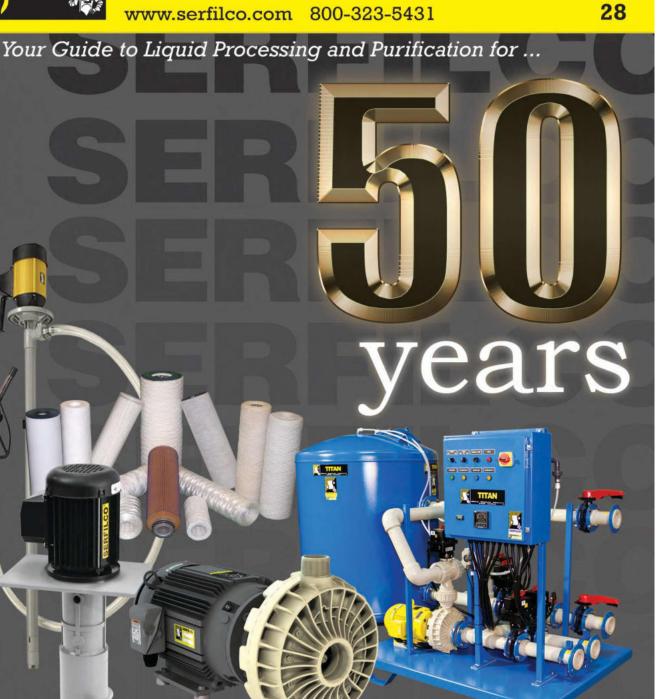


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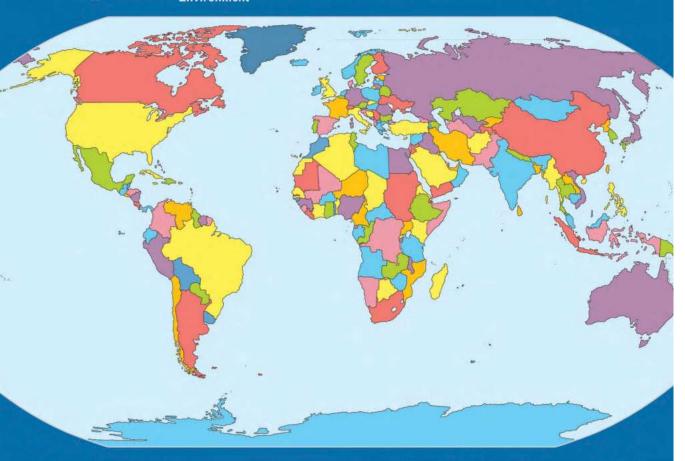




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FAX: 905-820-4015

e-mail: sales@service-filtration.com

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SELF PRIMING PUMPS

122-133

Corrosion resistant plastic or stainless steel construction for transferring chemicals, solvents, sludge, slurries and industrial waste water. Electric, air, hydraulic or gas engine drive. Flow rates to 380 GPM (1440 l/min). Direct drive, long or close coupled. Magnetic coupled also available.



AIR DIAPHRAGM PUMPS

134-141

Air operated double diaphragm pumps with a choice of metallic or all plastic solution contact to handle any product that pours.



METERING PUMPS

142-145

Metering pumps provide precise chemical additions for water treatment, plating, cooling towers and other applications.



FILTER CHAMBERS

146-192

In-line housings constructed of plastic, rubber lined steel, stainless steel or carbon steel. Operating pressures to 300 PSI. ASME code design and custom models available. Designed for depth wound, high solids loading cartridges with capacities from 1 to 2600 cartridges or for use with discs, sleeves or bags. Chambers can be arranged in parallel to achieve higher capacities or in series for

STEP DOWN FILTRATION. An application may require coarse screening followed by multi-media (sand) filtration, followed by a cartridge filter and finally ultra filtration or reverse osmosis. Using this approach flow rates from laboratory pilot requirements to thousands of gallons per minute can be achieved.





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FILTRATION SYSTEMS (Out of Tank)

193-241

Consist of a filter chamber or chambers with a horizontal pump mounted on a common base. Systems can be all plastic for non-metallic solution contact or all metallic and range in size from a single cartridge system to multi cartridge systems with flow rates to 21,000 GPH. Systems are available for use with cartridges, discs, sleeves or bags.



FILTRATION SYSTEMS (In - Tank)

242-254

Consist of a filter or filter chamber and a vertical pump. Various sizes and configurations are available including self contained units, separate pump and filter housings, suction filters and open bag systems. Systems are available for use with cartridges, discs, sleeves or bags.



AUTOMATIC PERMANENT MEDIA FILTRATION SYSTEMS

255-258

Fully automatic backwash systems for filtration and polishing of many liquids including cleaners, plating solutions or treated wastewater streams. Systems utilize various permanent media with flows to 500 GPM (1895 l/min)..



FILTER PRESS AND GRAVITY FILTER

259-269

Automatic indexing of filter media permits uninterrupted flow of solution from process to filter thus providing efficient solids-liquid separation. Recommended for machine tool oils and coolants, waste water, cooling towers, fume scrubbers and other industrial process applications. 1.5 to 113 sq. ft. filter area.

FILTER PRESSES – For dewatering wastes and municipal sludge, reclamation of solids, clarification and recovery of chemicals and costly solutions. Recessed polypropylene plates with hydraulic closure. Standard models to 50 cu. ft. with larger sizes available upon request.





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OIL FILTRATION SYSTEMS

270-272

Designed to remove contaminants from hydraulic, lubricating, turbine and screw machine oils. They can also be used for maintaining high clarity in hydraulic oils used for injection molding and die cast machines. Stationary and portable models available. Optional coalescing chambers are available for separation and removal of water.



PURIFICATION SYSTEMS & CHAMBERS 273-287

CARBON PURIFICATION – All plastic systems and chambers for organics removal from rinse waters, cleaners, plating solutions and waste streams.

ION EXCHANGE – Resin systems and chambers for water purification, precious metal recovery, and heavy metal removal.

LIQUID/LIQUID SEPARATION – Coalescing systems for removal of oils from aqueous solutions or removal of water from hydraulic and other oil base fluids.



FILTRATION MEDIA

288-315

REPLACEMENT MEDIA – We stock depth wound filter cartridges in 4" to 40" lengths and from sub-micron to 200 micron retention. We offer melt blown, pleated, membrane and stainless steel cartridges for most filter vessels; we offer both bulk granular carbon and a variety of carbon filter cartridges. Additionally we have bags, discs, industrial cartridges and a wide variety of roll-media.



AGITATION AND MIXERS

316-323

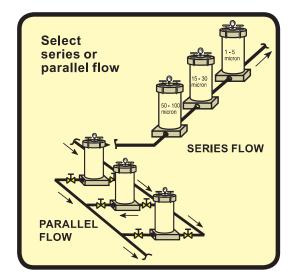
SER-DUCTOR AGITATION – provides solution **MIXING** and agitation with a centrifugal pump and a nozzle/sparger system. Agitation is five times the pump output. Improves plating and other process efficiencies without introducing foreign matter; reduces airborne emissions and saves money.

MIXERS – Direct drive and gear drive mixers for process mixing and waste treatment applications.



CLARIFICATION and PURIFICATION CHAMBERS

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431



Suitable for: SOLID / LIQUID SEPARATION, CARBON ADSORPTION and ION EXCHANGE RESIN

- · Low, medium and high flow rates
- Recirculation or in-line
 Parallel or series flow
- Uninterrupted flow with low pressure drop
- · Choice of media

Depth or pleated cartridges, cleanable sleeves, bags or discs, carbon or resin

SERFILCO recognizes the fact that not every liquid clarification requirement can be met with a prepackaged filtration system. That is why we offer a range of standard, off-the-shelf filter chambers and a broad selection of filter media, such as bags, discs, depth and pleated cartridges, cleanable sleeves and carbon or resin purification to give you the flexibility you need to meet your clarification / purification requirements. By using different combinations of chambers and media, configured for recirculatory or in-line filtration, you can achieve the level of clarification / purification desired.

The selection of the most effective combination of elements for particle / liquid separation or purification depends upon a number of factors, including the size and nature of the particles to be removed. Determination of particle size is necessary to properly select the micron retention level of the filter media to be used. Through pilot testing or experimentation, this level can be determined. Often, the filtration efficiency of existing equipment can be improved by adding a filter chamber with coarse media upstream of the existing chamber to remove a large portion of the contaminants and thereby extend the life of the denser, more costly media in the downstream filter chamber.

The nature of the particles is also a key consideration. Are the particles "slimy", blinding off the media at the surface or will they remain porous and sand-like and develop a thick cake which, in turn, enhances the filtration / separation efficiency by removing finer and finer particles as the cake develops? The answers to these questions will lead to the choice of filter media.

The common perception is that bag filters continue to retain contaminant until they are filled to capacity and puffed up like a vacuum cleaner bag. This is generally not the reality of bag filtration. Instead, once the pores on the surface of the bag plug with fines, the bag needs to be cleaned for re-use. As a result, such a filtration system becomes very maintenance intensive.

On the other hand, systems which use depth type filter media require very little maintenance because depth type filters provide a high flow rate over more than 80% of their life before the flow rate is reduced to a level where cartridge maintenance is necessary.

The following pages identify some of the filter chambers and filter media available from SERFILCO. We have included a number of schematics to help you understand the variety of approaches that can be used to meet your clarification / purification needs.



FILTER CHAMBER SIZING & ITS RELATIONSHIP TO SOLUTION CLARITY TP-119_A

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431

IN ADDITION TO THE QUESTION OF IN-LINE OR RECIRCULATORY INSTALLATION OF A FILTER FOR YOUR SOLUTION. CHAMBER SIZING CAN MAKE A SIGNIFICANT CONTRIBUTION TO THE ECONOMICS OF THE FILTRATION PROCESS.

Chamber Sizing / Oversizing

Select a filter chamber for its solids holding capacity. The size and amount of dirt in the solution will determine the number of cartridges or surface area necessary, with one 10" (25 cm) cartridge (3.5 square feet), or 2/3 sq. ft. of surface for each 50 gallons (200 liters) of solution used as a rule of thumb. The flow rate should be 2 - 30 or more tank turnovers per hour on recirculatory filter systems, depending on the application and the clarity desired. Coarse media and high flows are desirable for high dirt load applications. Increasing the number of cartridges reduces solution flow per cartridge, improves efficiency and reduces cartridge consumption. Filter cartridge solids holding capacity is increased if flow rate (velocity) through each cartridge is decreased. Therefore, reduced flow rate or

velocity through the cartridge reduces the number of filter cartridges consumed by a given dirt load. Thus, when 2 cartridges per 50 gallons (200 L) are employed, cartridge consumption is reduced by 29% and when 4 cartridges are employed, cartridge consumption is reduced by 50 %.

Oversizing by a factor of 4 doubles the solids holding capacity per cartridge. Since the chamber holds 4 times the number of cartridges, the filter is opened only 1/8 as often, reducing the labor by 87-1/2% for cartridge changing. Increasing the size of your filter chamber is particularly worthwhile since most filter chambers are offered in larger sizes at only a slight increase in cost. Oversizing also results in a savings in downtime and prevents solution loss.

ECONOMICS OF FILTER CHAMBER OVERSIZING

Oversizing Factor	Number of Cartridges in Chamber*	Dirt Holding Factors per Cartridge	Time Between Car- tridge Change	Cartridge Consumption/ Cost Reduced by:	Labor Cost Downtime/ Solution Loss Reduced by:
1	C	D	T	0	0
2	2xC	1.4D	3T	29%	67%
3	3xC	1.7D	5T	42%	80%
4	4xC	2D	8T	50%	87½%



For example...

	using a		instead of a	reduces cartridge con-		
12 0	cartridge filter	9 car	tridge filter	sumption	by 13 %	
9	и	6	"	u	18%	
6	u	3	"	"	29%	
9	u	3	"	"	42%	
12	и	3	"	"	50%	
15	ш	3	"	и	55%	

Based on average sizing [i.e. 1 - 10" (25cm) cartridge per 50 gallons (200 L)]



IN-LINE PLASTIC FILTER CHAMBERS

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431



FOR FILTRATION & PURIFICATION OF WATER OR CHEMICALS

- Choice of construction Polypropylene, Nylon, Clear S.A.N. Buna N "O"-ring standard
- Operating Pressure to 125 psi (8.5 bar)
- For Temperatures to 165°F (71°C)
- Accepts wide range of cartridge media: Pleated, String-wound, Carbon, Melt-Blown

These sturdy and quality built two piece filter housings are designed to meet the need for reliable, long lasting and convenient use. Pipeline mounted cap, and body nested Buna N "O"-ring provide ease of installation and quick-change cartridge replacement. Housings pass Water Conditioning Federation's recommended standards for hydrostatic leak and burst pressures. For complete specifications, refer to table below.

All chambers accept most standard filter cartridges: wound, pleated, melt blown, carbon. Order cartridges separately.*

GPO - Models constructed of glass-reinforced polypropylene.

GNO - Models constructed of glass-reinforced nylon and are for high-temperature service.

GSO - Models constructed of glass-reinforced polypropylene cover with a clear styrene acryl nitrile (S.A.N.) shell

10-3/4 – models accept 9-3/4" to 10" wound cartridge or 9-3/4" pleated, melt-blown, or carbon cartridge.

10-1 - models accept 9-3/4" to 10" cartridge up to 4-5/18" diameter.

20-3/4 – models accept 19-3/4" to 20" wound or 19-3/4" pleated, melt-blown, or carbon cartridge.

20-1-1/2 - models accept all 20" cartridges up to 4" diameter.



	CONN.		MAX MAX RESSURE TEMP VENT DRAI			DIMENSIONS				WEIGHT				
MODEL	NPT	PRES	SURE	IE		VENT BUTTON	DRAIN PLUG	WIDTH		LENGTH				PRICE CODE NO.
	NFI	PSI	BAR	°F	°c			in.	mm	in.	mm	Lbs.	kg.	
GPO10-3/4	3/4"	125	8.5	125	52	INCL	INCL	5-1/4	133	12-1/8	307	3-1/4	1.47	78-0930 A
GPO20-3/4	3/4"	125	8.5	125	52	INCL	INCL	5-1/4	133	22-1/2	571	4-1/4	1.93	78-0931 A
GPO10-1	1"	100	6.5	100	38	INCL	INCL	7-1/4	184	13	330	4-1/2	2.04	78-1157 A
GNO10-3/4	3/4"	125	8.5	165	71	N.A.	N.A.	5-1/4	133	12-1/8	307	4-1/4	1.93	78-0932
GSO10-3/4	3/4"	125	8.5	125	52	INCL	INCL	5-1/4	133	12-3/4	323	2-1/2	1.13	78-0929 A
GSO20-1-1/2	1"or 1-1/2"	90	8.5	100	52	INCL	N.A.	7-1/2	191	22-1/2	570	7	3.18	78-0922

OPTIONAL	PRICE CODE NO.
Wall mounting bracket for 3/4" NPT models	77-0882
Wall mounting bracket for 1" NPT Models	77-0883
Viton "O"-ring at vent	22-0691
Viton "O"-ring at cover, 3/4" models only	22-0585
	Wall mounting bracket for 3/4" NPT models Wall mounting bracket for 1" NPT Models Viton "O"-ring at vent

ECTFE vent plug with EPDM "O"-ring (to replace	ADD TO PCN
button in cover). For non-metal, solution contact	В
Valve-In-Cover-For GSO & GPO-3/4 models only. Plug valve built into cover isolates chamber from inlet and back flow when replacing cartridge.	С

Specifications subject to change without

^{*}See bulletin M-109 for filter media.



SERIES 'L' PLASTIC FILTER CHAMBERS

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FOR FILTRATION & PURIFICATION OF PROCESS SOLUTIONS:

ELECTROPLATING / CARBON PURIFICATION WATER TREATMENT / CLEANING PHOTOGRAPHIC / PHARMACEUTICAL CHEMICAL / PETROCHEMICAL / BEVERAGE

FEATURES:

Non-metallic solution contact

CPVC, polypropylene, PVC and pure PVDF construction (See a chemical resistance chart)

- Heavy duty construction
 - Pressure ratings to 160 PSI (1103 KPa) (See Pressure/temperature table on page 3)
 - Clamp ring closure or optional external tie rod
- Variety of sizes

From 4", 6" and 1 to 4 - 10" cartridge capacity (or equivalent 20", 30", or 40" lengths.)

Port size 3/4" NPT Metric and flange available

- "O"-ring seal at cover & vent valve EPDM (standard), Viton® (optional)
- Easy servicing, no tools required

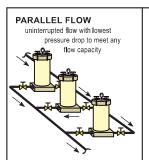
For use with a variety of filter media (order separately)

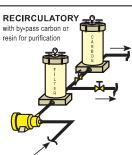
- Depth wound, pleated, carbon or membrane cartridges
- Positive cartridge seal for -Standard - DOE . . . Double Open End Optional - SOE ... Single Open End for 222 "O"-ring

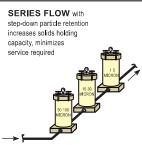


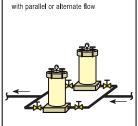
FLOW RATE

Flow rates up to 34 GPM depending upon style and length of filter cartridge, solids content, viscosity, pressure drop, and degree of clarity desired. Pressure ratings of filter chambers depend upon the temperature of solutions being filtered. See Pressure/ temperature table.









SIMPLE DUPLEX SYSTEM



SERIES 'L' PLASTIC FILTER CHAMBERS

2900 MacArthur Blvd. Northbrook, IL. USA 60062 **WWW.SERFILCO.COM** (800) 323 - 5431

SPECIFICATIONS AND DIMENSIONS

Series 'L' Plastic Filter Chambers include:

- Pressure ratings to 160 PSI
- · Non metallic solution contact
- EPDM "O" ring standard, Viton® optional
- Clamp ring cover closure standard, tie rods optional
- Integral shell-base assembly
- Vent valve or vent plug

PL CPVC Base & Cover, translucent PVC Shell

PVC shell sealed to base, EPDM "O" - ring at cover, polypropylene vent valve. Cross post or CPVC tube guide**. For DOE Cartridges.

PPL Polypropylene Base, Cover and Shell

Polypropylene* shell sealed to base, EPDM "O" - ring at cover, polypropylene vent valve. Polypropylene cross post or tube guide**. For DOE Cartridges.
*glass reinforced polypropylene

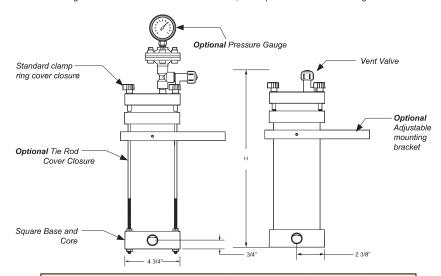
CL CPVC Base & Cover, CPVC Shell

CPVC shell sealed to base, EPDM "O" - ring at cover, polypropylene vent valve. Cross post or CPVC tube guide**. For DOE Cartridges.

KL PVDF Base, Cover and Shell

PVDF shell sealed to base, EPDM "O" - ring at cover and at PVDF vent plug. PVDF cross post or PVDF tube guide**. For DOE Cartridges.

^{**} Tube guide on size 10" and smaller chambers; cross post on size 20" and larger chambers.



	DIMENSIONS										
CHAMBER				CARTRIDGES - Max dia. 3"							
SIZE HEIGHT SHIPPING WT.				SI	ZE & N	IUMBE	R		SOLIDS		
SIZL	in.	lbs.	4"	6"	10"	20"	30"	40"	AREA		
4	7	3	1	-	-	-	-	-	1.4		
6	9	4	-	1	-	-	-	-	2.1		
10	13	5	-	-	1	-	-	-	3.5		
20	23	7	-	-	2	1	-	-	7.0		
30	33	9	-	-	3	-	1	-	10.5		
40	43	11	-		4	2	-	1	14.0		





SERIES 'L' PLASTIC FILTER CHAMBERS

PRESSURE/TEMPERATURE

FLOW RATE vs. PRESS. DIFF. 1							
CONN.	CONN. @ 5 PSI @ 15 PSI						
3/4"	12 GPM	24 GPM					
974	45 LPM	91 LPM					
¹ With 15 micron depth wound cartridges.							

MAX. PSI PRESSURE AT OPERATING TEMP, WITH TIE ROD COVER CLOSURE ²									
TEMP	TEMP CL KL PPL & PCL								
70°F 100°F 120°F 140°F 170°F 200°F	160 130 105 80 50 30	130 105 90 75 60 45	100 85 75 65 25						
² With clamp ring cover closure 40 PSI max.									

