

AEROCEL-V®

TECHNICAL DATA

MODEL NO	SIZE IN MM	Air Flow				Average Efficiency (%)	EU class	Initial Resistance Pa	Final Resistance Pa
		Maximum		Minimum					
		m^3/h	m^3/s	m^3/h	m^3/s				
DAROV62-24242	592x592x292	5000	1.39	4250	1.18	60-65	6	100	600
DAROV62-20242	490x592x292	4165	1.15	3540	0.98	60-65	6	115	600
DAROV62-12242	287x592x292	2500	0.69	2125	0.59	60-65	6	115	600
DAROV63-24242	592x592x292	5000	1.39	4250	1.18	80-85	7	125	600
DAROV63-20242	490x592x292	4165	1.15	3540	0.98	80-85	7	125	600
DAROV63-12242	287x592x292	2500	0.69	2125	0.59	80-85	7	125	600
DAROV64-24242	592x592x292	5000	1.39	4250	1.18	90-95	8	145	600
DAROV64-20242	490x592x292	4165	1.15	3540	0.98	90-95	8	145	600
DAROV64-12242	287x592x292	2500	0.69	2125	0.59	90-95	8	145	600
DAROV64-24242	592x592x292	5000	1.39	4250	1.18	>95	9	180	600
DAROV64-20242	490x592x292	4165	1.15	3540	0.98	>95	9	180	600
DAROV64-12242	287x592x292	2500	0.69	2125	0.59	>95	9	180	600

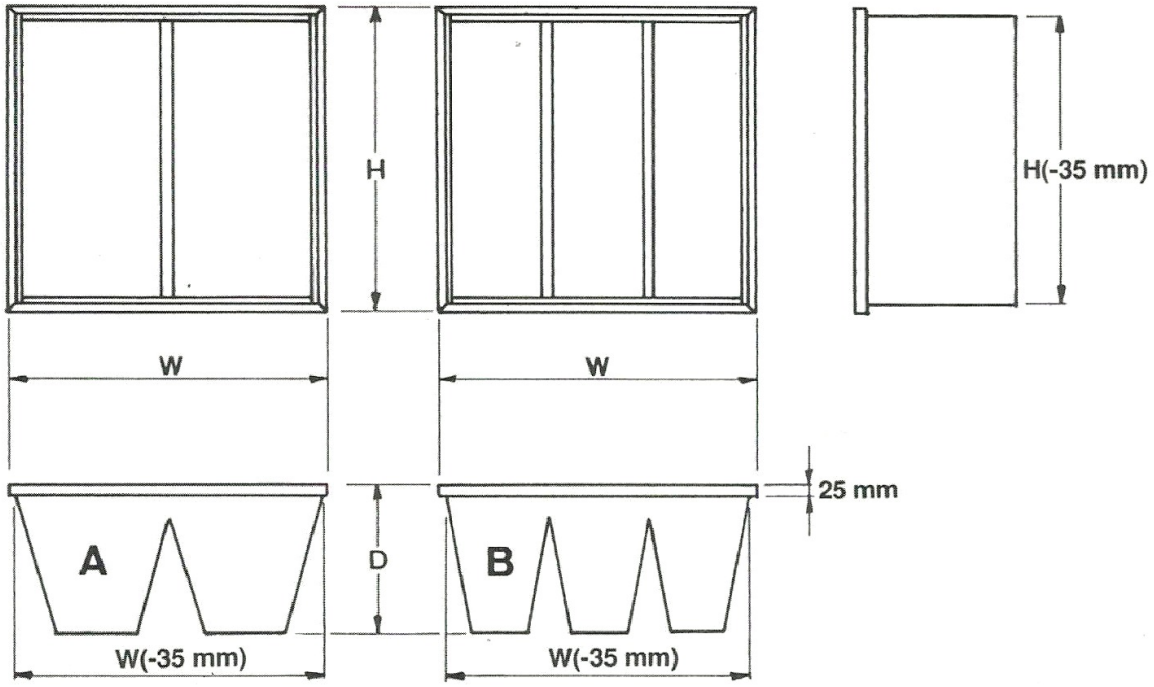
PERFORMANCE CURVE

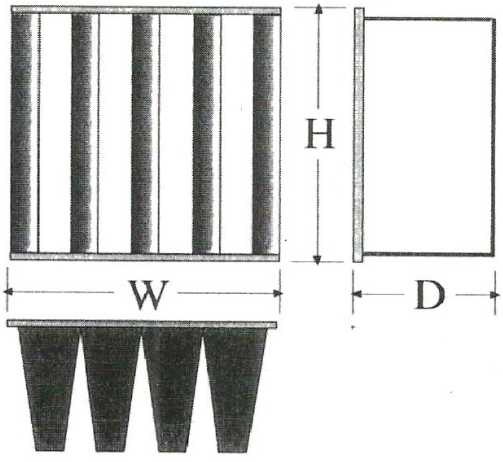


* Width and height are interchangable, pleats can be either vertical or horizontal without effecting performance.
*** All performance based on ASHRAE 52.1-92

AEROCEL-V®

Dimensions





	Nominal	Actual
W	24"	23-3/8"
H	24" 20" 12"	23-3/8" 19-3/8" 11-3/8"
D	12"	11-1/2"

AEROMATIC®

AUTO ROLL FILTER

MODEL NO: DATO51



EASY FIELD INSTALLATION

Unit is shipped factory assembled either with controls packed separately or controls mounted and wired (as ordered). When conditioners require, the unit can be shipped knocked down at no extra charge.

The flanged media boxes and screen section will be factory assembled and predrilled for quick, easy field assembly. Only six bolts are required to attach each media box to the screen section.

MEDIA COVERS

Top and bottom media covers are available if required by job conditions.

DRIVE ASSEMBLY

1/6 HP drive assembly, including motor and gear box, is easily capable of handling large banks.

GRADED DENSITY MEDIA

1 inch graded Polyester media has full scrim backing to eliminate necking and shedding. Media has high efficiency and high dirt holding capacity. Initial resistance at rated capacity is 0.17 inch W.G.

MEDIA RETAINERS RODS

Closely spaced media retainer rods hold media firmly in place even at the highest pressure drop at which the filter will operate.

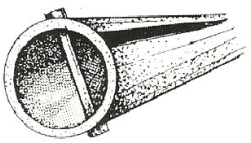
PRESSURE PLATE TO COMPRESS USED MEDIA

Spring tension on pressure plate re-compresses the used media to its original clean-roll diameter. Media is easily changed.

AUTOMATIC ROLL FILTER
CORE IDENTIFICATION

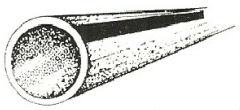
TYPE K CORE Designed to fit Commercial "FulFlo" and Mine Safety Appliance machines. Core consists of 3" I.D. fiberboard tube with drive pin 2½" from one end.

Roll Width	Model No.*	Roll Width	Model No.*
33"	K3	21"	K20
45"	K4	27"	K26
57"	K5	39"	K36
69"	K6	51"	K46



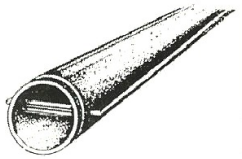
TYPE F CORE Designed to fit Farr "Roll Kleen." Core consists of 2⅛" I.D. fiberboard tube. No drive pin, discs or cups.

Roll Width	Model No.*	Roll Width	Model No.*
33"	F3	15"	F18
45"	F4	21"	F20
57"	F5	27"	F26
69"	F6	39"	F36
9"	F12	51"	F46



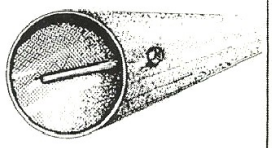
TYPE E CORE Designed to fit Cambridge "Electroaire." Core consists of ¾ metal pipe. No end plates unless specified on order.

Roll Width	Model No.*	Roll Width	Model No.*
23⅞"	E2	56⅞"	E5
32⅞"	E3	65⅞"	E6
44⅞"	E4	68¾"	E6III



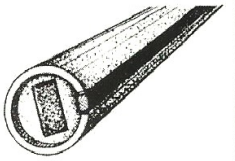
TYPE C CORE Designed to fit Continental "Conomanual" or "Conomatic." Core consists of 3" I.D. fiberboard tube with a drive pin 2½" from one end of core. Also available in metal core.

Roll Width	Model No.*	Roll Width	Model No.*
21⅞"	C22	55⅞"	C5
31⅞"	C3	67⅞"	C6
43⅞"	C4	35⅞"	C36



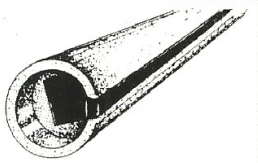
TYPE AM CORE Designed to fit Airmaze "Roll-A-Maze." Core consists of 1⅞" I.D. fiberboard tube with metal cup recessed ⅝" in each end. A rectangular slot, 1½" × ¾", is stamped in each cup.

Roll Width	Model No.*
20½"	AM2
32½"	AM3
44½"	AM4
56½"	AM5
68½"	AM6



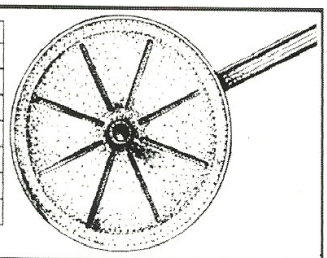
TYPE T CORE Designed to fit Trane company "Roll Filter." Core consists of 2-7/16" I.D. fiberboard tube with metal cup in each end, recessed 1½". A 1½" square is stamped in each cup.

Roll Width	Model No.*	Roll Width	Model No.*
19⅜"	T3, T7	59⅜"	T41
21⅜"	T6, T9	63⅜"	T50
31⅜"	T8,T17,T21	25¾"	T26
35⅜"	T12,T24,T25	38¾"	T38
45⅜"	T31	50¼"	T51
54⅜"	T35	61¾"	T61



TYPE A CORE Designed to fit American Air Filter "Roll-o-Matic." Core consists of ¾" I.D. metal pipe with metal end plates approximately 11" in diameter attached on each end.

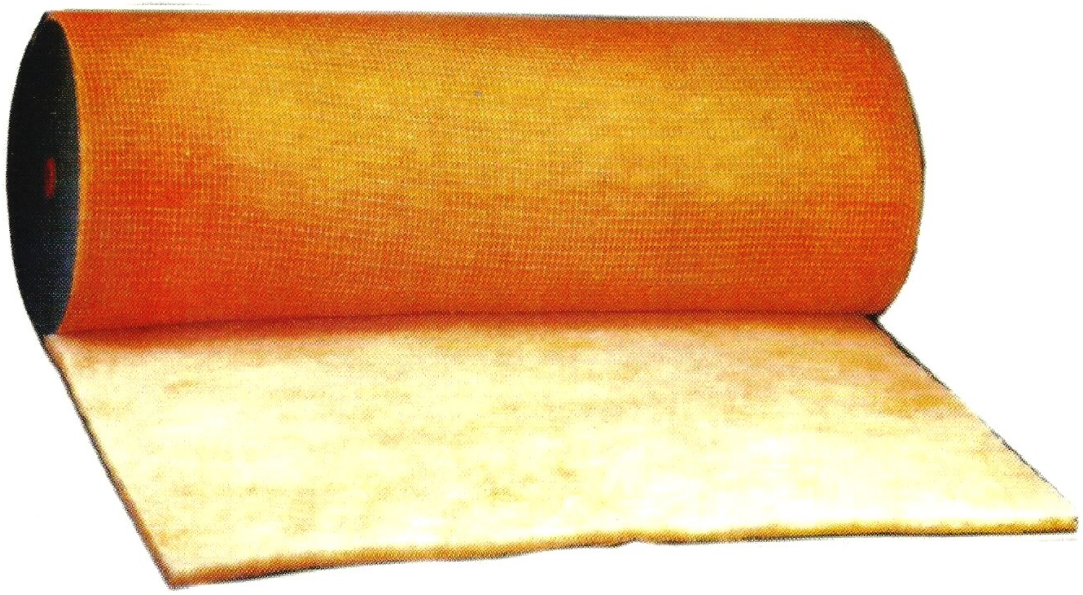
Roll Width	Model No.*	Roll Width	Model No.*
22¾"	A2	24⅞"	A25
32¾"	A3	31⅞"	A32
44¾"	A4	32¾"	A33
56¾"	A5	38½"	A39
68¾"	A6	39⅞"	A40
20½"	A21	44¾"	A45
22¼"	A22		



*Brand names used for identification only.
Cores also available for replacement of carrier, Herman Nelson, Trane-Univent, Marlo Coil, Schemenauer, and Nesbitt

AEROMATIC®

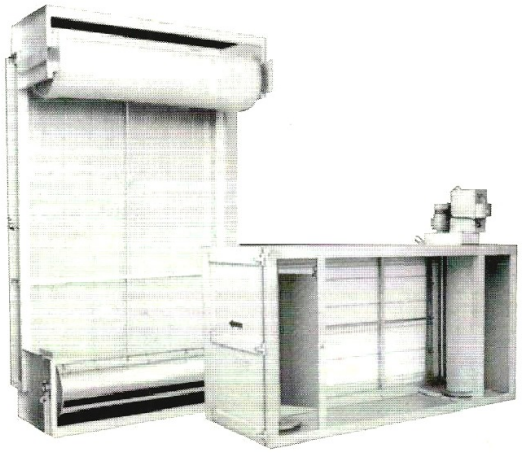
AUTO ROLL FILTER



AEROMATIC is a lofted non-woven media and was developed by DAFF specifically for air filtration purposes and air intake systems. It is made at DAFF's own plant from special blend of Synthetic fibers, and is built up from layers of material laid across each other. This forms a complex matrix which ensures effective depth filtration. Each fiber is bonded at that interxtices to prevent the possibility of fiber carry over.

AEROMATIC will not absorb moisture and is flame proofed. During manufacture it is treated with a viscous agent to maximize properties if dust capture. It is made in two grades:

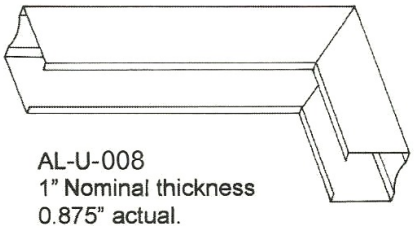
AEROMATIC for standard applications and AEROMATIC plus where higher efficiencies are required.



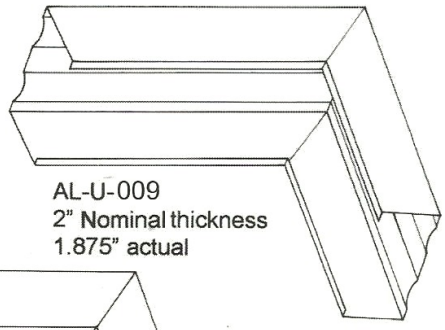
FILTER SUPPORTING FRAMES
ALUMINUM-U-CHANNEL

DAFF well engineering department supplies aluminum frames in variety of sizes and thickness. All channel stock is lipped and bowed to support the filter this characteristic allows pre fabrication of filtering components and as a result a quick assembly and faster delivery of finished products proven effective for many years.

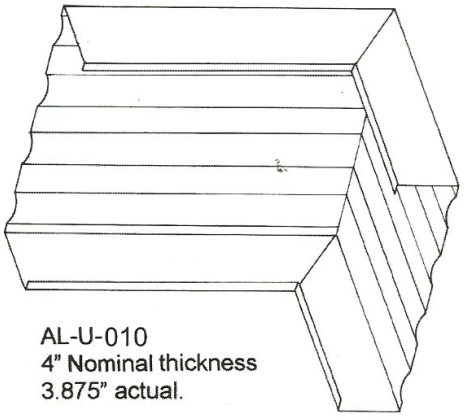
STANDARD SIZE	PART NO
3/8" x 1mtr	AL-U-005
1/2" x 1mtr	AL-U-006
5/8" x 1mtr	AL-U-007
1" x 1mtr	AL-U-008
2" x 1mtr	AL-U-009
4" x 1mtr	AL-U-010



AL-U-008
1" Nominal thickness
0.875" actual.



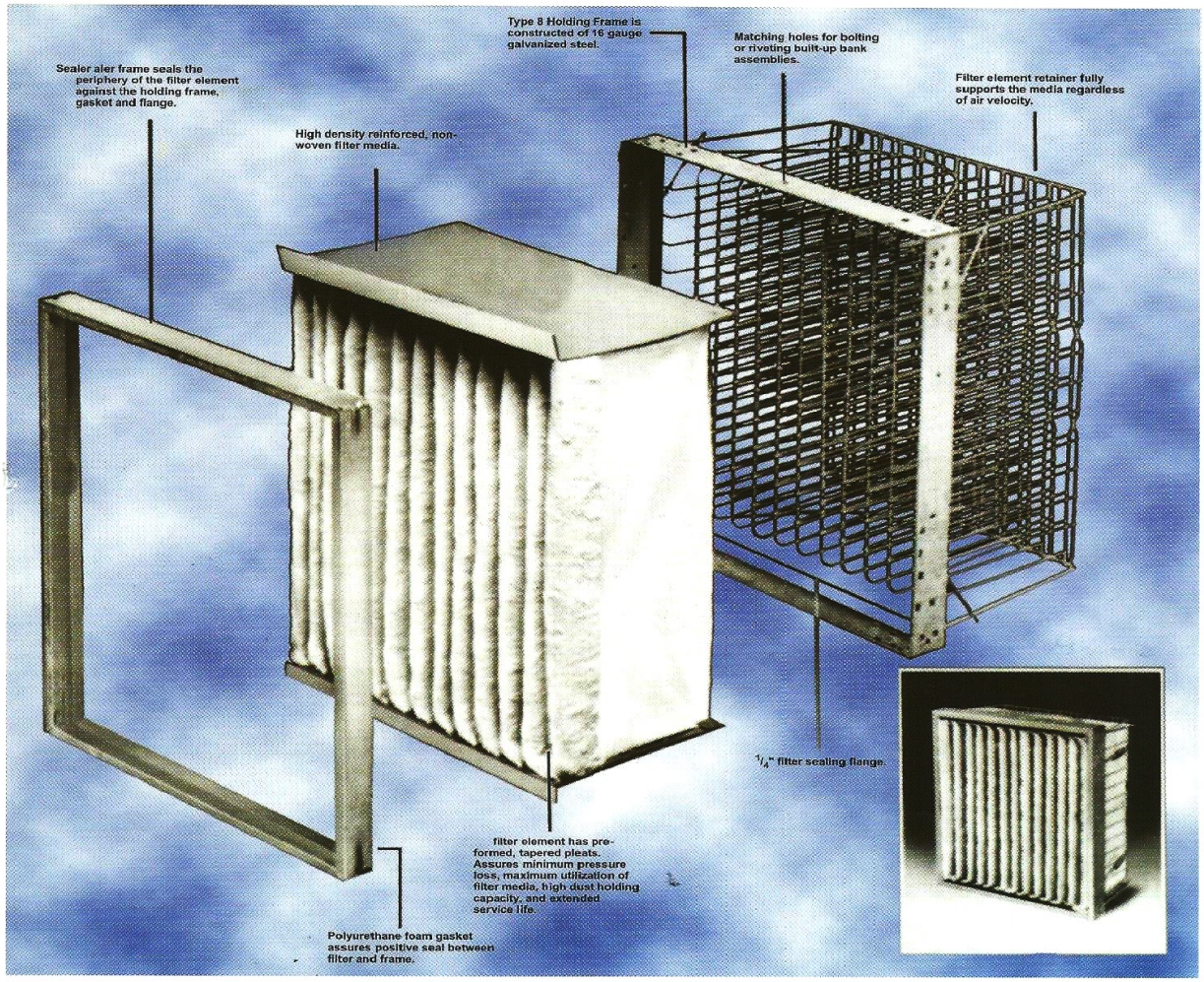
AL-U-009
2" Nominal thickness
1.875" actual



AL-U-010
4" Nominal thickness
3.875" actual.

DAFY-PLEAT®

HIGH PERFORMANCE CARTRIDGE FILTER



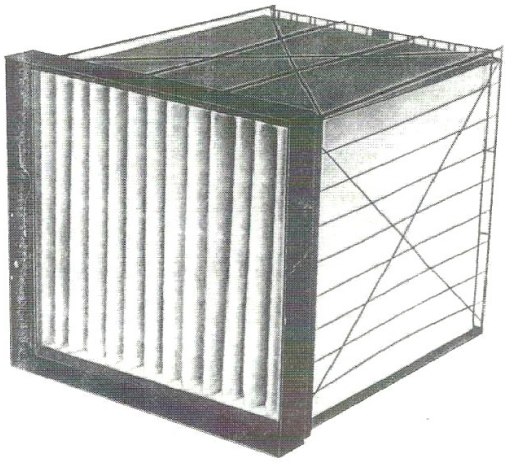
DAFY-PLEAT shall be DAFF high performance , extended area , deep pleated disposable type filter. They shall consists of media filter and heavy duty cardboard endcaps on both the top and bottom sides for support. DAFY-PLEAT available in four efficiencies of 45%, 65%,85% and 95%.

DAFY-PLEAT®

HIGH PERFORMANCE CARTRIDGE FILTER

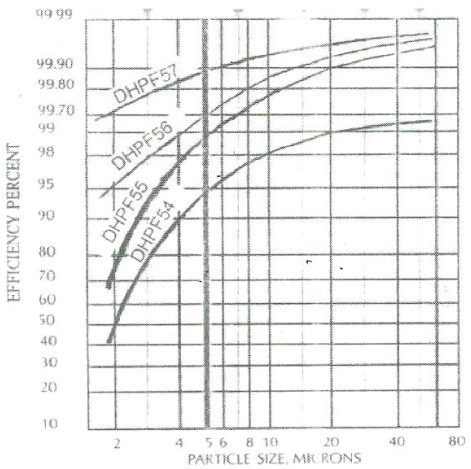
PRODUCT DESCRIPTION

DAFY-PLEAT Cartridges are deep pleated, medium and high efficiency strainers type air filters. DAFY-PLEAT Cartridges are used in filter cell assemblies consisting of a filter holding frame , sealer frame, and a wire retainer to support the media. DAFY-PLEAT cartridges of a similar size and depth are interchangeable to permit a cartridge of one efficiency rating to be replaced by a cartridge of another efficiency rating simply by replacing the filter cartridge.



CONSTRUCTION

The DAFY-PLEAT filter is available in two distinct depths 12inch depth and 6inch depth and four filtering efficiencies. The preformed folded design utilizes deep pleats of reinforced non-woven cotton and polyester media with flame proof backing. The unique preformed folded design is bonded on the top and bottom heavy duty cardboard side panels and the light weight of the 12" and 6" series of filter cartridges minimizes handling cost, storage requirements and disposal problems. The pleat spacing and depth, cardboard side panel scoring and size, are identical with all other manufacturers of this type cartridge filter and are completely interchangeable. Also, cartridges of similar size and depth are interchangeable to permit a cartridge of one efficiency rating to be replaced by a cartridge of another efficiency rating.

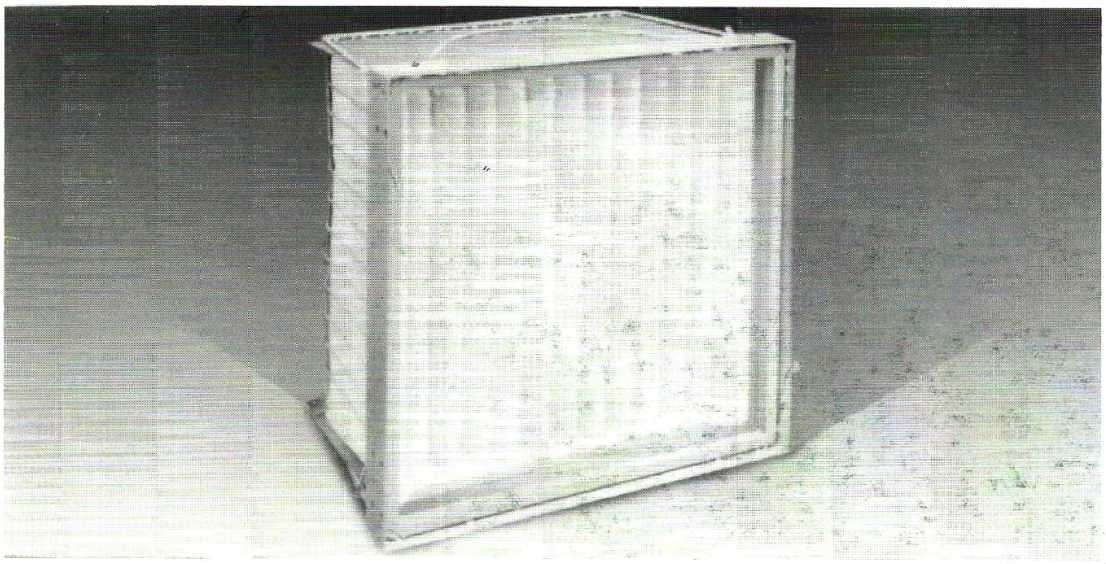


MEDIA CHOICES

DHPF54	Average atmospheric efficiency 45%
	Color of Media: Green
DHPF55	Average atmospheric efficiency 65%
	Color of Media: Blue
DHPF56	Average atmospheric efficiency 85%
	Color of Media: Orange
DHPF57	Average atmospheric efficiency 95%
	Color of Media: Yellow

DAFY-PLEAT®

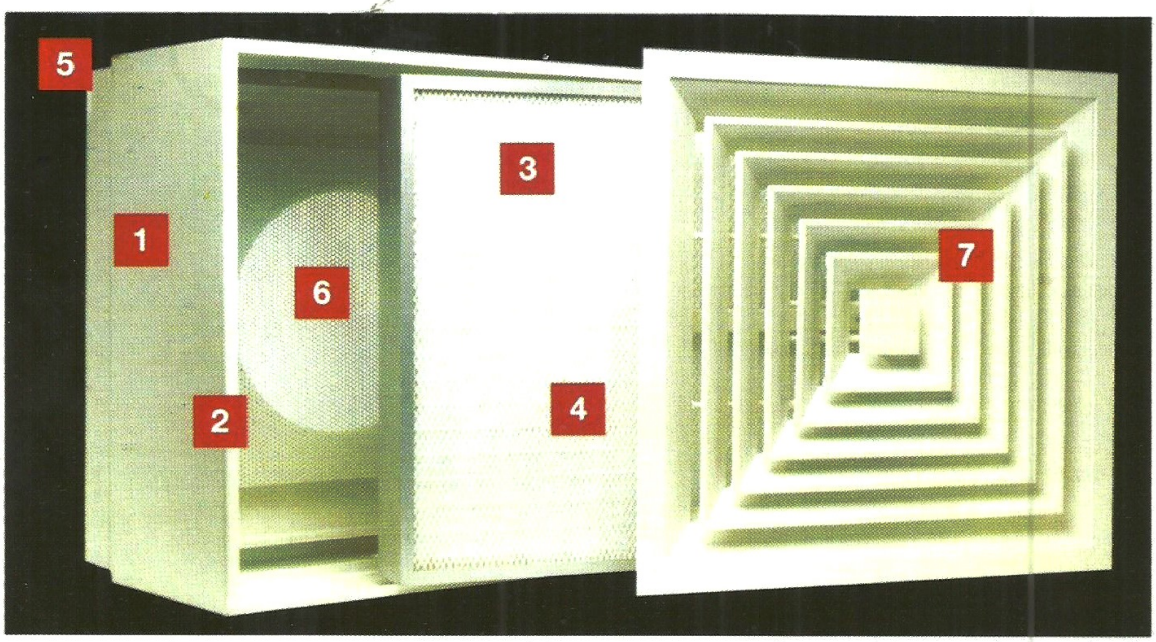
HIGH PERFORMANCE CARTRIDGE FILTER



FILTER MEDIA	NOMINAL SIZE inches / mm	AIRFLOW CAPACITY CFM / m/h			RESISTANCE @ CAPACITY inches w.g. / KPa				MEDIA AREA ft^2 / m^2
		Low	Medium	High	Low	Medium	High	Final*	
DAFY PLEAT 45% DHPF54	12 x 24 x 12	800	1000	1200	.10	.15	.20	.90	20.8
	305 x 610 x 305	1360	1700	2040	.02	.04	.05	.22	1.93
	24 x 24 x 12	1600	2000	2400	.10	.15	.20	.90	41.7
	610 x 610 x 305	2720	3400	4080	.02	.04	.05	.22	3.87
DAFY PLEAT 65% DHPF55	12 x 24 x 12	600	680	1000	.14	.17	.32	1.00	20.8
	305 x610 x 305	1020	1360	1700	.03	.04	.08	.24	1.93
	24 x 24 x 12	1200	1360	2000	.14	.40	.32	1.00	41.7
	610 x 610 x 305	2040	1600	3400	.03	.10	.08	.24	3.87
DAFY PLEAT 85% DHPF56	12 x 24 x 12	600	800	1000	.30	.40	.60	1.00	20.8
	305 x 610 x 305	1020	1360	1700	.07	.10	.15	.24	1.93
	24 x 24 x 12	1200	1600	2000	.30	.40	.60	1.00	41.7
	610 x 610 x 305	2040	2720	3400	.07	.10	.15	.24	3.87
DAFY PLEAT 95% DHPF57	12 x 24 x 12	450	600	750	.30	.35	.55	1.00	20.8
	305 x610 x 305	765	1020	1275	.06	.09	.13	.24	1.93
	24 x 24 x 12	900	1200	1500	.30	.35	.55	1.00	41.7
	610 x 610 x 305	1530	2040	2550	.06	.09	.13	.24	3.87

DCM HOOD FILTER

Exploded View & Construction



1 **Heavy Duty Frame**
All Welded mild steel construction

2 **Corrosion Resistant**
Mild Steel Frame is coated with a durable epoxy coating

3 **Media Pack**
The MICRO-DAFF or LAMI-CELL element is supported by G.I Steel Painted plates at each corner

4 **Replaceable Element**
The filter element can easily replaced requiring no special tools

5 **Hanging Bracket**
Each housing is supplied with four corner hanging brackets to be used for scres, rods or hanging wires.

6 **Collar**
Each housing is supplied with a 150mm or 200mm or 315mm standard round collar.

7 **Optional Diffuser**
The powder coated diffuser is available as an optional extra

TECHNICAL DATA AND DIMENSIONS FOR DCM HOOD WITH LAMI-CELL ULPA FILTRATION OF EFFICIENCY: ≥ 99.9995%

MODEL NO	MODULE DIMENSION (in MM)			FILTER DIMENSION L x W x D (mm)	Nominal airflow @0.45 m/s		
	Length X Width (in mm)	A (circular side inlet)	B (circular top inlet)		CFM	m^3/h	INITIAL RESISTANCE @ 0.45 m/s (in Pa)
DMICD67-12122	300x300	360	200	290x290x57	88	150	200
DMICD67-12123	300x300	410	250	290x290x69	88	150	165
DMICD67-12124	300x300	460	300	290x290x90	88	150	135
DMICD67-18182	450x450	360	200	435x435x57	200	340	195
DMICD67-18183	450x450	410	250	435x435x69	200	340	160
DMICD67-18184	450x450	460	300	435x435x90	200	340	130
DMICD67-12242	300x600	360	200	290x435x57	176	300	195
DMICD67-12243	300x600	410	250	290x590x69	176	300	160
DMICD67-12244	300x600	460	300	290x590x90	176	300	130
DMICD67-24242	600x600	360	200	590x590x57	355	605	195
DMICD67-24243	600x600	410	250	590x590x69	355	605	160
DMICD67-24244	600x600	460	300	590x590x90	355	605	130
DMICD67-24302	600x750	480	200	590x740x57	455	755	195
DMICD67-24303	600x750	525	250	590x740x69	445	755	160
DMICD67-24304	600x750	570	300	590x740x90	445	755	130
DMICD67-30302	750x750	480	200	740x740x57	555	940	195
DMICD67-30303	750x750	525	250	740x740x69	555	940	160
DMICD67-30304	750x750	570	300	740x740x90	555	940	130
DMICD67-24372	600x900	480	200	590x890x57	535	905	195
DMICD67-24373	600x900	525	250	590x890x69	535	905	160
DMICD67-24374	600x900	570	300	590x890x90	535	905	130
DMICD67-24482	600x1200	480	200	590x1190x57	710	1205	195
DMICD67-24483	600x1200	525	250	590x1190x69	710	1205	160
DMICD67-24484	600x1200	570	300	590x1190x90	710	1205	130

DCM HOOD FILTER

APPLICATION

The DCM Hood is a ceiling module for HEPA filters such as the MICRO-DAFF OR LAMI-CELL. The module has been designed for use in applications where ultra clean air is required. Applications can be hospital operating theatres, intensive care units, biological laboratories and in production area for the pharmaceutical , food processing micro-electronic and optical industries. The DCM Hood qualifies for class 100 clean room environment when using the perforated plate on the downstream side accompanied by the proper filter selection. The units may also be applied in exhaust systems.

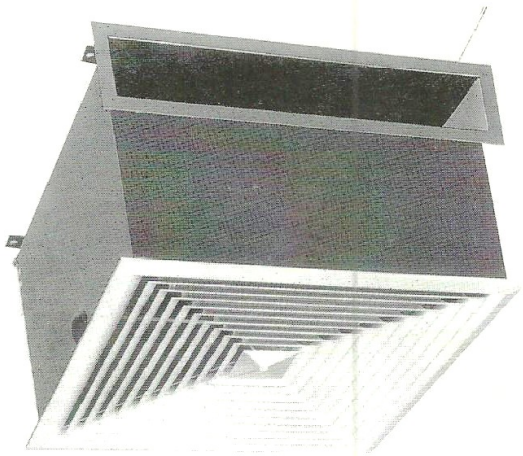
CONSTRUCTION

The standard DCM Hood is made of extruded aluminum and has a white (RAL9010) electrostatic powder coating which is resistant to disinfectants. The air enters through a round inlet collar on the side of the unit. As an option unit is available in Stainless Steel and/or a round inlet collar on the top of the unit. Inside the unit the filter is secured against the filter frame by using spring loaded clamps. This provides a continuos and constant pressure against the filter sealing gasket. As an option test groove in the frame is available for testing the gasket seal, according to DIN 1946. A test tube is standard included on the unit for measuring the pressure drop over the filter.

INSTALLATION

The DCM Hood can be mounted in almost any type of ceiling. Predrilled holes for suspension wires are provided. As an option a module with an outside flange is available. On the right are two installation examples. The filter itself is installed from the room side into the DCM Hood and is sealed by a spring-loaded clamp.

If you have a special installation requirement, our representative will be glad to provide you with a recommendation for your application.



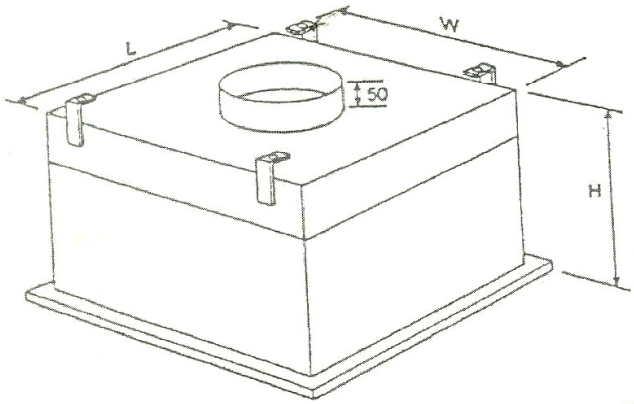
DIFFUSERS

There are three diffetent types of diffusers for air distribution a 4-way directional, a rectangle and a perforated plate.
The diffusers are connected to a central holding are located inside the ceiling module. This holding bar is removable when installing or replacing the filter. For easy access to the filter and test ports measurement and/or DIN leak test) all three diffusers are removable from inside the room. the 4-way directional diffuser is standard electrostatic polyester powder coated on off-white (RAL9002) and is mounted with a center bolt.
The rectangle diffuser and perforated plate diffusers available in standard white (RAL9010). Stainless steel diffusers is available as option.

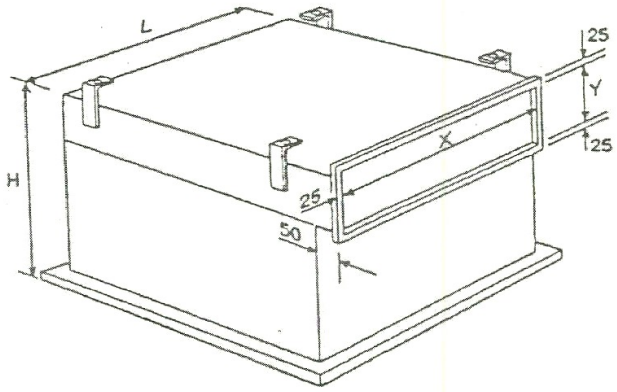
FILTERS

The following filters can be used in the DCM Hood:
Micro-DAFF or Lami-Cell with the efficiency of 99.99% on 0.3μm or 99.999% on 0.12μm particles.

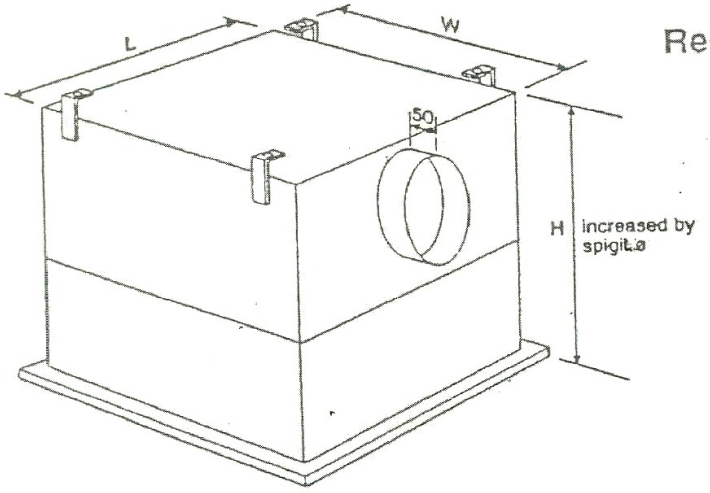
DMICD67 - DCM Hood Filter
Housing Construction



Circular top inlet

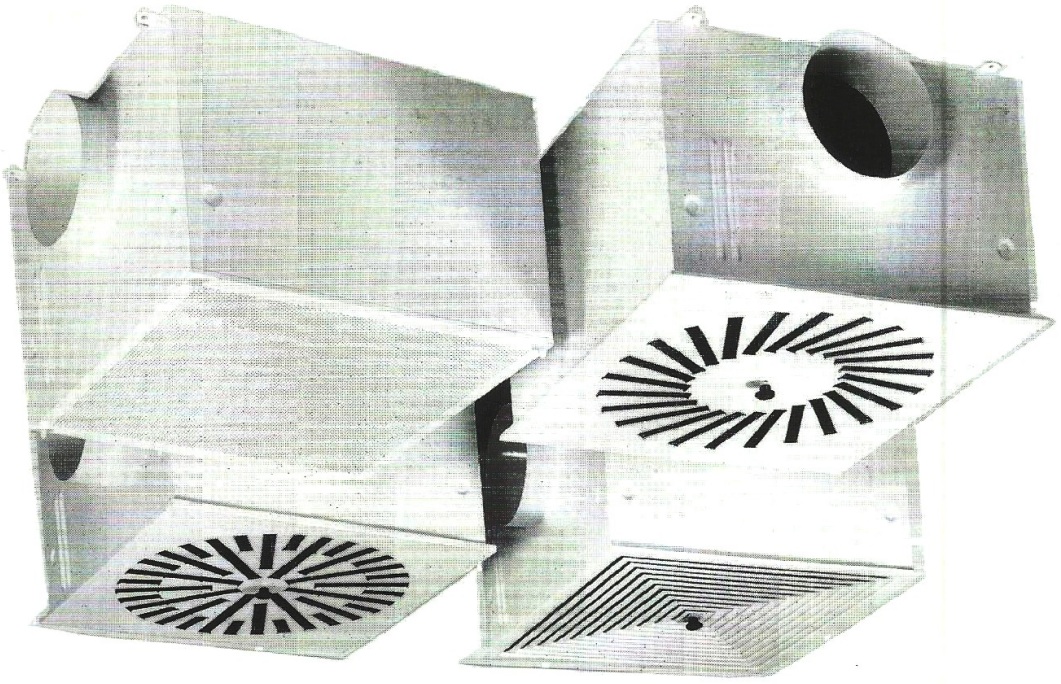


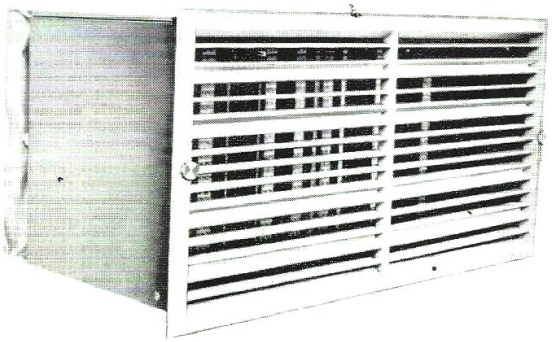
Rectangular side inlet



Circular side inlet

DAFF GM HOOD CLEAN ROOMS HEPA FILTER HOUSING FOR CEILINGS AND WALLS





DUSTRAP®

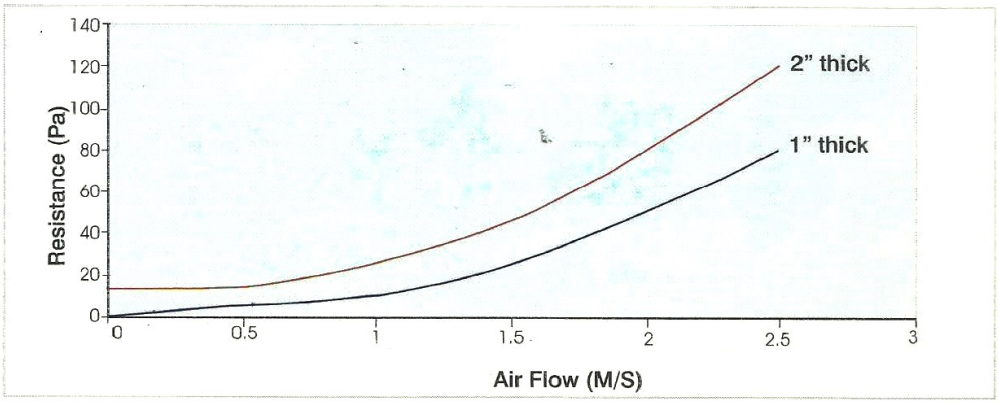
DISPOSAL PANEL FILTERS

THICK	MODEL NO	STD SIZE	INITIAL RESISTANCE IN.W.G.	FINAL RESISTANCE IN. W.G.
1"	DUST17-1224	12"x24"x1"	0.07	1.0
	DUST17-1625	16"x25"x1"	0.07	1.0
	DUST17-2020	20"x20"x1"	0.07	1.0
	DUST17-2024	20"x24"x1"	0.07	1.0
	DUST17-2424	24"x24"x1"	0.07	1.0
	DUST17-2025	20"x25"x1"	0.07	1.0
2"	DUST18-1224	12"x24"x2"	0.14	1.0
	DUST18-1625	16"x25"x2"	0.14	1.0
	DUST18-2020	20"x20"x2"	0.14	1.0
	DUST18-2024	20"x24"x2"	0.14	1.0
	DUST18-2424	24"x24"x2"	0.14	1.0
	DUST18-2025	20"x25"x2"	0.14	1.0

Thickness (inch) nominal	1	2
Average Weight Arrestance	81%	91%
Initial Pressure Drop (IN.W.G.)	0.08	0.14
Recommended Air Flow (FPM)	350	350-500
Final Resistance (IN.W.G.)	1	1

Actual size is 5/8" less than nominal size

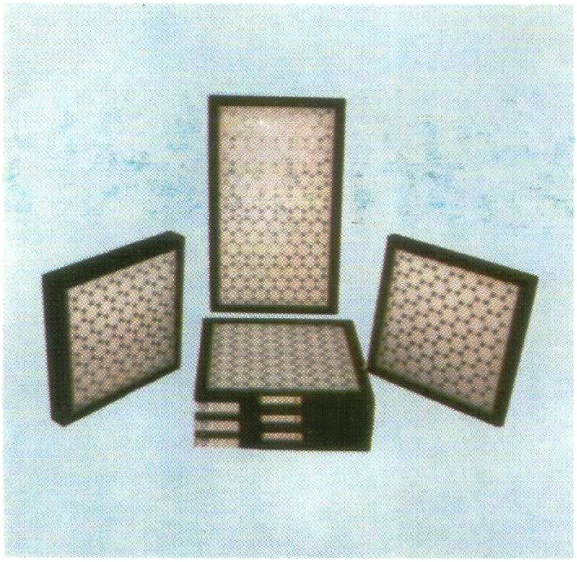
PERFORMANCE CURVE



DUSTRAP®

DISPOSAL PANEL FILTERS

CONSTRUCTION



DUSTRAP Filters are manufactured from the highest quality products available. The filter pad is enclosed in a rugged die-cut beverage board frame or 500GPM craft paper frame. The label indicates proper air flow, and describes correct size. The DUSTRAP filter is not affected by environmental temperature, or humidity changes. The construction of the DUSTRAP filter insures better performance during operation due to the sturdiness and rigidity of the product.

MEDIA

The media, the heart of any air filter, is the highest efficiency standard disposable product available on the market, without exception. All DUSTRAP Air Filters are constructed utilizing POLY-ROL polyester filter media. POLY-ROL media is manufactured from high bulk polyester synthetic fibers which are chemically bonded together with a fire retardant resin to form high loft blanket of resilient medium. Due to the fineness and crinkly nature of the fibers an extremely large number of dust traps are formed and exposed to the air stream. POLY-ROL media, while rugged in performance area is soft to the touch and requires no oil or adhesive to trap dust due to the unique media design. POLY-ROL media is undoubtedly the finest synthetic media offered, and greatly out performs the economy oriented fibers such as acetate or rayon. The result to the user of DUSTRAP Air Filters will be cleaner air than is offered by any disposable filter on fiberglass.

APPLICATION

DUSTRAP Air filters are designed for use in all heating and air conditioning systems. They are particularly recommended for those area's where a higher degree of air cleanliness is required. Temperature limitations of the product are -40°F to 220°F constant operational levels or up to 350°F in maximum occasional range. Although designed for commercial and industrial applications DUSTRAP Air Filters are an excellent product for use in residential systems.

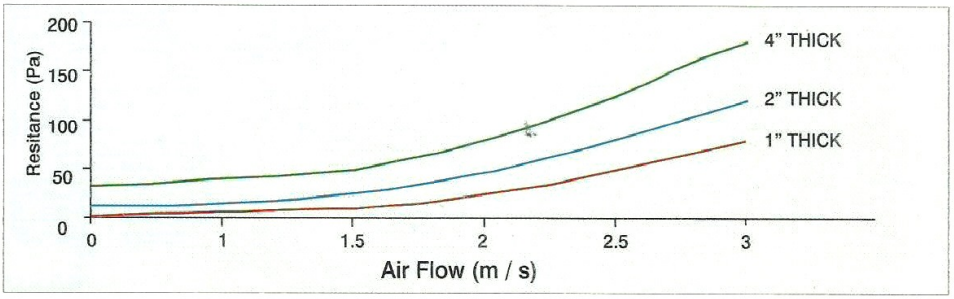
EZ-WASH®

TECHNICAL DATA

THICK	MODEL NO	STD SIZE	INITIAL RESISTANCE IN.W.G.	FINAL RESISTANCE IN. W.G.
1"	DWAF08-1224	12"x24"x1"	0.07	1.0
	DWAF08-1625	16"x25"x1"	0.07	1.0
	DWAF08-2020	20"x20"x1"	0.07	1.0
	DWAF08-2024	20"x24"x1"	0.07	1.0
	DWAF08-2424	24"x24"x1"	0.07	1.0
	DWAF08-2025	20"x25"x1"	0.07	1.0
2"	DWAF09-1224	12"x24"x2"	0.14	1.0
	DWAF09-1625	16"x25"x2"	0.14	1.0
	DWAF09-2020	20"x20"x2"	0.14	1.0
	DWAF09-2024	20"x24"x2"	0.14	1.0
	DWAF09-2424	24"x24"x2'	0.14	1.0
	DWAF09-2025	20"x25"x2"	0.14	1.0

Thickness (inch) nominal	1	2
Thickness (mm) actual	23	48
Rated face Velocity (m/s)	2.5	2.5
Average Arrestance (%) ASHRAE 52-76	67-75	80-90
Eurovent Classification	EU1	EU2
Initial Resitance (Pa)		
at 1.5 m/s	13	18
at 2.5 m/s	33	46
at 3.2 m/s	51	81
Recommended final resistance (Pa)	250	250
Cont. Operating Temperature limit (°C)	120	120

Air Flow Resistance Vs Face Velocity



All data was obtained AT AFTL (American Filter Testing Laboratory) at 350 FPM According to ASHRAE Standard 52.1-1992

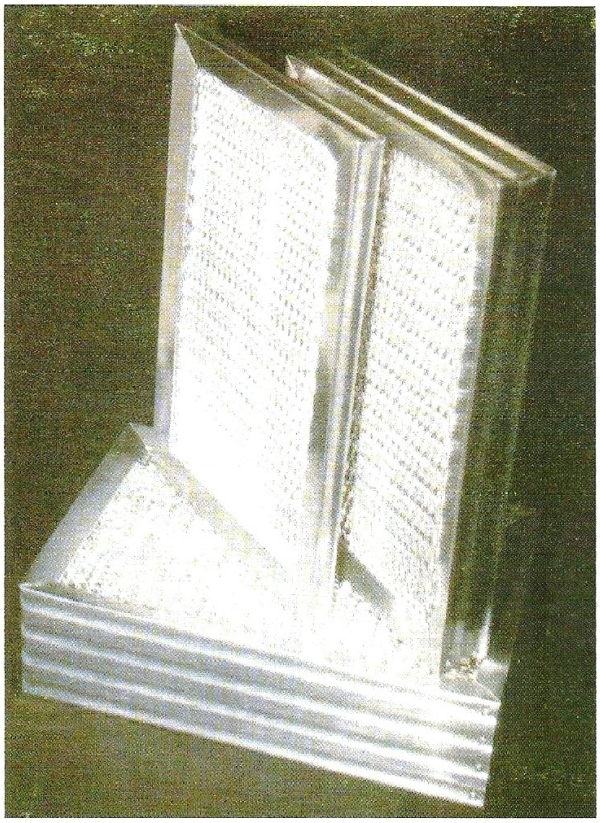
Actual Height and Width are 5/8" less than nominal sizes

** Non-Standard sizes are available upon request

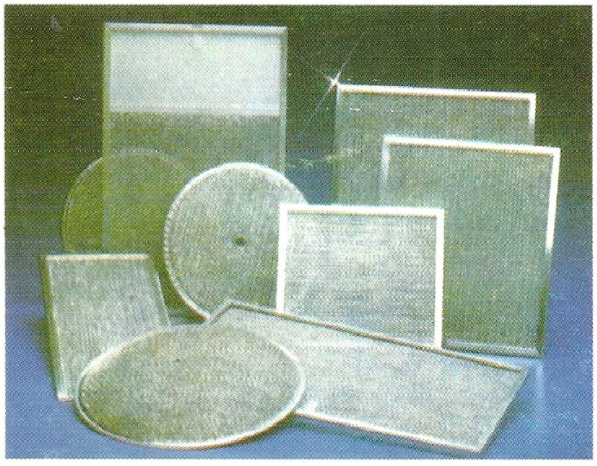
EZ-WASH®

PERMANENT ALL ALUMINUM WASHABLE FILTERS

Strong Easy Cleaning Top Performance



DAFF All Aluminum Filters prove effective over a wide range of air cleaning application. DAFF fabricates All Aluminum Filters in variety of shapes and sizes from aluminum mesh, and by varying the densities number of layers, and positioning of the mesh. DAFF can supply filters to match the specific requirement of a wide range of air cleaning applications. Because of the unique mesh pattern, DAFF All Aluminum Filters have low initial resistance and their ability to depth-load rather than surface load, a vary gradual resistance build-up results, increasing the service life of the filter the use of All Aluminum Filters prevents rust and corrosion yet allows easy washing. All Aluminum Filters and aluminum construction of the permanent type filters provide better performance over long periods of time. In addition, they are competitive period to save you even more.



APPLICATION

EZ-WASH are suitable for the collection of big particles. They are used in air conditioning installations and in filter installation for engines and compressors.