TO ORDER, use Price Code Number

	SERIES 'L' CHAMBERS								
DES	DESCRIPTION 4,6 & 10 models have a tube guide: 20, 30 & 40 models have a cross post. MODEL NUMBER w/3/4 NPT CONN								
PCL	CPVC base and cover, translucent PVC shell with shell sealed to base	CPCL4 ¾ CPCL6 ¾ CPCL10 ¾ CPCL20 ¾ CPCL30 ¾ CPCL40 ¾	78-1266AC 78-1267AC 78-1268AC 78-1269AC 78-1270AC 78-1271AC						
CL	CPVC base, cover, and shell with shell sealed to base	CCL4 ¾ CCL6 ¾ CCL10 ¾ CCL20 ¾ CCL30 ¾ CCL40 ¾	78-0238AC 78-0239AC 78-0240AC 78-0241AC 78-0242AC 78-0243AC						
PPL	Polypropylene base, cover, and shell with shell sealed to base	CPPL4 ¾ CPPL6 ¾ CPPL10 ¾ CPPL20 ¾ CPPL30 ¾ CPPL40 ¾	78-0285AC 78-0286AC 78-0287AC 78-0288AC 78-0289AC 78-0290AC						
KL	PVDF base, cover, and shell with shell sealed to base	CKL4 ¾ CKL6 ¾ CKL10 ¾ CKL20 ¾ CKL30 ¾	78-0465AC 78-0466AC 78-0467AC 78-0468AC 78-0469AC						



OPTIONAL EQUIPMENT

TO ORDER	DESCRIPTION	ADD to MODEL NO.	ADD to PRICE CODE NO.		
Viton elastomers	Change L to V in Model Number.			-V	
Mounting bracket	Adjustable: 9" x 5" PVC	Adjustable: 9" x 5" PVC			
Cover plate	Standard on models with tie rod cover closure. (Recommended above 120°F at 75% of max. pressure)		99-1099-1		
222 "O"-ring cartridge seat	For SOE (single open and flat top) cartridge. Cross post	not furnished.	-2	-2	
Pressure gauge 0-60 PSI	Mounted in cover with EPDM diaphragm & vent valve. Mounted in cover with Viton diaphragm & vent plug	Polypropylene CPVC PVDF	-G4A -G4A -G4	99-1399 99-0733 99-1222	
Tie rod cover closure	Drop first C from Model Number and C from Price Code	Number	7		

SERIES 'S' PLASTIC CARTRIDGE FILTER CHAMBERS

C-106_U

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431



FLOW RATE

Flow rates up to 68 GPM depending upon style and length of filter cartridge, solids content, viscosity, pressure drop, and degree of clarity desired. Pressure ratings of filter chambers depend upon the temperature of solutions being filtered. See Pressure/ temperature table on next page.

FOR FILTRATION & PURIFICATION OF PROCESS SOLUTIONS:

ELECTROPLATING / CARBON PURIFICATION WATER TREATMENT / CLEANING PHOTOGRAPHIC / PHARMACEUTICAL CHEMICAL / PETROCHEMICAL / BEVERAGE

FEATURES:

Non-metallic solution contact

CPVC, polypropylene, PVC and pure PVDF construction (See a chemical resistance chart)

- Heavy duty construction
 - Pressure ratings to 135 PSI (931 KPa) (See Pressure/temperature table on next page)
 - · Swing bolt cover closure with tee handle
- Variety of sizes

From 3 to 12 - 10" cartridge capacity (or equivalent 20", 30", or 40" lengths.)

Port size 1" NPT

Metric and flange available

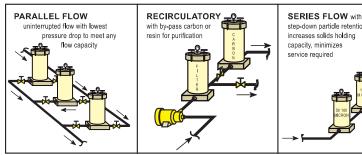
"O"-ring seal at cover & vent valve

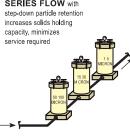
EPDM (standard), Viton® (optional)

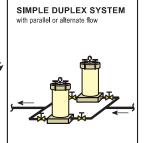
Easy servicing, no tools required

For use with a variety of filter media (order separately)

- Depth wound, pleated, carbon or membrane cartridges
- Positive cartridge seal for -Standard - DOE . . . Double Open End Optional - SOE ... Single Open End for 222 "O"-ring











SERIES 'S' PLASTIC FILTER CHAMBERS

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SPECIFICATIONS

Series 'S' Plastic Filter Chambers include:

- Pressure ratings to 135 PSI
- Non-metallic solution contact
- EPDM "O" ring standard, Viton® Optional
- Swing bolt cover closure w/ SS swing bolts & bracket
- Integral shell-base assembly
- Inlet to outlet at 90° or 180° aspect
- 0 60 PSI pressure with gauge guard and vent valve

PL CPVC Base & Cover, PVC Shell

PVC shell sealed to base, EPDM "O" - ring at cover. Polypropylene vent valve, cross posts and springs. For DOE Cartridges.

PPL Polypropylene Base, Cover and Shell

Polypropylene* shell sealed to base, EPDM "O" - ring at cover. Polypropylene vent valve, cross posts and springs. For DOE Cartridges.

*glass reinforced polypropylene

CL CPVC Base, Cover, and Shell

CPVC shell sealed to base, EPDM "O" - ring at cover. Polypropylene vent valve, cross posts and springs. For DOE Cartridges.

KL PVDF Base, Cover and Shell

PVDF shell sealed to base, EPDM "O"-ring at cover. PVDF vent valve, cartridge posts and internals. For DOE Cartridges.

PRESSURE/TEMPERATURE

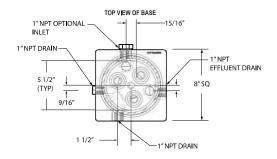
FLOW R	FLOW RATE vs. PRESS. DIFF. 1								
CONN.	@ 5 PSI	@ 15 PSI							
1"	30 GPM	58 GPM							
'	114 LPM	220 LPM							
	With 15 micron depth wound cartridges.								

MAX. PSI PRESSURE AT OPERATING TEMP.									
	P	L	C	L	KL	PPL			
TEMP.	*with cover plate	without cover plate	*with cover plate	without cover plate	with cover plate	with cover plate			
70°F	135	100	135	100	120	50			
100°F	100	85	110	85	95	45			
120°F	65	55	90	65	80	40			
140°F	35	30	70	50	70	35			
170°F	-	_	45	30	55	15			
200°F	-	-	25	20	45	-			

^{*} See Optional for cover reinforcing plate.

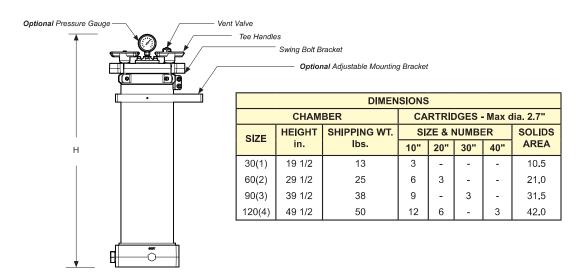
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DIMENSIONS





SERIES 'S' PLASTIC CARTRIDGE FILTER CHAMBERS



TO ORDER, use Price Code Number

	DESCRIPTION	MODEL NUMBER w/ 3/4 NPT CONN.	PRICE CODE NO.	
PL	CPVC base and cover, PVC shell sealed to base	PL30(1)S-1-G3 PL60(2)S-1-G3 PL90(3)S-1-G3 PL120(4)S-1-G3	78-1132 78-1133 78-1134 78-1135	
CL	CPVC base, cover, and shell with shell sealed to base			
KL	PVDF base, cover, and shell with shell sealed to base			
PPL	Polypropylene base, cover, and shell with shell sealed to base	PPL30(1)S-1-G3 PPL60(2)S-1-G3 PPL90(3)S-1-G3 PPL120(4)S-1-G3	78-1040 A 78-1041 A 78-1042 A 78-1043 A	

OPTIONAL EQUIPMENT

TO ORDER	DESCRIPTION	ADD to MODEL NO.	ADD to PRICE CODE NO.
Viton elastomers	Viton gaskets gauge diaphgragm	Change L to V in Model Number.	-V
Mounting bracket	PVC 11" x 8" x 1" (279 x 203 x 25mm)	Use prefix S	88-0556-1
Reinforcing plate	For PL, CL models.	-	88-0597-1
222 "O"-ring cartridge seat	For SOE (single open end flat top) cartridges. (2.7" max dia.) Top seats, springs, cross posts not furnished.	-2	-2
PVDF flange connections for KL models (Specify 90° or 180° orientation)		-F	-F



SERIES 'G' PLASTIC CARTRIDGE FILTER CHAMBERS

C-107_W

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431



FLOW RATE

Flow rates to 125 GPM depending upon size of chamber, style of filter cartridge, solids content, viscosity, pressure drop and degree of clarity desired. Pressure ratings of filter chambers depend upon the temperature of solutions being filtered. See table.

FOR: WATER TREATMENT / FOOD PROCESSING CLEANING / PHOTOGRAPHIC ELECTROPLATING / PHARMACEUTICAL CHEMICAL / PETROCHEMICAL / BEVERAGE

These filter chambers are designed for filtering process solutions where clarification will extend operating life and improve quality.

FEATURES:

- Non-metallic solution contact
 - CPVC, PVC or polypropylene construction (See a chemical resistance chart)
 EPDM elastomers standard, Viton® optional
- Heavy duty construction
 - Pressure ratings to 80 PSI (552 KPa)
 - Positive "O"-ring seal at base and cover
 - Cartridge guides with screw-on caps for positive cartridge seal
 - Stainless steel external hardware
 - 0-60 PSI pressure gauge with gauge guard and vent valve
- Cartridge capacity

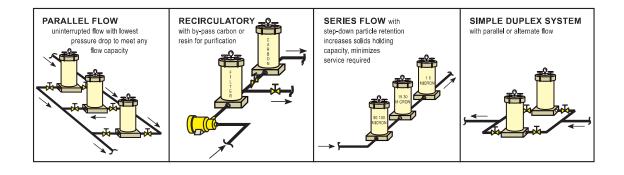
From 12 to 60 - 10" cartridge capacity (or equivalent 20", 30", or 40" lengths)

Easy service

Swing bolt cover closure with tee handles – no tools required

 Port size 1½" NPT BSP optional







SERIES 'G' FILTER CHAMBERS Specifications and Ordering information

All chambers have cover swing bolts with tee handles, stainless steel swing bolt and hold down brackets; FRP top and bottom reinforcing plate, cartridge guides with screw-on cap, 0-60 PSI pressure

gauge with gauge guard, EPDM gaskets and drain plugs. All fasteners are stainless steel. For DOE cartridges.

TO ORDER, USE PRICE CODE NUMER

	DESCRIPTION CONNS.		MODEL	PRICE CODE	NUMBER of 10"	SOLIDS*	SHIPPING WEIGHT
			NUMBER	NUMBER	CARTS		lbs.
	CPVC base and		PL120SIO 11/2-G3A	78-1901P	12	42	82
			PL240SIO 11/2-G3A	78-1902P	24	84	89
PL	cover, PVC shell, CPVC vent valve	1½" NPT	PL360SIO 11/2-G3A	78-1903P	36	126	97
			PL480SIO 11/2-G3A	78-1904P	48	168	104
	and internals.		PL600SIO 11/2-G3A	78-1905P	60	210	112
		1½" NPT	CL120SIO 11/2-G3A	78-1901C	12	42	82
	CPVC base, cover, shell, vent valve and internals.		CL240SIO 11/2-G3A	78-1902C	24	84	89
CL			CL360SIO 11/2-G3A	78-1903C	36	126	97
			CL480SIO 11/2-G3A	78-1904C	48	168	104
			CL600SIO 11/2-G3A	78-1905C	60	210	112
	Polypropylene		PPL120SIO 11/2-G3A	78-1901PP	12	42	82
	base, cover and		PPL240SIO 11/2-G3A	78-1902PP	24	84	89
PPL	shell, CPVC vent	1½" NPT	PPL360SIO 11/2-G3A	78-1903PP	36	126	97
	valve and inter-		PPL480SIO 11/2-G3A	78-1904PP	48	168	104
	nals.		PPL600SIO 11/2-G3A	78-1905PP	60	210	112

^{*} For each 10" length, the solids holding capacity is 3" sq ft of surface media of the same porosity

For use with a variety of filter media (order separately)

- Depth wound, pleated, carbon or membrane cartridges
- Positive cartridge seal for Double Open End (DOE)

Standard - DOE ... Double Open End

Optional - SOE ... Single Open End for 222 "O"-ring

OPTIONAL

TO ORDER	ADD TO MODEL NO.	ADD TO PRICE CODE NO.
Viton elastomers	change L to V	- V
1½" BSP connections**	- B	- B

^{**} For flange or socket connection consult factory

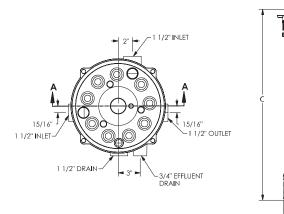
TO ORDER	ADD TO MODEL NO.	ADD TO PRICE CODE NO.
222 "O"-ring seat for SOE (Single open end flat top) cartridge. Top seats, springs and cross posts not furnished.	-2	- 2





SERIES 'G' FILTER CHAMBERS Dimensions and Technical information

DIMENSIONS



	CHAMBER MODEL	C HEIGHT	CARTRIDGES (Max. dia. 2-5/8") SIZE & NUMBER				
	MODEL	in.	10"	20"	30"	40"	
	120S-1½	211/4	12	_	_	_	
ı	240S-1½	311/4	24 9	r 12	_	-	
ı	360S-1½	411/4	36	_ 0	r 12	-	
ı	480S-1½	511/4	48 0	or 24	<u>-</u> q	r 12	
ı	600S-1½	611/4	60 C	or 12	+ 12	-	

PRESSURE / TEMPERATURE

MAXIMUM PRESSURE AT OPERATING TEMPERATURE WITH TOP & BOTTOM REINFORCING PLATES							
	PSI ¹						
TEMPERATURE	PL PPL CL						
70°F	80	75	80				
100°F	75	60	75				
120°F	40	50	70				
140°F	25	40	55				
170°F	_	15	35				
200°F	_	_	30				

FLOW RATE vs. PRESSURE DIFFERENTIAL 2							
MODEL @ 5 PSI @ 15 PSI							
1½" 'G'	60 GPM 227 LPM	110 GPM 416 LPM					



- Maximum differential pressure from inlet to outlet (across separator plate) is 40 PSI at 68° F.
- ² With 15 micron depth wound cartridges.

SERIES 'GC' PLASTIC CARTRIDGE FILTER CHAMBERS

C-113_A

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431

For: ACID / AQUEOUS / CHEMICAL / ELECTROPLATING / WASTE TREATMENT



These filter chambers are designed for filtering process solutions where clarification will extend operating life and improve quality.

FEATURES:

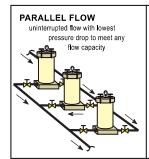
- Non-metallic solution contact
 PVC or CPVC with Viton® or EPDM elastomers
 (See a chemical resistance chart)
- Heavy duty construction shell cemented to base no leaks
- High flow rate, low pressure drop 2" connections
- High capacity —
 12 20", 30", 40" or 50" filter cartridges
- Easy to operate swing bolts with 'T'-handles, 60 psi gauge with guard assembly, air vent valve and drain port

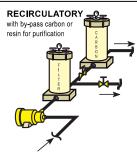
BENEFITS:

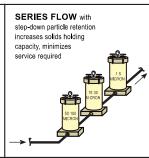
- Will not leak at base. Shell and base cemented together
- Long service life will not rust or corrode
- . Easy to install and operate
- Improve finished goods quality Eliminate scrap and rework

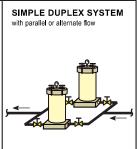
Series 'GC' chambers feature a precision CNC machined base and molded cover. The innovative base design has 2" inlet and outlet ports providing low pressure differential. The base includes ³/₄" plugged drain ports for ease of maintenance. The shell is cemented to the machined base to eliminate leakage and warping. The cover includes a vent valve, 0-60 psi pressure gauge with guard assembly, and an FRP cover plate. The cover is secured with swing bolts and 'T'-handles (no tools are required to change

cartridges). The shell is 12" diameter and will hold 12 - 20", 30", 40" or 50"* D.O.E. (double open end) style cartridges. Internals included are CPVC cross posts and polypropylene cap springs to ensure proper cartridge location and eliminate solution by-pass. The base, shell and cover are PVC or CPVC for totally non-metallic solution contact. Elastomers are EPDM or Viton and all external hardware is stainless steel.





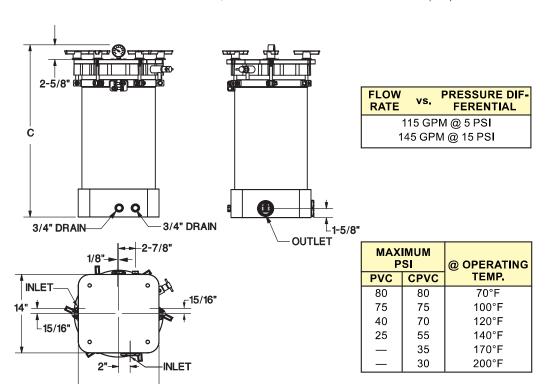




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SERIES 'GC' FILTER CHAMBERS Specifications, Dimensions and Ordering Information



	TO ORDER, use Price Code Number								
MATERIALS	PORT SIZE NPT	NO CARTS	MODEL NUMBER	C.	PRICE CODE NUMBER	SHIP. WT. (lbs.)			
PVC/EPDM	2"	12 - 20" 12 - 30" 12 - 40" 12 - 50"	PL240(2)SC 2 G3A PL360(3)SC 2 G3A PL480(4)SC 2 G3A PL600(5)SC 2 G3A	30-11/16" 40-11/16" 50-11/16" 60-11/16"	78-1671 P 78-1672 P 78-1673 P 78-1674 P	115 125 135 145			
CPVC/EPDM	2"	12 - 20" 12 - 30" 12 - 40" 12 - 50"	CL240(2)SC 2 G3A CL360(3)SC 2 G3A CL480(4)SC 2 G3A CL600(5)SC 2 G3A	30-11/16" 40-11/16" 50-11/16" 60-11/16"	78-1671 C 78-1672 C 78-1673 C 78-1674 C	115 125 135 145			



SLEEVE SET (12) CPVC & POLYPROPYLENE						
SOLIDS AREA Add PRICE Sq. ft. CODE NO.						
20	14.4	78-0201				
30	21.6	78-0202				
40	28.8	78-0203				
50	36.0	78-0204				

For Viton elastomers:

add -V to Price Code Number and change L to V in Model Number

OPTIONAL	ADD TO MODEL NO.	ADD TO PRICE CODE NO.
222 "O"-ring seat for SOE (Single open end flat top) cartridge. Top seats, springs and cross posts not furnished.	- 2	- 2



SERIES 'GH-HP' PLASTIC FILTER CHAMBERS

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431



The Series 'GH-HP" Filter Chambers feature heavy duty construction to meet difficult high pressure and/or temperature applications. They utilize machined bases and covers with tie rod cover closures for extra strength.

Series 'GH-HP' chambers are offered in a wide variety of sizes with flows to 275 GPM. Materials of construction offerings include PVC, CPVC, polypropylene, and PVDF.

WATER TREATMENT / FOOD PROCESSING CLEANING / PHOTOGRAPHIC ELECTROPLATING / PHARMACEUTICAL CHEMICAL / PETROCHEMICAL / BEVERAGE

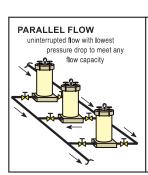
These filter chambers are designed for filtering process solutions where clarification will extend operating life and improve quality.