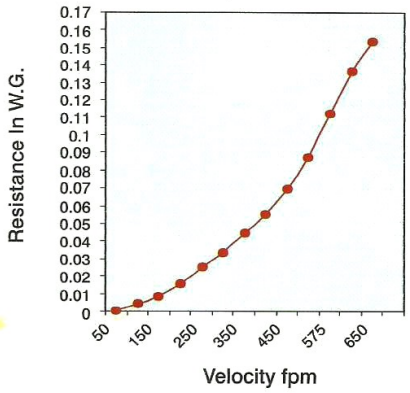
FETS®

STANDARD SIZE ALUMINUM FILTER MEDIA

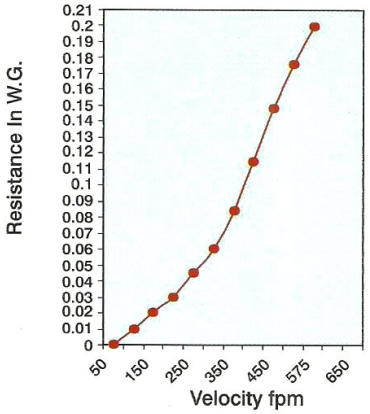
PRODUCT	STD SIZE	MODEL NO	THICKNESS	LAYERS
SHEET	40" x 64"	DFET01	3/16"	5 PLY
	40" x 64"	DFET02	1/4"	7 PLY
	40" x 64"	DFET03	5/8"	9 PLY
	40" x 64"	DFET04	1"	12 PLY
ROLLS	40" x 50ft	DFET01	3/16"	5 PLY
	40" x 50ft	DFET02	1/4"	7 PLY
	40" x 50ft	DFET03	5/8"	9 PLY

PERFORMANCE CURVE
ALUMINUM FILTERS RESISTANCE Vs AIRFLOW

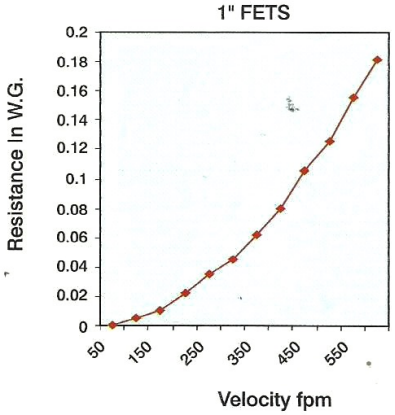
5/8" FETS



1/4" & 3/16" FETS



1" FETS



FETS®

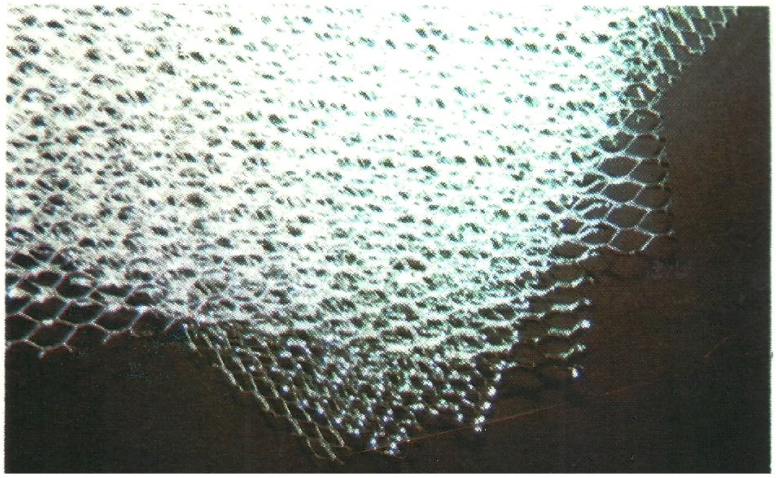
ALL ALUMINUM MEDIA FILTER



DAFF expanded aluminum is manufactured of high quality mill finish aluminum in thickness of 0.002" to 0.006"aluminum foils is slit and stretched longitudinally, expanding the slits into holes of uniform shape and size by varying the densities, number of layers, DAFF can supply aluminum filter in rolls and pads.

ALL ALUMINUM PERFORMANCE ENGINEERED AIR FILTER

DAFF production capabilities make it possible to provide virtually any size or shape aluminum filter media in production qualities. Let us know your requirement and we'd be happy to work with you. DAFF FETS is a bonded aluminum filter media comes in sheets and rolls.



FLO-STATIC®

ELECTROSTATIC FILTER

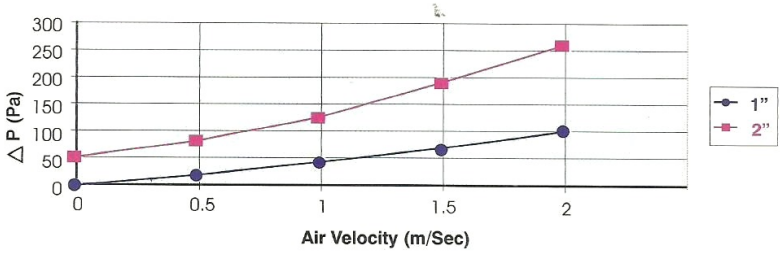
TECHNICAL DATA

MODEL NO	STD SIZE
DELF58-1224	12"x24"x1"
DELF58-1620	16"x20"x1"
DELF58-1824	18"x24"x1"
DELF58-2024	20"x24"x1"
DELF58-2424	24"x24"x1"
DELF59-1224	12"x24"x2"
DELF59-1620	16"x20"x2"
DELF59-1824	18"x24"x2'
DELF59-2024	20"x24"x2"
DELF59-2424	24"x24"x2"

* Actual Height and Width are 5/8" less than nominal sizes
** Non-standard sizes are available upon request

ASHRAE 52-76 ATM	
Medium type	Multilayer
Maximum Arrestance	94%
Recommended Air Velocity	1 m/s
Initial Pressure Drop	80 Pa
Recom. Final Pressure Drop	250 Pa
Washable	Yes
Heat Resistant Up to	110°C
Flame Resistant Up to	Not Self Extinguishable
Classification	Eu4

PERFORMANCE CURVES

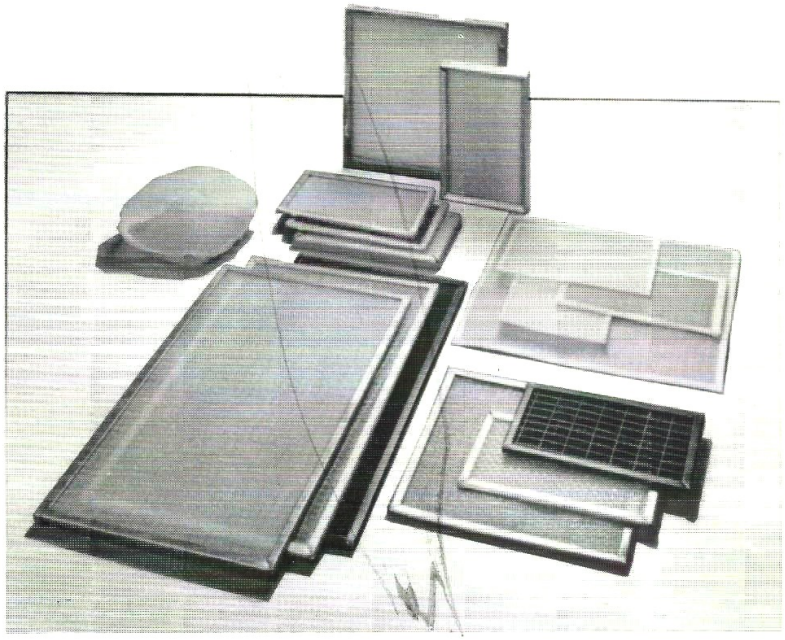


FLO-STATIC®

ELECTROSTATIC FILTER

APPLICATION

FLO-STATIC is used for air conditioning and ventilating systems, Houses, Pharmaceutical industries and Hospital.



FEATURES

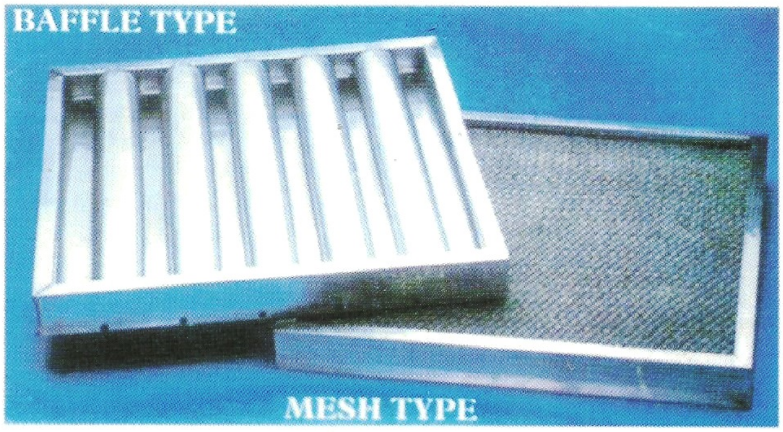
Filtering media is made for 100% Synthetic fiber. The progressive density of the media and the addition of non-flammable, non-migrating anti-microbial agent give an outstanding combination of high dust holding capacity with long life. They are available in plain or pleated version.

CONSTRUCTION

These are high efficiency air filter cells with a special electrostatic actioned multilayer filter media. They are composed of a galvanized steel, stainless steel and aluminum frame with two electrowelded and galvanized protection nets sandwiched with synthetic pads.

GREASE-GARD®

KITCHEN RANGEHOOD FILTERS



To reduce fire hazards while promoting kitchen sanitation, self-draining GREASE-GARD Mesh (DMGF) or Baffle (DBGF) type grease filters are the perfect choice. Heavy duty aluminum or stainless steel construction and a unique design give these grease filters high effective flame arrestore capabilities with 96% average grease removing efficiency. It provide an efficient, economical and convenient way to reduce grease and help maintain kitchen range hoods. The main objective is to protect motors and blowers, and prevent fire.

	MODEL NO	STD SIZE	CONSTRUCTION
Mesh Type	DMGF11-1020	10"x20"x1"	Aluminum Mesh
	DMGF11-1625	16"x25"x1"	Aluminum Mesh
	DMGF11-2020	20"x20"x1"	Aluminum Mesh
	DMGF11-2025	20"x25"x1"	Aluminum Mesh

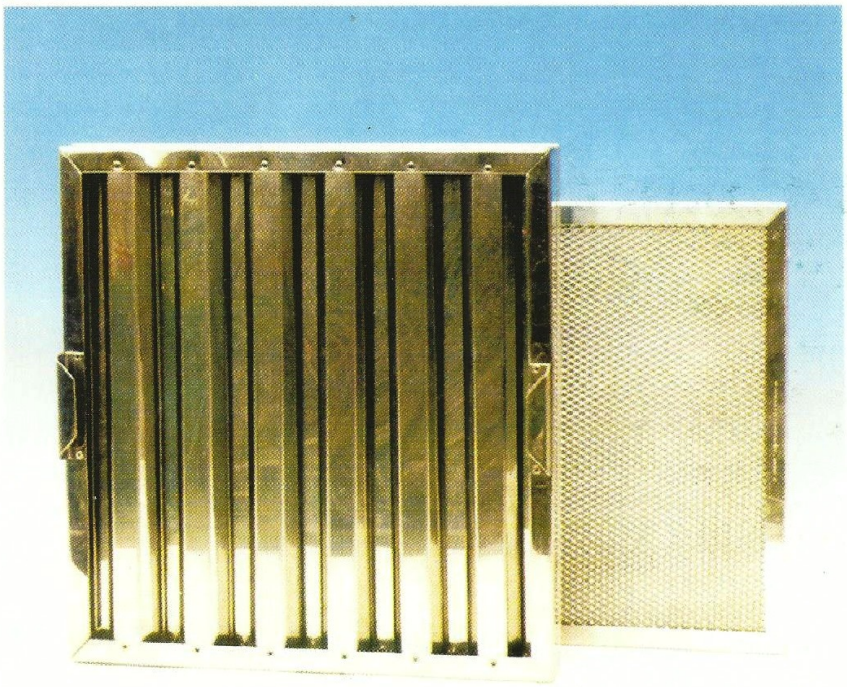
	MODEL NO	STD SIZE	CONSTRUCTION
Baffle Type	DBGF12-1020	10"x20"x2"	Aluminum
	DBGF12-1625	16"x25"x2"	Aluminum
	DBGF12-2020	20"x20"x2"	Aluminum
	DBGF12-2525	25"x25"x2"	Aluminum

	MODEL NO	STD SIZE	CONSTRUCTION
Baffle Type	DBGF13-1020	10"x20"x2"	Stainless Steel
	DBGF13-1625	16"x25"x2"	Stainless Steel
	DBGF13-2020	20"x20"x2"	Stainless Steel
	DBGF13-2525	25"x25"x2"	Stainless Steel

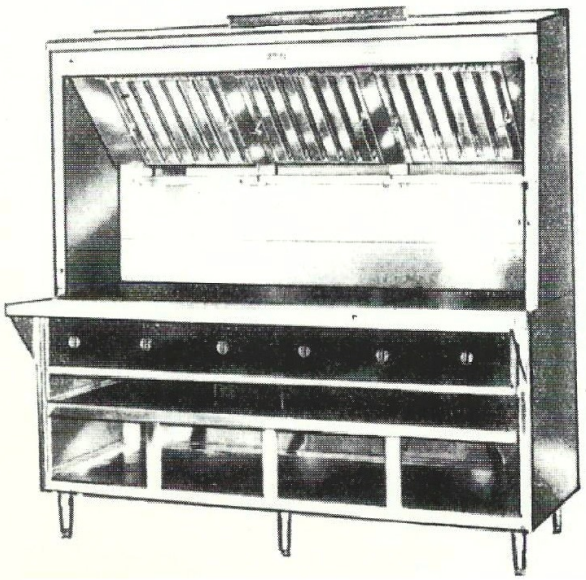
GREASE-GARD®

KITCHEN RANGEHOOD FILTERS

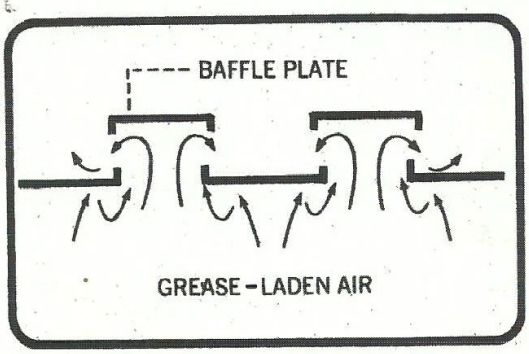
Application & Installation



EASE OF INSTALLATION



HOW FIRE PROTECTOR WORKS



MICRO-DAFF99®

HIGH CAPACITY

TECHNICAL DATA

DAFF

Model No	Height (inches)	Width (inches)	Depth (inches)	Nominal Airflow @ 1inch W.G. CFM	Nominal Airflow @ 1inch W.G. m^3/hr	Frame Construction
DMICH63-08083	8	8	3-1/16	33	56	Galvanized Steel
DMICH63-08081	8	8	5-7/8	73	124	Galvanized Steel
DMICH63-12121	12	12	5-7/8	198	337	Galvanized Steel
DMICH63-12122	12	12	11-1/2	330	561	Galvanized Steel
DMICH63-24121	24	12	5-7/8	396	673	Galvanized Steel
DMICH63-24122	24	12	11-1/2	693	1178	Galvanized Steel
DMICH63-24241	24	24	5-7/8	792	1347	Galvanized Steel
DMICH63-24242	24	24	11-1/2	1518	2580	Galvanized Steel
DMICH63-24301	24	30	5-7/8	990	1683	Galvanized Steel
DMICH63-24302	24	30	11-1/2	1914	3254	Galvanized Steel
DMICH63-24361	24	36	5-7/8	1188	2020	Galvanized Steel
DMICH63-24481	24	48	5-7/8	1624	2760	Galvanized Steel
DMICH64-08083	8	8	3-1/16	33	56	Wooden
DMICH64-08081	8	8	5-7/8	73	124	Wooden
DMICH64-12121	12	12	5-7/8	198	337	Wooden
DMICH64-12122	12	12	11-1/2	330	561	Wooden
DMICH64-24121	24	12	5-7/8	396	673	Wooden
DMICH64-24122	24	12	11-1/2	693	1178	Wooden
DMICH64-24241	24	24	5-7/8	792	1347	Wooden
DMICH64-24242	24	24	11-1/2	1518	2580	Wooden
DMICH64-24301	24	30	5-7/8	990	1683	Wooden
DMICH64-24302	24	30	11-1/2	1914	3254	Wooden
DMICH64-24361	24	36	5-7/8	1188	2020	Wooden
DMICH64-24481	24	48	5-7/8	1624	2760	Wooden
DMICH65-08083	8	8	3-1/16	33	56	Aluminum
DMICH65-08081	8	8	5-7/8	73	124	Aluminum
DMICH65-12121	12	12	5-7/8	198	337	Aluminum
DMICH65-12122	12	12	11-1/2	330	561	Aluminum
DMICH65-24121	24	12	5-7/8	396	673	Aluminum
DMICH65-24122	24	12	11-1/2	693	1178	Aluminum
DMICH65-24241	24	24	5-7/8	792	1347	Aluminum
DMICH65-24242	24	24	11-1/2	1518	2580	Aluminum
DMICH65-24301	24	30	5-7/8	990	1683	Aluminum
DMICH65-24302	24	30	11-1/2	1914	325	Aluminum
DMICH65-24361	24	36	5-7/8	1188	2020	Aluminum
DMICH65-24481	24	48	5-7/8	1624	2760	Aluminum
DMICH66-08083	8	8	3-1/16	33	56	Stainless Steel
DMICH66-08081	8	8	5-7/8	73	124	Stainless Steel
DMICH66-12121	12	12	5-7/8	198	337	Stainless Steel
DMICH66-12122	12	12	11-1/2	330	56	Stainless Steel
DMICH66-24121	24	12	5-7/8	396	673	Stainless Steel
DMICH66-24122	24	12	11-1/2	693	1178	Stainless Steel
DMICH66-24241	24	24	5-7/8	792	1347	Stainless Steel
DMICH66-24242	24	24	11-1/2	1518	2580	Stainless Steel
DMICH66-24301	24	30	5-7/8	990	1683	Stainless Steel
DMICH66-24302	24	30	11-1/2	1914	3254	Stainless Steel
DMICH66-24361	24	36	5-7/8	1188	2020	Stainless Steel
DMICH66-24481	24	48	5-7/8	1624	2760	Stainless Steel

MICRO-DAFF99®

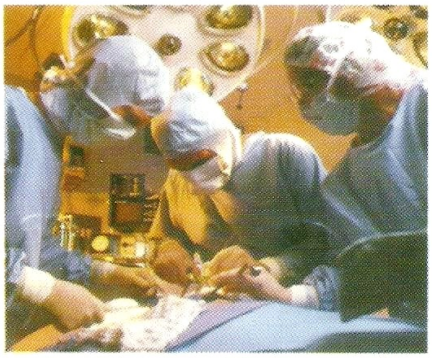
TECHNICAL DATA

Model No	Height (inches)	Width (inches)	Depth (inches)	Nominal Airflow @ 1inch W.G.		Frame Construction
				CFM	m^3/hr	
DMIC63-08083	8	8	3-1/16	25	43	Galvanized Steel
DMIC63-08081	8	8	5-7/8	55	94	Galvanized Steel
DMIC63-12121	12	12	5-7/8	150	255	Galvanized Steel
DMIC63-12122	12	12	11-1/2	250	425	Galvanized Steel
DMIC63-24121	24	12	5-7/8	300	510	Galvanized Steel
DMIC63-24122	24	12	11-1/2	525	893	Galvanized Steel
DMIC63-24241	24	24	5-7/8	600	1020	Galvanized Steel
DMIC63-24242	24	24	11-1/2	1150	1955	Galvanized Steel
DMIC63-24301	24	30	5-7/8	750	1275	Galvanized Steel
DMIC63-24302	24	30	11-1/2	1450	2465	Galvanized Steel
DMIC63-24361	24	36	5-7/8	900	1530	Galvanized Steel
DMIC63-24481	24	48	5-7/8	1230	2090	Galvanized Steel
DMIC64-08083	8	8	3-1/16	25	43	Wooden
DMIC64-08081	8	8	5-7/8	55	94	Wooden
DMIC64-12121	12	12	5-7/8	150	255	Wooden
DMIC64-12122	12	12	11-1/2	250	425	Wooden
DMIC64-24121	24	12	5-7/8	300	510	Wooden
DMIC64-24122	24	12	11-1/2	525	893	Wooden
DMIC64-24241	24	24	5-7/8	600	1020	Wooden
DMIC64-24242	24	24	11-1/2	1150	1955	Wooden
DMIC64-24301	24	30	5-7/8	750	1275	Wooden
DMIC64-24302	24	30	11-1/2	1450	2465	Wooden
DMIC64-24361	24	36	5-7/8	900	1530	Wooden
DMIC64-24481	24	48	5-7/8	1230	2090	Wooden
DMIC65-08083	8	8	3-1/16	25	43	Aluminum
DMIC65-08081	8	8	5-7/8	55	94	Aluminum
DMIC65-12121	12	12	5-7/8	150	255	Aluminum
DMIC65-12122	12	12	11-1/2	250	425	Aluminum
DMIC65-24121	24	12	5-7/8	300	510	Aluminum
DMIC65-24122	24	12	11-1/2	525	893	Aluminum
DMIC65-24241	24	24	5-7/8	600	1020	Aluminum
DMIC65-24242	24	24	11-1/2	1150	1955	Aluminum
DMIC65-24301	24	30	5-7/8	750	1275	Aluminum
DMIC65-24302	24	30	11-1/2	1450	2465	Aluminum
DMIC65-24361	24	36	5-7/8	900	1530	Aluminum
DMIC65-24481	24	48	5-7/8	1230	2090	Aluminum
DMIC66-08083	8	8	3-1/16	25	43	Stainless Steel
DMIC66-08081	8	8	5-7/8	55	94	Stainless Steel
DMIC66-12121	12	12	5-7/8	150	255	Stainless Steel
DMIC66-12122	12	12	11-1/2	250	425	Stainless Steel
DMIC66-24121	24	12	5-7/8	300	510	Stainless Steel
DMIC66-24122	24	12	11-1/2	525	893	Stainless Steel
DMIC66-24241	24	24	5-7/8	600	1020	Stainless Steel
DMIC66-24242	24	24	11-1/2	1150	1955	Stainless Steel
DMIC66-24301	24	30	5-7/8	750	1275	Stainless Steel
DMIC66-24302	24	30	11-1/2	1450	2465	Stainless Steel
DMIC66-24361	24	36	5-7/8	900	1530	Stainless Steel
DMIC66-24481	24	48	5-7/8	1230	2090	Stainless Steel

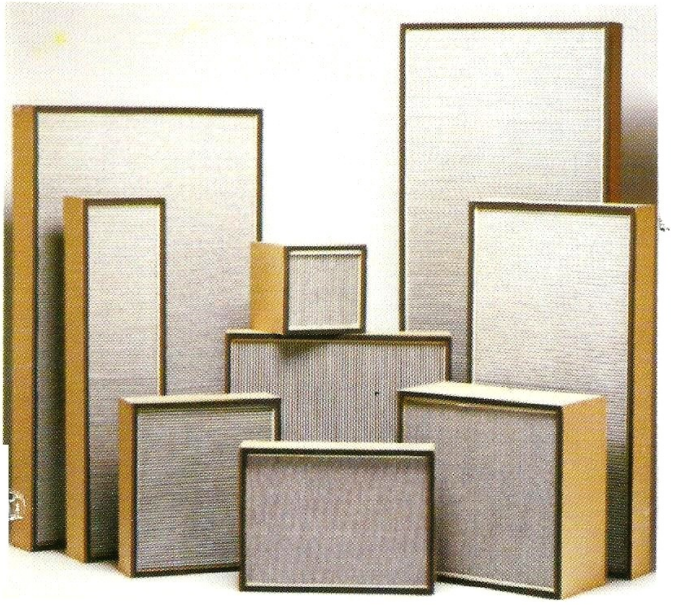
* Height and Width of the filters are Exact Sizes

MICRO-DAFF99®

ABSOLUTE H.E.P.A. FILTER









MICRO-DAFF99®



MICRO-DAFF99 Filters are available in a wide variety of standard sizes and construction materials. Filters can also be fabricated to a specific size or by using special material customized requirements. Careful selection of the right combination will ensure the filter that best meet the customer's needs.

CELL SIDES

Plywood and Particle Board

Exterior grade plywood and particle board is used. The edges are but jointed and mechanically fixed to ensure a strong corner joint.

Metal

The standard metal is used is galvanized steel, but stainless steel and aluminum are available as options. Cell sides are bolted together for a close fit.

MEDIA

MICRO-DAFF media are made from submicron glass fibers, formed into a high density paper. Continuos sheets are pleated to provide a high ratio of media to face area, resulting in a low velocity through the media essential for ultra high efficiency filtration. MICRO-DAFF media are waterproof and fire retardant.

MINIMUM EFFICIENCY

Every MICRO-DAFF is individually tested to guarantee the minimum overall efficiency stated on the filter.

BOND

The media pack is thoroughly sealed to the inside of the cell with a cold cured resin to prevent bypass leakage around the pack. The sealant totally encapsulates media edges and separators, closing off all leak paths.

GASKET

MICRO-DAFF filters are standard provided with a gasket ensuring an air tight seal between filter and frame.

For Standard applications a one piece gasket is used. For high temperature applications (upto 260°C) .

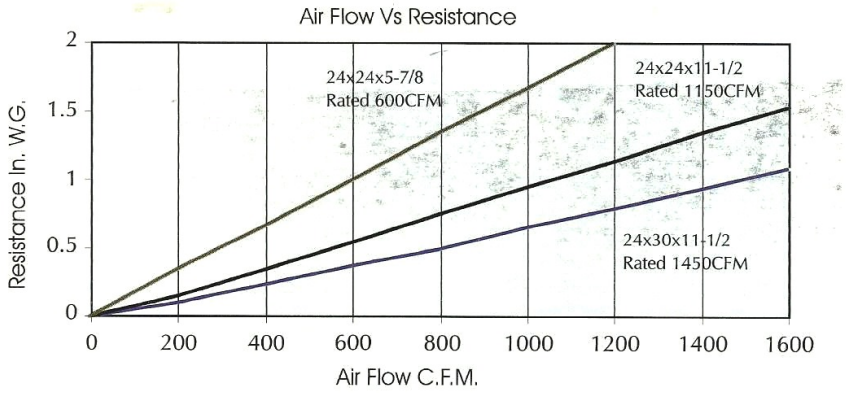
TESTING PROCEDURES

Each filter individually does tested and certified for efficiency and initial resistance by state-of -the art testing technology, use of dual laser spectrometer. Also scanning to verify leak-free filters. In addition DAFF is D.O.P (Dioctyl Phthalate) tested in accordance with army Insert. Manual 136-300-175A, using cold DOP smoke particles. DAFF is guaranteed to be at least 99.97% efficient in removing 0.3 micron. The 99.99% efficiency filter is scanned to detect minute leaks within 0.1 micron.