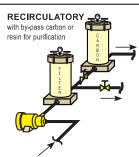
FEATURES:

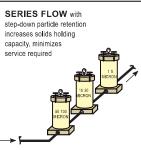
Non-metallic solution contact

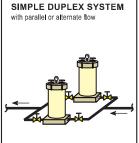
CPVC, PVC, polypropylene or pure PVDF construction (See Chemical Resistance Chart)

- Heavy duty construction
 - High Pressure to 140 PSI (965 K Pa) (See Pressure/temperature table)
 - SS tie rod cover closure with tee handles
 - Pressure gauge with gauge guard and vent valve or plug
 - Cartridge guides with screw-on caps for positive cartridge seal
- Variety of sizes are available
 From 4 to 55 10" cartridge capacity
 (or equivalent 20", 30", or 40" lengths)
- Port sizes 1½", 2" & 3" NPT or flange depending on model











SERIES 'GH-HP' CHAMBERS Specifications and Ordering information

Tie rod closure with tee handles, stainless steel shell hold-down bracket, top reinforcing plate, 0-60 PSI pressure gauge and guard, EPDM gaskets, drain plugs. All fasteners are stainless steel. For DOE cartridges.		MODEL NUMBER	PRICE CODE	CARTRIDGE NUMBER SOLIDS		SHIPPING WEIGHT	
All lasteries			NUMBER	NUMBER	of 10" CARTS.	AREA sq. ft.	lbs.
		CONNS.	PL50 11/2-G3A-HP	78-0520	5	17.5	45
			PL100 1½-G3A-HP	78-0521	10	35.0	55
		1½" NPT	PL150 11/2-G3A-HP	78-0522	15	52.5	65
			PL200 1½-G3A-HP	78-0523	20	70.0	75
	PVC base, cover and		PL220 2-G3A-HP	78-0321	22	77.0	94
PL	shell, CPVC vent valve	2" NPT	PL330 2-G3A-HP	78-0322	33	115.5	101
	and internals.	2" NP1	PL440 2-G3A-HP	78-0323	44	154.0	109
			PL550 2-G3A-HP	78-0324	55	192.5	116
			PL330 3-G3A-HP	78-1328	33	115.5	101
		3" NPT	PL440 3-G3A-HP	78-1329	44	154.0	109
			PL550 3-G3A-HP	78-1330	55	192.5	116
	Polypropylene base, cover, and shell. Polypropylene vent		PPL70 2F-G3-HP	78-1377	7	24.5	30
PPL			PPL140 2F-G3-HP	78-1378	14	49.0	60
		2" Flange	PPL210 2F-G3-HP	78-1379	21	73.5	90
	value and internals		PPL280 2F-G3-HP	78-1380	28	98.0	120
			CL50 11/2-G3A-HP	78-1146A	5	17.5	45
		41/II NIDT	CL100 1½-G3A-HP	78-1147A	10	35.0	55
	000101		CL150 1½-G3A-HP	78-1148A	15	52.5	65
	CPVC base, cover and		CL200 1½-G3A-HP	78-1149A	20 22	70.0 77.0	75 94
CL	shell with CPVC vent valve and internals.		CL220 2-G3A-HP CL330 2-G3A-HP	78-0111 78-0112	33	77.0 115.5	94 101
"-		valve and internals. 2" NPT	2" NPT	CL330 2-G3A-HP CL440 2-G3A-HP	78-0112 78-0113	44	115.5
			CL440 2-G3A-HP CL550 2-G3A-HP	78-0113 78-0114	55	192.5	116
			CL330 3-G3A-HP	78-1331	33	115.5	101
		3" NPT	CL440 3-G3A-HP	78-1331	44	154.0	109
		3 INF I	CL550 3-G3A-HP	78-1333	55	192.5	116
			KL40(1) 1½F-G3-HP	78-0479	4	14.0	45
			KL80(2) 1½F-G3-HP	78-0480	8	28.0	55
	PVDF cover and base,	1½" Flange	KL120(3) 1½F-G3-HP	78-0481	12	42.0	65
1/1	PVDF shell sealed to		KL160(4) 1½F-G3-HP	78-0482	16	56.0	75
KL	base. PVDF vent plug,		KL70 2F-G3-HP	78-0454	7	24.5	55
	and internals.		KL140 2F-G3-HP	78-0455	14	49.0	115
		2" Flange	KL210 2F-G3-HP	78-0456	21	73.5	175
			KL280 2F-G3-HP	78-0457	28	98.0	230

PRESSURE/TEMPERATURE

MAXIMUM PSI PRESSURE AT OPERATING TEMPERATURE									
TEMP.	TEMP. PL PPL CL KL								
°F	1½" 2" & 3" 2" 1½" 2" & 3" 1½" 2"						2"		
70	140	110	100	140	110	135	120		
100	95	75	64	120	100	110	95		
120	60	50	52	100	80	90	80		
140	35	25	40	75	60	80	70		
170	- - 31 50 30 60 55								
200	-	-	_	30	25	50	45		

FLOW RATE vs. PRESS. DIFFERENTIAL 1						
MODEL @ 5 PSI @ 15 PSI						
1½" 'GH-HP' 70 GPM 125 GPM 265 LPM 473 LPM						
2" 'GH-HP'	115 GPM 435 LPM	145 GPM 549 LPM				
3" 'GH-HP' 170 GPM 275 GPM 643 LPM 1040 LPM						
¹ With 15 micron depth wound cartridges.						



OPTIONAL

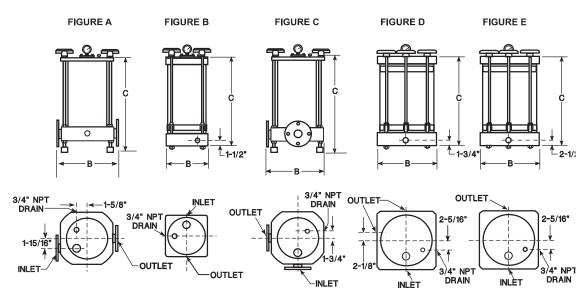
TO ORDER ADD TO		MODEL NO.		
		PRICE CODE NO.		
Flange connections: CPVC	1½" 2" 3"	- F	78-0458 78-0459 78-1344	
Viton elastomers		change L to V	- V	

	ADD TO			
TO ORDER	MODEL NO.	PRICE CODE NO.		
222 "O"-ring seat for SOE (Single open end flat top) cartridge.	- 2	- 2		



SERIES 'GH-HP' CHAMBERS Dimensions

DIMENSIONS



TOP VIEW of BASES

FIGURE	CHAMBER MODEL	PORT SIZE	B WIDTH	C HEIGHT	CARTRIDGES*			
			in.	in.	10"	20"	30"	40"
Α	KL40 1½F KL80 1½F KL120 1½F KL160 1½F	1½" FLANGE	13½ INCLUDES FLANGES	21 31 41 51	4 8 oi 12 16 oi	- (- or 4 -	- - - or 4
В	CL, PL50 1½ CL, PL100 1½ CL, PL150 1½ CL, PL200 1½	1½" NPT	10 SQUARE	20½ 30½ 40½ 50½	5 10 or 15 20 or	- (- or 5	- - - or 5
С	PPL, KL70 2F PPL, KL140 2F PPL, KL210 2F PPL, KL280 2F	2" FLANGE	14½ INCLUDES FLANGES	24 34 44 54	7 14 oi 21 28 oi	- (- or 7	- - or 7
D	CL, PL 2 CL, PL 2 CL, PL 2 CL, PL 2	2" NPT	15½ SQUARE	31 41 51 61	22 or 33 44 or 55 or	- 22		- or 11 -
E	CL, PL 3 CL, PL 3 CL, PL 3	3" NPT	15½ SQUARE	42½ 52½ 62½	33 44 or 55 or		-	r 11

 $^{^{\}star}$ Maximum cartridge diameter: All PPL and PL & CL 50, 100, 150 & 200 $\,$ - $\,$ 2-5/8 inches. All others - 2-3/4 inches.



SERIES 'HD' PLASTIC CARTRIDGE FILTER CHAMBERS

ELECTRONIC MANUFACTURING, PHARMACEUTICALS, FOOD & BEVERAGE



FEATURES

- High purity non-metallic solution contact Precision CNC machined from premium grade PVDF or natural pure polypropylene
- Proven durability and ease of service
- Standard heavy duty flange connections for ease of installation and trouble-free operation
- Standard 0-60 PSI gauge, air vent valve and drain port
- For use with standard 10", 20", 30" or 40" single open end (SOE) 222 style filter cartridges
- Flow rates to 150 GPM

BENEFITS

- Economical Easy installation, operation and maintenance
- Efficient High flow rate, low pressure drop saves energy
- Improves quality of finished product Saves money, reduces scrap and rework
- SERFILCO worldwide leader in service, dependability and design for over 35 years



SPECIFICATIONS

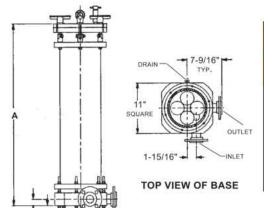
SERIES 'HD' filter chambers are precision CNC machined from high purity PVDF or natural pure polypropylene. Chambers feature a swing bolt cover closure with 'T'-handles for ease of cartridge service — no tools are required. Precision machined covers feature FRP reinforcing plate to ensure positive liquid containment. Standard 0 - 60 PSI gauge guard, vent valve and drain port are designed to simplify operation and maintenance. Standard flange connections are $1\frac{1}{2}$ " with rugged 316 stainless steel back plates for ease of installation and to ensure leak-free operation. All external fasteners are 316 stainless steel; standard elastomers are EPDM. Chambers are designed for use with 4 - 10", 20", 30" or 40" SOE style filter cartridges.



SERIES 'HD' CHAMBER Specifications

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431

DIMENSIONS



FLOW RAT	E vs. PSI
70 GPM	= Δ 5 P
125 GPM	= Δ 15 P

MAX. PSI PRESSURE @OPERATING TEMPERATURE						
TEMPERATURE	PSI Polypropylene	PVDF				
80°F	58	90				
100°F	51	76				
120°F	45	65				
140°F	39	55				
160°F	30	47				
180°F	Not recommended	40				
200°F	Not recommended	34				

SPECIFICATIONS and ORDERING INFORMATION

MODEL	MATERIAL	CONNECTIONS	NO. of SOE CARTRIDGES *	MAX. CART. LENGTH	HEIGHT A	SHIP. WT. Lbs.	TO ORDER, USE PRICE CODE NO.
PPL40(1) SH 1½F-2 PPL80(2) SH 1½F-2 PPL120(3) SH 1½F-2 PPL160(4) SH 1½F-2	Polypropylene	1½" flange	4 - 10" 4 - 20" 4 - 30" 4 - 40"	10 ¹ / ₈ " 20 ¹ / ₈ " 30 ¹ / ₈ " 40 ¹ / ₈ "	16½" 26½" 36½" 46½"	35 40 45 50	78-1650 L 78-1651 L 78-1652 L 78-1653 L
KL40(1) SH 1½F-2 KL80(2) SH 1½F-2 KL120(3) SH 1½F-2 KL160(4) SH 1½F-2	PVDF	1½" flange	4 - 10" 4 - 20" 4 - 30" 4 - 40"	10 ¹ / ₈ " 20 ¹ / ₈ " 30 ¹ / ₈ " 40 ¹ / ₈ "	16½" 26½" 36½" 46½"	55 65 75 85	78-1654 L 78-1655 L 78-1656 L 78-1657 L

NOTE: For Viton® elastomers, change L to V in Model and Price Code No.



^{*} Cartridges ordered separately. Refer to Bulletin M-207-2.



SERIES 'HF' FILTER CHAMBERS



HIGH FLOW FILTER CHAMBERS FOR:

CHEMICAL, ELECTROPLATING, WASTE TREATMENT, WATER TREATMENT, COOLING TOWER, AQUACULTURE

FEATURES:

Rugged construction, non-metallic solution contact

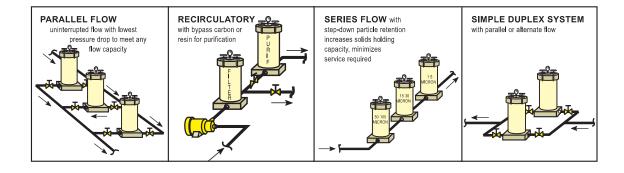
PVC or CPVC construction EPDM elastomer standard, Viton® optional

- Flows to 400 GPM
- High capacity 26 20", 30", 40" or 50" filter cartridges
- Standard 0-60 psi gauge with guard, air vent valve and drain port
- Low pressure drop 4 psi @ 200 GPM
- 'T'-handle cover closure no tools required to change cartridges

BENEFITS:

- · Long service life will not rust or corrode
- Continuous high flow particle removal improves your process and finished goods
- Long intervals between cartridge changes reduces maintenance cost.
- · Easy to operate and install.
- Efficient to operate low pressure differential





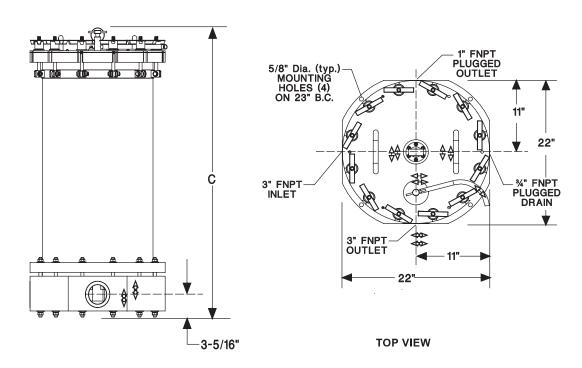


SERIES 'HF' CHAMBER Specifications

SERIES 'HF' chambers feature precision CNC machined base and cover. The innovative base design has 3" inlet and outlet ports providing low pressure differential. Base includes a 1" plugged drain port for ease of maintenance. Cover includes vent valve, 0-60 psi pressure gauge with guard assembly, and stainless steel cover plate. Cover is secured with swing bolts and 'T'-handles (no tools are

required to change cartridges). Shell is 18" diameter and will hold 26 - 20", 30", 40" or 50"* D.O.E. (double open end) style cartridges. CPVC cross posts with screw-on caps provide a positive cartridge seal ensuring no solution by-pass. Base, shell and cover are PVC or CPVC for totally non-metallic solution contact. Elastomers are EPDM and all external hardware is stainless steel.

DIMENSIONS



U	U

TO ORDER, use Price Code Number								
MODEL NUMBER ¹	NO. CARTS.	SHIP. WT. (lbs.)	DIMENSION 'C'	PRICE CODE NUMBER				
PL520(2)SH-3-G3A	26 - 20"	215	38" (965 mm)	78-1662				
PL780(3)SH-3-G3A	26 - 30"	235	48" (1219 mm)	78-1663				
PL1040(4)SH-3-G3A	26 - 40"	255	58" (1473 mm)	78-1664				
PL1300(5)SH-3-G3A	26 - 50"2	275	68" (1595 mm)	78-1665				

MAXIMUM TEMPERATURE	MAXIMUM PSI					
140°F PVC 180°F CPVC	50					
FLOW RATE vs. PSI						
200 GPM = 4 ØP 310 GPM = 10 ØP						

- Listed model is PVC. For CPVC change **P** to **C** in model number and add **C** to price code number. For Viton® elastomers change **L** to **V** in model number and add **-V** to price code number
- 50" lengths are achieved by pairing a 20" cartridge with a 30" cartridge or a 10" cartridge with a 40" cartridge.



C-103_T



SERIES 'WT' PLASTIC CARTRIDGE FILTER CHAMBERS



WATER TREATMENT / D.I. WATER R.O. & U.F. PREFILTER BRACKISH WATER/SEA WATER WASTE TREATMENT / INDUSTRIAL LIQUIDS FEATURES:

 Non-metallic solution contact PVC construction with EPDM "O"-ring (Viton® optional) (See a chemical resistance chart)

- Heavy Duty construction
 - Rated 125 PSI at 70° F (8.5 BAR @ 21°C.)
 - Cartridge guides with screw-on caps for positive cartridge seal
- Cartridge capacity
 From 7 to 28-10" cartridge capacity
 (or equivalent 20",30", or 40" lengths)
- Quick opening for easy servicing
- 2" NPT connections
 1/2" NPT drain and 1/4" NPT vent
 Choice of outlet direction

The Series 'WT' Plastic Filter Chamber is designed for total corrosion resistance, versatility of use, high flow rates at low pressure drop and ease of cartridge replacement. Each model holds seven of 10", 20", 30" or 40" filter cartridges and offers a choice of depth wound, pleated or carbon media. Quick opening eye nut-swing bolt closure allows

ease of cartridge exchange without tools, spillage or chamber draining. Cartridges are securely sealed by means of cartridge guides with screw-on caps. Standard location of outlet is opposite inlet as illustrated above. Oultet may also be provided at 90° increments to offer the most convenient arrangment for piping.



TO ORDER, use Price Code Number

DESCRIPTION	MODEL NUMBER	PRICE CODE NUMBER
Floor standing unit constructed of high luster white PVC. Includes EPDM "O"-ring, stainless steel swing bolt cover closure with eye nuts and vinyl coated bracket. Inlet/outlet connections are 2" NPT with 1/2" NPT drain and 1/4" NPT vent plug.	PL140S-2	78-1290 78-1291 78-1292 78-1293



SERIES 'WT' PLASTIC FILTER CHAMBERS (cont'd)

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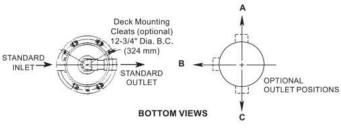
OPTIONAL

DESCRIPTION	ADD to MODEL NO.	ADD TO OR SEPARATE PRICE CODE NO.
Pressure gauge, 0-160 PSI, on polypropylene gauge guard with diaphragm and CPVC vent valve	-G7	78-0078
Optional outlet direction	-A B or C	-A, B or C
Viton "O"-ring, change L to V in Model Number		-V
Flange connections, 2" PVC	-F	78-1122
Deck anchor cleats (set of three)	-D	78-1124A

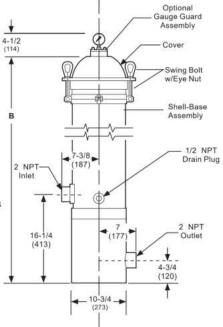
DIMENSIONS

FLOW RATE * @ PRESSURE DIFFERENTIAL							
GPM	LPM	PSI	Bar				
35	132	1	07				
70	265	1	.07				
105	397	2	14				
140	530	2	14				

^{*} Using 10 micron polypropylene depth cartridges, 5 GPM/10" length.



The use of a standpipe or pulsation dampener is recommended when operating with high pressure pumps or quick closing valves, due to the possibility of damage by water hammer.





SPECIFICATIONS

MODEL	HEIGHT B		SHIPPING WT.		CARTRIDGE CAPACITY		SOLIDS MAXIN		211	A market and a	MAXIMUM PSI AT OPERATING TEMP	
NUMBER Inc	Inches	mm	Lbs.	Kg.	10 inch	Unit length	Sq. ft.	U.S. GPM	LPM		Temp.	Max. PSI
PL70S-2	29-3/8	746	55	25	7	7 of 10"	24.5	70	265	ALL	70°F	125
PL140S-2	39-3/8	1000	60	27	14	7 of 20"	49.0	100	378	MODELS	100°F	77
PL210S-2	49-3/8	1254	65	29	21	7 of 30"	73.5	140	530		120°F	50
PL280S-2	59-3/8	1508	75	34	28	7 of 40"	98.0	140	530		140°F	28

SERIES 'FRP' PLASTIC CARTRIDGE FILTER CHAMBERS

C-108_M

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431

HIGH FLOW RATES AND HIGH OPERATING PRESSURES FOR:

WATER / DEIONIZED WATER
SEA WATER / BRACKISH WATER
INDUSTRIAL LIQUIDS / CHEMICALS
OEM-REVERSE OSMOSIS &
ULTRA-FINE PREFILTER



Epoxy resin and CPVC (See a chemical resistance chart)

Heavy duty construction

Filament-wound fiberglass and epoxy vessel with integral domed bottom

Rated to 125 PSI from 32°F to 200°F

(862 kPa from 0°C to 93°C)

- Chamber capacity 8-40" or 32-10" cartridges
- High flow rates to 320 U. S. GPM (1211 LPM) at low PSI differential
- 2" or 3" FNPT connections standard Optional ANSI 150 PSI flanges
- Quick cartridge change

Easy cartridge change, no tools required

For use with a variety of filter media1:

- Depth wound, pleated, carbon and membrane cartridges
 - Positive cartridge seal for -DOE . . . Double Open End

SOE . . . Single Open End with 120 "O"-ring

Series 'FRP' Filter Chambers provide economical particulate removal and extend the useful life of solutions through clarification. They are constructed of thermoset plastic resin reinforced with continuous filament wound fiberglass to offer the strongest FRP composite obtainable. No pigments or fillers are used, making these chambers suitable for a wide range of liquids. Standard models have EPDM "O"-rings (Viton® optional) and CPVC internals for non-metallic solution contact.

All 'FRP'models include CPVC tube guides which accept full 40" length cartridges. They also accept

carbon cartridges. An optional CPVC cross post set can be ordered for stacking 10" or 20" DOE cartridges.

'FRP' chambers use vinyl coated 316 stainless steel springs and CPVC cartridge seats to provide positive seating. Stainless steel swing bolts and polyester T-handles facilitate quick opening of cover closure. Chambers include 304 stainless steel mounting legs. Models have FNPT inlet and outlet connections. Optional flange connections available.

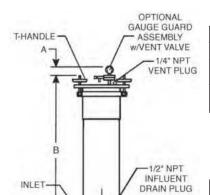
¹ Cartridges must be ordered separately. Refer to Filter Media.





INLET-

Series 'FRP' filter chambers (cont'd)



OUTLET

— 1/4" NPT EFFLUENT DRAIN PLUG

		DIME	NSIONS	- Inches	(mm)		
							PORT
MODEL	A	В	С	D	Е	F	SIZE FNPT
FRP320S	3	57-1/2	7-1/4	15-1/8	9-1/8	7-3/4	2" or 3"
	(76)	(1460)	(184)	(384)	(232	(197)	N & OUT

TO ORDER, use Price Code Number

	DIMENSIONS - Inches (mm)											
MODEL	FNPT CONNS.	NUMBER OF CARTRIDGES (Ordered	FLOW @PRES U.S.	S. DIFF.	MAXI- MUM FLOW RATE	SHIP. WT.	PRICE CODE NUMBER					
		separately)	2 PSI	5 PSI	U.S. GPM	lbs.	NOMBER					
FRP320S-2	2"	8-40" or 32-10"	100	190	250	68	77-9969					

^{*} Using clean 10 micron Maxi-Depth wound filter cartridges.