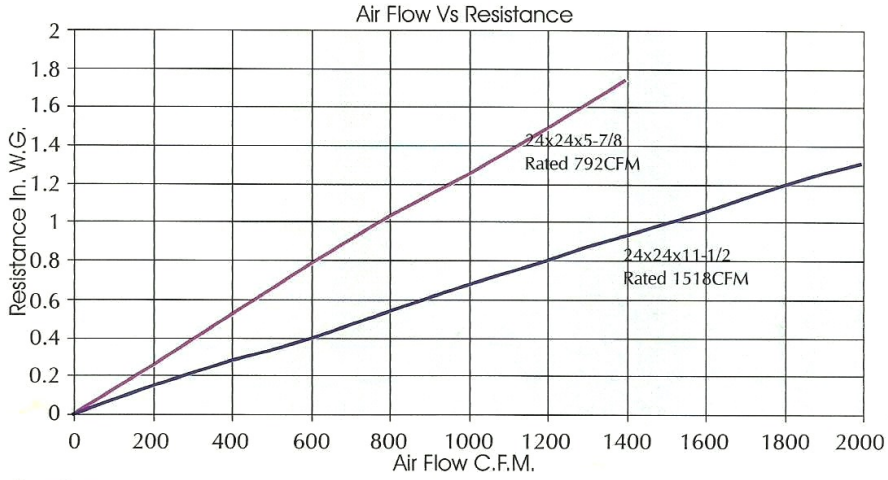
MICRO-DAFF99®

PERFORMANCE CURVE

Standard Capacity



High Capacity



Areas of Application

Reasons and areas with an important need for eliminating submicron particles could be

- Protection against bacteria and virus
  Hospitals, laboratories
- Protection against radioactive particles
  Nuclear power station, processing plants, laboratories
- Protection against dangerous material
  Bombshelters, gasmasks, industrial process
- Protection in the production
  Drugs, optic and precision mechanical production, electronic components
- Protection of products
  Sensitive electronic equipment, computers.

LAMI-CELL®

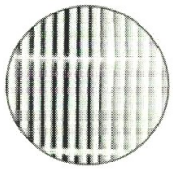
LAMI-CELL filter use thermoplastic hot melt as separators, which permits a very dense packing of filter media. LAMI-CELL filters save space and are substantially lighter than traditional filters using corrugated aluminum separators. Being easier to install, they are ideal for use in ceiling mounted systems and Clean Benches where space is limited.

CELL SIDES

The cell sides are made from a specially designed anodized aluminum extruded profile. Also, available in Plywood and Particles Board.

MEDIA

The media used for LAMI-CELL is the same type of waterproof, fire retardant glass fiber paper media as used for MICRO-DAFF.



Close-pleat tapered construction with hot melt as separators.

INSTALLATION

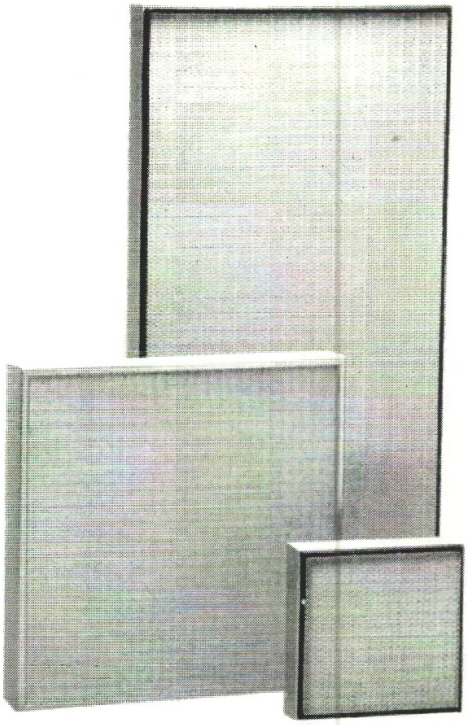
Unlike traditional separator-type HEPA filter, the LAMI-CELL can be installed with pleats in either the vertical or horizontal plane.

FACE GUARD

The standard LAMI-CELL is supplied with one faceguard. Filter with no faceguard or faceguards on both sides are available options.

GASKETS

The standard LAMI-CELL is supplied with an integrated 'one-piece' gasket to ensure failsafe installation in any type of frame.



SEPARATORS

The thermoplastic separators maintain uniform spacing between pleats to allow optimal flow of air into and through the filter. They also insure large effective media area for low resistance and high dust holding capacity.

MINIMUM EFFICIENCY

LAMI-CELL filters are guaranteed for minimum over efficiency 99.999% on 0.3 micron particles and 99.9995% on 0.12 micron particles.

LEAK TESTING

ULPA filters are standard leak tested to eliminate pinhole leaks according to DIN 24184.

LAMI-CELL®

(ULPA Filter: >99.9995%)

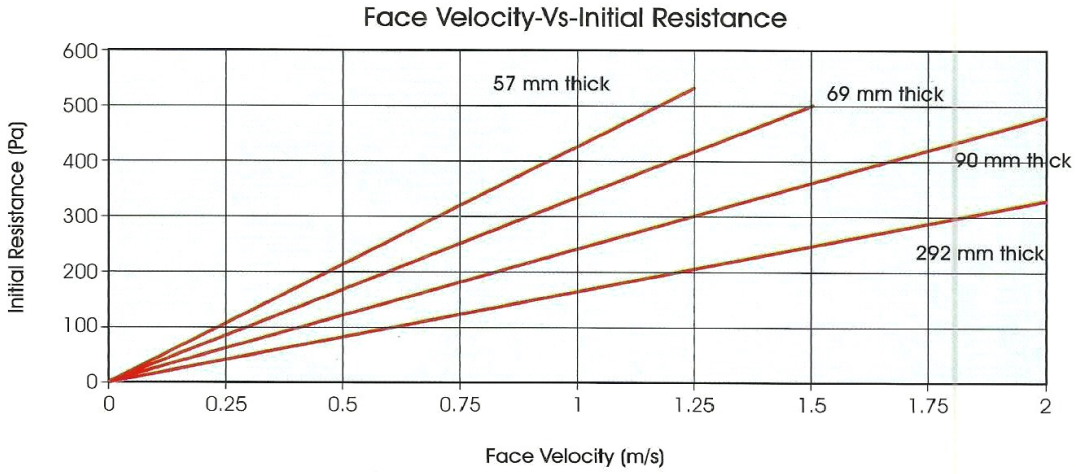
TECHNICAL DATA

MODEL NO	Frame Dimension (WxHxD) mm	Media Surface (m^2)	Initial Pressure drop @ 0.45m/s face velocity (in Pa)	Nominal Airflow @ 0.45 m/s		
				m^3/h	m^3/s	CFM
DLFH68-12122	305x305x57	2.0	200	150	0.04	88
DLFH68-12242	305x610x57	4.2	195	300	0.08	176
DLFH68-12302	305x762x57	5.3	195	375	0.10	220
DLFH68-12362	305x914x57	6.3	195	450	0.13	265
DLFH68-24242	610x610x57	8.5	195	605	0.17	355
DLFH68-24302	610x762x57	10.7	195	755	0.21	445
DLFH68-24362	610x914x57	12.8	195	905	0.25	535
DLFH68-30362	762x914x57	16.1	195	1130	0.31	665
DLFH68-36362	914x914x57	19.4	195	1355	0.38	800
DLFH68-48242	1219x610x57	17.0	195	1205	0.33	710
DLFH68-48302	1219x762x57	21.4	195	1505	0.42	885
DLFH68-48362	1219x914x57	25.7	195	1805	0.50	1060
DLFH68-60242	1524x610x57	21.4	195	1505	0.42	885
DLFH68-12122	1524x762x57	26.7	195	1880	0.52	1100
DLFH69-12123	305x305x69	2.7	165	150	0.04	88
DLFH69-12243	305x610x69	5.6	160	300	0.08	176
DLFH69-12303	305x762x69	7.1	160	375	0.10	220
DLFH69-12363	305x914x69	8.5	160	450	0.13	265
DLFH69-24243	610x610x69	11.3	160	605	0.17	355
DLFH69-24303	610x762x69	14.2	160	755	0.21	445
DLFH69-24363	610x914x69	17.1	160	905	0.25	535
DLFH69-30363	762x914x69	21.5	160	1130	0.31	665
DLFH69-36363	914x914x69	25.8	160	1355	0.38	800
DLFH69-48243	1219x610x69	22.7	160	1205	0.33	710
DLFH69-48303	1219x762x69	28.5	160	1505	0.42	885
DLFH69-48363	1219x914x69	34.3	160	1805	0.50	1060
DLFH69-60243	1524x610x69	28.5	160	1505	0.42	885
DLFH69-12123	1524x762x69	35.7	160	1880	0.52	1100
DLFH70-12124	305x305x90	3.7	135	150	0.04	88
DLFH70-12244	305x610x90	7.5	130	300	0.08	176
DLFH70-12304	305x762x90	9.5	130	375	0.10	220
DLFH70-12364	305x914x90	11.4	130	450	0.13	265
DLFH70-24244	610x610x90	15.2	130	605	0.17	355
DLFH70-24304	610x762x90	19.0	130	755	0.21	445
DLFH70-24364	610x914x90	22.9	130	905	0.25	535
DLFH70-30364	762x914x90	28.6	130	1130	0.31	665
DLFH70-36364	914x914x90	34.4	130	1355	0.38	800
DLFH70-48244	1219x610x90	30.5	130	1205	0.33	710
DLFH70-48304	1219x762x90	38.2	130	1505	0.42	885
DLFH70-48364	1219x914x90	46.0	130	1805	0.50	1060
DLFH70-60244	1524x610x90	38.1	130	1505	0.42	885
DLFH70-12124	1524x762x90	47.8	130	1880	0.52	1100
DLFH70-60364	1524x914x90	57.5	130	2260	0.63	1330
DLFH71-12122	305x305x292	3.7	250	500	0.14	295
DLFH71-24122	610x305x292	7.5	250	1000	0.28	560
DLFH71-24242	610x610x292	15.2	250	2000	0.56	1175
DLFH71-24302	610x762x292	19.0	250	2500	0.69	1470

LAMI-CELL®

(ULPA Filter: >99.9995%)

PERFORMANCE CURVE



Better Air Everywhere

DESERT AIR FILTER FACTORY

P. O. BOX 120, RYADH 11383, K. S. A.
TEL: +966 1 265 0567 FAX: +966 1 265 0287

BRANCH OFFICES

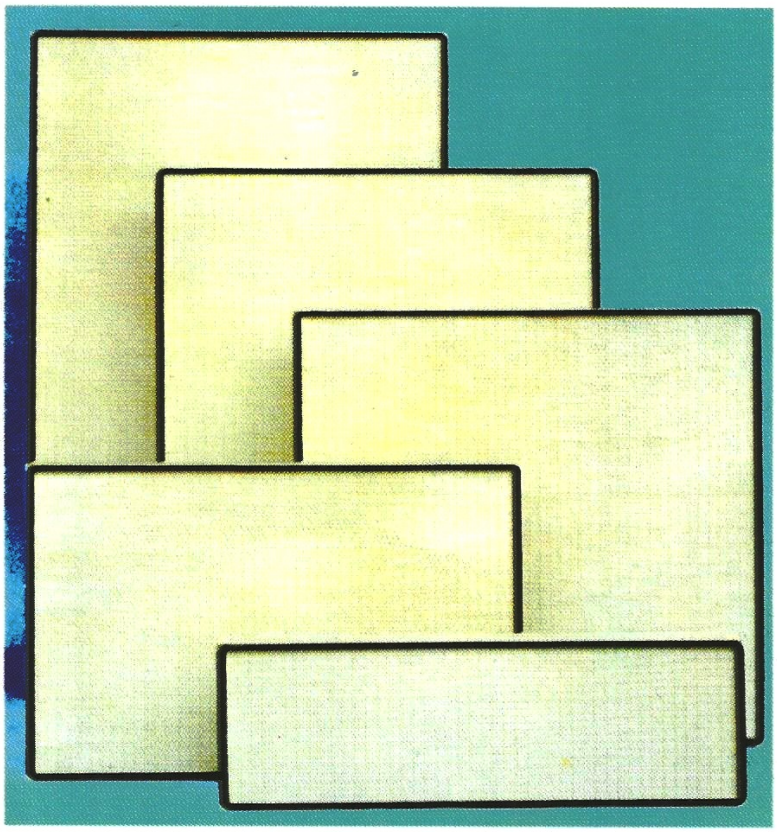
P. O. BOX 110176
JEDDAH 21361, K. S. A.
Tel. (966) 2 640 6841
Fax: (966) 2 640 6923

P. O. BOX 4580
AL KHOBAR, K. S. A.
Tel. (966) 3 857 2778
Fax: (966) 3 857 2866

P. O. BOX 30115
DUBAI, U. A. E.
Tel. (971) 4 333 6564
Fax: (971) 4 333 6116

LAMI-CELL®

MINI-PLEAT HEPA FILTER



FOR HOSPITALS AND CLEANROOMS

DAFF offers you a broader selection of High efficiency filters than any other manufacturer. Also available is wide choice of ceiling modules, ceiling grids, teardrop light fixtures and framing devices: in fact, all the products needed of complete cleanroom filtration system.

High efficiency filters have a broad range of application in cleanrooms and other areas where contamination control is critical, for example:

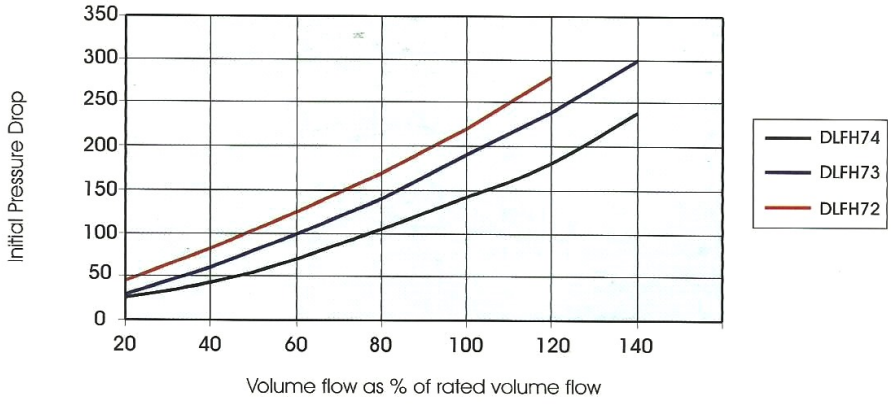
- ❑ Semiconductor production
- ❑ Pharmaceutical Plants
- ❑ Photo and film Manufacturing
- ❑ Nuclear Power Station
- ❑ Food Processing Units
- ❑ Compact disc manufacturing
- ❑ Electronics
- ❑ Hospitals
- ❑ Laboratories

LAMI-CELL II®

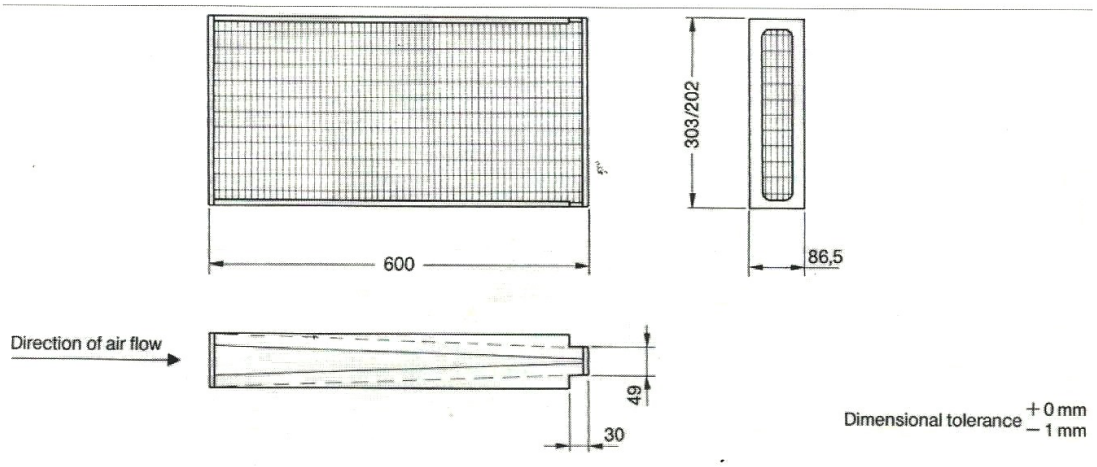
TECHNICAL DATA

Model No	DLFH72			DLFH73			DLFH74		
Size (W x H x D)	600	65	202	305	86.5	600	202	86.5	600
Efficiency (%)	99.997			99.997			99.997		
Rated Volume Flow (M^3/H)	230	230	230	330	330	330	230	230	230
Initial Pressure Drop (Pa)	110	150	180	155	200	250	160	200	250
Recom Final Pressure Drop (Pa)	300	400	500	450	550	700	450	550	700

Air Flow - Vs - Resistance



CONSTRUCTION

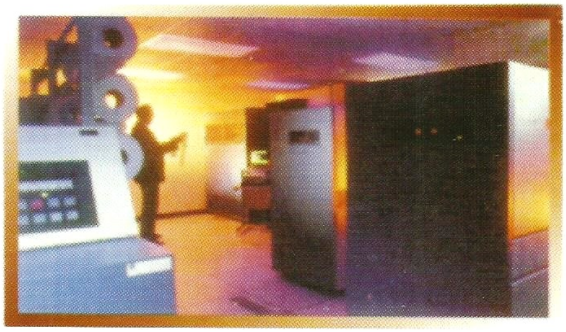


LAMI-CELL II®

MINIPLEAT FINE DUST FILTERS

APPLICATION

Used as pre-filters and main filters in ventilation and air-conditioning systems which require high volume flows and extended filter life. Their dimensions provide an optimi, matching to pre-designed installation cross-selections and are suitable filter very small installation depths.



FILTER MEDIA

The filter media used for LAMI-CELL II Minipleat Fine dust filters are glass fiber paper with various dust extraction efficiencies. The structure and composition of which can meet temperature and humidity requirements. The thermoplastic separators maintain uniform spacing between pleats to allow optimal flow of air into and through the filter. They also ensure large effective media area for low resistance and high dust holding capacity.

MINIMUM EFFICIENCY

LAMI-CELL II filters are guaranteed for minimum over efficiency 99.999% on 0.3micron particles and 99.9995% on 0.12 micron particles.

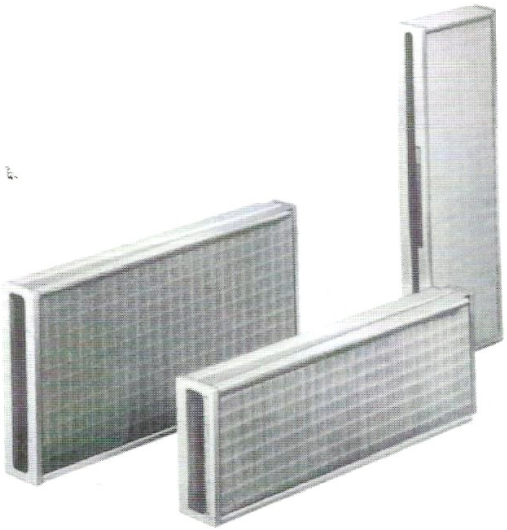
SEALING

The filter elements are joined together by special adhesive tape to the holding frame or installation housing which also provides an airtight seal.

FILTER CASING

Casing can be constructed from galvanized steel, aluminum or stainless steel to provide the appropriate corrosion protection.

Available Sizes
600 W x 65 H x 202 D mm
303 W x 86.5 H x 600 D mm
202 W x 86.5 H x 600 D mm



MAXI-CELL®

APPLICATION

MAXI-CELL is a High Efficiency Particulate Air(HEPA) filters designed to provide high quality air filtration on fine particulate matter, bacteria, gems and viruses. Their areas of application include cleanrooms and cleanbenches in the pharmaceutical, microelectronic, precision instrumentation, optical, food processing industries, hospitals and laboratories.

MAXI-CELL (DMFH69-24241) is a high capacity filter with 4000m^3/hour airflow capability while the MAXI-CELL (DMFH69-24121) is a half size model with a capacity of 1500m^3/hour. The media to area ratio of both filters is optimized to provide a low resistance and low air velocity factors which are essential for high efficiency filtration. The efficiency of both filters is 99.99%.

MEDIA

MAXI-CELL media is made of a high density paper formed from submicron glass fiber material. The media has been carefully selected for its high efficiency on fine particulate matter as well as its long service life. It is fire retardant and can withstand intermittent exposure to water with no undesirable effect in filter performance.

CONSTRUCTION

The filter media is accommodated in a strong housing made of galvanized steel. Mini-pleat thermoplastic seperators are used to maintain uniform spacing between media pleats and provide an optimal airflow through the filter, a characteristic that boosts the dust holding capacity of the media. The compact, sturdy construction prevents damage during handling and operation and facilities safe transport and installation.

THE MAXI-CELL MEANS SUBSTANTIAL COST SAVINGS

For new installations

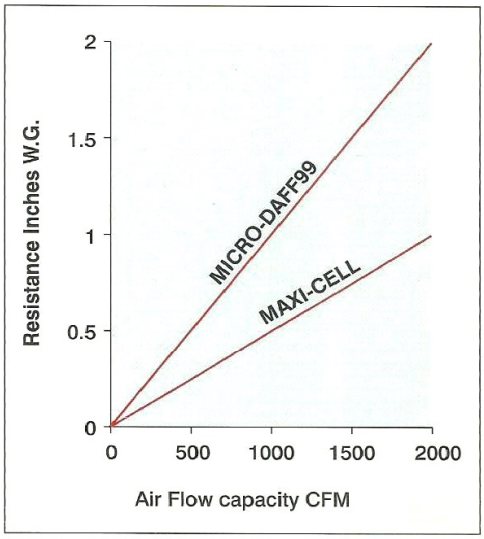
When rated at 500FPM, only half as many cells are required to handle the same air volumes as standard 250fpm filters. The larger capacity MAXI-CELL offers:

- ☐ Lower installed costs
- ☐ Reduced maintenance time
- ☐ Reduced system down time
- ☐ Lower costs for disposing of used filters

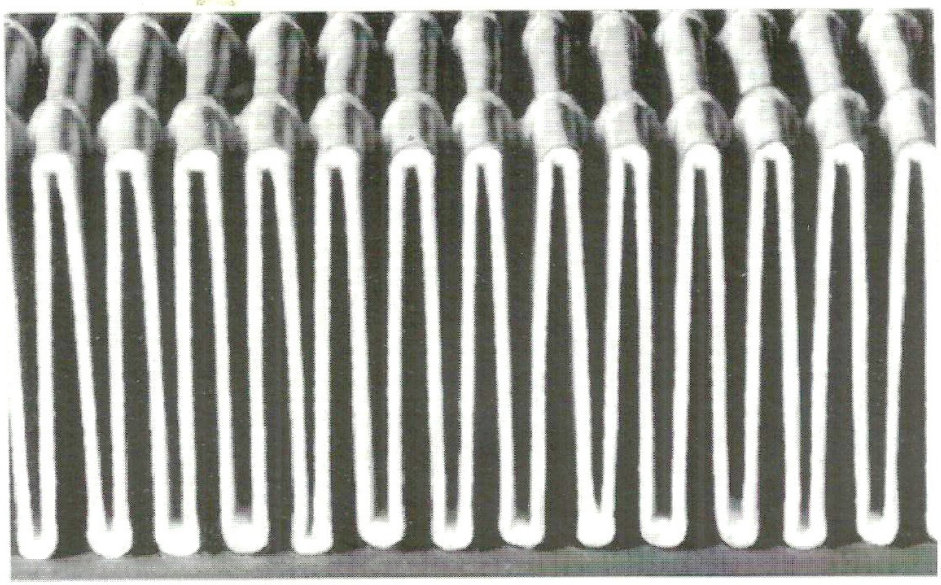
For replacement installations

When MAXI-CELL filters are installed in existing installations to replace standard 250FPM HEPA filters offers:

- ☐ Lower initial resistance
- ☐ Greatly increased dust holding capacity
- ☐ Longer maintenance intervals
- ☐ Significant energy savings



MAXI-CELL®



MAXI-CELL FILTER MINIPLEAT MEDIA

A completely new design, the MAXI-CELL filter features a 2000cfm capacity and 500FPM face velocity at 1 inch W.G. initial pressure drop.

MAXI-CELL is the most important innovation in the history of high efficiency particulate air filtration. This means for the first time, there is a HEPA filter with face velocity equal to that of typical coils and other HVAC components. No other HEPA filters can offer these features.

The MAXI-CELL is a high efficiency particulate filter (HEPA) filter having a minimum efficiency of 99.97% on 0.3 microns DOP particles.

Unique V-Panel Filter pack

DAFF achieved the higher capacities through the use of an all new panel/pack construction which results in twice as much media in the same spaces as standard size 24x24x11-1/2 inch HEPA filters.

The filter media of sub-micron glass fiber paper is folded into a closely pleated panel pack. The pleats are held open by ribbons of filter media which support the pleats and allow air flow through the media with minimum resistance.

The pleated panels are assembled in the filter in a multiple V-bank arrangements. They are recessed from the face of the filter, providing additional protection from damage. The media packs are completely sealed with in the metal cell sides with a custom formulated fire retardant epoxy.

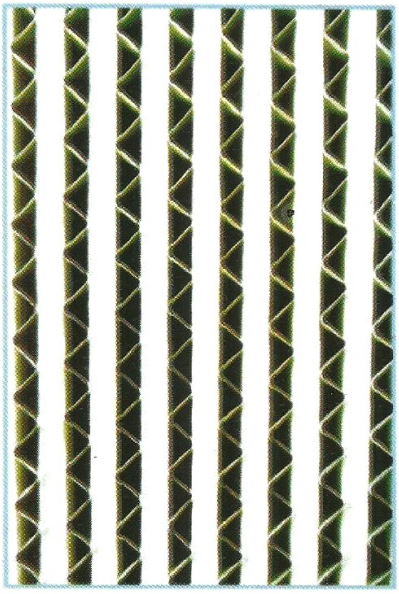
Two-Piece Cell Side

The new cell side design allows complete utilization of space within the filter for more media. It also results in extremely durable construction which is far more resistant to damage during shipping handling and installation, than the traditional HEPA filter.

MAXI-CELL®

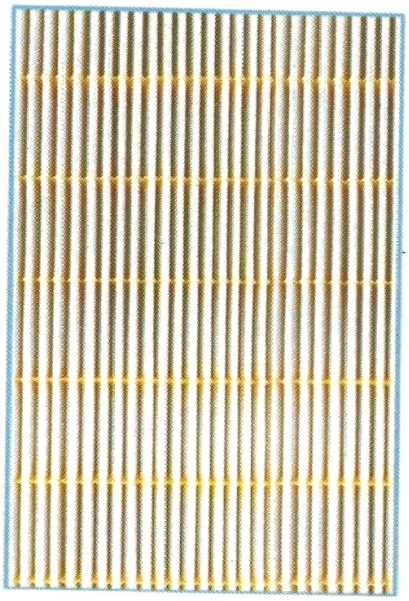
COMPARISON BETWEEN
CORRUGATED ALUMINUM SEPARATOR STYLE HEPA FILTER
AND
MINI-PLEAT STYLE HEPA FILTER

MICRO-DAFF
24x24x12
Standard Style HEPA filter



In a conventional corrugated aluminum separator style HEPA filter, surface area is increased by pleating a continuos strip of media back and forth over corrugated spaces to position and separate the media. So an accordion like pack occurs. The flow is limited since the number of pleat is physically limited within a given filter area. The air flow can be increased by increasing the filter depth.

MAXI-CELL
24x24x12
Mini-Pleat Style HEPA filter

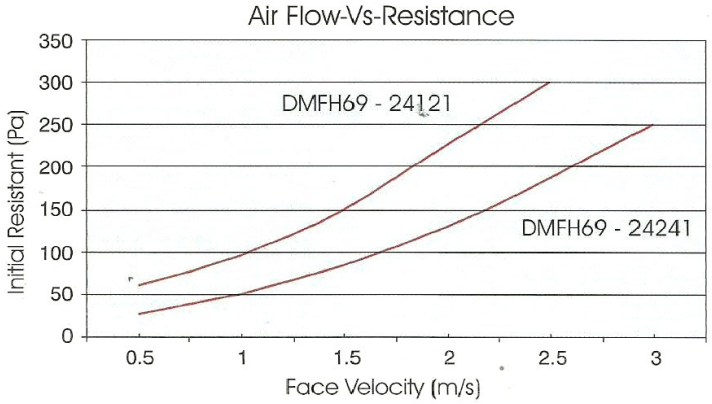


Mini-Pleat style HEPA filters use thin stripes of corrugated separators. More importantly by eliminating the corrugated aluminum separators the filter out performs the corrugated separator type filters which may be twice as deep. So the mini pleat type HEPA filters meet today's clean air environment needs and are ideal for situations where space weight and energy savings are critical requirements.

MAXI-CELL®

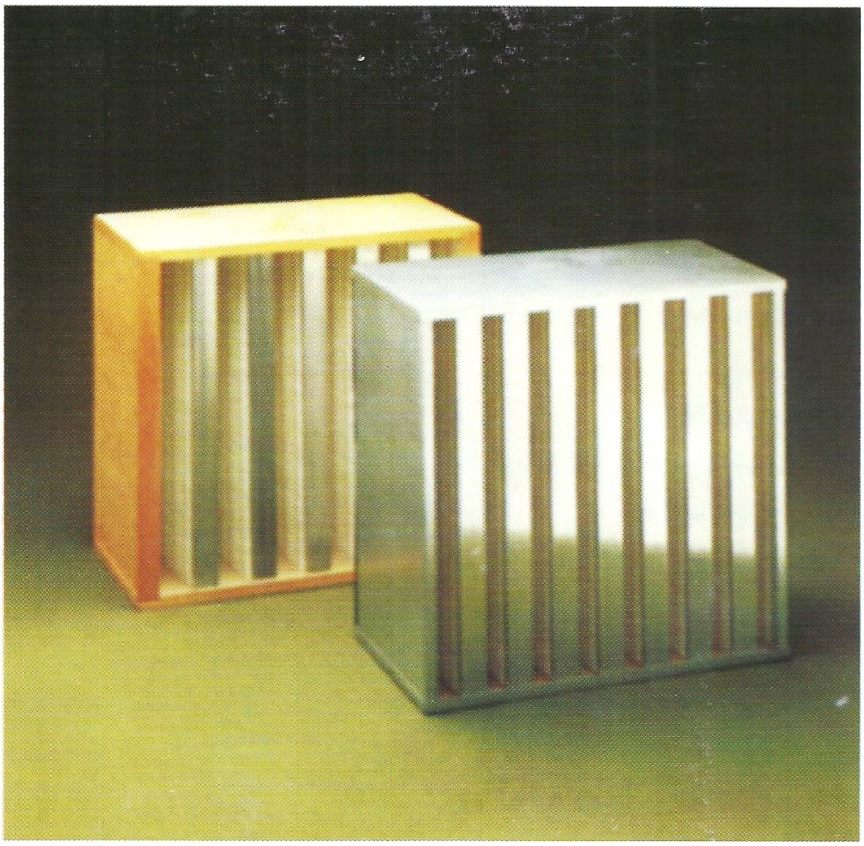
TECHNICAL DATA

Model No	DMFH69-24241	DMFH69-24121
Size (less gasket)(mm)	610 x 610 x 292	610 x 305 x 292
Media	Glass Fiber Paper	Glass Fiber Paper
Media Pcks (no)	10	4
Media area (m^2)	38	15.5
Cell Sides	Galvanized Steel	Galvanized Steel
Separators	Thermoplastic	Thermoplastic
Adhesive bond	Hot Melt Thermoplastic	Hot Melt Thermoplastic
Gasket	One piece half rounded polyurethane foam	One piece half rounded polyurethane foam
Efficiency(%)	99.99 @ 0.3 micon	99.99 @ 0.3micron
Temperature limit (^oC)	80	80
Capacity (m^3/h)	4000	1500
Initial Resistance (Pa)	250	250
Recom. Final Resistance(Pa)	750	750
Brust Pressure (Pa)	>1000	>1000
Weight(Kg)	± 20	±10



MAXI-CELL®

MINIPLEAT V - BANK HEPA FILTER



FEATURES

- **High quality filtration on fine particulate matter**
- **High media to area ratio provides high efficiency filtration**
- **99.99% efficiency**
- **Easy to install and handle**
- **Robust construction**
- **Best use for pharmaceutical plants and hospitals**



METALIKA®

High Velocity Panel Filters

APPLICATION

The line of DAFF high velocity panel filters (METALIKA) enjoys a wide range of applications. Due to the unique design of the media, these filters offers the benefits of high velocity to those air handling requirements best served by permanent panel filters. Actually 2 DAFF high velocity filters can do the work of 3 ordinary panel filters. The resulting savings in original costs, space requirements and maintenance expenses are readily apparent.

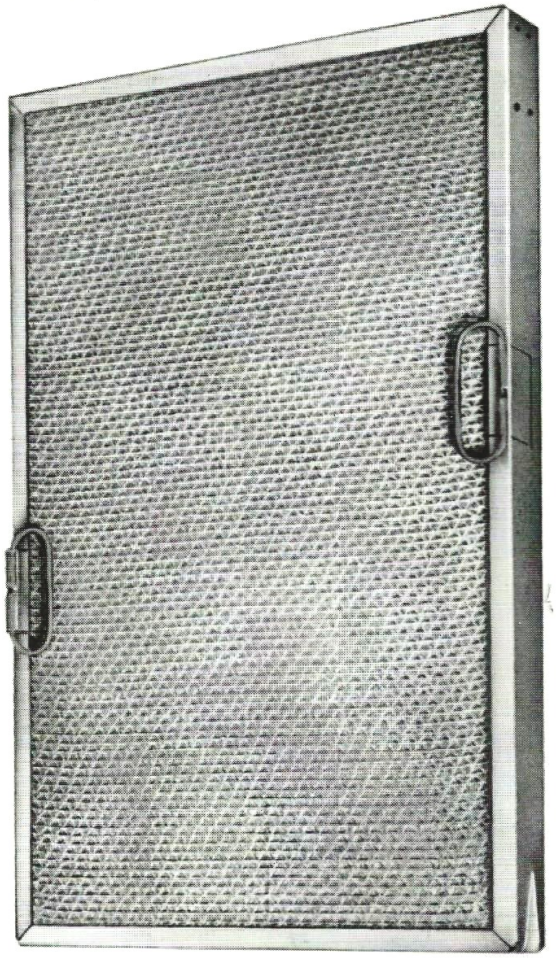
Because DAFF's METALIKA filters handle more air per panel, a more economical flat bank can be used to fit spaces where V-banks would ordinarily be required.

PERFORMANCE

An important factor in judging the efficiency of a filter is the size of the particles which are to be filtered. DAFF filters are tested in a series of dusts in several known particle size ranges. The efficiency of a standard 2" METALIKA filter in the various particles size ranges is shown in the accompanying chart.

Size Range (Microns)	Efficiency	
0 - 5	37.7%	**Filter Size:** 20"x20"x1" **Air Flow:** 519 fpm (1200cfm) **Test Dust:** Standard Fine Air Cleaner Test Dust, divided into the classification shown.
5 - 10	87.8%	
10 - 20	96.4%	
20 - 40	98.8%	
40 - 80	99.0%	

Average efficiency of a 2" METALIKA filter is 71.2% using the Cottrell Precipitate and Lint test. Dirt holding capacity on this same test is over 700 grams on a 20x20 size filter. Efficiency and dirt holding capacity using the Gravimetric test with Standardized Fine Air Cleaner Test dust is 75.5% and over 800grams.



DESIGN

The DAFF media is a fine wire mesh formed in alternate layers, flat and herringbone crimp, to form triangular openings facing the air stream. Air passes through this media at high velocity, changing direction frequently and impaging dirt particles on the wires of the mesh. High velocity air movement results in increased air capacity and higher cleaning efficiencies than ordinary impingement filters at the same or lower resistance of the filter. Actual weight of dirt collected, before excessive pressure drop is reached, runs as high as 9 to 1 over competitive filters.

METALIKA®

High Velocity Panel Filters

INSTALLATION

DAFF high Velocity filters are among the least expensive types of air filters to install. Installation is simple and easy because matching holding frames are designed to bolt together to form the filter bank. No utility connections are required.

MAINTENANCE

Due to the unique media construction DAFF METALIKA filters are unusually easy to clean. The media has no blind passages which clog up. A stream of water to cleaning solution can easily reach and flush out collected dirt.

Operating costs are lower than any other types of permanent filter because only periodic cleaning and oiling are necessary.

HOW TO SPECIFY

Filters shall be permanent, impingement, washable, all metal, panel type. Media shall be electro galvanized 14 mesh steel screen arranged in alternate layers of flat herringbone-crimp screens, 4 layers of each per inch, so that at no point is air flow restricted to flow through the screen 1/8" rod reinforced, and enclosed in a frame of 16 gauge galvanized steel, with flush mitered corners. Resistance to air flow of a clean filter shall not exceed 0.12" w.g. at 3.6 CFM per square inch of net face area.

Holding frames shall be factory built 16 gauge steel "T" section construction, with felt air seal interlocking edges and filter locking device, or 14 gauge steel "L" section with felt air seal and filter locking device.

TYPES AND APPLICATIONS

DWAF44 Standard 14 mesh zinc electroplated steel screen media arranged in alternate layers of flat and herringbone-crimp screens, 4 layers of each per inch. This filter with the bail handles. Handles mounted on long dimension of filter. This standard construction can be applied to most normal commercial and industrial atmospheric and manufactured dust application. Operated with adhesive coating in most applications. For ventilation, as a dust filter, air conditioning and the removal of paint, ink, oil and other contaminants.

TECHNICAL DATA

Face Velocity FPM	Pressure Loss W.G 1" filter	Pressure Loss W.G 2" filter	Pressure Loss W.G 4" filter	Cubic Feet Per Min. CFM				
				Size 16x20 Model No: DWAF44	Size 16x25 Model No: DWAF44	Size 20x20 Model No: DWAF44	Size 20x25 Model No: DWAF44	Size 24x24 Model No: DWAF44
346	0.051	0.06	0.120	625	795	800	1020	1190
390	0.062	0.07	0.146	700	895	900	1145	1340
433	0.075	0.09	0.176	780	995	1000	1275	1490
476	0.081	0.10	0.192	860	1092	1100	1400	1635
519	0.100	0.12	0.235	935	1195	1200	1530	1785
563	0.115	0.14	0.272	1015	1290	1300	1655	1935
606	0.128	0.16	0.308	1090	1390	1400	1780	2085
650	0.145	0.19	0.345	1170	1490	1500	1910	2235
693	0.160	0.21	0.382	1250	1590	1600	2035	2380

DYNA-PAC®

POCKET FILTERS

PERFORMANCE DATA

25-30% AVERAGE ASHRAE EFFICIENCY									
MODEL NO	NOMINAL SIZE W x L x D	NUMBER OF POCKETS	MEDIA AREA SQ.FT	CFM CAPACITY			RESISTANCE IN W.G.		
				LOW	MED	HIGH	LOW	MED	HIGH
DPAC37-1406	24 x 24 x 14	6	25	1500	2000	2500	0.18	0.25	0.30
DPAC37-1405	20 x 24 x 14	5	20	1250	1600	2000	0.18	0.26	0.30
DPAC37-1405	20 x 20 x 14	5	17	1150	1500	1750	0.18	0.26	0.30
DPAC37-1403	12 x 24 x 14	3	12	750	1000	1250	0.18	0.26	0.30
DPAC37-1806	24 x 24 x 18	6	42	2000	2500	3000	0.18	0.26	0.30
DPAC37-1805	20 x 24 x 18	5	35	1600	2000	2500	0.18	0.26	0.30
DPAC37-1805	20 x 20 x 18	5	30	1500	1750	2000	0.18	0.26	0.30
DPAC37-1803	12 x 24 x 18	3	21	1000	1250	1500		0.26	0.30

45-50% AVERAGE ASHRAE EFFICIENCY									
MODEL NO	NOMINAL SIZE W x L x D	NUMBER OF POCKETS	MEDIA AREA SQ.FT	CFM CAPACITY			RESISTANCE IN W.G.		
				LOW	MED	HIGH	LOW	MED	HIGH
DPAC38-1006	24 x 24 x 10	6	22	800	1200	1600	0.17	0.20	0.25
DPAC38-1005	20 x 24 x 10	5	18	650	1000	1250	0.17	0.20	0.25
DPAC38-1005	20 x 20 x 10	5	15	575	900	1050	0.17	0.20	0.25
DPAC38-1003	12 x 24 x 10	3	10	400	600	800	0.17	0.20	0.25
DPAC38-1506	24 x 24 x 15	6	33	1000	1500	2000	0.17	0.20	0.25
DPAC38-1505	20 x 24 x 15	5	28	750	1250	1500	0.17	0.20	0.25
DPAC38-1505	20 x 20 x 15	5	24	625	1150	1300	0.17	0.20	0.25
DPAC38-1503	12 x 24 x 15	3	16	500	750	1000	0.17	0.20	0.25
DPAC38-1806	24 x 24 x 18	6	40	1500	2000	2500	0.18	0.25	0.30
DPAC38-1805	20 x 24 x 18	5	33	1250	1600	2000	0.18	0.25	0.30
DPAC38-1805	20 x 20 x 18	5	28	1150	1500	1750	0.18	0.25	0.30
DPAC38-1803	12 x 24 x 18	3	20	750	1000	1250	0.18	0.25	0.30
DPAC38-2206	24 x 24 x 22	6	49	2000	2500	3000	0.25	0.30	0.40
DPAC38-2205	20 x 24 x 22	5	41	1600	2000	2500	0.25	0.30	0.40
DPAC38-2205	20 x 20 x 22	5	35	1500	1750	2000	0.25	0.30	0.40
DPAC38-2203	12 x 24 x 22	3	25	1000	1250	1500	0.25	0.30	0.40

* Recommanded final Resistance: 1.5 inch W.G.
** Non-Standard sizes available upon request
*** Actual size is 5/8" less than nominal size

DYNA-PAC®

POCKET FILTERS
PERFORMANCE DATA

60 - 65 % AVERAGE ASHRAE EFFICIENCY									
MODEL NO	NOMINAL SIZE W x L x D	NUMBER OF POCKETS	MEDIA AREA SQ.FT	CFM CAPACITY			RESISTANCE IN W.G.		
				LOW	MED	HIGH	LOW	MED	HIGH
DPAC39-1512	24 x 24 x 15	12	61	1000	1500	2000	0.13	0.23	0.35
DPAC39-1510	20 x 24 x 15	10	51	800	1250	1600	0.13	0.23	0.35
DPAC39-1506	12 x 24 x 15	6	30	500	750	1000	0.13	0.23	0.35
DPAC39-3610	24 x 24 x 36	10	120	2000	2500	-	0.25	0.30	-
DPAC39-3608	20 x 24 x 36	8	96	1600	2000	-	0.25	0.30	-
DPAC39-3605	12 x 24 x 36	5	60	1000	1250	-	0.25	0.30	-
DPAC39-3010	24 x 24 x 30	10	99	1500	2000	2500	0.17	0.25	0.30
DPAC39-3008	20 x 24 x 30	8	79	1200	1600	2000	0.17	0.25	0.30
DPAC39-3005	12 x 24 x 30	5	50	750	1000	1250	0.17	0.25	0.30
DPAC39-2210	24 x 24 x 22	10	76	1000	1500	2000	0.18	0.25	0.30
DPAC39-2208	20 x 24 x 22	8	61	800	1200	1600	0.18	0.25	0.30
DPAC39-2205	12 x 24 x 22	5	38	500	750	1000	0.18	0.25	0.30
DPAC39-3709	24 x 24 x 37	9	117	2000	2500	-	0.23	0.30	-
DPAC39-3009	24 x 24 x 30	9	87	1500	2000	2500	0.17	0.23	0.30
DPAC39-2209	24 x 24 x 22	9	69	1000	1500	2000	0.15	0.20	0.28
DPAC39-3608	24 x 24 x 36	8	100	1500	2000	2500	0.15	0.20	0.30
DPAC39-3606	20 x 24 x 36	6	75	1200	1600	2500	0.15	0.20	0.30
DPAC39-3604	12 x 24 x 36	4	50	750	1000	1250	0.15	0.20	0.30
DPAC39-3008	24 x 24 x 30	8	84	1500	2000	2500	0.20	0.25	0.35
DPAC39-3006	20 x 24 x 30	6	63	1200	1600	2000	0.20	0.25	0.35
DPAC39-3004	12 x 24 x 30	4	42	750	1000	1250	0.20	0.25	0.35
DPAC39-2208	24 x 24 x 22	8	62	1000	1500	2000	0.16	0.22	0.30
DPAC39-2206	20 x 24 x 22	6	47	800	1200	1600	0.16	0.22	0.30
DPAC39-2204	12 x 24 x 22	4	31	500	750	1000	0.16	0.22	0.30
DPAC39-3707	24 x 24 x 37	7	94	1500	2000	2500	0.18	0.26	0.33
DPAC39-3007	24 x 24 x 30	7	70	1500	2000	2500	0.20	0.25	0.35
DPAC39-2207	24 x 24 x 22	7	55	1000	1500	2000	0.18	0.25	0.30
DPAC39-3606	24 x 24 x 36	6	78	-	1500	2000	-	0.19	0.28
DPAC39-3605	20 x 24 x 36	5	65	-	1200	1600	-	0.19	0.28
DPAC39-3603	12 x 24 x 36	3	39	-	750	1000	-	0.19	0.28
DPAC39-3605	20 x 20 x 36	5	55	-	1200	1600	-	0.19	0.28
DPAC39-3006	24 x 24 x 30	6	65	-	1500	2000	-	0.24	0.33
DPAC39-3005	20 x 24 x 30	5	54	-	1200	1600	-	0.24	0.33
DPAC39-3003	12 x 24 x 30	3	33	-	625	750	-	0.24	0.33
DPAC39-3005	20 x 20 x 30	5	55	-	1200	1600	-	0.24	0.33
DPAC39-2206	24 x 24 x 22	6	48	1000	1250	1500	0.20	0.24	0.30
DPAC39-2205	20 x 24 x 22	5	40	750	1000	1250	0.20	0.24	0.30
DPAC39-2203	12 x 24 x 22	3	24	500	625	750	0.20	0.24	0.30
DPAC39-2205	20 x 20 x 22	5	34	750	1000	1250	0.20	0.24	0.30

* Recommanded Final Resistance: 1.5 inch W.G.
**Non-standard sizes are available upon request
***Actual size is 5/8" less than nominal size

DYNA-PAC®

POCKET FILTERS

PERFORMANCE DATA

80 - 85 % AVERAGE ASHRAE EFFICIENCY									
MODEL NO	NOMINAL SIZE W x L x D	NUMBER OF POCKETS	MEDIA AREA SQ.FT	CFM CAPACITY			RESISTANCE IN W.G.		
				LOW	MED	HIGH	LOW	MED	HIGH
DPAC40-1512	24 x 24 x 15	12	61	1000	1500	2000	0.25	0.35	0.50
DPAC40-1510	20 x 24 x 15	10	51	800	1250	1600	0.25	0.35	0.50
DPAC40-1506	12 x 24 x 15	6	30	500	750	1000	0.25	0.35	0.50
DPAC40-3610	24 x 24 x 36	10	120	2000	2500	-	0.30	0.40	-
DPAC40-3608	20 x 24 x 36	8	96	1600	2000	-	0.30	0.40	-
DPAC40-3605	12 x 24 x 36	5	60	1000	1250	-	0.30	0.40	-
DPAC40-3010	24 x 24 x 30	10	99	1500	2000	2500	0.20	0.30	0.40
DPAC40-3008	20 x 24 x 30	8	79	1200	1600	2000	0.20	0.30	0.40
DPAC40-3005	12 x 24 x 30	5	50	750	1000	1250	0.20	0.30	0.40
DPAC40-2210	24 x 24 x 22	10	76	1000	1500	2000	0.20	0.30	0.40
DPAC40-2208	20 x 24 x 22	8	61	800	1200	1600	0.20	0.30	0.40
DPAC40-2205	12 x 24 x 22	5	38	500	750	1000	0.20	0.30	0.40
DPAC40-3709	24 x 24 x 37	9	117	2000	2500	-	0.25	0.35	-
DPAC40-3009	24 x 24 x 30	9	87	1500	2000	2500	0.20	0.28	0.38
DPAC40-2209	24 x 24 x 22	9	69	1000	1500	2000	0.20	0.25	0.33
DPAC40-3608	24 x 24 x 36	8	100	1500	2000	2500	0.18	0.25	0.35
DPAC40-3606	20 x 24 x 36	6	75	1200	1600	2000	0.18	0.25	0.35
DPAC40-3604	12 x 24 x 36	4	50	750	1000	1250	0.18	0.25	0.35
DPAC40-3008	24 x 24 x 30	8	84	1500	2000	2500	0.23	0.30	0.40
DPAC40-3006	20 x 24 x 30	6	63	1200	1600	2000	0.23	0.30	0.40
DPAC40-3004	12 x 24 x 30	4	42	750	1000	1250	0.23	0.30	0.40
DPAC40-2208	24 x 24 x 22	8	62	1000	1500	2000	0.18	0.25	0.35
DPAC40-2206	20 x 24 x 22	6	47	800	1200	1600	0.18	0.25	0.35
DPAC40-2204	12 x 24 x 22	4	31	500	750	1000	0.18	0.25	0.35
DPAC40-3707	24 x 24 x 37	7	94	1500	2000	2500	0.20	0.30	0.40
DPAC40-3007	24 x 24 x 30	7	70	1500	2000	2500	0.25	0.33	0.45
DPAC40-2207	24 x 24 x 22	7	55	1000	1500	2000	0.20	0.28	0.35
DPAC40-3606	24 x 24 x 36	6	78	-	1500	2000	-	0.21	0.30
DPAC40-3605	20 x 24 x 36	5	65	-	1200	1600	-	0.21	0.30
DPAC40-3603	12 x 24 x 36	3	39	-	750	1000	-	0.21	0.30
DPAC40-3605	20 x 20 x 36	5	55	-	1200	1600	-	0.21	0.30
DPAC40-3006	24 x 24 x 30	6	65	-	1500	2000	-	0.30	0.40
DPAC40-3005	20 x 24 x 30	5	54	-	1200	1600	-	0.30	0.40
DPAC40-3003	12 x 24 x 30	3	33	-	750	1000	-	0.30	0.40
DPAC40-3005	20 x 20 x 30	5	55	-	1200	1600	-	0.30	0.40
DPAC40-2206	24 x 24 x 22	6	48	1000	1250	1500	0.25	0.30	0.40
DPAC40-2205	20 x 24 x 22	5	40	750	1000	1250	0.25	0.30	0.40
DPAC40-2203	12 x 24 x 22	3	24	500	625	750	0.25	0.30	0.40
DPAC40-2205	20 x 20 x 22	5		750	1000	1250	0.25	0.30	0.40

*Recommanded Final Resistance: 1.5 inch W.G.
**Non-standard sizes are available upon request