OPTIONAL, use Price Code Number

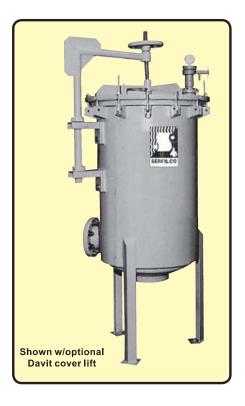
DESCRIPTION	ADD TO MODEL NO.	ADD TO OR USE SEPARATE PRICE CODE NO.
Pressure gauge, 0-160 PSI, on polypropylene gauge guard with diaphragm and CPVC vent valve Pressure gauge with Viton diaphragm	-G4A -G4AV	99-0740 99-0740V
Viton "O"-ring	-V	-V
Flange connections, 150 PSI ANSI 2" CPVC for 180°F (82°C) maximum temperature 2" PVC for 140°F (60°C) maximum temperature 3" CPVC for 180°F (82°C) maximum temperature 3" PVC for 140°F (60°C) maximum temperature	-F	78-0459 78-1122 78-1344 78-1234
Cross post set (to stack 10" or 20" cartridges, in place of standard tube guides,	_	77-9917
Modification to accept 120 "O"-ring (internal) SOE cartridges	-120	77-9934



SERIES 'Y' RUBBER LINED STEEL CARTRIDGE FILTER CHAMBERS

C-203_J

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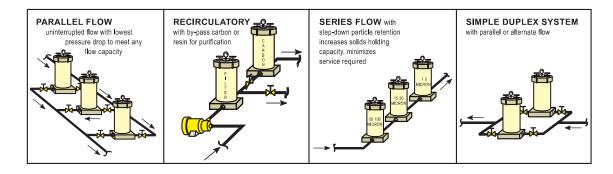
FOR FILTRATION & PURIFICATION OF PROCESS SOLUTIONS:

CHEMICAL / ELECTROPLATING R.O. PRE-FILTER / WATER TREATMENT WASTE TREATMENT / COOLING TOWER

- Non-metallic solution
 Rubber or Hypalon lined steel construction
- Heavy duty construction
 75 PSI ASME code design standard
 150 PSI code design optional
- Large cartridge capacity & wide range of sizes 24-445 of 10" cartridges to 1557 sq ft. dirt holding capacity
- High flow rates to 2225 GPM
- Easy to service
 Removable cage assembly

SERIES 'Y' Filter Chambers are made of carbon steel with vulcanized rubber or Hypalon® lining to provide non-metallic solution contact for use as a prefilter ahead of reverse osmosis membranes, for filtration of electroplating and other chemical solutions and for many other applications. Consult a chemical resistance chart, Bulletin TC-101, and Sales Department for chemical compatibility.



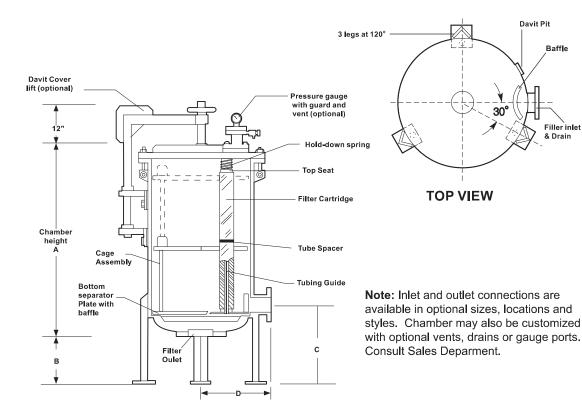




SERIES 'Y' RUBBER LINED STEEL FILTER CHAMBERS (Cont'd)

Baffle

Filler inlet & Drain



		A		В	(;	D,	ŧ.	SHIP	WT								
MODEL	in	mm	in	mm	in	mm	in	mm	Ibs	kg								
_240-2	32	813		050					350	159								
_360-2	42	1067	14	356	22	559	12	305	375	170								
_520-2	32	813	45						360	163								
_780-2	42	1067	15						390	177								
_B540-4]					600	272								
_870-4	45	1143		381								650	295					
_B900-4	65	1651							800	363								
_1050-4	45	1143	15		381	381	381	301	301	301	301	301	26	660	14.5	368	850	386
_1450-4																		
_1750-4									1000	454								
B1800-6]								1200	544								
_3000-6	65	1651	20	508	32.6	829	18	457	1400	635								
_B3000-8	05	1651	20	550					1500	680								
_4450-8														35.9	889	20	508	1800
_B4450-8					39	991	26	660	1950	885								

^{*} w/ rubber lining



SERIES Y'RUBBER LINED STEEL FILTER CHAMBERS (Cont'd)

C-203_J

; 'Y' Filter Chambers are constructed of rubber or Hypalon® lined carbon steel, providing non-metallic solution contact. A 75 PSI ASME code design, non-stamped, is standard with 150 PSI code design optional. ASME code stamp for either pressure rating is also optional.

The lining material serves as full cover, separator plate and flange gasket. Standard internals are PVC. External steel surfaces are painted with two part epoxy gray enamel and external fasteners are stainless steel.

The chamber is provided with a removable internal cage assembly for ease of cartridge service and chamber cleanout. Standard chambers are for double open end (DOE) cartridges with 222 'O-ring' SOE cartridge seats optional. Models with "B" designation provide maximum spacing between cartridges.

SPECIFICATIONS and ORDERING INFORMATION

						MODEL	PREFIX
MODEL	CHAMBER DIA (in)	FLANGE SIZE (in)	NO. OF 10"	NO. OF COLUMNS	SOLIDS CAPACITY (sq. ft)	YR RUBBER	YH HYPALON
	(,	(,			(= 4. 1.)	PRICE CODE	PRICE CODE
_240-2			24	12	84	78-0002	78-0036 A
_360-2	18	2	36	12	126	78-0003	78-0037 A
_520-2			52		182	78-0004	78-0038 A
_780-2			78	26	273	78-0005	78-0039 A
_B540-4			54	18	189	78-0006	78-0040 A
_870-4		4	87	29	305	78-0007	78-0041 A
_B900-4	22		90	18	315	78-0008	780042 A
_1050-4			105	35	368	78-0009	78-0043 A
_1450-4			145	29	508	78-0010	78-0044 A
_1750-4			175	35	613	78-0011	78-0045 A
_B1800-6	20		180	36	630	78-0012	78-0046 A
_3000-6	28	6	300	60	1050	78-0013	78-0047 A
_B3000-8	32		300	60	1050	78-0014	78-0048 A
_4450-8) 3Z	8	445	89	1558	78-0015	78-0049 A
_B4450-8	44	8	445	89	1558	78-0016	78-0050 A



OPTIONAL

DESCRIPTION	ADD TO	PRICE CODE NUMBER					
DESCRIPTION	MODEL NO.	18"	22" dia	28" dia.	32" dia.		
Davit cover lift	-D	78-0066	78-0066	78-0067	78-0068		
150 PSI ASME code design - non stamped	-150		78-0084				
ASME code stamp	-X		78	0073			
Pressure gauge/guard vent valve assembly CPVC	-GS	1 78-0073					
222 "O"- Ring cartridge seats for SOE cartridges	-2	add - 2					

SERIES 'YW' METAL CARTRIDGE FILTER CHAMBERS

C-208 A



FOR HIGH FLOW RATE APPLICATIONS WATER, CHEMICAL, PETROLEUM

- Flow rates to 13,000 GPM (49,200 LPM)
- Choice of construction
 - Carbon steel
 - Rubber lined carbon steel
 - Stainless steel
- ASME code design
- Pressure to 300 psi
- Flanged drain and vent ports
- · Davit cover lift standard
- · 2-part epoxy paint on carbon steel

SERFILCO Series 'YW' Filter Chambers are designed to meet the unique requirements of the municipal and desalination markets. They provide high flow rates to 13,000 GPM for pre-filtration ahead of reverse osmosis membranes and are designed for use with either double open end or single open end filter cartridges.

Chambers for use with salt water are typically manufactured of rubber lined steel with non-metallic internal components, however all carbon steel or stainless steel chambers are also available depending on the application. All chambers are designed and manufactured to meet specification requirements ncluding ASME code, with or without code stamp, and pressures from 75 psi to 300 psi as required.

CHAMBER CAPABILITIES

MODEL 1	CHAMBER DIAMETER (in)	FLANGE SIZE (in)	NUMBER OF COLUMNS	TOTAL NUMBER OF 10" CARTRIDGES ²	MAXIMUM FLOW (GPM)	PRICE CODE NO.
YWR 4450-10	32	10	89	445	2225	78-0600
YWR 5300-10	36	10	106	530	2650	78-0601
YWR 7900-12	42	12	158	790	3950	78-0602
YWR 10950-14	48	14	219	1095	5475	78-0603
YWR 13500-16	54	16	270	1350	6750	78-0604
YWR 16800-18	60	18	336	1680	8400	78-0605
YWR 20800-20	66	20	416	2080	10400	78-0606
YWR 26000-24	72	24	520	2600	13000	78-0607

¹ Rubber lined steel chamber

² Using 50" length, 2 1/2" diameter cartridges

SERIES 410-430 BAG FILTER CHAMBERS

C-309

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431



FOR FILTRATION & PURIFICATION OF PROCESS SOLUTIONS

FEATURES:

Non-metallic solution contact

PVC, CPVC, polypropylene or PVDF construction EPDM elastomers standard (Viton® optional)

- Sizes to 2.25 square feet (0.23 sq/m)
 For flow rates to 20 GPM (75 LPM)
- Top inlet bottom outlet design
- Easy to service

Clamp ring cover closure - No tools required

Port size

3/4" hose quick-connect coupling x 3/4" FNPT

Polypropylene filter bags

1, 5, 10, 25, 50 & 100 micron

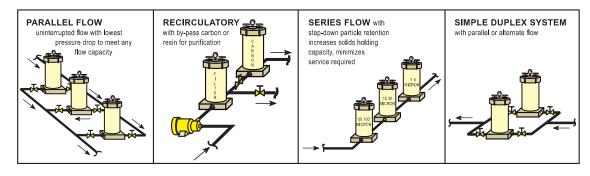
The Series 410 - 430 Bag Filter Chambers are designed for filtering various process solutions where clarification will extend operating life and improve quality. These chambers provide surface area of 0.75 to 2.25 sq. ft. and are designed for small tanks or small filtration applications.

The 410-430 Bag Filter Chambers feature non-metallic solution contact and are offered in a choice of materials of construction to meet a wide variety of applications. The design

is based on our proven 'L' chamber with molded base and cover and clamp closure. Depending on the application and the solution being filtered, these chambers are capable of handling 100 PSI pressure at ambient conditions and 200 F at lower pressures.

Because of their size, these chambers can provide a more economical solution for smaller filtration applications.







SERIES 410-430 - Specificatioons and Ordering Information

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	DESCRIPTION	MODEL NUMBER	PRICE CODE NUMBER
PCL	CPVC base and cover, translucent PVC shell sealed to base, EPDM 'O'-ring. Clamp ring cover closure.	CPCL10BFS-3/4 CPCL20BFS-3/4 CPCL30BFS-3/4	78-1280 78-1281 78-1282
CL	CPVC base and cover, CPVC shell sealed to base, EPDM 'O'-ring. Clamp ring cover closure.	CCL10BFS-3/4 CCL20BFS-3/4 CCL30BFS-3/4	78-1280C 78-1281C 78-1282C
PPL	Polypropylene base and cover, polypropylene shell sealed to base, EPDM 'O'-ring. Clamp ring cover closure.	CPPL10BFS-3/4 CPPL20BFS-3/4 CPPL30BFS-3/4	78-1280PP 78-1281PP 78-1282PP
KL	PVDF base and cover, PVDF shell sealed to base, EPDM 'O'-ring. Clamp ring cover closure.	CKL10BFS-3/4 CKL20BFS-3/4 CKL30BFS-3/4	78-1280K 78-1281K 78-1282K

For Viton elastomers change L to V in model Number and add –V to Price Code Number

SERIES		FACE	PORTS	MAXIMUM FLOW			HEI			PING	
NUMBER	AREA			RATE		Α		В		WEIGHT	
	ft.2	m ²	NPT	GPM	LPM	in	mm	in	mm	Ibs	kg
410	0.75	0.10	3/4"	20	75	0	0	0	0	5	2
420	1.5	0.15	3/4"	20	75	0	0	0	0	7	3
430	2.25	0.20	3/4"	20	75	0	0	0	0	9	4



POLYPROPYLENE FILTER BAGS (EPDM seal rings)						
NOMINAL MICRON RATING	FOR 410 CHAMBERS		FOR 420 CHAMBERS		FOR 430 CHAMBERS	
	PRICE CODE NO	MODEL NUMBER	PRICE CODE NO	MODEL NUMBER	PRICE CODE NO	MODEL NUMBER
1	88-1730-1	FB-PP01 x .75	88-1731-1	FB-PP01 x 1.50	88-1732-1	FB-PP01 x 2.25
5	88-1730-5	FB-PP05 x .75	88-1731-5	FB-PP05 x 1.50	88-1732-5	FB-PP05 x 2.25
10	88-1730-10	FB-PP10 x .75	88-1731-10	FB-PP10 x 1.50	88-1732-10	FB-PP10 x 2.25
25	88-1730-25	FB-PP25 x .75	88-1731-25	FB-PP25 x 1.50	88-1732-25	FB-PP25 x 2.25
50	88-1730-50	FB-PP50 x .75	88-1731-50	FB-PP50 x 1.50	88-1732-50	FB-PP50 x 2.25
100	88-1730-100	FB-PP100 x .75	88-1731-100	FB-PP100 x 1.50	88-1732-100	FB-PP100 x 2.25



SERIES 630 & 640 BAG FILTER CHAMBERS



FOR FILTRATION & PURIFICATION OF PROCESS SOLUTIONS:

WATER TREATMENT / FOOD PROCESSING
CLEANING / PHOTOGRAPHIC
ELECTROPLATING / PHARMACEUTICAL
CHEMICAL / PETROCHEMICAL / BEVERAGE

Non-metallic solution contact

PVC, CPVC, polypropylene or PVDF construction EPDM elastomers standard (Viton® optional)

- Sizes to 5.0 square feet (0.5 sq/m)
 For flow rates to 40 GPM (151 LPM)
- Bottom inlet bottom outlet design
 Allows chamber to be hard piped

Change bags without disconnecting piping

Easy to service

Swing bolt / tie rod cover closure with tee handles

- Port sizes 1" FNPT
- Polypropylene filter bags

1, 5, 10, 25, 50 & 100 micron

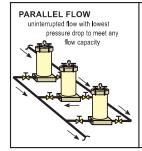
The Series 630 and 640 Bag Filter Chambers are designed for filtering various process solutions where clarification will extend operating life and improve quality.

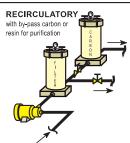
These chambers are redesigned to make them easy to operate and convenient to service. The design features a bottom inlet and bottom outlet which allows these chambers to be hard piped and allows the user

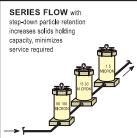
to change bags without disconnecting any hoses or piping.

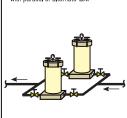
The Series 630 and 640 Bag Filter Chambers feature non-metallic solution contact and are offered in a choice of materials of construction to meet a wide variety of applications. The single bag design provides filter area to 5.0 sq. ft. and micron retention Ratings of 1 to 100.











SIMPLE DUPLEX SYSTEM



Series 630 & 640 bag filter chamber specifications and ordering information

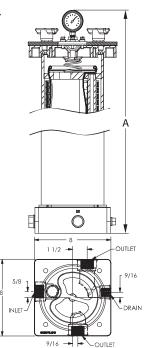
EPDM elastomers and pressure gauge with gauge guard are standard.

			TEE HAN	DLE
		DESCRIPTION	MODEL NUMBER	PRICE CODE NUMBER
F	L	PVC shell sealed to base, CPVC base and cover. SS swing bolts with tee handles. Polypropylene vent valve.	PL630BFS-1-G3 PL640BFS-1-G3	78-1773P 78-1774P
C	CL	CPVC shell sealed to base, CPVC base and cover. SS swing bolts with tee handles. Polypropylene vent valve.	CL630BFS-1-G3 CL640BFS-1-G3	78-1773C 78-1774C
Р	PL	Polypropylene shell sealed to base. Glass reinforced polypropylene base and cover. SS swing bolts with tee handles. Polypropylene vent valve.	PPL630BFS-1-G3 PPL640BFS-1-G3	78-1773PP 78-1774PP
k	(L	PVDF shell sealed to base. PVDF base and cover. SS swing bolts with tee handles. PVDF vent plug.	KL630BFS-1-G3 KL640BFS-1-G3	78-1773K 78-1774K

For Viton elastomers change L to V in model Number and add –V to Price Code Number

SERIES NUMBER	SURFACE AREA		PORTS		MAXIMUM FLOW RATE		HEIGHT		SHIPPING WEIGHT	
NOMBER	ft.2	m²	NPT	GPM	LPM	in	mm	lbs	kg	
630	3.5	.3	1"	40	151	39.5	1003	38	17	
640	5.0 .5		1"	40	151	49.5	1257	50	23	

POLYPROPYLENE FILTER BAGS (EPDM seal rings)									
NOMINAL	FOR 630	CHAMBERS	FOR 640 C	CHAMBERS					
MICRON PRICE CODE NO	MODEL	PRICE	MODEL						
	NUMBER	CODE NO	NUMBER						
1	88-0832G	FB-PP01 x 3.5	88-1476F	FB-PP01x5					
5	88-0832A	FB-PP05 x 3.5	88-1476A	FB-PP05x5					
10	88-0832B	FB-PP10 x 3.5	88-1476B	FB-PP10x5					
25	88-0832C	FB-PP25 x 3.5	88-1476C	FB-PP25x5					
50	88-0832E	FB-PP50 x 3.5	88-1476E	FB-PP50x5					
100	88-0832D	FB-PP100 x 3.5	88-1476D	FB-PP100x5					





C-308_A



SERIES 1235 & 1255 BAG FILTER CHAMBERS

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431



FOR FILTRATION & PURIFICATION OF PROCESS SOLUTIONS:

WATER TREATMENT / FOOD PROCESSING
CLEANING / PHOTOGRAPHIC
ELECTROPLATING / PHARMACEUTICAL
CHEMICAL / PETROCHEMICAL / BEVERAGE

FEATURES:

· Non-metallic solution contact

PVC, CPVC, or polypropylene construction EPDM elastomer standard, Viton® optional

• Sizes to 19.5 square feet (1.8 sq/m)
For flow rates to 100 GPM (378 LPM)

Bottom Inlet – bottom outlet design

Allows chamber to be hard piped
Change bags without disconnecting piping

- · Easy to service
- Swing bolt cover closure with tee handles
- Port size 1 ½" NPT
- Polypropylene filter bags

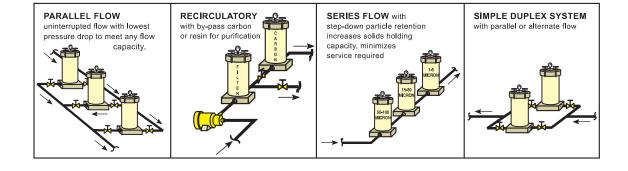
1, 5, 10, 25, 50 & 100 micron

The Series 1235 and 1255 Bag Filter Chambers are designed for filtering various process solutions where clarification will extend operating life and improve quality. These chambers have been redesigned to make them easier to operate and more convenient to service. The new design features a bottom inlet and bottom outlet, which allows these chambers to be hard, piped and allows the user to change bags without disconnecting any hoses or piping. Additionally the new design utilizes multiple 4" flanged bags

which provides greater surface area for the same size chamber.

As before the Series 1235 and 1255 Bag Filter Chambers feature non-metallic solution contact and are offered in a choice of materials of construction to meet a wide variety of applications. The new design provides filter area to 19.5 sq. ft. and micron retention ratings of 1 to 100.









SERIES 1235 & 1255 BAG FILTER CHAMBER Specification and Ordering Information

Chambers hold five individual 4" flanged bags. All chambers have cover swing bolts with tee handles, stainless steel swing bolt bracket; FRP top and bot-

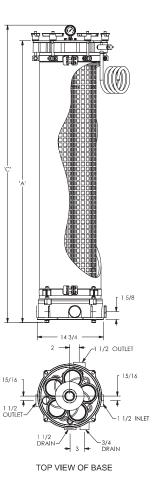
tom reinforcing plate, 0-60 PSI pressure gauge with gauge guard, EPDM gaskets and drain plugs. All fasteners are stainless steel.

	DESCRIPTION	MODEL NUMBER	PRICE CODE NUMBER
PL	PVC shell. CPVC base and cover	PL1235BFS – 1 ½ - G3A PL1255BFS – 1 ½ - G3A	78-1733 P 78-1735 P
CL	CPVC shell, base and cover.	CL1235BFS – 1 ½ - G3A CL1255BFS – 1 ½ - G3A	78-1733 C 78-1735 C
PPL	Polypropylene shell. Glass reinforced polypropylene base and cover.	PPL1235BFS – 1 ½ - G3A PPL1255BFS – 1 ½ - G3A	78-1733 PP 78-1735 PP

For Viton elastomers change L to V model Number and add –V to Price Code Number

SERIES NUMBER	FA	SUR- FACE PORTS AREA		MAXIMUM FLOW RATE		HEIGHT A			SHIP		
NOWIDER	ft.²	m²	NPT	GPM	LPM	in	mm	in	mm	lbs	kg
1230	12.0	1.1	1 1/2"	80	303	38.4	975	41.9	1064	100	45
1250	19.5	1.8	1 1/2"	100	454	58.4	1483	61.9	1572	115	52

	POLYPROPYLENE FILTER BAGS (4" Flanged)									
NOMINAL	FOR 1235	CHAMBERS	FOR 125	5 CHAMBERS						
MICRON	PRICE	MODEL	PRICE	MODEL						
RATING	CODE NO	NUMBER	CODE NO	NUMBER						
1	88-3613F	FB-PP01x2.4	88-3615F	FB-PP01x3.9						
5	88-3613A	FB-PP05x2.4	88-3615A	FB-PP05x3.9						
10	88-3613B	FB-PP10x2.4	88-3615B	FB-PP10x3.9						
25	88-3613C	FB-PP25x2.4	88-3615C	FB-PP25x3.9						
50	88-3613E	FB-PP50x2.4	88-3615E	FB-PP50x3.9						
100	88-3613D	FB-PP100x2.4	88-3615D	FB-PP100x3.9						



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(*) (*)

SERIES 'G' PLASTIC DISC FILTER CHAMBERS

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431



FOR: WATER TREATMENT / FOOD PROCESSING
CLEANING / PHOTOGRAPHIC
ELECTROPLATING / PHARMACEUTICAL
CHEMICAL / PETROCHEMICAL / BEVERAGE

- Non-metallic solution contact
 PVC, CPVC or polypropylene construction
 EPDM elastomers standard, Viton® optional
- Heavy duty construction
 Pressure and temperature capabilities to meet wide variety of applications
- High flow rates
 Up to 6000 GPH (22,700 l/h)
- High capacity —
 15, 30, 45 ft² (1.4, 2.8, 4.2 m²) solids area
- Ease of Service
 SS Swing bolt cover closure
 Stack assembly for quick media change
- Choice of filter media:

Cellulose discs for 5, 10, 20 & 40 micron filtration
Use alone or with filter aid and/or powdered carbon
Carbon discs for purification
Interchangeable with filter discs

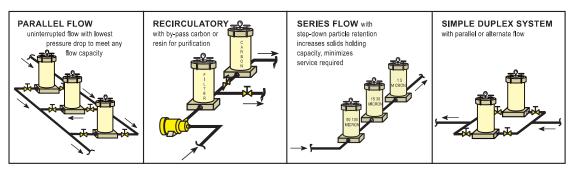
Interchangeable with filter discs

These disc filter chambers are designed for quality filtration of plating and other chemical solutions. The large surface area with I.D. and O.D. edge seals on all filter discs assures optimum performance and clarity of solution being filtered. Disc filters may be used with a precoat of filter aid alone or with a mixture of filter aid and powdered carbon. Carbon discs are also available and may be installed in total or in partial to accomplish the proper degree

of organic removal. Some applications may allow filtration without a media precoat. Chambers include a drip pan to catch run-off liquid when servicing discs.

Disc chambers are serviced by lifting the cover and disc stack assembly from the chamber, facilitating a cleaner change-out and less solution loss than with other designs. No messy "floating" of the disc is required when changing the disc media.



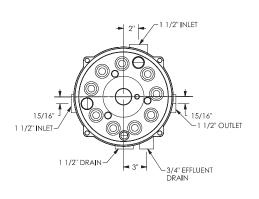


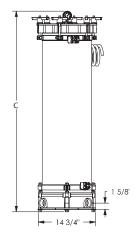


SERIES 'G' DISC FILTER CHAMBERS

SOLIDS AREA sq. ft.	NO. OF DISCS	DIM.
15	31	20-15/16
30	65	30-15/16
45	99	40-15/16

	IMUM SI	@ OPERATING TEMP.
PVC	CPVC	TEMP.
80	80	70°F
75	75	100°F
40	70	120°F
25	55	140°F
_	35	170°F
_	30	200°F





	TO ORDER, use Price Code Number										
	NO. OF	NO OF AR			MAXI	FLOW	PRICE	SHIP, WT,			
MATERIALS	DISCS	ft²	m²	MODEL NUMBER	GPH	LPH	CODE NUMBER	(lbs.)			
	31	15	1.4	PL15DFO-1½-G3A	3000	11,355	78-1721 P	77			
PVC/EPDM	65	30	2.8	PL30DFO-1½-G3A	4500	17,033	78-1722 P	92			
	99	45	4.1	PL45DFO-1½-G3A	6000	22,710	78-1723 P	107			
	31	15	1.4	CL15DFO-1½-G3A	3000	11,355	78-1721 C	77			
CPVC/EPDM	65	30	2.8	CL30DFO-1½-G3A	4500	17,033	78-1722 C	92			
	99	45	4.1	CL45DFO-1½-G3A	6000	22,710	78-1723 C	107			
Dolumenulono	31	15	1.4	PPL15DFO-1½-G3A	3000	11,355	78-1721 PP	77			
Polypropylene EPDM	65	30	2.8	PPL30DFO-1½-G3A	4500	17,033	78-1722 PP	92			
EPDINI	99	45	4.1	PPL45DFO-1½-G3A	6000	22,710	78-1723 PP	107			

For Viton $^{\rm @}$ elastomers change ${\bf L}$ to ${\bf V}$ in Model Number add ${\bf -V}$ to Price Code Number

FILTER DISCS F	FILTER DISCS FOR SERIES 'G' CHAMBERS (ordered separately) packaged in quantities of 100							
DISC MODEL NUMBER	MICRON RATING	PRICE CODE NUMBER						
CE 5 x 10	5	78-1612						
CE 10 x 10	10	78-1613						
CE 20 x 10	20	78-1614						
CE 40 x 10	40	78 - 1615						
C x 10 CARBON	10	78-1616						

SERIES 'M' STEEL AND STAINLESS STEEL CARTRIDGE FILTER CHAMBERS

183

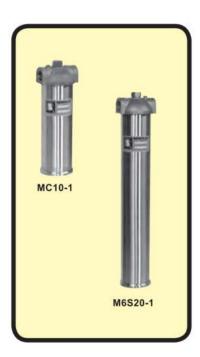
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FOR FILTRATION AND PURIFICATION OF:

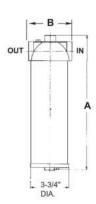
WATER / PHOTOGRAPHIC / SOLVENTS / CHEMICALS PHARMACEUTICAL / OILS / WASTE TREATMENT

SINGLE CARTRIDGE CHAMBERS



STEEL - Painted two-part epoxy gray on exterior.									
MODEL	MATERIAL	MAXIMUM PRESSURE	PORT SIZE	NO. FILTER CARTRIDGES	PRICE CODE NO				
MC10-1/2 MC10-3/4	Carbon steel and		½" NPT ¾" NPT	1	78-1500 78-1501				
MC10-1	cast iron, 304 stainless steel	250 PSI	1" NPT	1	78-1502				
MC20-3/4	centering spring	2301 01	3/4" NPT	2	78-1503				
MC20-1	Buna N shell		1" NPT	2	78-1504				
MC30-3/4	gasket 1		3/4" NPT	3	78-1505				
MC30-1	gasket		1" NPT	3	78-1506				

	STAINLESS STEEL									
M4S10-¾	304 stainless steel.		3/4" NPT	1	78-1507					
M4S10-1	304 Stalliess Steel,		1" NPT	1	78-1508					
M4S20-3/4	100 000	250 PSI	3/4" NPT	2	78-1509					
M4S20-1	Buna N	250 F 31	1" NPT	2	78-1510					
M4S30-3/4	shell gasket 1		3/4" NPT	3	78-1511					
M4S30-1	-1.A+1.94.16 NEPA-0 92-045		1" NPT	3	78-1512					
M6S10-3/4			3/4" NPT	1	78-1513					
M6S10-1	316 stainless steel,		1" NPT	1	78-1514					
M6S20-3/4		250 PSI	3/4" NPT	2	78-1515					
M6S20-1	Buna N	250 F31	1" NPT	2	78-1516					
M6S30-3/4	shell gasket 1		3/4" NPT	3	78-1517					
M6S30-1			1" NPT	3	78-1518					



¹ Fiber gasket at vent, drain and center nut.

	DIMENSI	DIMENSIONS (In.)				
MODEL NO.	Α	В	(lbs.)			
M*10-1/2	127/s	4	6			
M*10-3/4	127/a	4	6			
M*10-1	131/8	41/4	7			
M*20-3/4	23	4	8			
M*20-1	231/4	41/4	9			
M*30-3/4	33	4	11			
M*30-1	331/4	41/4	12			

^{*} C for carbon steel, 4S for 304SS or 6S for 316SS

Viton® elastomers: Add -V to Model and suffix V to Price Code No.





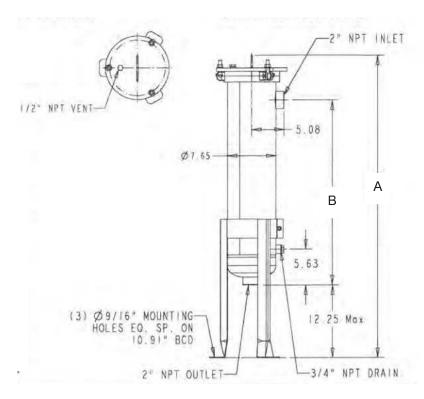
SERIES 'M' Filter Chambers (cont'd)

MULTIPLE CARTRIDGE CHAMBERS

STEEL - Painted two-part epoxy gray on exterior.					
MODEL	MATERIAL	MAXIMUM PRESSURE	PORT SIZE		
S50(1)-2	Carbon steel with			5	78-0882
S100(2)-2	mounting legs	100 PSI	2" MNPT	10	78-0883
S150(3)-2	Buna N gasket			15	78-0884

STAINLESS STEEL							
MODEL	MATERIAL	MAXIMUM PRESSURE	PORT SIZE	NO. FILTER CARTRIDGES	PRICE CODE NO.		
SS50(1)-2	304 stainless steel			5	78-0885		
SS100(2)-2	w/mounting legs	100 PSI	2" MNPT	10	78-0886		
SS150(3)-2	Buna N gasket			15	78-0887		

Viton® elastomers: Add -V to Model and suffix V to Price Code Number.

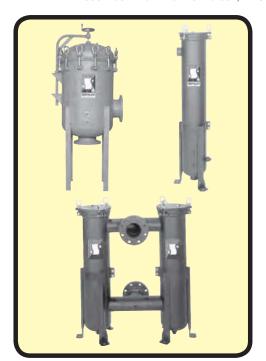


MODEL NO.	DIMENSI	SHIP WT.	
WODEL NO.	Α	В	(lbs.)
(S)S50(1)-2	38	19	57
(S)S100(2)-2	48	29	67
(S)S150(3)-2	58	39	77

SERIES 'K' METAL CARTRIDGE & BAG FILTER CHAMBERS

C-207_D

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431



PROCESS WATER / CLEANERS PARTS WASHERS / CHEMICALS

- Carbon steel, 304 or 316 stainless steel construction
- Large capacity

448 cartridge 26.4 sq.ft multi-bag

- 150 PSI OR 300 PSI pressure rating
- Swing bolt cover closure
- Consult Sales Department for options

The Series 'K' Metal Filter Chambers provide excellent value and are available in either a cartridge or bag design and with a choice of carbon steel, 304 or 316 stainless steel construction. Cartridge chambers range in size from a single 10" cartridge to 448-10" cartridge capacity. Bag chambers are from 0.5 sq. ft. to 26.4 sq. ft. of surface area.

These chambers are ideal for either recirculatory or single pass filtration in either series or parallel flow configurations. They are offered in a wide range of sizes, styles and options to meet most applications that require a metal filter chamber.

CARTRIDGE CHAMBERS



SINGLE, 3 & 6 - ROUND CARTRIDGE CHAMBERS

FEATURES:

- Carbon steel or stainless steel construction
- EPDM elastomers standard (Viton® optional)
- Swing bolt cover closure with eye nuts
- 300 PSI pressure rating (single) 150 PSI pressure rating (3-round and 6-round)
- 316 SS internals
- Differential, drain, and vent ports
- Adjustable support legs
- 2-part epoxy finish on carbon steel



_1/4" PLUG

Top

view

1.4" D.P. port

w/plug

1" drain

w/plug



SERIES 'K' METAL FILTER CHAMBERS

TO ORDER, use Price Code Number

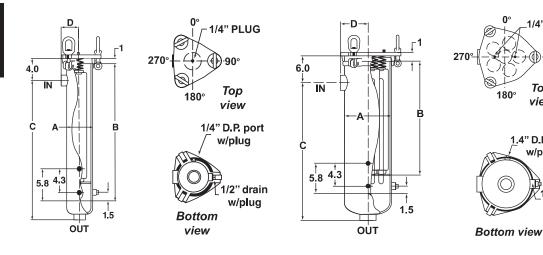
MODEL	NUMBER	CONN.	PRICE		DIMENS	ONS (in)		SHIP
NUMBER ^{1, 2}	OF 10" CARTS.	SIZE	CODE NO. ^{1, 2}	Α	В	С	D	WT. (lbs)
SINGLE CARTRIDGE	CHAMBERS							
KCS10S-1	1		78-1850	4.5	12.5	14.7	3.5	34
KCS20S-1	2	1" NPT	78-1851	4.5	22.5	24.7	3.5	42
KCS30S-1	3	INFI	78-1852	4.5	32.5	34.7	3.5	50
KCS40S-1	4		78-1853	4.5	42.5	44.7	3.5	58
3-ROUND CHAMBER	S							
KCS60(2)S-11/2	6	41/00	78-1854	6.6	24.5	23.8	4.1	85
KCS90(3)S-11/2	9	1 ¹ /2" NPT	78-1855	6.6	34.5	33.8	4.1	110
KCS120(4)S-11/2	12	14.	78-1856	6.6	44.5	43.8	4.1	135
6-ROUND CHAMBER	S							
KCS120(2)S-2	12		78-1857	8.6	24.5	23.8	5.4	120
KCS180(3)S-2	18	2" NPT	78-1858	8.6	34.5	33.8	5.4	145
KCS240(4)S-2	24		78-1859	8.6	44.5	43.8	5.4	170

¹ Model and Price Code Number shown for carbon steel construction.

- for 304 SS change **first S** in Model No. to **4SS** and add **S4** to Price Code No.
- for 316 SS change first S in Model No. to 6SS and add S6 to Price Code No.

SINGLE

3-ROUND and 6-ROUND





² For Viton elastomers, add **-V** to Model No. and **V** to Price Code No.



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MULTI-ROUND CARTRIDGE CHAMBERS



FEATURES:

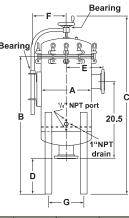
- Carbon steel or stainless steel construction
- EPDM elastomers standard (Viton optional)
- Bearing assisted davit assembly
- Swing bolt cover closure with eye nuts
- 150 PSI pressure rating
- 316 SS internals
- Differential, drain and vent ports
- Heavy duty support legs
- 2-part epoxy finish on carbon steel

Consult Sales Department for options

Filter cartridges ordered separately see Bulletin M-109

TO ORDER, use Price Code Number

MODEL	NO. OF	DIA.	CONN.	PRICE	DIM	ENSIONS	SHIP	
NUMBER ^{1,2}	10" CARTS.	A (in)	SIZE FLANGE	CODE NO ^{1, 2}	В	С	D	WT (lbs)
KCS330(3)S-3F	33	12	3"	78-1860	54.7	70.9	10.0	410
KCS440(4)S-3F	44	12	3"	78-1861	64.7	80.9	12.5	420
KCS600(3)S-4F	60	16	4'	78-1862	55.7	71.9	10.0	480
KCS800(4)S-4F	80	16	4"	78-1863	65.7	81.9	12.5	490
KCS1040(4)S-4F	104	18	4"	78-1864	66.2	81.4	12.5	545
KCS1500(3)S-6F	150	24	6"	78-1865	57.2	73.4	12.5	635
KCS2000(4)S-6F	200	24	6"	78-1866	67.2	83.4	16.5	645
KCS2340(3)S-6F	234	30	6"	78-1867	57.9	74.1	12.5	705
KCS3360(3)S-8F	336	36	8"	78-1868	60.5	76.4	16.5	1010
KCS4480(4)S-8F	448	36	8"	78-1869	70.5	86.4	20.7	1150





- ¹ Model and Price Code Number shown for carbon steel construction.
 - for 304 SS change **first S** in Model No. to **4SS** and add **S4** to Price Code No.
 - for 316 SS change **first S** in Model No. to **6SS** and add **S6** to Price Code No.
- ² For Viton elastomers add **-V** to Model No. and **V** to Price Code No.

DIA. A	Е	F	G	
12"	11.0	9.2	10.0	
16"	13.0	10.8	11.5	
18"	18" 14.0		12.0	
24"	17.0	14.8	16.5	
30"	20.0	17.8	20.8	
36"	25.0	20.8	24.7	



BAG CHAMBERS

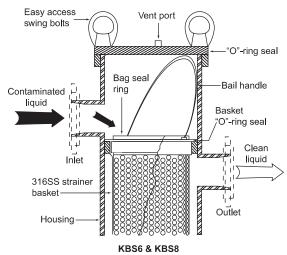
SINGLE BAG CHAMBERS



FEATURES:

- Carbon steel or stainless steel construction
- EPDM elastomers standard (Viton optional)
- Swing bolt cover closure with eye nuts
- 300 PSI pressure rating (4" dia.)
 150 PSI pressure rating (6" & 8" dia.)
- 316 SS strainer basket
- Differential, drain and vent ports
- Adjustable support legs
- 2-part epoxy paint on carbon steel

Consult Sales Department for options Filter bags ordered separately





2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431

SPECIFICATIONS

Housing lid has a 3-bolt swing closure with a vent port. Connections are as noted with standard side inlet and bottom outlet.

Housing is supplied with two differential pressure ports to measure the differential pressure across the filter bag. A two-part epoxy finish is applied on the carbon steel vessels to maximize the life of the housing; stainless steel vessels are supplied with a

satin finish. Basket material is constructed of 316 stainless steel with 9/64" perforations to act as a strainer or to accept a liquid filter bag. Basket for KBS6 and KBS8 chamber seats onto an "O"-ring in the basket support. Adjustable tripod leg assembly is supplied with housing.

KBS4 chamber is rated at 300 PSI. KBS6 and KBS8 chambers are rated at 150 PSI.

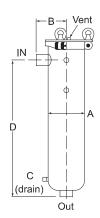
TO ORDER, use Price Code Number

MODEL NUMBER ^{1, 2}	SURFACE AREA (sq. ft.)	DIA. A (in)	BASKET SIZE (in)	CONN. SIZE	PRICE CODE NO. 1, 2
KBS406-1	0.5	4.5	3.9 x 6 (#3)	1" NPT	78-1800
KBS412-1	1.0	4.5	3.9 x 12 (#4)	1" NPT	78-1801
KBS618-11/2	2.0	6.6	5 x 18 (#8)	11/2" NPT	78-1802
KBS630-11/2	3.4	6.6	5 x 30 (#9)	11/2" NPT	78-1803
KBS815-2	2.3	8.6	6.7 x 15 (#1)	2" NPT	78-1804
KBS830-2	4.4	8.6	6.7 x 30 (#2)	2" NPT	78-1805

¹ Model and Price Code Number shown for carbon steel construction.

- for 304 SS change S in Model No. to 4SS and add S4 to Price Code No.
- for 316 SS change S in Model No. to 6SS and add S6 to Price Code No.

² For Viton elastomers, add **-V** to Model No. and **V** to Price Code No.



Threaded (NPT) Bottom outlet

MODEL	DI	DIMENSIONS (in)					
NUMBER	В	C D		WT. (lbs)			
KBS406-1	3.0	0.5	12.3	35			
KBS412-1	3.0	0.5	17.5	40			
KBS618-11/2	4.2	.75	25.3	90			
KBS630-11/2	4.2	.75	35.2	115			
KBS815-2	5.3	1.0	24.7	115			
KBS830-2	5.3	1.0	36.2	135			

Side outlet and flanged connections also available





MULTI-ROUND BAG CHAMBERS

FEATURES:



- Carbon steel or stainless steel construction
- EPDM elastomers standard (Viton optional)
- Uses multiple #2 size bags
- Bearing assisted davit assembly
- Swing bolt cover closure with eye nuts
- 150 PSI pressure rating
- 316 SS strainer basket
- Differential, drain and vent ports
- Heavy duty support legs
- 2-part epoxy finish on carbon steel

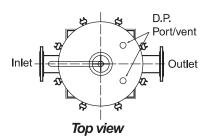
Consult Sales Department for options
Filter bags ordered separately

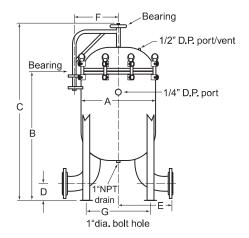
TO ORDER, use Price Code Number

MODEL	SURF.	NUMBER	DIA.	CONN.			DIMENSIONS (in)					SHIP
NUMBER ^{1, 2}	AREA ³ (sq.ft)	OF BASKETS	(in)	SIZE FLANGE	CODE NO. ^{1, 2}	В	С	D	E	F	G	WT. (lbs)
KBS1830-3F	8.8	2	18	3"	78-1810	43.0	59.0	5.8	11.0	11.9	12.0	435
KBS2230-4F	13.2	3	24	4"	78-1811	52.0	70.0	6.5	14.5	15.0	16.5	555
KBS2430-4F	17.6	4	24	4"	78-1812	52.5	70.0	6.5	14.5	15.0	16.5	590
KBS3030-6F	26.4	6	30	6"	78-1813	50.5	71.0	8.0	19.1	18.0	20.8	850



- for 304 SS change \boldsymbol{S} in Model No. to $\boldsymbol{4SS}$
- and add **S4** to Price Code No.
- for 316 SS change **S** in Model No. to **6SS** and add **S6** to Price Code No.
- ² For Viton elastomers, add **-V** to Model No. and **V** to Price Code No.
- 3 Basket size 6.7" x 30" (#2)





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TWIN CAPACITY BAG CHAMBER



FEATURES:

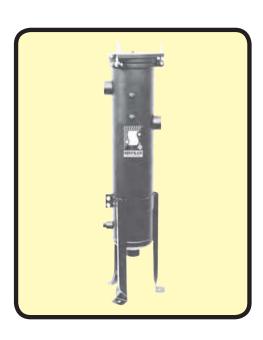
- 2 Model KBS830 housings with common connections
- Increased flow rates
- Lower differential pressure
- Carbon steel or stainless steel construction

MODEL NUMBER ^{1, 2}	SURF. AREA³ (sq.ft)	CONN. SIZE	PRICE CODE NO. ^{1,2}
KBS882-3F	8.8	3" FNPT	78-1806

¹ Model and Price Code Number shown for carbon steel construction.