DYNA-PAC®

POCKET FILTERS

PERFORMANCE DATA

90 - 95% AVERAGE ASHRAE EFFICIENCY									
MODEL NO	NOMINAL SIZE W x L x D	NUMBER OF POCKETS	MEDIA AREA SQ.FT	CFM CAPACITY			RESISTANCE IN W.G.		
				LOW	MED	HIGH	LOW	MED	HIGH
DPAC41-1512	24 x 24 x 15	12	61	1000	1500	2000	0.30	0.45	0.65
DPAC41-1510	20 x 24 x 15	10	51	800	1250	1600	0.30	0.45	0.65
DPAC41-1506	12 x 24 x 15	6	30	500	750	1000	0.30	0.45	0.65
DPAC41-3610	24 x 24 x 36	10	120	2000	2500	-	0.45	0.60	-
DPAC41-3608	20 x 24 x 36	8	96	1600	2000	-	0.45	0.60	-
DPAC41-3605	12 x 24 x 36	5	60	1000	1250	-	0.46	0.60	-
DPAC41-3010	24 x 24 x 30	10	99	1500	2000	2500	0.35	0.45	0.60
DPAC41-3008	20 x 24 x 30	8	79	1200	1600	2000	0.35	0.45	0.60
DPAC41-3005	12 x 24 x 30	5	50	750	1000	1250	0.35	0.45	0.60
DPAC41-2210	24 x 24 x 22	10	76	1000	1500	2000	0.35	0.45	0.55
DPAC41-2208	20 x 24 x 22	8	61	870	1200	1600	0.35	0.45	0.55
DPAC41-2205	12 x 24 x 22	5	38	500	750	1000	0.35	0.45	0.55
DPAC41-3709	24 x 24 x 37	9	117	2000	2500	-	0.35	0.50	-
DPAC41-3009	24 x 24 x 30	9	87	1500	2000	2500	0.30	0.40	0.55
DPAC41-2209	24 x 24 x 22	9	69	1000	1500	2000	0.30	0.35	0.45
DPAC41-3608	24 x 24 x 36	8	100	1500	2000	2500	0.30	0.40	0.55
DPAC41-3606	20 x 24 x 36	6	75	1200	1600	2000	0.30	0.40	0.55
DPAC41-3604	12 x 24 x 36	4	50	750	1000	1250	0.30	0.40	0.55
DPAC41-3008	24 x 24 x 30	8	84	1500	2000	2500	0.35	0.40	0.60
DPAC41-3006	20 x 24 x 30	6	63	1200	1600	2000	0.35	0.40	0.60
DPAC41-3004	12 x 24 x 30	4	42	750	1000	1250	0.35	0.40	0.60
DPAC41-2208	24 x 24 x 22	8	62	1000	1500	2000	0.30	0.40	0.55
DPAC41-2206	20 x 24 x 22	6	47	800	1200	1600	0.30	0.40	0.55
DPAC41-2204	12 x 24 x 22	4	31	500	750	1000	0.30	0.40	0.55
DPAC41-3707	24 x 24 x 37	7	94	1500	2000	2500	0.30	0.40	0.55
DPAC41-3007	24 x 24 x 30	7	70	1500	2000	2500	0.35	0.45	0.60
DPAC41-2207	24 x 24 x 22	7	55	1000	1500	2000	0.30	0.40	0.50
DPAC41-3606	24 x 24 x 36	6	78	-	1500	2000	-	0.30	0.45
DPAC41-3605	20 x 24 x 36	5	65	-	1200	1600	-	0.30	0.45
DPAC41-3603	12 x 24 x 36	3	39	-	750	1000	-	0.30	0.45
DPAC41-3605	20 x 20 x 36	5	55	-	1200	1600	-	0.30	0.45
DPAC41-3006	24 x 24 x 30	6	65	-	1500	2000	-	0.35	0.50
DPAC41-3005	20 x 24 x 30	5	54	-	1200	1600	-	0.35	0.50
DPAC41-3003	12 x 24 x 30	3	33	-	750	1000	-	0.35	0.50
DPAC41-3005	20 x 20 x 30	5	55	-	1200	1600	-	0.35	0.50
DPAC41-2206	24 x 24 x 22	6	48	1000	1250	2000	0.20	0.30	0.40
DPAC41-2205	20 x 24 x 22	5	40	750	1000	1250	0.20	0.30	0.40
DPAC41-2203	12 x 24 x 22	3	24	500	625	750	0.20	0.30	0.40
DPAC41-2205	20 x 20 x 22	5	34	750	1000	1250	0.20	0.30	0.40

*Recommanded Final Resistance: 1.5 inch W.G.
**Non-Standard sizes available upon request
*** Actual Size is 5/8" less than nominal size

BAG FILTER MEDIA AREA

The square feet of media area in a bag filter can be calculated using the following formula:

$$\textbf{GROSS MEDIA AREA (Sq.Ft.)} = \frac{\textbf{No of Pockets X 2 X Pocket Width X Pocket Depth}}{\textbf{144}}$$

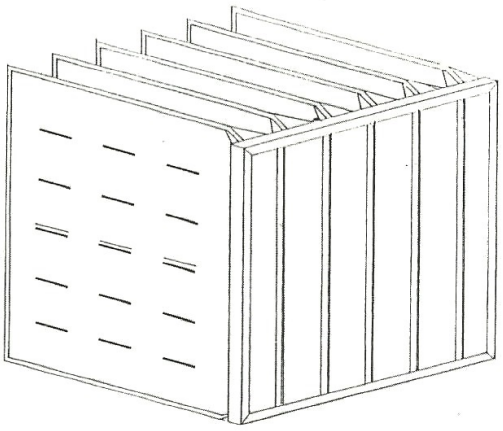
"Pocket Width" is the cross dimension (in Inches) of the pocket in its flat state.
"Pocket Depth" is the dimension (in Inches) from the front of the header to the rear of the filter.

Example: DYNA-PAC, 24"X24"X22" 8Pocket

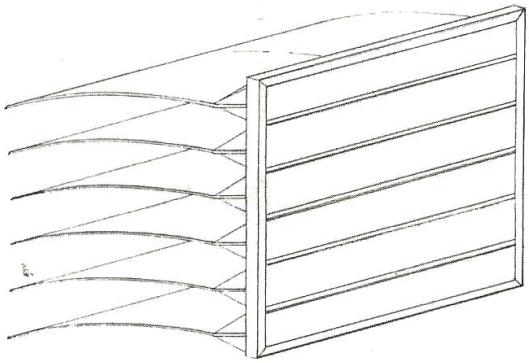
No of Pocket: 8
Pocket Width: 24"
Pocket Depth: 22"

Gross Media Area (Sq.Ft.) = $\frac{8 \times 2 \times 24 \times 22}{144}$ = 58.6 Sq.Ft.

HOW TO INSTALL DAFF - BAG FILTER



✓ RIGHT INSTALLATION



× WRONG INSTALLATION

DYNA-PAC®

POCKET FILTERS

GENERAL INFORMATION

DYNA-PAC Pocket Filters offer medium and high efficiency air cleaning capabilities for many diverse applications including hospitals, food processing, paint spray booths, pharmaceutical production and turbine installations. In addition DYNA-PAC Pocket filters can be used in more standard air flow applications including schools, office complexes, public arenas and general industrial applications.

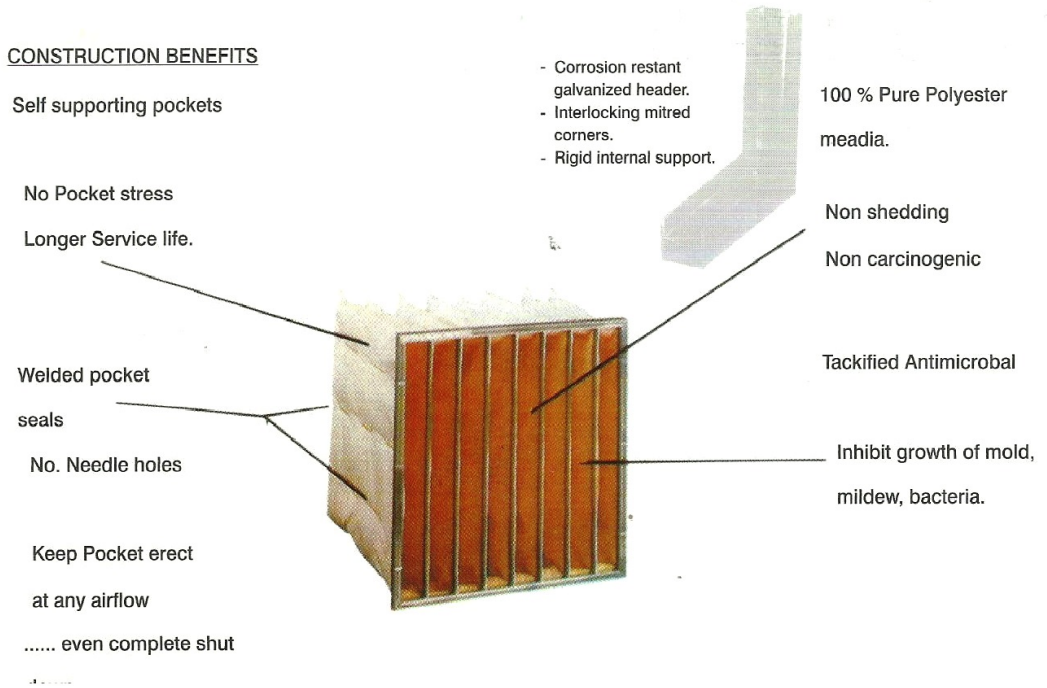
DYNA-PAC Pocket Filters are unique in that they utilizes filter medium synthetic micro fibers, and are particularly suited in areas where the use of glass fiber mediums are restricted. The synthetic micro fibers used in DYNA-PAC Pocket Filters are completely bonded to insure no shedding, no fiber break off, and no adverse effects from the introduction of moisture or humidity.

CONSTRUCTION

DYNA-PAC Pocket Filters consist of a series of individual pockets, which are bonded to a corrosion resistant header frame. The pockets are produced from synthetic microfibers, and are formed by heat sealing each edge around the perimeter of the pocket. Individual tubes within each pocket are also formed by heat sealing. the resulting end product offers a totally positive sealed, leak free design.

The individual pocket separators are bonded to each pocket allowing no exposed unsealed media edges in the final product. DYNA-PAC Pocket Filters are designed to remain in an extended position, whether or not airflow through the system is on, off, or at variable volume. In addition the filters are packaged in an open, extended, position to insure they maintain this optimum configuration.

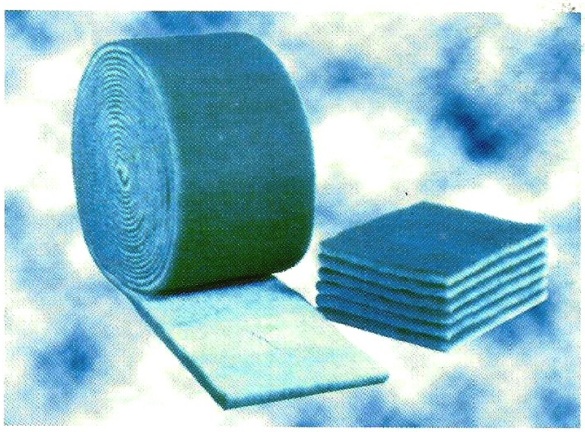
The product group offered in five distinct efficiency ranges when evaluated by ASHRAE Standard 52-76. These ranges include 90-95%, 80-85%, 60-65%, 45-50% and 25-30%. Individual filter units handle up to 2500CFM each. DYNA-PAC Pocket Filters offer a highly durable media coupled with a unique design to offer optimum and filter life cycle. The filters are assembled through the utilization heat sealed pockets affixed to a corrosion resistant header frame. Individual pleat separators are aero-dynamically designed to insure proper airflow through the pocket.

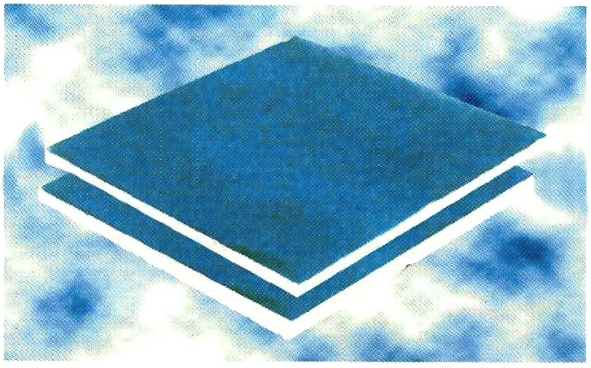


POLY-ROL®

100% POLYESTER MEDIA ROLL

PART NO: DSFM 14 & DSFM 15 & DSFM 16

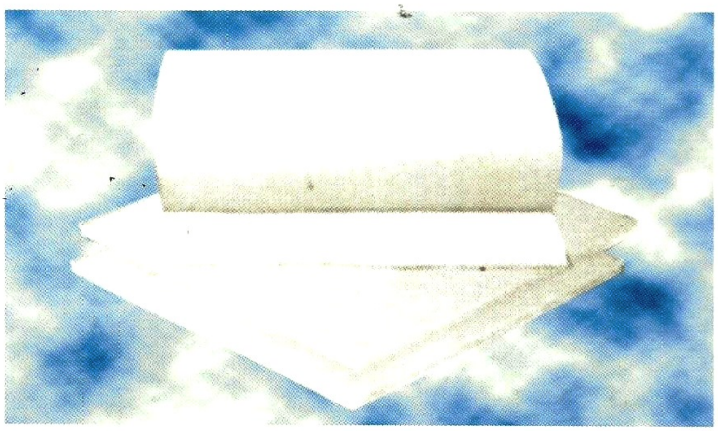




POLY-ROL media does not contain "fiber glass", which world wide known to cause lung cancer. Fiber glass media is a carcinogenic media where as our synthetic media is healthy and it is been used as masks, and cloths for doctors, nurses in the hospital. Our media is flame retarded and rated as U.L.Class 2.

(POLY-ROL) 100% Polyester Media are of the highest quality. Manufactured by the dry laid process, and it offers consisted uniformity and performance. Available in a choice of 3 thickness 1/2" (DSFM14), 1" (DSFM15) and 2" (DSFM16) dry or tackfied, width up to 80" to meet your specific needs. Length of the rolls are 20meters as standard.

POLY-ROL is known to be used in any type of climate conditions, since the moisture, humidity, and dry weather does not affect it in any way where as fiber glass media is affected badly by humid air and dry air as well.



POLY-ROL®

100% POLYESTER MEDIA ROLL



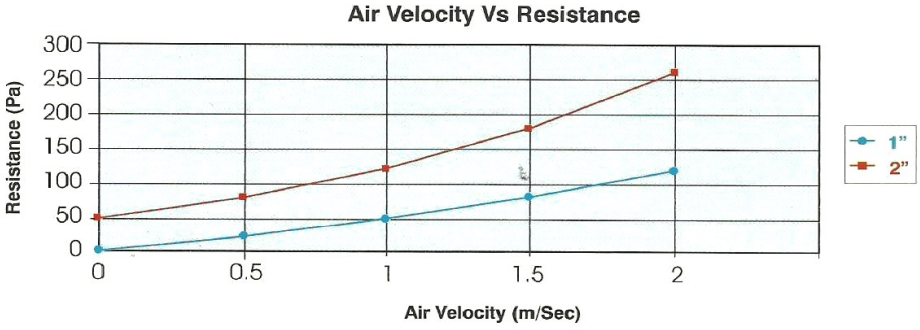
POLY-WASH®

SYNTHETIC FILTER

TECHNICAL DATA

PART NO	STD SIZE IN INCHES	INITIAL RESISTANCE IN W.G.	FINAL RESISTANCE IN W.G.	TYPE
DSWF19-1620	16x20x1	0.18	1.0	PANEL
DSWF19-2020	20x20x1	0.18	1.0	PANEL
DSWF19-2424	24x24x1	0.18	1.0	PANEL
DSWF20-1620	16x20x2	0.27	1.0	PANEL
DSWF20-2020	20x20x2	0.27	1.0	PANEL
DSWF20-2424	24x24x2	0.27	1.0	PANEL
DSTV21-1620	16x20x1	0.18	1.0	V-type
DSTV21-2020	20x20x1	0.18	1.0	V-type
DSTV21-2424	24x24x1	0.18	1.0	V-type
DSTV22-1620	16x20x2	0.18	1.0	V-type
DSTV22-2020	20x20x2	0.18	1.0	V-type
DSTV22-2424	24x24x2	0.18	1.0	V-type
DSTV23-1620	16x20x3	0.18	1.0	V-type
DSTV23-2020	20x20x3	0.18	1.0	V-type
DSTV23-2424	24x24x3	0.18	1.0	V-type
DSTV24-1620	16x20x4	0.18	1.0	V-type
DSTV24-2020	20x20x4	0.18	1.0	V-type
DSTV24-2424	24x24x4	0.18	1.0	V-type

PERFORMANCE CURVE



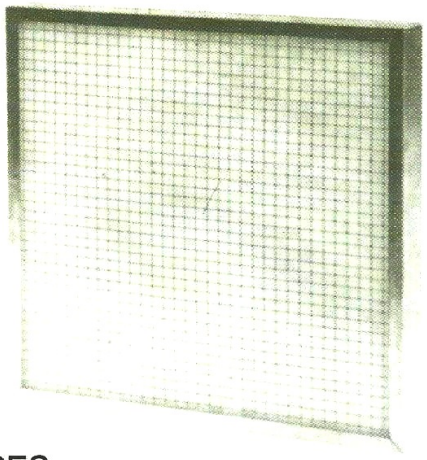
* Arrestance Efficiency: 85-95%

** Actual height and width are 5/8" less than nominal sizes.

*** Non-standard sizes are available upon request.

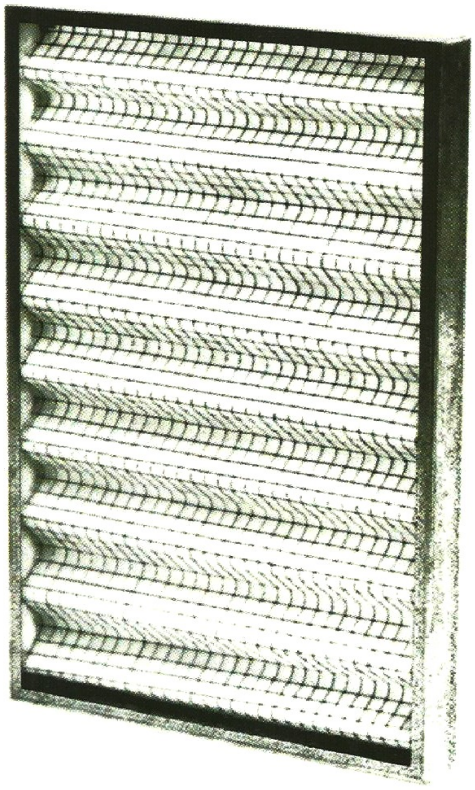
POLY-WASH®

SYNTHETIC FILTERS



APPLICATION

POLY-WASH is used in industrial and commercial buildings where more dust accumulation is required.



FEATURES

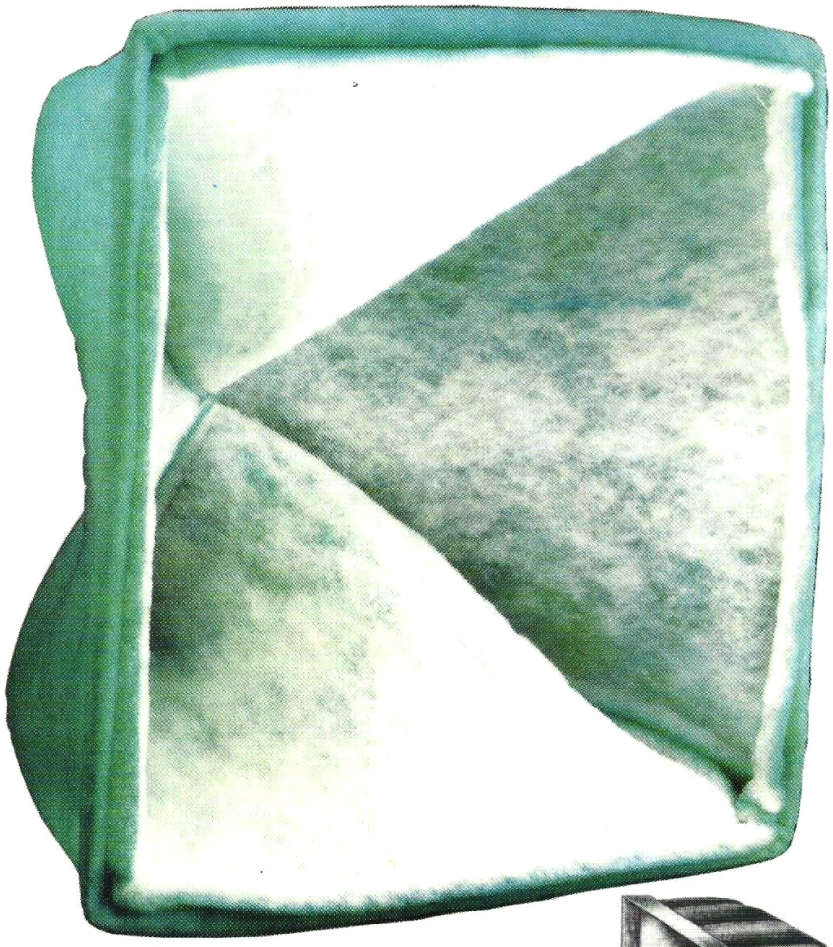
High dust holding capacity, low resistance filters and it can be washed by air or regular water. This way less cost and longer filter service life. They are available in any size in the standard thickness of 25-50mm and in the v-type version with thickness of 25-50-75-100mm.

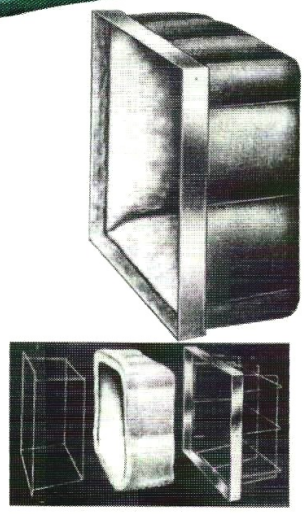


CONSTRUCTION

POLY-WASH consists of high dust holding capacity synthetic media. It comes in two shapes v-type and panel type. Both types can be made out of Aluminum frame or Galvanized Steel frame. POLY-WASH is a heavy duty filter having supports in both sides square mesh metal.

QB-FLO®
CUBE FILTERS





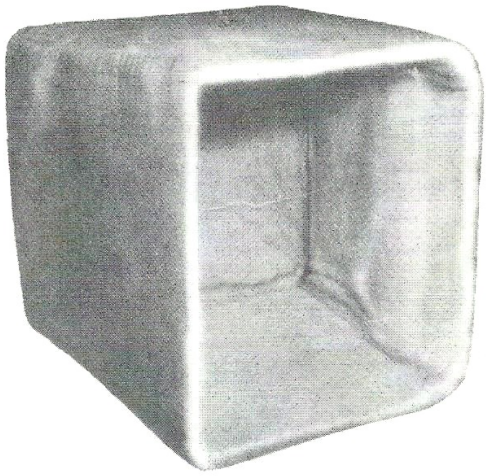
The QB-FLO is designed to provide low cost 100% effective media area. The self sealing concept prevents any dirt from passing around the filter. This unique polyester design eliminates installation problems common to filters requiring wire baskets or retainers while eliminating the inherent problems of filters utilizing synthetic fibers.

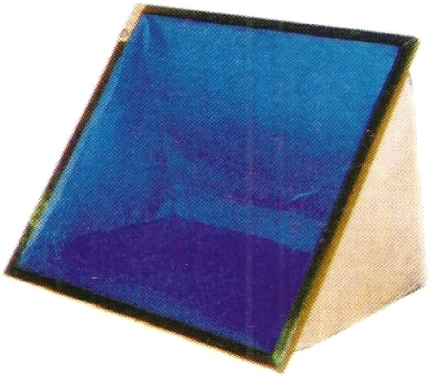
QB-FLO®
CUBE FILTERS

MEDIA

The simplicity of the QB-FLO design offers low cost, effective filtration in the 25-30% efficiency range. The self sealing model offers 100% effective media area for dirt entrapment.

The QB-FLO is fabricated using DAFF's exclusive Dual-Ply Dirtlok media, for optimum performance. The air-entering surface allows dirt to depth-load into the media, resulting in extended life. The green, air leaving side is a dense tightly needled layer which traps the finer air borne particulate. In addition, a totally uniform application of Dirtlok adhesive is impregnated into the downstream fibers which increases efficiency and "hold" the trapped dirt place.





CONSTRUCTION

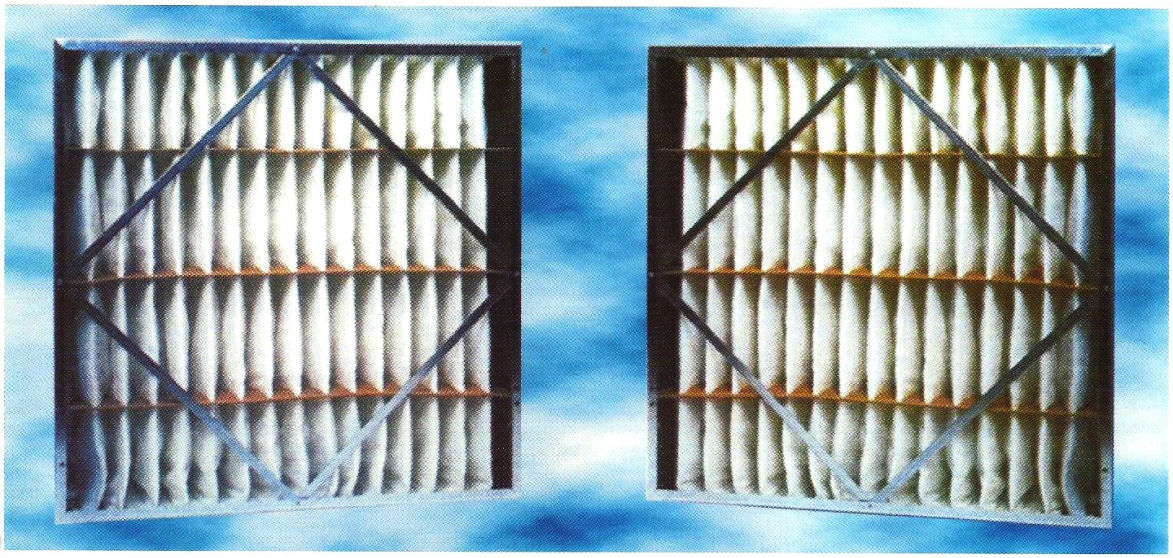
The QB-FLO is available in two hardware designs. The self-sealing model, with a self-contained wire retainer sewn into the face perimeter, provides quick and easy installation with a positive edge seal. The header model, with wrap-around channel is available for side access use or applications requiring the header design.