- for 304 SS change **S** in Model No. to **4SS** and add **S4** to Price Code No.
- for 316 SS change **S** in Model No. to **6SS** and add **S6** to Price Code No.

OEM 100 PSI BAG CHAMBER



Our OEM, 100 PSI liquid bag housing offers a superb quality vessel for lower pressure applications. The vessel has a dome base and includes all of the favorable features of our standard 150 PSI vessel.

FEATURES:

- Carbon steel or 304 stainless steel construction
- 100 PSI pressure rating
- Low pressure drop with #12 size bag
- Strainer basket
- Side and bottom outlets

MODEL NUMBER ^{1, 2}	SURF. AREA³ (sq.ft)	CONN. SIZE	PRICE CODE NO. ^{1, 2}
KBS100-2	5.5	2" NPT	78-1807

Model and Price Code Number shown for carbon steel construction.
- for 304 SS change S in Model No. to 4SS



² For Viton elastomers, add **-V** to Model No. and **V** to Price Code No.

³ Basket size 6.7" x 30" (#2)

and add $\bf S4$ to Price Code No. 2 For Viton elastomers, add -V to Model No. and V to Price Code No. ³ Basket size 8" x 30" (#12)



INITIAL and REPLACEMENT FILTER BAGS



- Polypropylene felt bags
- Heavy duty handle
- Carbon steel ring
- Other bags available (consult sales dept.)

# 3 SIZE BAG 0.5 sq.ft					
MICRON RATING	MODEL	PRICE CODE NUMBER			
5	FB-K05K3S	88-1565 A			
10	FB-K010K3S	88-1565 B			
25	FB-K025K3S	88-1565 C			
50	FB-K050K3S	88-1565 D			
100	FB-K0100K3S	88-1565 E			

# 4 SIZE BAG 1.0 sq.ft						
MICRON RATING	MODEL	PRICE CODE NUMBER				
5	FB-K05K4S	88-1566 A				
10	FB-K010K4S	88-1566 B				
25	FB-K025K4S	88-1566 C				
50	FB-K050K4S	88-1566 D				
100	FB-K0100K4S	88-1566 E				

# 8 SIZE BAG 2.0 sq.ft					
MICRON RATING	MODEL	PRICE CODE NUMBER			
5	FB-K05K8S	88-1567 A			
10	FB-K010K8S	88-1567 B			
25	FB-K025K8S	88-1567 C			
50	FB-K050K8S	88-1567 D			
100	FB-K0100K8S	88-1567 E			

# 1 SIZE BAG 2.3 sq.ft						
MODEL	PRICE CODE NUMBER					
FB-K05K1S	88-1568 A					
FB-K010K1S	88-1568 B					
FB-K025K1S	88-1568 C					
FB-K050K1S	88-1568 D					
FB-K0100K1S	88-1568 E					
	MODEL FB-K05K1S FB-K010K1S FB-K025K1S FB-K050K1S					

# 9 SIZE BAG 3.4 sq.ft						
MICRON RATING	MODEL	PRICE CODE NUMBER				
5	FB-K05K9S	88-1569 A				
10	FB-K010K9S	88-1569 B				
25	FB-K025K9S	88-1569 C				
50	FB-K050K9S	88-1569 D				
100	FB-K0100K9S	88-1569 E				

# 2 SIZE BAG 4.4 sq.ft							
MICRON MODEL PRICE CODE NUMBER							
5	FB-K05K2S	88-1570 A					
10	FB-K010K2S	88-1570 B					
25	FB-K025K2S	88-1570 C					
50	FB-K050K2S	88-1570 D					
100	FB-K0100K2S	88-1570 E					

	# 12 SIZE BAG 5.5 sq.ft						
MICRON RATING	MODEL	PRICE CODE NUMBER					
5	FB-K05K12S	88-1571 A					
10	FB-K010K12S	88-1571 B					
25	FB-K025K12S	88-1571 C					
50	FB-K050K12S	88-1571 D					
100	FB-K0100K12S	88-1571 E					



FILTRATION AND PURIFICATION GUIDE FOR METAL FINISHING SOLUTIONS

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TF-139 G

	TEME	TEMPEDATURE	TURNOVERS SURFACE MEDIA	MEDIA	MICDON		MATERIALS		
PROCESS	рН	TEMPERATURE °F	TURNOVERS /HOUR	AREA ft. ² /per 100 GAL.	FIBER / CORE	MICRON DENSITY	CARBON TREATMENT	PREFERRED	ALTERNATE
Anodizing, Decorative	<1.0	60 - 80	2-4X	7.0 - 10.5	Polypro / Polypro	10 - 20	N/A	CPVC / Viton	PVDF / Viton
Anodizing, Hard	<1.0	30 - 35	2-4X	7.0 - 10.5	Polypro / Polypro	10 - 20	N/A	CPVC / Viton	PVDF / Viton
Nickel Acetate Seal	5.5	190 - 200	2 - 3X	7.0 - 10.5	Polypro / SS	10 - 20	N/A	PVDF / Viton	316SS / Viton
Brass, Bronze (CN)	>10.0	100 - 140	2-4X	7.0 - 10.5	Polypro / SS	10 - 20	N/A	PP / EPDM	PVC / EPDM
Cadmium (CN)	>10.0	80 - 100	2-4X	7.0 - 10.5	Polypro / Polypro	10 - 20	N/A	CPVC / EPDM	PP / EPDM
Cadmium, Sulfate	1.0	70 - 90	2-4X	7.0 - 10.5	Polypro / Polypro	10 - 20	N/A	CPVC / EPDM	PP/EPDM
Cadmium, Chloride	7.5	70 - 90	2-4X	7.0 - 10.5	Polypro / Polypro	10 - 20	N/A	CPVC / EPDM	PP / EPDM
Cleaner, Soak	>10.0	90 - 200	2-4X	10.5 - 17.5	Polypro / Polypro	15 - 50	N/A	316SS / EPDM	PP / EPDM
Cleaner, Electro	> 8.0	50 - 90	2 - 4X	10.5 - 17.5	Polypro / Polypro	15 - 75	N/A	PP/EPDM	PVC/EPDM
Chromium (Hex.)	<1.0	100 - 140	2-3X	7.0 - 10.5	HI-PERF	10-20	N/A	CPVC / Viton	PVDF/HYPALON
Chromium (Tri.)	2.5	70 - 80	2-4X	10.5 - 14.0	Polypro / Polypro	5 - 15	Periodic	CPVC / EPDM	PVC / EPDM
Copper (CN)	12.0	70 - 140	2-4X	7.0 - 10.5	Polypro / SS	10 - 20	Periodic	PP / EPDM	CPVC / EPDM
Copper, Sulfate	<1.0	70 - 80	2-6X	10.5 - 14.0	Polypro / Polypro	5 - 15	Periodic	CPVC / EPDM	PP / EPDM
Copper, Fluoroborate	<1.0	70 - 90	2-4X	7.0 - 10.5	Polypro / Polypro	5 - 15	Periodic	CPVC / EPDM	PP / EPDM
Copper, Pyrophosphate	8.0	110 - 140	2 - 5X	7.0 - 10.5	Polypro / Polypro	5 - 15	Periodic	PP / EPDM	CPVC / EPDM
Copper, Electroless	13.0	80 - 120	4 - 10X	7.0 - 10.5	Polypro / Polypro	1-10	N/A	CPVC / EPDM	PP / EPDM
Gold, Acid	3.5 - 5.0	80 - 120	3-6X	7.0 - 10.5	Polypro / Polypro	1 - 10	Periodic	PP / EPDM	CPVC / EPDM
Gold, Neutral	6.0 - 7.0	80 - 120	3-6X	7.0 - 10.5	Polypro / Polypro	1 - 10	Periodic	PP/EPDM	CPVC / EPDM
Gold, Alkaline (CN)	8.0 - 12.0	100 - 140	3 - 5X	7.0 - 10.5	Polypro / Polypro	5 - 15	Periodic	PP/EPDM	CPVC / EPDM
Iron, Chloride	3.0	120 - 140	2-3X	7.0 - 10.5	Polypro / Polypro	10 - 20	Periodic	CPVC / EPDM	PP / EPDM
Lead, Fluoborate	1.0	90 - 100	2 - 3X	7.0 - 10.5	Polypro / Polypro	10 - 20	N/A	CPVC / EPDM	PVDF / Viton
Nickel, Watts	4.0 - 5.0	120 - 160	2 - 5X	7.0 - 10.5	Polypro / Polypro	5 - 15	Periodic	CPVC / EPDM	PP/EPDM
Nickel, Woods	2.0	120 - 140	2-3X	7.0 - 10.5	Polypro / Polypro	10 - 20	Periodic	CPVC / EPDM	PVC / EPDM
Nickel, Sulfamate	4.0	100 - 130	2 - 5X	7.0 - 10.5	Polypro / Polypro	5 - 15	Periodic	CPVC / EPDM	PP / EPDM
Nickel, Electroless	4.0 - 6.0	180 - 200	6 - 12X	7.0 - 10.5	Polypro / Polypro	1 - 10	N/A	CPVC / Viton	PVDF / Viton
Nickel, Electroless	>10.0	120 - 190	6 - 12X	7.0 - 10.5	Polypro / Polypro	1 - 10	N/A	CPVC / Viton	-
Palladium, Amine	8.0 - 9.0	80 - 120	3 - 5X	7.0 - 10.5	Polypro / Polypro	1 - 10	N/A	PP / EPDM	-
Palladium - Nickel	8.0 - 9.0	80 - 120	3 - 5X	7.0 - 10.5	Polypro / Polypro	1 - 10	N/A	PP/EPDM	_
Rhodium	1.0	100 - 120	3 - 5X	7.0 - 10.5	Polypro / Polypro	1 - 10	Periodic	CPVC / EPDM	PP / EPDM
Silver (CN)	12.0	70 - 85	3 - 5X	7.0 - 10.5	Polypro / Polypro	5 - 15	Periodic	PP/EPDM	CPVC / EPDM
Tin, Sulfuric	<1.0	70 - 85	2 - 3X	7.0 - 10.5	Polypro / Polypro	10 - 20	Periodic	CPVC / Viton	PVC / Viton
Tin, MSA	2.0	70 - 120	2 - 3X	7.0 - 10.5	Polypro / Polypro	10 - 20	Periodic	CPVC / Viton	PP / Viton
Tin, Alkaline	12.0	140 - 160	2 - 3X	10.5 - 14.0	Polypro / Polypro	20 - 30	N/A	PP / EPDM	_
Tin - Nickel	2.5	140 - 160	2 - 3X	7.0 - 10.5	Polypro / Polypro	10 - 20	Periodic	CPVC / Viton	PP / EPDM
Tin - Lead, MSA	2.0	70 - 100	2 - 3X	7.0 - 10.5	Polypro / Polypro	10 - 20	Periodic	CPVC / Viton	PP / EPDM
Tin - Lead, Fluoborate	1.0	70 - 100	2-3X	7.0 - 10.5	Polypro / Polypro	10-20	Periodic	CPVC / EPDM	PVC/EPDM
Zinc, Chloride	5.0 - 6.0	70 - 120	3 - 5X	14.0 - 17.5	Polypro / Polypro	20 - 30	Periodic	CPVC / EPDM	PVC / EPDM
Zinc - Cobalt	5.0 - 6.0	70 - 100	3 - 5X	14.0 - 17.5	Polypro / Polypro	20 - 30	Periodic	CPVC / EPDM	PVC/EPDM
Zinc, Alkaline	>13.0	70 - 100	2-4X	10.5 - 14.0	Polypro / Polypro	20 - 30	N/A	PP/EPDM	316SS / EPDM
Zinc (CN)	>13.0	70 - 100	2 - 4X	10.5 - 14.0	Polypro / SS	20 - 30	N/A	PP/EPDM	316SS / EPDM

NOTES:

- Use information as a guide only. Contact SERFILCO Sales Department for specific recommendations.
- 2. Maximum temperature for materials:
 - PLASTICS: PVC 130°F; PP 150°F; CPVC 180°F; PVDF 200°F ELASTOMERS: EPDM - 180°F; Viton® - 200°F; Hypalon® - 200°F
- 3. Surface area is measured in sq. ft. and based on depth wound cartridges (each $2\frac{1}{2}$ " diameter x 10" long unit = 3.5 sq. ft. in equivalent dirt loading).
- 4. Increasing the surface area improves efficiency and prolongs the time interval between media change.
- 5. Increased turnover allows the use of coarser media to increase solids holding capacity.
- ${\bf 6.} \quad \text{For best results, } \textbf{continuous} \text{ filtration should be used in every application.}$
- 7. Periodic carbon treatment is most efficient when using optional carbon filtration chamber.
- 8. Above 180°F consider using steel or stainless steel.

PP or Polypro = Polypropylene SS = Stainless Steel N / A = Not applicable

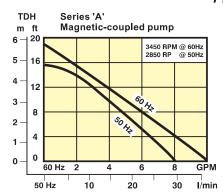


LABMASTER[©] **FILTRATION SYSTEMS**

KEEP PROCESS FLUIDS CLEAN For Tanks to 100 Gallons



COMPACT, ECONOMICAL & DEPENDABLE **FILTRATION**



Non-metallic solution contact

Select materials of construction for compatibility with solutions, opera ing temperature and pressure.

PCL - Clear PVC (Polyvinyl Chloride) with PP (Polypropylene) pump

PPL - Polypropylene

CL - CPVC - Chlorinated Polyvinyl ChlorideKL - PVDF - Polyvinylidene Fluoride

Flow rate 345 GPH @ 60 Hz

MADE IN USA



LABMASTER FILTRATION SYSTEMS Specifications

LABMASTER Filtration Systems are compact, corrosion resistant and extremely simple to operate. Choice of construction materials allows use with most liquids, including harsh chemicals at elevated temperatures.

Seal-less Magnetic-Coupled Pump

Systems utilize Series 'A' magnetic-coupled pumps and are available in a variety of engineered plastics to suit chemistry and temperature, including PP, CPVC and PVDF.

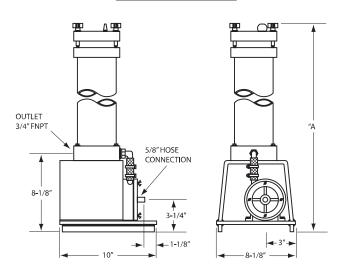
Filter Chamber

Choice of 10", 20" or 30" size chamber. Constructed of clear PVC, PP, CPVC or PVDF. Standard elastomers are EPDM (FKM with PVDF). Chambers accept depth wound, pleated, and carbon cartridges.

TO ORDER

LABMASTER SYSTEM NO.					MEDIA	SOLIDS AREA	"A" DIM.	SHIPPING WEIGHT
PCL	PPL	CL	KL	RATE U.S. GPH	WEDIA	Sq. Ft.	Inches	Lbs.
PCL1A6	PPL1A6	CL1A6	KL1A6	345	1 - 10"	3.5	21¾	23
PCL2A6	PPL2A6	CL2A6	KL2A6	345	2 - 10"	7.0	31¾	30
PCL3A6	PPL3A6	CL3A6	KL3A6	345	3 - 10"	10.5	41¾	37

DIMENSIONS



OPTIONAL

DESCRIPTION	ADD TO SYSTEM NO.
Viton elastomers on filter chamber and pump	V
Optional motor 230V/1/50-60	change 6 to 5 in system number

DESCRIP	DESCRIPTION						
Hose Kit (Includes priming kit)	PVC & CPVC PP	99-1600 99-1601					
Priming kit		99-0160					
Eliter Media and an	Filtra Madia and a constalla Defeata Dellatia M 400						

Filter Media - order separately. Refer to Bulletin M-109 (cartridge) or M-305 (carbon).

5



LABMASTER® 'LX' FILTRATION SYSTEMS

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431

COMPACT, ECONOMICAL FILTRATION AND PURIFICATION

Flow rates to 600 GPH @ 60 Hz



The SERFILCO Labmaster 'LX' Series is engineered to provide reliable, high performance filtration in a small package.

These compact pump and filter systems are popular for use on small tank production in the electronics industry and in precious metal plating, as well as for laboratory and pilot plant runs.

Featuring SERFILCO's non-metallic, leak-proof Series 'X' magnetic coupled pumps and industry proven Series 'L' filter chambers, these systems provide high flow and high turnover rates, assuring continuous particle removal. Labmaster 'LX' systems are available with or without a carbon or resin purification chamber.

Seal-less magnetic drive pumps

Labmaster 'LX' filtration systems feature highly efficient seal-less magnetic coupled pumps for total solution containment and reliable performance to 1.3 S.G. The pumps are available in polypropylene or PVDF.

Filter chamber

Constructed of clear PVC, CPVC, polypropylene or PVDF to ensure chemical and temperature compatibility in a wide range of applications.

The standard chamber accepts double open end (DOE) depth wound, pleated, melt blown, and carbon cartridges. A 222 "O"-ring seat for single open end (SOE) cartridges is available.

• Simple carbon or resin treatment

The systems are also available with optional purification chambers in polypropylene, PVC or CPVC with reusable ABS canister offering a low-cost, but effective method of continuously or periodically removing organic impurities from plating baths and other chemical solutions.



LABMASTER 'LX' Filtration Systems Specifications and Performance

SPECIFICATIONS

Standard Labmaster 'LX' systems include:

- System flow rates to 600 GPH
- Series 'X' magnetic coupled pump good to 1.3 S.G.
- Series 'L' filter chamber for 10", 20" or 30" cartridges •
- Corrosion resistant PVC hooded mounting base
- EPDM elastomers standard
- Stainless steel external fasteners
- Polypropylene vent valve or PVDF vent plug
- Order hose kit separately

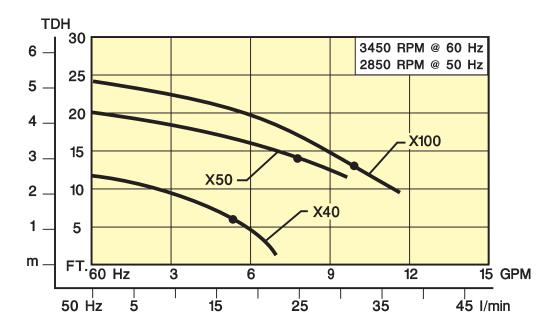


CAUTION: Do not use vinyl hose when system is to be used at 150°F (66°C) or higher.

- PCL Polypropylene pump, clear PVC chamber* Systems for mild acid (non-fluoride) and alkalies including electroless copper and gold.
- PPL Polypropylene pump and filter chamber* Systems for nickel sulfamate, acid copper, copper cyanide, and zinc chloride.
- CL Polypropylene pump and CPVC filter chamber* Systems for nickel sulfamate, acid copper, copper cyanide, zinc chloride and most fluoborate baths
- KL PVDF pump and filter chamber* Systems for electroless nickel and nickel acetate seal.

^{*} Consult a chemical resistance guide to confirm material /solution compatibility.







LABMASTER 'LX' FILTRATION SYSTEMS Ordering Information

TO ORDER, use System Number

	SYSTE	EM NO.	MEDIA 2		PUMP			SHIPPING	
PCL	PPL	CL	KL ¹	No - length.	MODEL	HP ³	FLOW 4	CONNS.1	WEIGHT (lbs.)
PCL1X40	PPL1X40	CL1X40	KL1X40	1 - 10"				5/8"	25
PCL2X40	PPL2X40	CL2X40	KL2X40	1 - 20"	X40	1/40	330	hose barb	30
PCL3X40	PPL3X40	CL3X40	KL3X40	1 - 30"				Daib	35
PCL1X50	PPL1X50	CL1X50	KL1X50	1 - 10"				3/4"	25
PCL2X50	PPL2X50	CL2X50	KL2X50	1 - 20"	X50	1/15	465	hose	30
PCL3X50	PPL3X50	CL3X50	KL3X50	1 - 30"				barb	35
PCL1X100	PPL1X100	CL1X100	KL1X100	1 - 10"				3/4"	25
PCL2X100	PPL2X100	CL2X100	KL2X100	1 - 20"	X100	1/10	600	hose barb	30
PCL3X100	PPL3X100	CL3X100	KL3X100	1 - 30"				Daib	35

 $^{^{\}rm 1}\,$ PVDF systems have NPT connections. $^{\rm 2}\,$ Order filter media separately

ACCESSORIES

DESCRIPTION	ADD TO SYSTEM NO.
Viton elastomers on filter chamber and pump	V
Optional motor 230V/1/50-60	-5

DESCRIP	PRICE CODE NO.					
DECOIM!		X40	X50 & X100			
Hose Kit	PVC & CPVC	99-1600	99-1602			
(Includes priming kit)		99-1601	99-1603			
Filter Media - order separately. Refer to Bulletin M-109 (cartridge) or M-305 (carbon)						

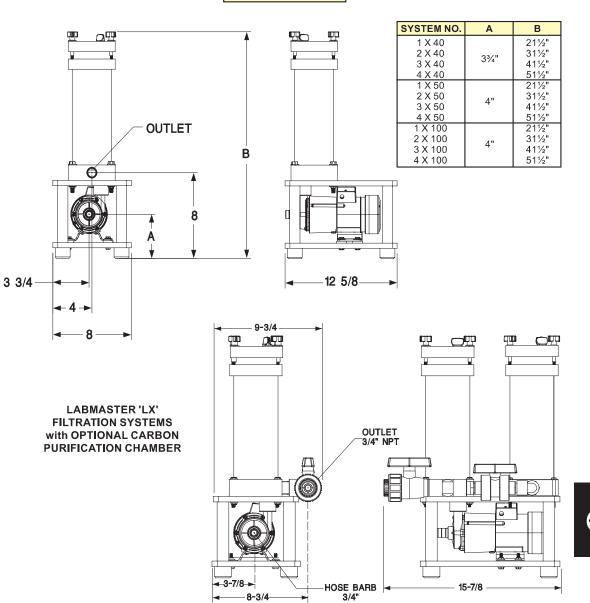
CARBON PURIFICATION CHAMBER	PRICE C	ODE NO.
with flow control valve, hose & drain	CPVC	PVC
Includes ABS mini-canister / CPVC or clear PVC chamber for 0.9 lbs. granular carbon 10" canister 2.1 lbs. granular carbon 20" canister 3.2 lbs. granular carbon 30" canister	O-C1CM O-C2CM O-C3CM	O-P1CM O-P2CM O-P3CM
Includes CPVC or clear PVC chamber for 1.2 lbs. granular carbon 2.5 lbs. granular carbon 3.8 lbs. granular carbon	O-C1C O-C2C O-C3C	O-P1C O-P2C O-P3C
Includes CPVC or clear PVC chamber for 0.6 lbs. 10" carbon cartridge 1.2 lbs. 20" carbon cartridge 1.8 lbs. 30" carbon cartridge	O-C1CC O-C2CC O-C3CC	O-P1CC O-P2CC O-P3CC

 $^{^{\}rm 3}\,$ Standard motors are 100-110V/1/50-60 with 6 ft. cord and 60 Hz plug. Optional 230V/1/50-60 motor available. $^4\,$ U.S. GPH @ 60 Hz, see flow curve.



LABMASTER 'LX' Filtration Systems Dimensions

DIMENSIONS





SPACE-SAVER® FILTRATION SYSTEMS

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431





COMPACT, ECONOMICAL FILTRATION AND PURIFICATION

- Flow rates to 2400 GPH @ 60 Hz (7400 LPH @ 50 Hz)
- Non-metallic solution contact
 Select materials of construction for compatibility with solutions, operating temperature and pressure.

SPACE-SAVER Systems are compact, corrosion resistant and extremely simple to operate. Choice of construction materials allows use with most liquids, including harsh chemicals at elevated temperatures. Standard elastomers are EPDM with CPVC or polypropolyene systems, and Viton with PVDF systems.

Choice of pump

Seal-less magnetic drive pump:

Series 'B' seal-less magnetic coupled pumps provide total solution containment and reliable performance. The pumps are CPVC, polypropylene, or PVDF.

Mechanical Seal Pumps:

Series 'HC' or 'HK' direct drive pumps are available with either single or double mechanical seals. The pumps are CPVC or PVDF.

Filter Chamber

Series 'S', three cartridge chamber, is available in CPVC, polypropylene, or PVDF.

Simple carbon or resin treatment

Space-saver systems are also available with optional carbon purification chambers for carbon cartridges ore fillable canisters.

F-204_E

STANDARD CARTRIDGE / SLEEVE FILTRATION SYSTEMS

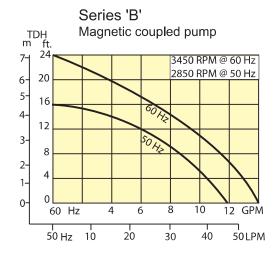
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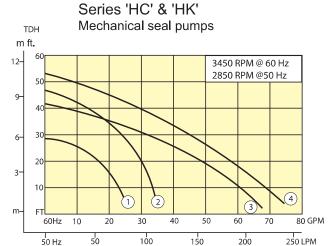
Standard SPACE-SAVER systems include:

- Non-metallic solution contact
- Corrosion resistant mounting base.
- Stainless steel or corrosion resistant external
- hardware and fasteners.
- Vent valve assembly

- Pressure gauge guard assembly included with all cartridge / sleeve systems.
- Systems 1 HP and up 230-460V/3/50-60 Hz, others 115-230V/1/50-60 Hz.
- Optional hose kits available (See Bulletin A-215)

FLOW CURVES

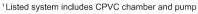




TO ORDER, use System Number

Systems with magnetic drive pump and CPVC, polypropylene or PVDF filter chamber

Sustam	Flow Rate		Bumn	Pump	Pump	Cartridge	Filtor	Filter		Suct./Disch	Shipping
System Number	GPH @60Hz	LPH @50 Hz	Pump Series	HP	Max. PSI	Change PSI	Series	Media	Area (sq. ft)	FNPT Conntections (inches)	Weight (lbs)
CS6B6	600	2000	В	1/6	10	8	S	3-20"	21	3/4 H X 1	73
CS9B6	600	2000	В	1/6	10	8	S	3-30"	31.5	3⁄4 H X 1	75
CS12B6	600	2000	В	1/6	10	8	S	3-40"	42	¾ H X 1	78



To order system with polypropylene chamber and pump, change the C to PP in system No.

To order system with PVDF chamber and pump, change the C to K in system No.





STANDARD CARTRIDGE / SLEEVE FILTRATION SYSTEMS

TO ORDER, use System Number

Systems with CPVC or PVDF direct drive pump and CPVC or PVDF filter chamber

Suntain	Flow	/ Rate	Pump	Duman	Pump	Pump Cartridge			Solids	Suct./Disch	Shipping
System Number ₁	GPH @60Hz	LPH @50 Hz	Se- ries	Pump HP ₂	Max. PSI	Change PSI	Filter Series Media		Area (sq. ft)	FNPT Conntections (inches)	Weight (lbs)
CS6HC103	1200	3700	HC	1/3	12	10	S	3-20"	21	1 X 1	56
CS9HC103	1200	3700	HC	1/3	12	10	S	3-30"	31.5	1 X 1	66
CS12HC103	1200	3700	нс	1/3	12	10	S	3-40"	42	1 X 1	76
CS9HC208	1800	5600	нс	3/4	20	16	S	3-30"	31.5	1 X 1	120
CS12HC208	1800	5600	HC	3/4	20	16	S	3-40"	42	1 X 1	140
CSH9HK310	2400	7400	HK	1.0	18	14	S	3-30"	31.5	1 ½ X 1 1/4	125
CSH12HK310	2400	7400	HK	1.0	18	14	S	3-40"	42	1 ½ X 1 1/4	135
CSH9HK415	3000	9500	HK	1.5	23	18	S	3-30"	31.5	1 ½ X 1 1/4	130

OPTIONAL

VITON ELASTOMERS	ADD TO SYSTEM NO.
Filter chamber and pump	V

DESCRIPTION	PRICE CODE NO.					
MOTOR STARTERS - NEMA 4X Watertight push button						
115 - 230V/1/50-60 230 - 460V/3/50-60	O-MS1P O-MS3P					
Add -S to Motor Starter PCN when orde use with DRI-STOP® Pump Protector. e Important: Specify oper	xample: O-MS1P-S					
DRI-STOP® PUMP PR	OTECTOR					
DRI-STOP 2R ³ DRI-STOP 3 ⁴	O-2DS2R O-DS3C					
³ DRI-STOP 2R for use with double mechanic ⁴ DRI-STOP 3 for use with magnetic drive or s						
OPERATING VOL	TAGE					
1 horsepower & above - Single phase Under 1 horsepower - Three phase	O-1PH O-3PH					

DESCRIPTION		PRICE CODE NO.		
CARBON PURIFICATION CHAMBER with flow control valve, hose & drain Order carbon media from Bulletin M-305	CPVC	PP		
Includes ABS mini-canister / CPVC chamber for 2.1 lbs granular carbon 20" canister 3.2 lbs. granular carbon 30" canister	O-C2CM O-C3CM	-		
Includes PVC canister / CPVC chamber for 7.5 lbs. granular carbon 5" x 28" canister (PVC canister / PVC chamber - O-1528)	O-1528C	-		
Includes CPVC or polypropylene chamber for 1.2 lbs 20" carbon cartridge 1.8 lbs 30" carbon cartridge 3.0 lbs 5" x 28" Maxi-carb cartridge	O-C2CC O-C3CC O-1528M	O-P2CC O-P3CC O-PP1528M		
50 Hz OPERATION				
Single Phase @ 50 Hz Three phase @ 50 Hz		50H 50H		

Important:

Filter media is ordered seperately. Refer to Bulletin M-109 (cartridges & sleeves) or M-305 (carbon)

CAUTION: Do not use vinyl hose when system is to be used at 150°F (66°C) System suction and discharge should be hard piped. Refer to Bulletin A-213 for installation fittings

¹Listed system includes CPVC chamber and pump
To order system with PVDF chamber and pump, change the C to K in system No.
²To order pump with double mechanical seal - change HC to HCD or HK to HKD in System No.



SPACE-SAVER® 'SX' FILTRATION SYSTEMS

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW SERFILCO COM (800) 323 - 5431

COMPACT, HIGH FLOW FILTRATION, CARBON OR RESIN PURIFCATION

Flow rates to 1200 GPH @ 60 Hz



The SERFILCO Space-Saver 'SX' Series is engineered to provide reliable, high performance filtration in a small package.

These compact pump and filter systems are popular for use on small to medium size tank production in the electronics industry and in precious metal plating.

Featuring SERFILCO's new, non-metallic, leak-proof Series 'X' magnetic coupled pumps and industry proven Series 'S' filter chambers, these systems provide high flow and high turnover rates, assuring continuous particle removal. Space-Saver 'SX' systems are available with or without a carbon or resin purification chamber.

Seal-less magnetic drive pumps

Space-Saver 'SX' filtration systems feature highly efficient seal-less magnetic coupled pumps for total solution containment and reliable performance. The pumps are available in polypropylene or ETFE.

Filter chamber

Constructed of PVC, CPVC, polypropylene or PVDF to ensure chemical and temperature compatibility in a wide range of applications.

The standard chamber accepts double open end (DOE) depth wound, pleated, melt blown, cleanable sleeve and carbon cartridges. A 222 "O"-ring seat for single open end (SOE) cartridges is optional.

Simple carbon or resin treatment

Space-Saver 'SX' systems are also available with optional purification chambers in PVC or CPVC with reusable ABS canister offering a low-cost, but effective method of continuously or periodically removing organic impurities from plating baths and other chemical solutions.





SPACE-SAVER 'SX' FILTRATION Specifications and Performance

SPECIFICATIONS

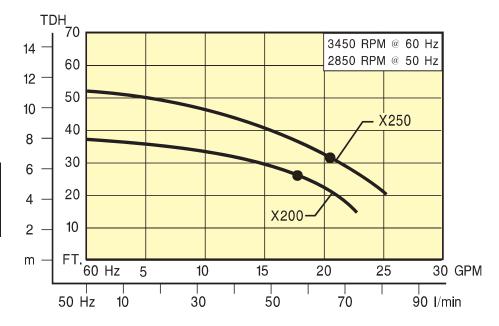
Standard SPACE-SAVER 'SX' systems include:

- System flow rates to 1200 GPH
- Series 'X' magnetic coupled pump with 1" NPT connections
- Series 'S' filter chamber with 0 30 PSI pressure gauge and guard assembly.
- · EPDM elastomers standard
- Corrosion resistant PVC hooded mounting base
- · Stainless steel external fasteners
- Polypropylene vent valve or PVDF vent plug

PS PVC chamber with polypropylene pump * PPS Polypropylene chamber and pump *

CS CPVC chamber and polypropylene pump *
KS PVDF chamber and ETFE pump *

PERFORMANCE



Realistic system flow

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^{*} Consult a chemical resistance guide to confirm material / solution compatibility.



SPACE-SAVER 'SX' FILTRATION Ordering Information

TO ORDER, use System Number

	SYSTE	EM NO.		MEDIA 1		PUMP			SHIPPING
PS	PPS	cs	KS	No - Igth	MODEL	HP ²	FLOW ³	CONNS.	WEIGHT (lbs.)
PS3X200	PPS3X200	CS3X200	KS3X200	3 - 10"					40
PS6X200	PPS6X200	CS6X200	KS6X200	3 - 20"	X200	1/5	1000	1" NPT .	45
PS9X200	PPS9X200	CS9X200	KS9X200	3 - 30"	ALGG		1000		50
PS12X200	PPS12X200	CS12X200	KS12X200	3 - 40"					55
PS3X250	PPS3X250	CS3X250	KS3X250	3 - 10"					45
PS6X250	PPS6X250	CS6X250	KS6X250	3 - 20"	X250	1/3	1200	1" NPT	50
PS9X250	PPS9X250	CS9X250	KS9X250	3 - 30"					55
PS12X250	PPS12X250	CS12X250	KS12X250	3 - 40"					60

¹ Order filter media separately.

ACCESSORIES

DESCRIPTION	ADDTO SYSTEM NO.
Viton elastomers on filter chamber and pump	V
Optional motor 230V/1/50-60	-5

CARBON PURIFICATION CHAMBER 4	PRICE C	ODE NO.
with flow control valve, hose & drain	CPVC	PVC
Includes ABS mini-canister / CPVC or clear PVC chamber for		
0.9 lbs. granular carbon 10" canister 2.1 lbs. granular carbon 20" canister 3.2 lbs. granular carbon 30" canister	O-C1CM O-C2CM O-C3CM	O-P1CM O-P2CM O-P3CM
Includes CPVC or clear PVC chamber for 1.2 lbs. bulk granular carbon 2.5 lbs. bulk granular carbon 3.8 lbs. bulk granular carbon	O-C1C O-C2C O-C3C	O-P1C O-P2C O-P3C
Includes CPVC or clear PVC chamber for 0.6 lbs. 10" carbon cartridge 1.2 lbs. 20" carbon cartridge 1.8 lbs. 30" carbon cartridge	O-C1CC O-C2CC O-C3CC	O-P1CC O-P2CC O-P3CC





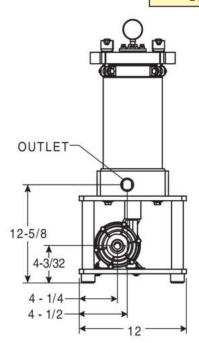
Optional 230V/1/50-60 motor available.

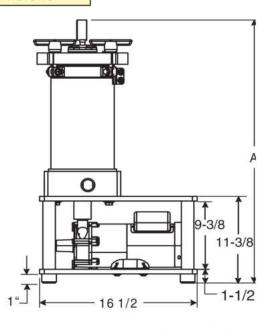


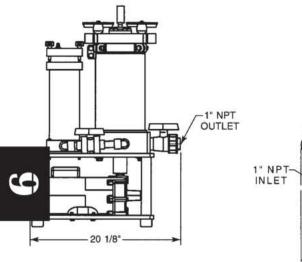
SPACE-SAVER 'SX' FILTRATION Dimensions

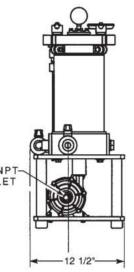
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SYSTEM SIZE	А
10"	303/, "
20"	403/,"
30"	503/,"
40"	603/,"

SPACE-SAVER 'SX' FILTRATION SYSTEMS with OPTIONAL CARBON PURIFICATION CHAMBER



SPACE-SAVER® 'SM' FILTRATION SYSTEMS

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431

COMPACT, HIGH FLOW FILTRATION DRY RUN CAPABILITY

Flow rates to 3200 GPH @ 60 Hz



For use with process liquids requiring —

non-metallic solution contact, positive containment, high level of solution clarity, minimal downtime and maintenance. Especially suitable for:

PRINTED CIRCUIT BOARD PROCESSING, ELECTROPLATING, CLEANERS, RINSES

The SERFILCO Space-Saver 'SM' Series is engineered to provide reliable, high performance filtration in a small package.

These systems feature our Series 'M' extended dry run magnetic coupled pump and industry proven, rugged design, Series 'S' filter chamber. The system package includes a corrosion resistant PVC hooded mounting base which protects the pump and motor and supports the filter chamber at a convenient height for cartridge changing.

Systems are available in CPVC, PVC or polypropylene with a polypropylene pump, or in PVDF with a PVDF pump. EPDM elastomers are standard. External hardware is stainless steel.

Standard Space-Saver 'SM' systems include:

- Series 'M' magnetic coupled pumps which can run dry without damage!
- Corrosion resistant PVC hooded mounting base
- Series 'S' filter chamber with 0 60 PSI pressure gauge and guard assembly
- EPDM elastomers standard
- Filter chamber bottom inlet for low pressure drop
- Stainless steel external fasteners and a polypropylene vent valve or PVDF vent plug
- Hard piping and wet testing prior to shipment





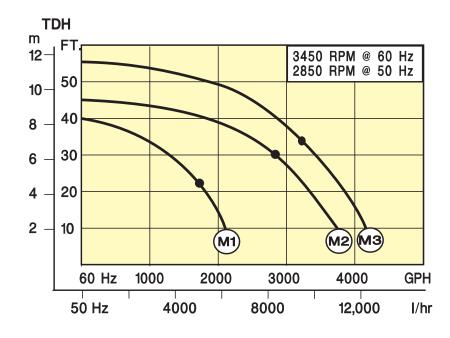
SPACE-SAVER 'SM' FILTRATION Specifications and Perfomance

SPECIFICATIONS

SYSTEM	FLOW RATE		PUMP	PUMP	CART.	MEDIA ²	Sq. ft.	CONNECTIONS	PRICE
SIZE	GPH	LPH	HP¹	MAX. PSI	CHANGE PSI	SOLIDS AREA	SUCT./ DISCH.	Inches HOSE KIT	CODE NO.
J6M105						3 - 20"	21		
J9M105	1,700	5,100	1/2	17	15	3 - 30"	31.5	1 x 1 FNPT	99-1608
J12M105						3 - 40"	42		
J6M208						3 - 20"	21		
J9M208	2,700	8,100	3/4	19	17	3 - 30"	31.5	1½ x 1¼ FNPT³	99-1610
J12M208						3 - 40"	42		
J6M310						3 - 20"	21		
J9M310	3,200	9,600	1.0	24	21	3 - 30"	31.5	1½ x 1¼ FNPT³	99-1610
J12M310						3 - 40"	42		

Less than 1.0 HP — single phase standard 1.0 HP and above — three phase standard

PERFORMANCE



Realistic system flow

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² Order media separately. Refer to Bulletin M-109.

³ PVDF systems 1½" X 1" FNPT



SPACE-SAVER 'SM' FILTRATION Ordering Information

TO ORDER, use System Number

	SYSTEM	DIMENSIONS L x W x H	SHIPPING WEIGHT		
PS	PPS	cs	KS	Inches	Lbs.
PSJ6M105	PPSJ6M105	CSJ6M105	KSJ6M105	24 x 13 x 41	100
PSJ9M105	PPSJ9M105	CSJ9M105	KSJ9M105	24 x 13 x 51	110
PSJ12M105	PPSJ12M105	CSJ12M105	KSJ12M105	24 x 13 x 61	120
PSHJ6M208	PPSHJ6M208	CSHJ6M208	KSJ6M208	24 x 13 x 41	105
PSHJ9M208	PPSHJ9M208	CSHJ9M208	KSJ9M208	24 x 13 x 51	115
PSHJ12M208	PPSHJ12M208	CSHJ12M208	KSJ12M208	24 x 13 x 61	125
PSHJ6M310	PPSHJ6M310	CSHJ6M310	KSJ6M310	24 x 13 x 41	110
PSHJ9M310	PPSHJ9M310	CSHJ9M310	KSJ9M310	24 x 13 x 51	120
PSHJ12M310	PPSHJ12M310	CSHJ12M310	KSJ12M310	24 x 13 x 61	130

PS PVC chamber and polypropylene pump * PPS polypropylene chamber and pump *

CS CPVC chamber and polypropylene pump *

KS PVDF chamber and pump *

ACCESSORIES

VITON ELASTOMERS	ADD TO SYSTEM NO.
Filter chamber and pump	V

DESCRIPTION	PRICE CODE NO.			
MOTOR STARTERS - NEMA 4X Watertight push button				
115 - 230V/1/50-60 230 - 460V/3/50-60	O-MS1P O-MS3P			
Add -S to Motor Starter PCN when ordering motor starter for use with DRI-STOP Pump Protector. i. e. O-MS1P-S Important: Specify operating voltage.				
OPERATING VOLTAGE				
1 horsepower & above - Single phase Under 1 horsepower - Three phase	O-1PH O-3PH			
50 Hz OPERATION				
Single phase @ 50 Hz Three phase @ 50 Hz	O-150H O-350H			

DESCRIPTION	PRICE CODE NO.	
CARBON PURIFICATION CHAMBER with flow control valve, hose & drain Order carbon media from Bulletin M-305	CPVC	PVC
Includes ABS mini-canister / CPVC or clear		
2.1 lbs. granular carbon 20" canister 3.2 lbs. granular carbon 30" canister	O-C2CM O-C3CM	O-P2CM O-P3CM
Includes PVC canister / CPVC or clear PVC chamber for 7.5 lbs. granular carbon 5" x 28" canister	O-1528C	O-1528
Includes CPVC or clear PVC chamber for 1.2 lbs 20" carbon cartridge 1.8 lbs 30" carbon cartridge 3.0 lbs 5" x 28" Maxi-carb cartridge	O-C2CC O-C3CC O-1528M	O-P2CC O-P3CC



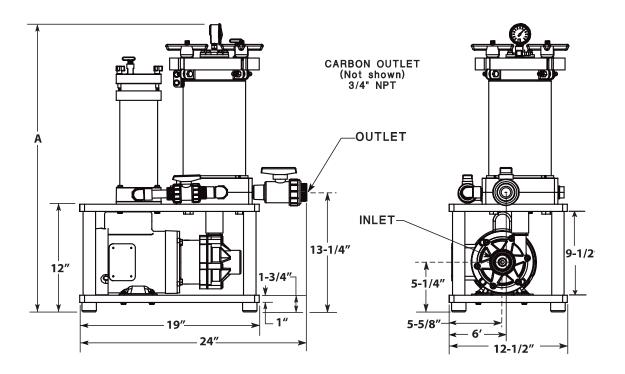
 $[\]mbox{\ensuremath{^{\star}}}$ Consult a chemical resistance guide to confirm material / solution compatibility.