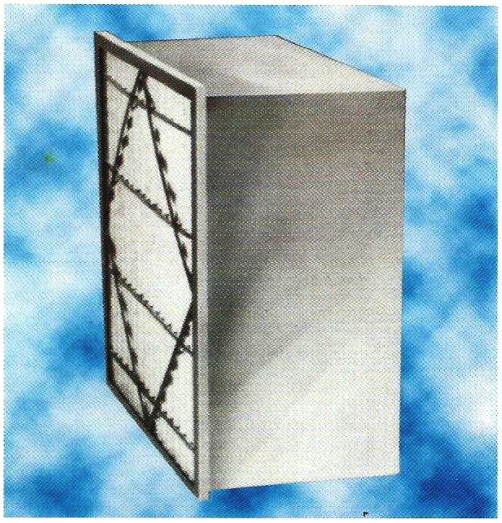
PERFORMANCE DATA

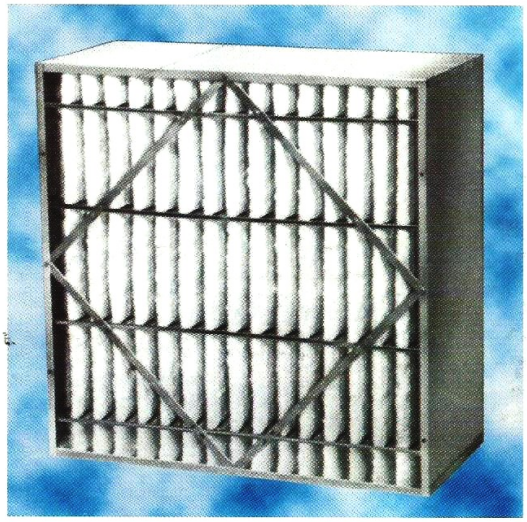
Model No	DKUB52
Filter Size	24" x 24" x 15"
Initial Resistance	0.21 Inch W.G.
Initial Efficiency	13.20%
Average Efficiency	27.90%
Average Arrestance	89.00%
Dust Holding Capacity	464 gms at 1.0 Inch W.G.

RIGI-FLO®

RIGID BOX FILTER







RIGI-FLO Filters provides medium to high efficiency performance and extended service life. Four efficiencies are available, 45%, 65%, 85% and 95%. RIGI-FLO Filters are ideally suited for variable volume systems. Being totally rigid in construction, performance is not affected by changes in air velocities or fan shut down. RIGI-FLO Filters can operate at velocities up to 500FPM UL RATING is class 1 and 2.

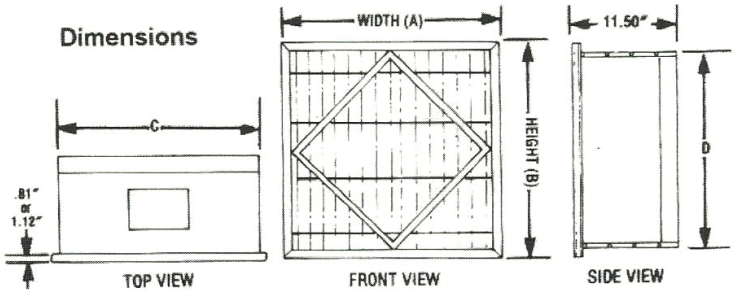
RIGI-FLO®

RIGID BOX FILTER

DESIGN

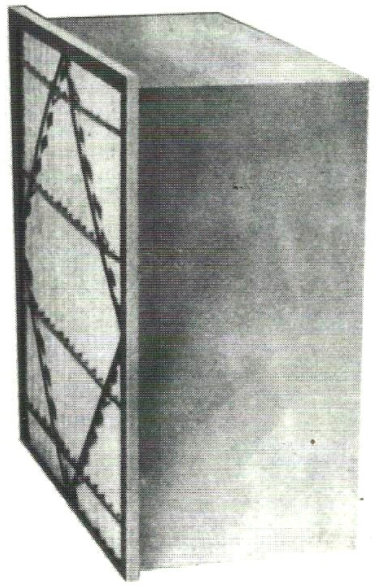
DAFF RIGI-FLO air filters are designed for medium and high efficiency applications and offer long service life. Four efficiency ranges are offered: 45-55%, 60-65%, 80-85%, 90-95%. The product totally disposable. The rigid, compact construction make RIGI-FLO an ideal product for variable air volume systems, as performance is not affected by changes in air flow or by shutdown.

RIGI-FLO air filters are used in a wide variety of applications. They are ideally suited for commercial buildings, schools and universities, hospitals arena's as well as for industrial installations. The wide range of efficiencies and the rigid compact design make this an excellent product for upgrading current systems as well as for new installations.



Gasket on one side of 24" x 24" and 20" x 20" filters. Gaskets on two adjacent sides of 12" x 24" and 20" x 24"

Nominal Size	DIMENSIONS (Inches) ACTUAL SIZE			
	A	B	C	D
12 x 24	11.31	23.31	9.81	21.38
20 x 20	19.31	19.31	17.81	17.38
20 x 24	19.31	23.31	17.81	21.38
24 x 24	23.31	23.31	21.81	21.38

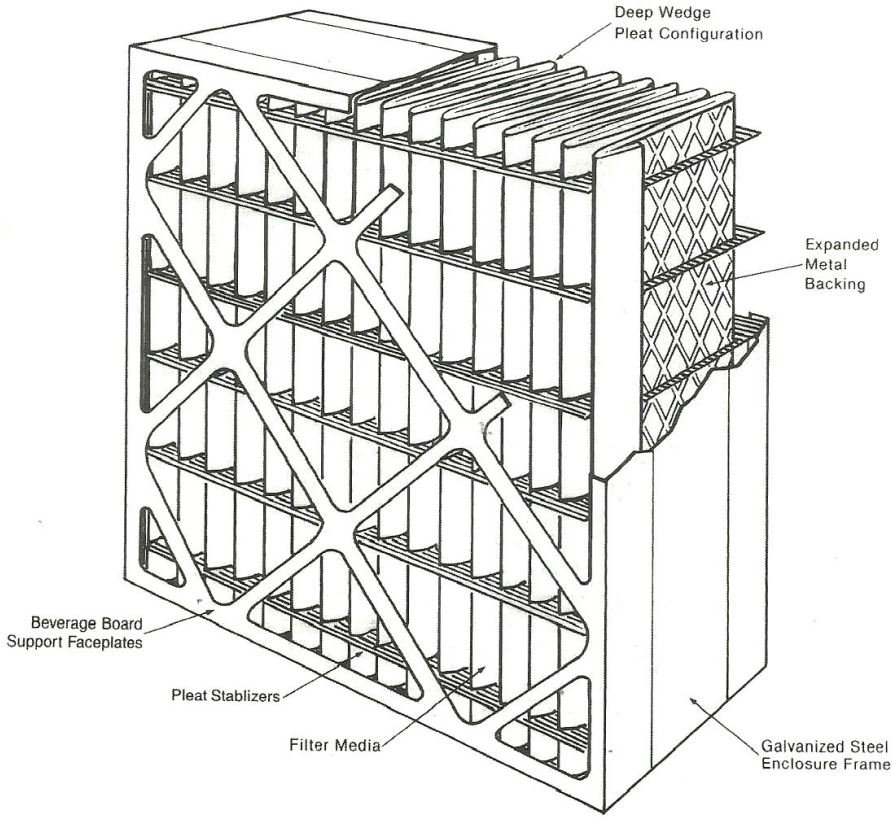


RIGI-FLO®

RIGID BOX FILTER

CONSTRUCTION

- The filter media is an ultra fine synthetic, specifically produced for each efficiency match. The air leaving side of the media is reinforced by expanded metal mesh for media integrity. The media is color coded by efficiency.
- A metal support grid is bonded to the media to eliminate the possibility of media fluttering while in operation. The metal grid also maintains the pleat configuration.
- The enclosure frame, or cell side is galvanized steel, insuring the filter a rigid and durable housing. The frame, an the media pack are sealed over 100% of the interior surface of the cell side. In addition, diagonal front and rear support members are attached to air entering and air leaving side of the cell for added rigidity and protection.
- Media stabilize reinforces and shape the media pleats, insuring that configuration is maintained throughout the life of the filter. The design of the pleat offers maximum media utilization extended filter life.



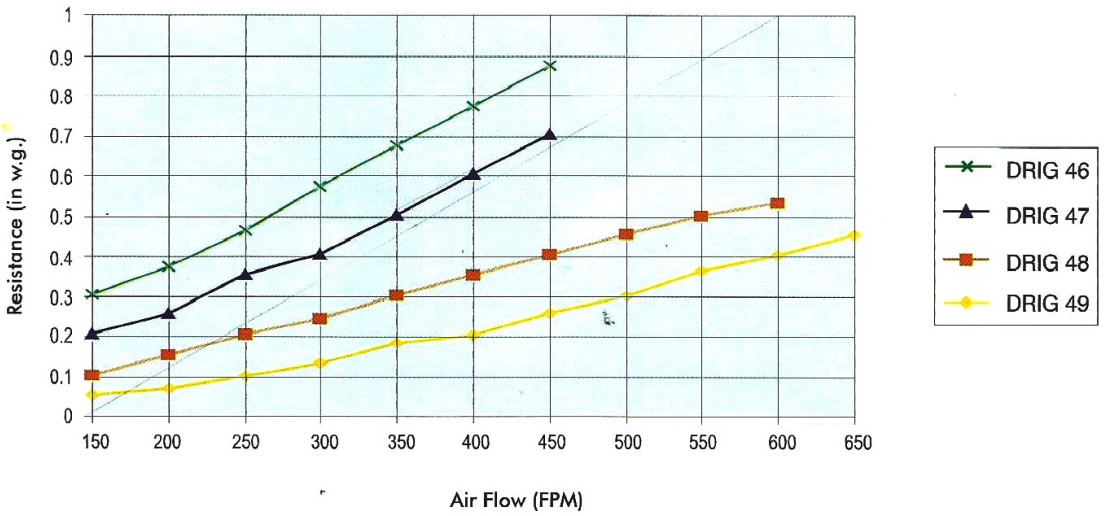
RIGI-FLO®

RIGID BOX FILTER

TECHNICAL DATA 6 INCH DEEP FILTER

FILTER MEDIA	MODEL NO	NOMINAL SIZE	AIRFLOW CAPACITY (CFM)	RESISTANCE (INCHES W.G.)		MEDIA AREA (ft^2)
				INITIAL	FINAL	
50%	DRIG46-12242	12 x24	1000	0.30	1.5	14
	DRIG46-20202	20 x 20	1400	0.30	1.5	19
	DRIG46-20242	20 x 24	1660	0.30	1.5	24
	DRIG46-24242	24 x 24	2000	0.30	1.5	29
65%	DRIG47-12242	12 x24	750	0.32	1.5	14
	DRIG47-20202	20 x 20	1050	0.32	1.5	19
	DRIG47-20242	20 x 24	1245	0.32	1.5	24
	DRIG47-24242	24 x 24	1500	0.32	1.5	29
85%	DRIG48-12242	12 x24	600	0.41	1.5	14
	DRIG48-20202	20 X 20	840	0.41	1.5	19
	DRIG48-20242	20 x 24	995	0.41	1.5	24
	DRIG48-24242	24 x 24	1200	0.41	1.5	29
95%	DRIG49-12242	12 x24	600	0.56	1.5	14
	DRIG49-20202	20 x 20	840	0.56	1.5	19
	DRIG49-20242	20 x 24	995	0.56	1.5	24
	DRIG49-24242	24 x 24	1200	0.56	1.5	29

PERFORMANCE CURVE



NOTE: Temperature limitation is 180°F (83°C) continous and 200°F (94°C) intermittent

** Maximum recommended final resistance system design may indicate a lower change out point*

*** Actual depth of filter 6" filter is 5.50" (140mm).*

**** Non-standard sizes are available upon request.*

***** Actual size is 5/8" less than Nominal size*

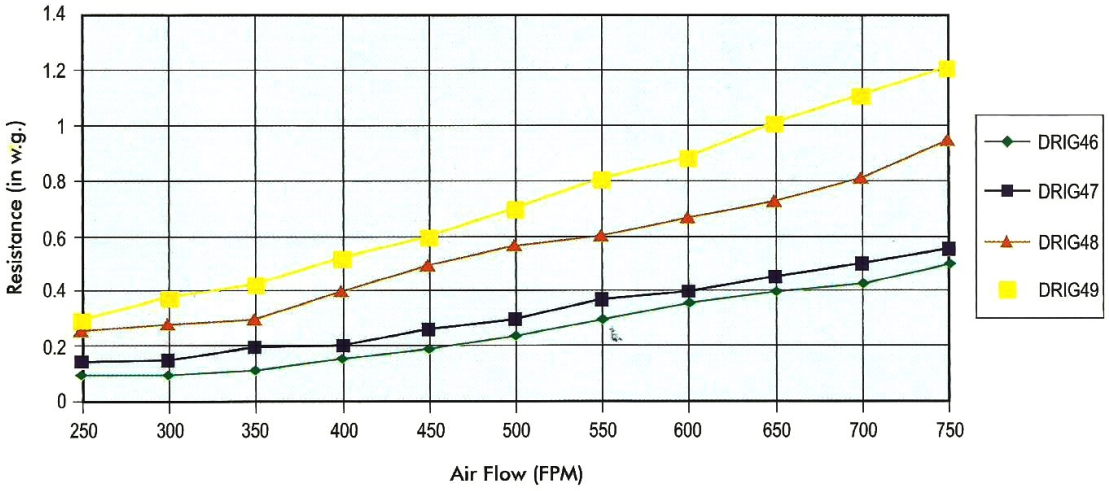
RIGI-FLO®

RIGID BOX FILTER

TECHNICAL DATA 12 INCH DEEP FILTER

FILTER MEDIA	MODEL NO	NOMINAL SIZE	AIRFLOW CAPACITY (CFM)	RESISTANCE (INCHES W.G.)		MEDIA AREA (ft^2)
				INITIAL	FINAL	
50%	DRIG46-12242	12 x24	1000	0.25	1.5	28
	DRIG46-20202	20 x 20	1400	0.25	1.5	39
	DRIG46-20242	20 x 24	1660	0.25	1.5	47
	DRIG46-24242	24 x 24	2000	0.25	1.5	58
65%	DRIG47-12242	12 x24	1000	0.29	1.5	28
	DRIG47-20202	20 x 20	1400	0.29	1.5	39
	DRIG47-20242	20 x 24	1660	0.29	1.5	47
	DRIG47-24242	24 x 24	2000	0.29	1.5	58
85%	DRIG48-12242	12 x24	1000	0.50	1.5	28
	DRIG48-20202	20 X 20	1400	0.50	1.5	39
	DRIG48-20242	20 x 24	1660	0.50	1.5	47
	DRIG48-24242	24 x 24	2000	0.50	1.5	58
95%	DRIG49-12242	12 x24	1000	0.68	1.5	28
	DRIG49-20202	20 x 20	1400	0.68	1.5	39
	DRIG49-20242	20 x 24	1660	0.68	1.5	47
	DRIG49-24242	24 x 24	2000	0.68	1.5	58

PERFORMANCE CURVE



NOTE: Temperature limitation is 180°F (83°C) continous and 200°F (94°C) intermittent

** Maximum recommended final resistance system design may indicate a lower change out point*

*** Actual depth of filter 12" filter is 11.5" (292mm).*

**** Non-standard sizes are available upon request.*

***** Actual size is 5/8" less than nominal size*

RIGI-FLO GT®

High efficiency filtration for gas turbines on offshore platforms, in deserts and industrial areas

INTRODUCTION

DAFF is a manufacturer of high efficiency air filtration components and air filter systems for gas turbines. Consistant research and development have resulted in continuos product improvement and DAFF's new gas turbine air filters far exceed the capabilities of any gas turbine filters available to this date.

THE RIGI-FLO GT

RIGI-FLO GT is a high efficiency heavy duty air filter designed for application on gas turbines in any location. The RIGI-FLO GT provides high efficiency filtration from initial installation to change-out.

RIGI-FLO GT filters, being totally rigid, are not affected by changes in air velocity or equipment shutdown, and their configuration is not altered by accumulation of dust.

HIGH EFFICIENCY

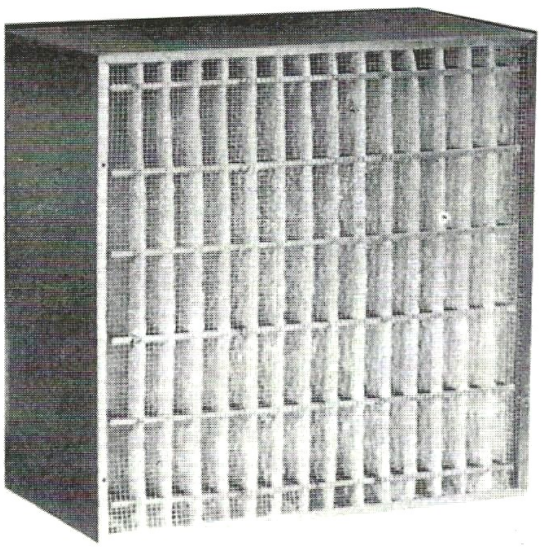
The RIGI-FLO GT with two media choices 60 and 90, achieves an average efficiency of 60% and 90% on the ASHRAE Test 52-76.

RUGGED CONSTRUCTION

Specially constructed for gas turbine application, the RIGI-FLO GT's synthetic media welded wire mesh support grid, corrosion resistant contour stabilizers, galvanized steel enclosing frame and protective wire mesh screens on both the front and back provide the rigidity and durability necessary to insure structural integrity during the life of the filter. The filter pack is continously bonded to the inside of the enclosing frame. The filter is capable of withstanding 25 inch w.g. pressure drop without noticeable distortion.

LONG SERVICE LIFE

Due to the large amount of media and DAFF's exclusive tapered radial pleat design, the RIGI-FLO GT's extend filter life is an important factor when considering downtime and maintenance costs.



RIGI-FLO GT®

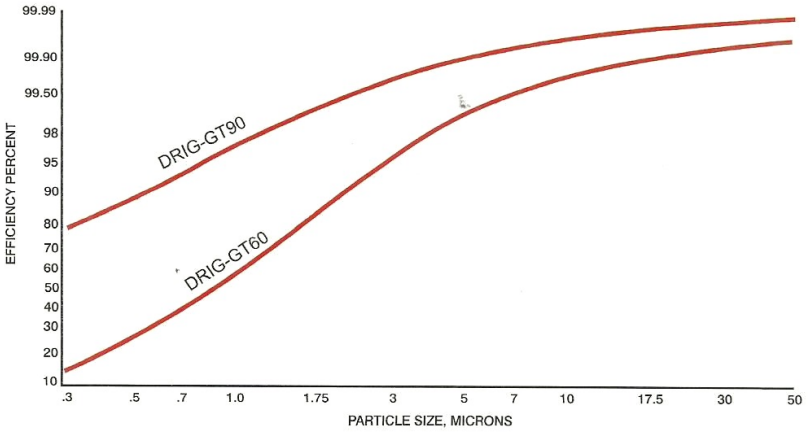
TECHNICAL DATA

MODEL NO	DRIG-GT60	DRIG-GT90
Cell Size (mm) Nominal	610x610x300	610x610x300
Cell Size (mm) Actual	592x592x292	592x592x292
Air Flow (standard)	3400m³/h	3400m³/h
Initial △P	130 Pa	175 Pa
Final △P (recommended)*	640 Pa	640 Pa
Average Atmospheric Dust Spot Efficiency	65%	90%
Average Arrestance by Weight on AC Fine Test Dust	98%	99%
Dust Holding Capacity @ 635 Pa Final Resistance*	1100g	800 g
Degradation Pressure**	3800 Pa	3800 Pa
Maximum Pressure**	6350 Pa	6350 Pa

* The DRIG-GT90 in the 292mm deep size can be run to a final resistance of 1520 Pa resulting in a dust holding capacity of 1365 grams. The DRIG-GT60 can be run to a 1000 Pa final resistance resulting in a dust holding capacity of 1365 grams.

** Two blowout pressure are given: (1) Degradation-pressure at which filter efficiency is affected negatively and (2) maximum pressure at which structural damage to the filter occurs.

PERFORMANCE CURVE



SUPER PLEAT®

PLEATED AIR FILTER

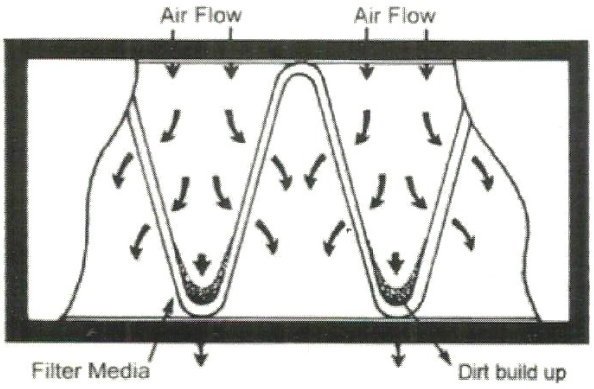
APPLICATION

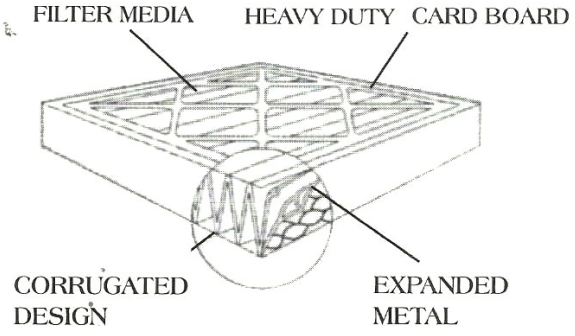


DAFF standard capacity extended air filters have established new air filtration standard in a wide variety of residential, commercial, industrial applications and air intake systems. High efficiency ratings, extended service life and ease of handling have made SUPER PLEAT the accepted choice where both performance and economy are required.

CONSTRUCTION

Filter media used is a lofted, high performance, non-woven 100% synthetic media DAFF uses factory produced assuring strict quality of the media. The media is bonded to expanded metal mesh with an effective open area not less than 97%. This bonding keeps the media in position eliminating, the possibility of media oscillation and pull away. Radial design of the pleat achieve maximum aerodynamic performance and extend the service life of the filter.





SUPER PLEAT®

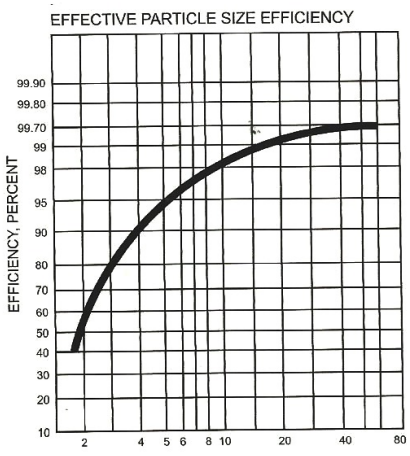
PLEATED AIR FILTER

SUPER PLEAT high capacity offers greater dust holding capcity and widely used as a prefilter in industrial services and gas turbine intakes. That not only extends replacement interval but considerably lengthen the service life of filter in the system. The radial design of the pleats allow maximum dust holding capacity and efficiency increased.

SUPER PLEAT — HIGH CAPACITY — TECHNICAL DATA

NOMINAL FILTER DEPTH	MODEL NO	NOMINAL SIZE (inches)	ACTUAL SIZES (INCHES)			CAPACITIES (CFM)		RESISTANCE AT CAPACITY (Inches W.G.)			MEDIA AREA-SQUARE FEET	
			WIDTH	HEIGHT	DEPTH	MEDIUM	HIGH	MEDIUM	HIGH	FINAL	TOTAL	Media Area Per Sq.Ft of Face Area
1"	DCPF30-1624	16x24x1	15.5	23.5	0.88	485	970	0.08	0.25	0.90	6.1	2.3 16 pleats per linear foot
	DCPF30-1620	16x20x1	15.5	19.5	0.88	390	780	0.08	0.25	0.90	4.8	
	DCPF30-2020	20x20x1	19.5	19.5	0.88	485	970	0.08	0.25	0.90	6.0	
	DCPF30-2025	20x25x1	19.5	24.5	0.88	610	1215	0.08	0.25	0.90	7.6	
	DCPF30-2424	24x24x1	23.5	23.5	0.88	700	1400	0.08	0.25	0.90	8.9	
2"	DCPF31-1224	12x24x2	11.5	23.5	1.88	500	1000	0.08	0.28	0.9	8.5	4.6 15 pleats per linear foot
	DCPF31-1624	16x24x2	15.5	23.5	1.88	550	1100	0.08	0.28	0.9	10.1	
	DCPF31-2020	20x20x2	19.5	19.5	1.88	695	1390	0.08	0.28	0.9	12.1	
	DCPF31-2024	20x24x2	19.5	23.5	1.88	835	1670	0.08	0.28	0.9	14.6	
	DCPF31-2424	24x24x2	23.5	23.5	1.88	1000	2000	0.08	0.28	0.9	17.6	
4"	DCPF32-1224	12x24x4	11.38	23.38	3.88	500	1000	0.07	0.27	0.9	13.8	7.0 11 pleats per linear foot
	DCPF32-1620	16x20x4	15.38	19.39	3.88	560	1100	0.07	0.27	0.9	15.6	
	DCPF32-2020	20x20x4	19.38	19.39	3.88	695	1390	0.07	0.27	0.9	18.6	
	DCPF32-2024	20x24x4	19.38	23.38	3.88	835	1670	0.08	0.27	0.9	22.5	
	DCPF32-2424	24x24x4	23.38	23.38	3.88	1000	2000	0.07	0.27	0.9	27.5	

* 4" and 2" filters are rated at 250fpm (medium) and 500fpm (high). 1" filters are rated at 175 fpm (medium and 350fpm (high)
** Recommended final resistance. System design may dictate a lower change out point.
*** Average efficiency of 25-30% and arrestance 90-95% in accordance with the ASHRAE 52.1-1992 test standards.
**** Non-standard sizes are available upon request.



SUPER PLEAT®

PLEATED AIR FILTER

MEDIA AREA

1 INCH The effective media area shall be not less than 2.21 square foot per 1 square foot of face area. It will have not less than 12 pleats per linear foot.

2 INCH The effective media area shall be not less than 2.96 square foot per 1 square foot of face area. It will have not less than 8 pleats per linear foot.

4 INCH The effective media area shall be not less than 5.08 square foot per 1 square foot of face area. It will have not less than 8 pleats per linear foot.

ENCLOSING FRAME: Enclosing frames shall be constructed of rigid water resistant, heavy duty beverage board pearl coat carton. The frames are factory die cut to any size. Cross members of the frame are bonded to the sides of the pleat assuring pleat stability and rigidity.

SUPER PLEAT **STANDARD CAPACITY** TECHNICAL DATA

NOMINAL FILTER DEPTH	MODEL NO	NOMINAL SIZE (inches)	ACTUAL SIZES (INCHES)			CAPACITIES (CFM)		RESISTANCE AT CAPACITY (Inches W.G.)			MEDIA AREA-SQUARE FEET	
			WIDTH	HEIGHT	DEPTH	MEDIUM	HIGH	MEDIUM	HIGH	FINAL	TOTAL	Media Area Per Sq.Ft of Face Area
1"	DSPF27-1224	12x24x1	11.5	23.5	0.88	350	700	0.09	0.32	1.0	3.3	1.7 12 pleats per linear foot
	DSPF27-1620	16x20x1	15.5	19.5	0.88	390	775	0.09	0.32	1.0	3.6	
	DSPF27-2020	20x20x1	19.5	19.5	0.88	485	970	0.09	0.32	1.0	4.5	
	DSPF27-2024	20x24x1	19.5	23.5	0.88	585	1165	0.09	0.32	1.0	5.9	
	DSPF27-2424	24x24x1	23.5	23.5	0.88	700	1400	0.09	0.32	1.0	6.7	
2"	DSPF28-1224	12x24x2	11.5	23.5	1.88	500	1000	0.09	0.22	1.0	4.5	2.5 8 pleats per linear foot
	DSPF28-1624	16x24x2	15.5	23.5	1.88	555	1110	0.09	0.22	1.0	5.4	
	DSPF28-2020	20x20x2	19.5	19.5	1.88	595	1390	0.09	0.22	1.0	6.5	
	DSPF28-2024	20x24x2	19.5	23.5	1.88	835	1670	0.09	0.22	1.0	7.8	
	DSPF28-2424	24x24x2	23.5	23.5	1.88	1000	2000	0.09	0.22	1.0	9.4	
4"	DSPF29-1224	12x24x4	11.38	23.38	3.88	500	1000	0.07	0.20	1.0	11.3	5.9 8 pleats per linear foot
	DSPF29-1620	16x20x4	15.38	19.39	3.88	555	111	0.07	0.20	1.0	12.8	
	DSPF292020	20x20x4	19.38	19.39	3.88	695	1390	0.07	0.20	1.0	15.2	
	DSPF29-2024	20x24x4	19.38	23.38	3.88	835	1670	0.07	0.20	1.0	18.4	
	DSPF29-2424	24x24x4	23.38	23.38	3.88	1000	2000	0.07	0.20	1.0	22.5	

* 4" and 2" filters are rated at 250fpm (medium) and 500fpm (high). 1" filters are rated at 175 fpm (medium and 350fpm (high)

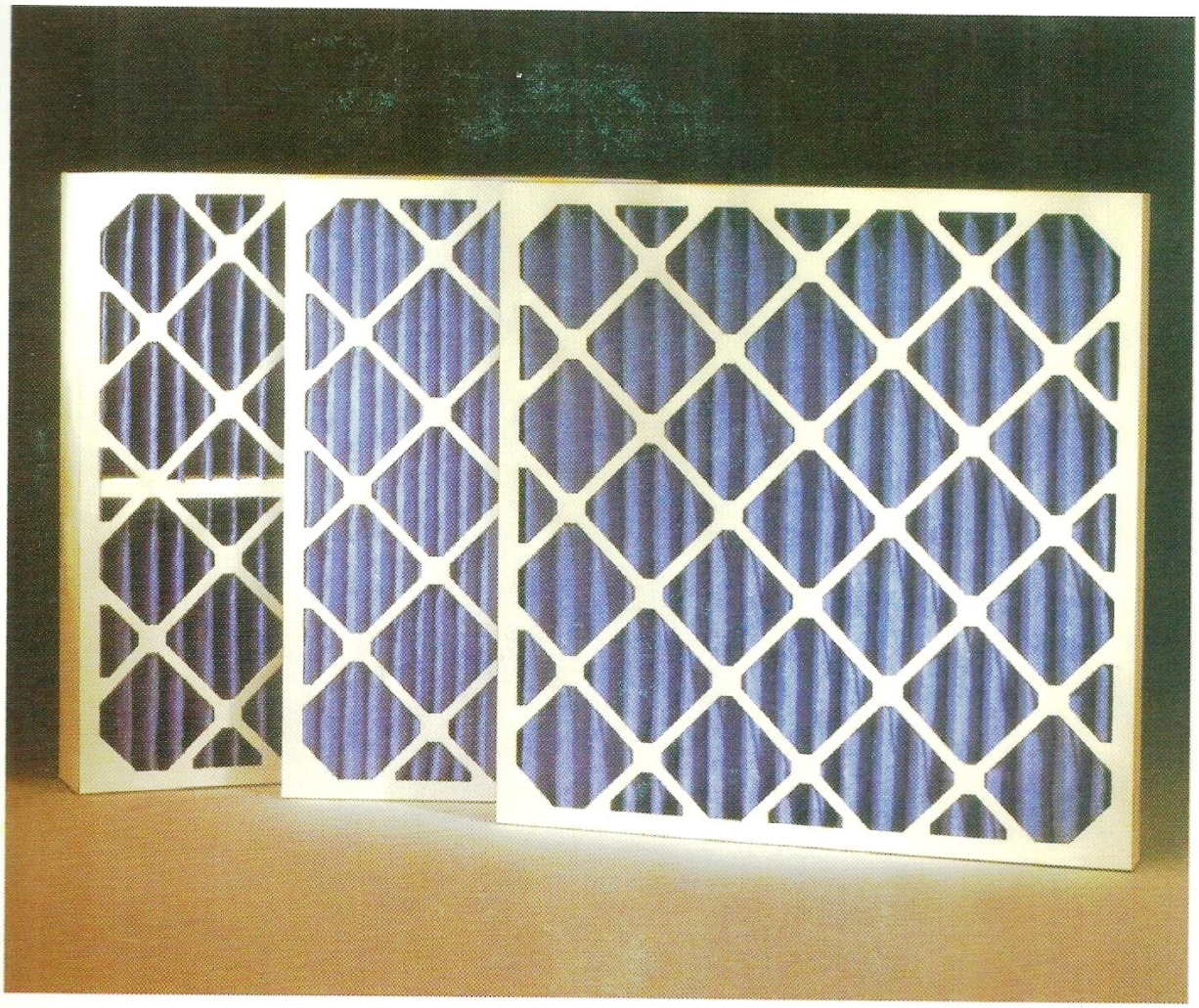
** Recommended final resistance. System design may dictate a lower change out point.

*** Average efficiency of 25 - 30% and arestance 90 - 95% in accordance with the ASHRAE 52.1 - 1992 test standards.

**** Non-standard sizes are available upon request.

SUPER PLEAT®

PLEATED AIR FILTER



FEATURES

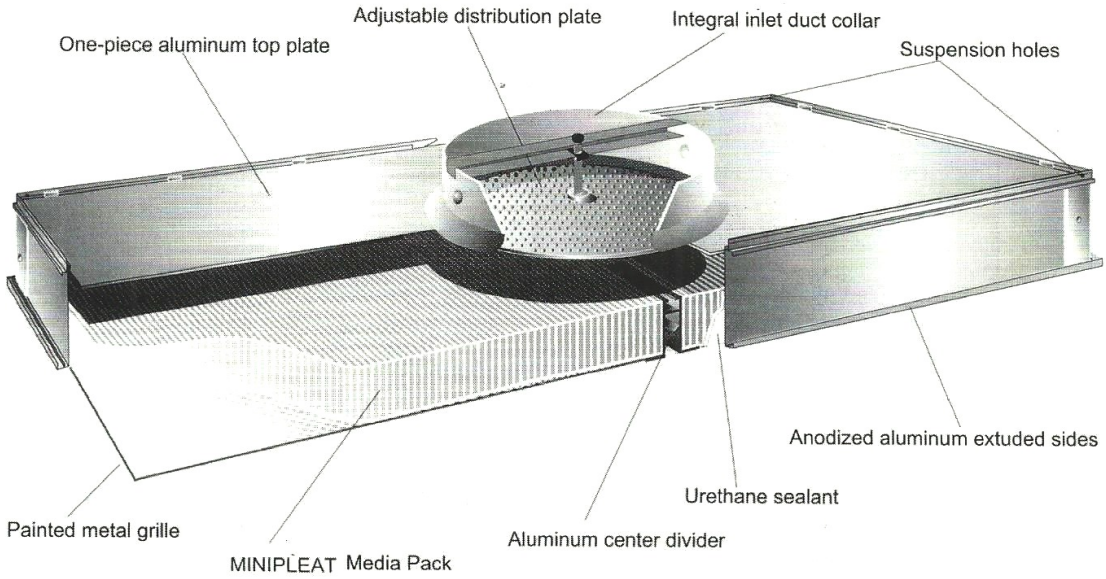
100% NON-Woven Synthetic Media

Heavy Duty Beverage Board Pearl coat Carton

Corrugated Design

Media Bonded with Expaded Metal mesh

HEPA / ULPA FILTER
DISPOSABLE TERMINAL DUCTED CEILING MODULE
(TDCM)



Model No	Actual Dimensions (Inches)			Capacity (CFM)		
	W	L	D*	70fpm	90fpm	110fpm
DMICT67-24241	23-5/8	23-5/8	5-3/8	280	360	440
DMICT67-24361	23-5/8	35-5/8	5-3/8	420	540	660
DMICT67-24421	23-5/8	41-5/8	5-3/8	490	630	770
DMICT67-24481	23-5/8	47-5/8	5-3/8	560	720	880

* Add 2" for Collar Height
Standard 2" nominal media pack depth, 3" and 4" depths are also available
Perforated Face Screen
Separator type filter packs available

Better Air Everywhere

DESERT AIR FILTER FACTORY

P.O.BOX 120, RIYADH 11383, K.S.A.
TEL: +966 1 265 0567 FAX: +966 1 265 0287

HEPA / ULPA FILTER
DISPOSABLE TERMINAL DUCTED CEILING MODULE
(TDCM)

INTRODUCTION

The DAFF TDCM ceiling filter module is designed for Cleanrooms Class M4.5 (5000) to Class M6.5 (Class 100,000) where laminar airflow and roomside flow adjustment are not required.

Non-laminar flow cleanroom environments including aerospace, biotechnology, pharmaceuticals, medical devices, laser/optic film processing, and food processing packaging have all benifited from the high efficiency and long service life of these outstanding, economical filters

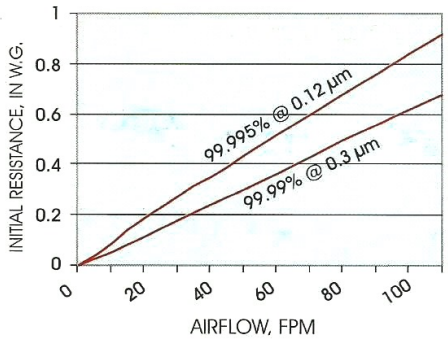
The TDCM provides guaranteed efficiencies from 99.99% on 0.3 micron particles (HEPA), to 99.9995% on 0.12 micron particles (ULPA). The possibility of air leakage is minimized because the entire module is factory sealed. DAFF's custom designed scan tester automatically scans every inch of the filter face to assure leak free performance. High strength, light weight extruded aluminum housing has interlocking corner angle braces to eliminate racking. An attractive powder painted, flattened, expanded steel face screen is completely bonded to the module perimeter

The media used for LAMI-CELL is the same type of waterproof, fire retardant microfine glass fiber paper media. The thermoplastic separators maintain uniform spacing between pleats to allow optimal flow of air into and through the filter. They also insure large effective media area for low resistance and high dust holding capacity. In addition to the standard 2" nominal media pack depth 3" and 4" nominal depths are also offered for a wide variety of applications.



The face screen with its unique pattern of diamond shaped holes (62% open area), is separated from the face of the media pack to eliminate vibration wear. The face screen encapsulated and potted within the housing to provide maximum media protection.

MEDIA PACK PERFORMANCE AT RATED FLOW (NOMINAL 2" MEDIA PACK)



TURBOCEL®

- High performance in both efficiencies and dust-holding capacity
- Metal cell side
- Flanged headers
- Welded face guards on air entering air leaving side
- Temperature limits: up to 150°C intermittent, 120°C continuos
- Economical
- High blow-out pressure

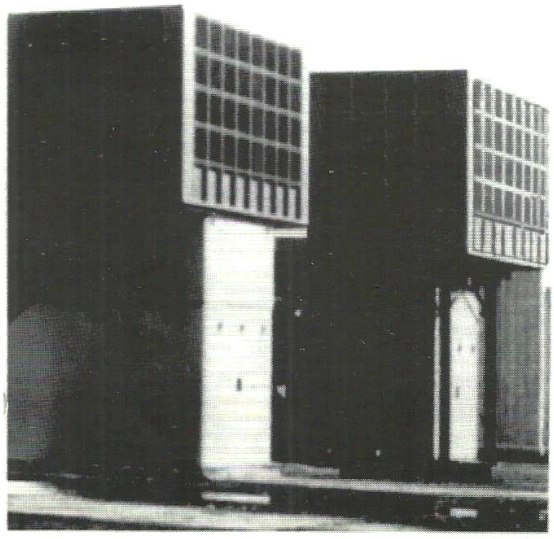


APPLICATION

The TURBOCEL is a heavy duty, high efficiency filter designed especially to withstand the rigrous of centrifugal compressors, gas turbines and engines where severe surging or pulsations occur.

CONSTRUCTION

The TURBOCEL is constructed of metal cell sides with spot welded face guards and a flange header on the air entering and air leaving sides. Face guards on both sides of the filter ensure that the media pack remains in place during severe surging or reverse air flow through the media.



The media pack is consists of high efficiency filter media folded between aluminum separators in a pleated design. The edge of the separators is longer than the inside fold of the media. This construction prevents the separators from moving and puncturing the media. The filter media is a finely woven glass paper which is capable of withstanding temperatures up to 150°C.

TURBOCEL filters are available in two styles the DCEL60 and DCEL61. The filtering efficiency of the DCEL60 is 98% by the weight test method and DCEL61 is in excess of 99% by the weight test method.

TURBOCEL®

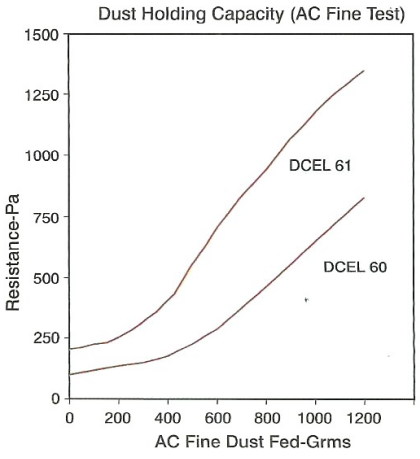
TECHNICAL DATA

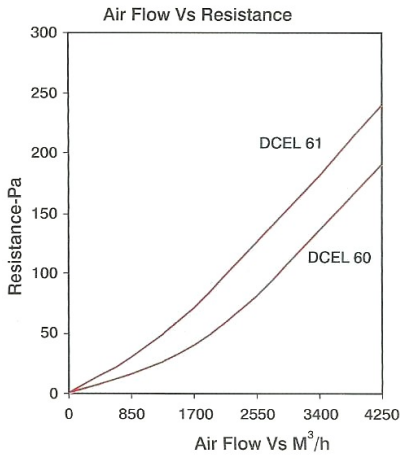
The TURBOCEL is available in two standard 24 x 24 x 12 and 24 x 12 x 12 with rating of 3400m^3/h and 1700m^3/h respectively. These ratings are nominal and most optimum performance is obtained if the filters are operated close to these ratings.
However, the filter may be used at other air volumes to meet the individual requirements of a system as the TURBOCEL dirt removal efficiencies will not be affected. It will affect the filter life and therefore, the intervals between replacements. For special applications the filters are also available in 24 x 24 x 6 (1700 m^3/h) and 24 x 12 x 6 (850m^3/h) sizes.

MODEL NO	DCEL60	DCEL61
Cell Size (mm) Actual	592x592x292	592x592x292
Air Flow (standard)	3400m^3/h	3400m^3/h
Initial △P	135 Pa	180 Pa
Final △P (recommended)*	635 Pa	635 Pa
Average Atmospheric Dust Spot Efficiency	66%	88%
Average Arrestance by Weight on AC Fine Test Dust	98%	99%
Dust Holding Capacity @ 635 Pa Final Resistance*	1100 g	800 g
Degradation Pressure**	3800 Pa	3800 Pa
Maximum Pressure**	6350 Pa	6350 Pa

* The DCEL61 in the 292mm deep size can be run to a final resistance of 1520 Pa resulting in a dust holding capacity of 1365 grams. The DCEL60 can be run To a 1000 Pa final resistance resulting in a dust holding capacity of 1365 grams
** Two blowout pressure are given: (1) Degradation-pressure at which filter efficiency is affected negatively and (2) maximum pressure at which structural damage to the filter occurs.

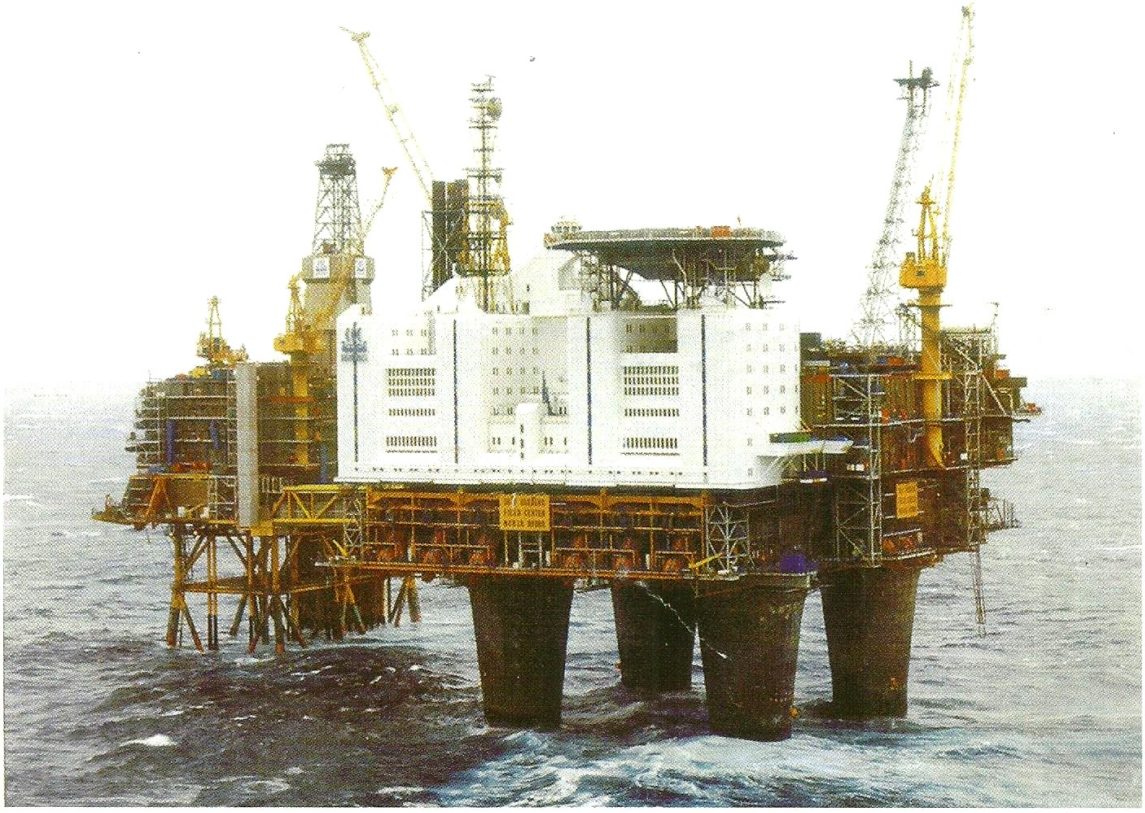
PERFORMANCE DATA





TURBOCEL XL®

OFFSHORE AIR FILTRATION





TURBOCEL XL®

GENERAL INFORMATION

The aggressive environmental conditions that exist around offshore platforms, have proved to be very demanding on gas turbines as their associated combustion/ventilation air intake systems.

The naturally occurring marine aerosol, which release airborne salt crystals in both wet and dry phases, together with the extreme of temperature, humidity and pressure, pose major problems for this type of equipment.

Platform drilling operations also generate a major source of airborne particulate matter with the periodic release of massive concentrations of mud burn dust cloud, and cement dusts. In addition the flare tip, lube oil vents and engine exhausts are responsible for the release of viscous hydrocarbons.

These all impinge upon the intake system surfaces and act as a vehicle to attract and hold dry particulate.

Platform based air filtration systems are therefore required to effectively remove all these ingested particulate to a level that prevents fouling, erosion and corrosion of the turbine and its inlet system.

Considering that approximately 40% of all airborne particulate exist in the size range of less than 2mm, and a further 40% occur between 2 and 5mm; and that the relative humidity is constantly fluctuating between 30 and 100% careful consideration must be given to the selection of an intake air filtration system.

- High performance in both efficiency and dust holding capacity
- All metal cell sides
- Flanged headers
- Welded face guards on air entering and air leaving sides
- Light weight
- Temperature limits: up to 150°C intermittent, 120°C continuos. Humidity(R.H): 100%
- Low average operating resistance
- Longer life than standard filters
- Less filter change out

The TURBOCEL XL is a heavy duty, high efficiency unit filter developed specially for the rotating machinery industry. It is designed to withstand the rigors of centrifugal compressors, gas turbines and engines where severe surging or pulsation occur.

TURBOCEL XL®

TECHNICAL DATA

MODEL NO	DCELX60	DCELX61
Cell Size (Inch) (Nom)	24 x 24 x 12	24 x 24 x 12
Cell Size (Inch) (Actu)	592 x 592 x 292	592 x 592 x 292
Media Area	13.7 Sq.m	13.7 Sq.m
Initial Resistance at 4250 m^3/h	185 Pa	250 Pa
at 3400 m^3/h	128 Pa	170 Pa
Final Resistance (recom)	635 Pa	635 Pa
Dust Holding Capacity	1420gms	1250gms
Average Atmospheric Dust spot Efficiency	70%	91%
Average Arrestance by Weight on AC Fine Test Dust	98.90%	99.95%
Degradation Pressure	3800 Pa	3800 Pa
Maximum Pressure	6350 Pa	6350 Pa
Maximum Humidity	100%	100%
Maximum Temperature	60°C	60°C

Two blowout pressure are given: (1) Degradation-pressure at which filter efficiency is affected negatively
(2) maximum pressure are which structural damage to the filter occurs.

DESERT AIR FILTER FACTORY

P.O.BOX 120, RIYADH 11383, K.S.A.
TEL: (00966) 1 265 0567 FAX: (00966) 1 265 0287

P.O.BOX 110176
JEDDAH 21361
K.S.A.
Tel: (00966) 2 640 6841
Fax:(00966) 2 640 6923

BRANCH OFFICES

P.O.BOX 4580
AL KHOBAR 31952
K.S.A.
Tel:(00966) 3 857 2809
Fax:(00966) 3 857 2866

P.O.BOX 30115
DUBAI
U.A.E.
Tel:(00971) 4 333 6564
Fax:(00971) 4 333 6116

TURBOCEL XL®

ENERGY EFFICIENCY

The new TURBOCEL XL filter offers users a choice of operation strategies to obtain the highest efficiency for their application.

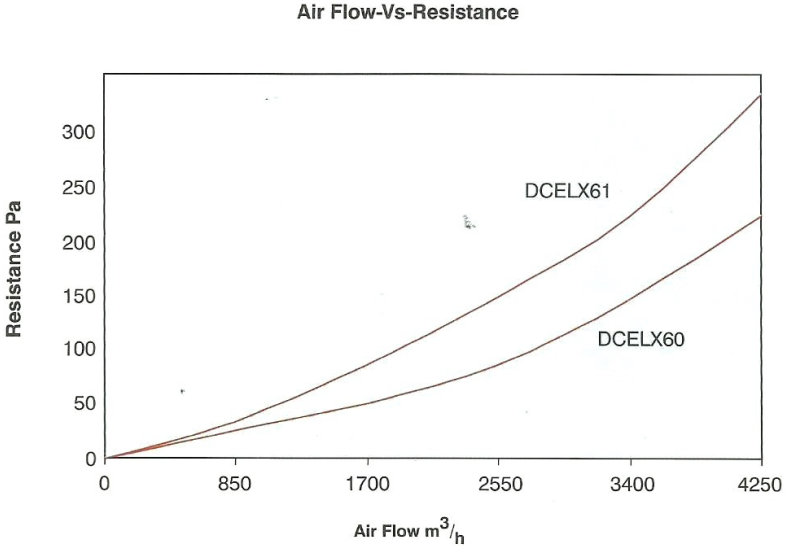
Where long runs between the main element change up are required, the TURBOCEL XL filters high dust holding capacities give filter life that exceeds any other rotating machinery barrier filter available. Longer runs eliminate downtime and maintenance cost for filter changeout.
Where low operating pressure drop is the primary concern, the TURBOCEL XL filter, because of its high capacity will operate at a lower average pressure drop than other high integrity barrier filters. Lower operating pressure drop means fuel savings to the user.

Where filter housing a size must be kept to a minimum or on applications where air flows are periodically increased, the TURBOCEL XL has the ability to operate at air volumes of up to 4250m^3/h and still offer high dust holding capacity and high efficiency.

The TURBOCEL XL filter is available in all standard sizes. It will provide air cleaning efficiencies air a wide range of air flows. This is due to the filtering properties inherent in the unique media which acts as a barrier to dirt particles. The nominal ratings of 3400m^3/h or 4250m^3/h offer the most optimum performance . However the filter may be operated at other air volumes to meet the individual requirements of a system with no loss of a efficiency. Pressure loss and filter life are the two variables that will be affected.

The TURBOCEL XL filter, when coupled with DAFF's POLY-PAD media offers the most effective filter system available on the market today. The POLY-PAD graded density allows for progressive dust loading of the preflight and eliminates face loading problems.

PERFORMANCE CURVE



TURBOCEL®

GAS TURBINE FILTERS

HIGH EFFICIENCY FILTRATION FOR GAS TURBINES... ON OFFSHORE, PLATFORMS IN DESERT AND INDUSTRIAL AREAS