SPACE-SAVER 'SM' FILTRATION SYSTEMS

DIMENSIONS

Shown with optional purification chamber



SYSTEM SIZE	DIMENSION 'A'
J6	41"
J9	51"
J12	61"



SPACE-SAVER 'J' FILTRATION SYSTEMS

COMPACT, HIGH FLOW FILTRATION, CARBON OR RESIN PURIFICATION

Flow rates to 6000 GPH



The SERFILCO Space-Saver 'J' Series is engineered to provide reliable, high performance filtration in a small package.

These compact pump and filter systems are popular for use on medium sized production tanks in the electronics and metal finishing industries.

Featuring SERFILCO's non-metallic, leak-proof magnetic coupled pumps and industry proven Series 'J' filter chambers, these systems provide high flow and high turnover rates, assuring continuous particle removal. Space-Saver 'J' systems are available with or without a carbon or resin purification chamber.

Choice of pump

Seal-less magnetic drive pumps:

Highly efficient seal-less magnetic coupled pumps provide t otal solution containment and reliable performance. The pumps are polypropylene with EPDM "O"-ring.

Mechanical seal pumps:

Single or double mechanical seals constructed of CPVC with EPDM elastomers and the highest grade, longest lasting silicon carbide seal faces.

Filter chamber

Constructed of PVC or CPVC with EPDM elastomers to ensure chemical and temperature compatibility.

The standard chamber accepts double open end (DOE) depth wound, pleated, melt blown, cleanable sleeve and carbon cartridges. A 222 "O"-ring seat for single open end (SOE) cartridges is available.



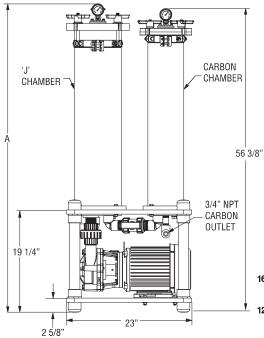
Space-Saver'J' systems are also available with optional purification chambers in PVC or CPVC with reusable PVC canister offering a low-cost, but effective method of continuously or periodically removing organic impurities from plating baths and other chemical solutions.

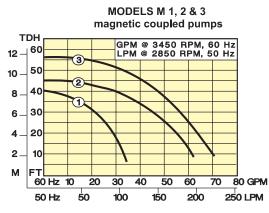


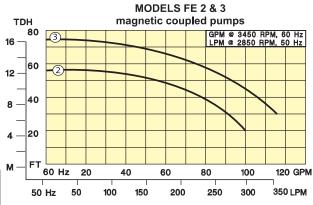


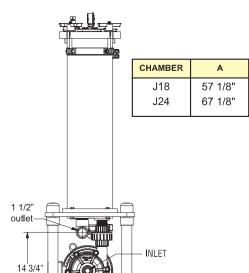
SPACE-SAVER 'J' FILTRATION SYSTEMS Specifications

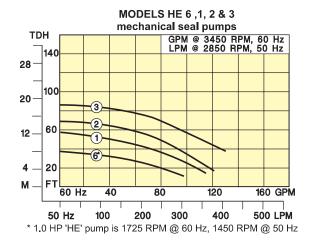
DIMENSIONS FLOW CURVES













SPACE-SAVER 'J' FILTRATION SYSTEMS Specifications

All Space-Saver 'J' systems include the following standard features:

- Non-metallic solution contact
- Stainless steel external fasteners
- Swing bolt chamber closures
- EPDM elastomers standard
- Corrosion resistant PVC hooded base
- Corrosion resistant vent valve

- Industrial duty SERFILCO pump
- Hard piping and wet testing prior to shipping
- Glycerin filled stainless steel pressure gauge
- Silicon carbide seals on mechanical seal pumps
- Filter chamber bottom inlet for low pressure drop

Systems with polypropylene magnetic drive pump and CPVC or PVC1 filter chamber

	Flow	Rate			Pump	Cartridge	Filter		Solids	Suction / Disch.	Shipping
System Number	GPH @ 60 Hz	LPH @50 Hz	Pump Series	Pump HP ³	Max. PSI	Change PSI	Chamber Series	Media	Area (sq. ft.)	Connections (inches)	Weight (Ibs.)
CJ18M105	1,800	5,700	М	1/2	20	16	J	6 - 30"	63	1 x 1 FNPT	130
CJ24M105	1,800	5,700	М	1/2	20	16	J	6 - 40"	84	1 x 1 FNPT	140
CJ18M208	2,700	8,500	М	3/4	24	20	J	6 - 30"	63	1½ x 1½ FNPT	135
CJ24M208	2,700	8,500	М	3/4	24	20	J	6 - 40"	84	1½ x 1½ FNPT	145
CJ18M310	3,600	11,300	М	1.0	28	23	J	6 - 30"	63	1½ x 1½ FNPT	145
CJ24M310	3,600	11,300	М	1.0	28	23	J	6 - 40"	84	1½ x 1½ FNPT	155
CJ18FE215	4,700	14,800	FE	1.5	25	24	J	6 - 30"	63	2 x 1½ FNPT	155
CJ24FE215	4,700	14,800	FE	1.5	25	24	J	6 - 40"	84	2 x 1½ FNPT	165
CJ18FE320	5,000	17,300	FE	2.0	32	30	J	6 - 30"	63	2 x 1½ FNPT	170
CJ24FE320	5,000	17,300	FE	2.0	32	30	J	6 - 40"	84	2 x 1½ FNPT	180

Systems with CPVC single or double seal 2 direct drive pump and CPVC or PVC1 filter chamber

System Number	Flow GPH @ 60 Hz	LPH	Pump Series	Pump HP ³	Pump Max. PSI	Cartridge Change PSI	Filter Chamber Series	Media	Solids Area (sq. ft.)	Suction / Disch Connections (inches)	Shipping Weight (Ibs.)
CJ18HE610	3,000	9,500	HE	1.0 ⁴	16	14	J	6 - 30"	63	2 x 1½ FNPT	155
CJ24HE610	3,000	9,500	HE	1.0 ⁴	16	14	J	6 - 40"	84	2 x 1½ FNPT	165
CJ18HE115	4,500	14,200	HE	1.5	24	19	J	6 - 30"	63	2 x 1½ FNPT	155
CJ24HE115	4,500	14,200	HE	1.5	24	19	J	6 - 40"	84	2 x 1½ FNPT	165
CJ18HE220	5,500	17,300	HE	2.0	29	26	J	6 - 30"	63	2 x 1½ FNPT	145
CJ24HE220	5,500	17,300	HE	2.0	29	26	J	6 - 40"	84	2 x 1½ FNPT	155
CJ18HE330	6,000	18,900	HE	3.0	36	32	J	6 - 30"	63	2 x 1½ FNPT	150
CJ24HE330	6,000	18,900	HE	3.0	36	32	J	6 - 40"	84	2 x 1½ FNPT	160

Listed system includes CPVC chamber. To order system with PVC chamber, change the C to P in System No.



To order pump with double mechanical seal, change **HE** to **HED** in System No.

Less than 1.0 HP — single phase standard. 1.0 HP and above — three phase standard.

 ^{4 1.0} HP 'HE' pump is 1725 RPM @ 60 Hz, 1450 RPM @ 50 Hz



SPACE-SAVER 'J' FILTRATION SYSTEMS Optional Equipment

F-215_D

OPTIONAL

CARBON PURIFICATION CHAMBER								
	DESCRIPTION	ADD TO END OF SYSTEM NO.						
Includes integral carbon chamber	PVC chamber, Single 5" x 28" canister, 7.5 lbs. capacity	Р						
and flow control valve.	CPVC chamber, Single 5" x 28" canister, 7.5 lbs. capacity	С						
Carbon outlet 3/4" NPT	CPVC chamber, Single 5" x 28" Maxi-Carb cartridge, 3.0 lbs. carbon	М						

Order carbon media from Bulletin M-305.

VITON® ELASTOMERS	ADD TO END OF SYSTEM NO.
Filter chamber and pump	V

MOTOR STARTERS									
NEMA 4X Watertight push button (mounted and wired) Add -S to motor starter Price Code No. when ordering		PRICE CODE NO.							
motor starter for use with DRI-STOP® Pump Protector IMPORTANT: Specify operating voltage	115 - 230V/1/50-60 230 - 460V/3/50-60	O-MS1P O-MS3P							

DRI-STOP® PUMP PROTECTOR	
DRI-STOP 2R for use with double mechanical seal pump.	O-2DS2R
DRI-STOP 3 for use with magnetic drive or single mechanical seal pump.	O-DS3C

OPERATING VOLTAGE	
1 horsepower and above - Single phase	O-1PH
Under 1 horsepower - Three phase	O-3PH

50 Hz OPERATION	
Single phase @ 50 Hz	O-150H
Three phase @ 50 Hz	O-350H

SUPER SPACE-SAVER **FILTRATION SYSTEMS**

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431



COMPACT, ECONOMICAL FILTRATION AND PURIFICATION

- Flow rates to 8500 GPH @ 60 Hz (26,800) LPH @ 50 Hz
- Non-metallic solution contact Polypropylene CPVC PVC PVDF systems available
- Choice of pump: magnetic coupled, single or double mechanical seal Self-priming available

Super Space-Saver Filtration Systems have gained wide approval for recirculatory purification of most electroplating and chemical process solutions.

Choose a basic filtration system with your choice of media, pump and filter chamber. Then select from a wide variety of optional equipment to customize your system.

Call us and we'll help you select the perfect system for your application.

The following pages contain a representative sampling of standard Super Space-Saver systems.

SUPER SPACE-SAVER SYSTEMS include the following standard features:

- Non-metallic solution contact
- Stainless steel external fasteners
- Swing bolt chamber closures
- EPDM elastomers standard, Viton optional
- Corrosion resistant hooded base
- Flow control valve between pump and filter
- Drain valve on filter chamber

- Industrial duty SERFILCO pump
- Hard piping and wet testing prior to shipping
- Corrosion resistant vent valve
- Silicon carbide seals on mechanical seal pumps
- Glycerin filled 316 SS pressure gauge and guard assembly





SUPER SPACE-SAVER FILTRATION SYSTEMS

DIMENSIONS FLOW CURVES MODEL M 2 magnetic coupled pump TDH CI PET OF 60 GPM @ 3450 RPM, 60 Hz LPM @ 2850 RPM, 50 Hz 12 -2 40 8 20 4 -(H) 60 Hz 20 40 60 80 100 GPM 50 100 150 200 250 300 LPM 50 Hz **8**0 INLET MODELS FE 1, 2, 3, 4, & F8 18 5/8" magnetic coupled pumps TDH GPM @ 3450 RPM, 60 Hz LPM @ 2850 RPM, 50 Hz 100 8 20 80 **CHAMBER** 16 60 G24 50" 12 40 G36 60" 8 20 G48 70" 4 m **200** GPM 80 120 160 60 Hz 40 **600** LPM 50 Hz 100 200 300 400 500 MODELS HK 4, HE 1, 2, 3 & 4 mechanical seal pumps TDH 1 1/2" FNPT DRAIN 140 GPM @ 3450 RPM, 60 Hz LPM @ 2850 RPM, 50 Hz EFFLUENT 28 120 3/4" FNPT DRAIN 24 100 20 80 1/2" FNPT OUTLET 16 60 12 40 8 'HE' PUMP (shown) 20 4 FT. m 40 80 120 60 Hz 160 GPM П 27' 50 Hz 100 200 300 400 500 LPM

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SUPER SPACE-SAVER FILTRATION SYSTEMS

CPVC or Polypropylene direct drive² pump with CPVC, PVC or Polypropylene¹ filter chamber

System	Flow	Rate	Pump	Duman	Pump	Cartridge	Filter		Solids	Suct. / Disch	Overall	Ship.
Number	GPH @ 60 Hz	LPH @ 50 Hz	Series	Pump HP	Max. PSI	Change PSI	Series	Media	Area (sq. ft)	FNPT Conns. (inches) ³	Dimensions (in.) (L x W x H)	Weight (lbs)
CG24HK415	3,000	9,400	HK	1.5	23	19	G	12 - 20"	84	11/2 x 11/2	27 x 18 x 50	180
CG36HK415	3,000	9,400	HK	1.5	23	19	G	12 - 30"	126	11/2 x 11/2	27 x 18 x 60	190
CG48HK415	3,000	9,400	HK	1.5	23	19	G	12 - 40"	168	1 ¹ / ₂ x 1 ¹ / ₂	27 x 18 x 70	205
CG24HE115	4,200	13,200	HE	1.5	24	20	G	12 - 20"	84	2 x 1 ¹ / ₂	27 x 18 x 50	205
CG36HE115	4,200	13,200	HE	1.5	24	20	G	12 - 30"	126	2 x 1 ¹ / ₂	27 x 18 x 60	215
CG48HE115	4,200	13,200	HE	1.5	24	20	G	12 - 40"	168	2 x 1 ¹ / ₂	27 x 18 x 70	230
		.=					_					
CG24HE220	5,400	17,000	HE	2.0	27	24	G	12 - 20"	84	2 x 1 ¹ / ₂	27 x 18 x 60	215
CG36HE220	5,400	17,000	HE	2.0	27	24	G	12 - 30"	126	2 x 1 ¹ / ₂	27 x 18 x 60	225
CG48HE220	5,400	17,000	HE	2.0	27	24	G	12 - 40"	168	2 x 1 ¹ / ₂	27 x 18 x 70	240
CG24HE330	6,500	20,500	HE	3.0	36	33	G	12 - 20"	84	2 x 1 ¹ / ₂	27 x 18 x 50	220
CG36HE330	6,500	20,500	HE	3.0	36	33	G	12 - 30"	126	2 x 1 ¹ / ₂	27 x 18 x 60	230
CG48HE330	6,500	20,500	HE	3.0	36	33	G	12 - 40"	168	2 x 1 ¹ / ₂	27 x 18 x 70	245
CG36HE450	8,500	26,800	HE	5.0	51	48	G	12 - 30"	126	2 x 1 ¹ / ₂	27 x 18 x 60	245
CG48HE450	8,500	26,800	HE	5.0	51	48	G	12 - 40"	168	2 x 1 ¹ / ₂	27 x 18 x 70	260

¹ Listed system includes CPVC chamber: To order system with PVC chamber - Change **C** to **P** in System No. For polypropylene systems, change **C** to **PP** in System Number. For PVDF systems, consult Sales Department.

OPTIONAL

OPTIONAL ELASTOMERS	PRICE CODE NO.						
Viton elastomers	O-GV						
MOTOR STARTERS - NEMA 4X Watertight po	ush button						
230 - 460V/3/50-60	O-MS3P						
Add -S to Motor Starter PCN when ordering motor starter for use with DRI-STOP Pump Protector. i. e. O-MS1P-S Important: Specify operating voltage.							
DRI-STOP® PUMP PROTECTOR							
DRI-STOP 2R for use with double mechanical seal pumps	O-2DS2R						
DRI-STOP 3 for use with magnetic drive or single mechanical seal pumps.	O-DS3C						
50 Hz OPERATION							
Three phase @ 50 Hz	O-350H						



² To order pump with double mechanical seal - Change **HK** to **HKD** or **HE** to **HED** in System No.

³ Series 'HK' pump has 1 1/2" MNPT connection. Systems are 230-460/3/50-60



SUPER SPACE-SAVER FILTRATION SYSTEMS

Polypropylene magnetic drive pump with CPVC, PVC or Polypropylene¹ filter chamber

Suntana	Flov	w Rate	Duma	December	Pump	Cartridge	Filter		Solids	Suct./Disch	Overall Dimen-	Ship.
System Number	GPH @60Hz	LPH @50 Hz	Pump Series	Pump HP	Max. PSI	Change PSI	Series	Media	Area (sq. ft)	FNPT Conns. (inches)	sions (in.) (L x W x H)	Weight (lbs)
CG24M210	3,000	9,500	М	1.0	20	16	G	12 - 20"	84	1 ½ x 1 ½	27 x 18 x 50	185
CG36M210	3,000	9,500	М	1.0	20	16	G	12 - 30"	126	1 ½ x 1 ½	27 x 18 x 60	195
CG48M210	3,000	9,500	М	1.0	20	16	G	12 - 40"	168	1 ½ x 1 ½	27 x 18 x 70	210
CG24FE110	3,900	12,300	FE	1.0	18	16	G	12 - 20"	84	2 x 1½	27 x 18 x 50	205
CG36FE110	3,900	12,300	FE	1.0	18	16	G	12 - 30"	126	2 x 1½	27 x 18 x 60	215
CG48FE110	3,900	12,300	FE	1.0	18	16	G	12 - 40"	168	2 x 1½	27 x 18 x 70	230
CG24FE215	4,700	14,800	FE	1.5	25	24	G	12 - 20"	84	2 x 1½	27 x 18 x 50	215
CG36FE215	4,700	14,800	FE	1.5	25	24	G	12 - 30"	126	2 x 1½	27 x 18 x 60	225
CG48FE215	4,700	14,800	FE	1.5	25	24	G	12 - 40"	168	2 x 1½	27 x 18 x 70	240
CG24FE320	6,000	18,900	FE	2.0	32	30	G	12 - 20"	84	2 x 1½	27 x 18 x 50	225
CG36FE320	6,000	18,900	FE	2.0	32	30	G	12 - 30"	126	2 x 1½	27 x 18 x 60	235
CG48FE320	6,000	18,900	FE	2.0	32	30	G	12 - 40"	168	2 x 1½	27 x 18 x 70	245
CG36FE430	6,900	21,800	FE	3.0	35	21	G	12 - 30"	126	2 x 1½	27 x 18 x 60	250
CG48FE430	6,900	21,800	FE	3.0	35	21	G	12 - 40"	168	2 x 1½	27 x 18 x 70	260
CG36F850	8,500	26 800	F2x2	50	42	34	G	12 - 30"	126	2 x 1½	27 x 18 x 60	250
CG48F850	8,500	26,800	F2x2	5.0	42	34	G	12 - 40"	168	2 x 1½	27 x 18 x 60	260

Polypropylene magnetic drive pump with CPVC, PVC or Polypropylene¹ filter chamber

System	Flo	Flow Rate Pump		Pump Pump		Cartridge	Filter		Solids	Suct_/Disch	Overall Dimen-	Ship.
Number	GPH @60Hz	LPH @50 Hz	Series	HP	Max. PSI			Media	Area (sq. ft)	FNPT Conns. (inches)	sions (in.) (L x W x H)	Weight (lbs)
CG24FES215	3,900	12,300	FES	1.5	22	16	G	12 - 20"	84	1 ½ x 1 ½	27 x 18 x 50	210
CG36FES215	3,900	12,300	FES	1.5	22	16	G	12 - 30"	126	1 ½ x 1 ½	27 x 18 x 60	220
CG48FES215	3,900	12,300	FES	1.5	22	16	G	12 - 40"	168	1 ½ x 1 ½	27 x 18 x 70	235
CG24FES320	4,700	14,800	FES	2.0	29	24	G	12 - 20"	84	1 ½ x 1 ½	27 x 18 x 50	220
CG36FES320	4,700	14,800	FES	2.0	29	24	G	12 - 30"	126	1 ½ x 1 ½	27 x 18 x 60	230
CG48FES320	4,700	14,800	FES	2.0	29	24	G	12 - 40"	168	1 ½ x 1 ½	27 x 18 x 70	245
CG24FES430	6,000	18,900	FES	3.0	35	30	G	12 - 20"	84	1 ½ x 1 ½	27 x 18 x 50	230
CG36FES320	6,000	18,900	FES	3.0	35	30	G	12 - 30"	126	1 ½ x 1 ½	27 x 18 x 60	240
CG48FES430	6,000	18,900	FES	3.0	35	30	G	12 - 40"	168	1 ½ x 1 ½	27 x 18 x 70	250

Listed system includes CPVC chamber. To order system with PVC chamber — change C to P in System Number For polypropylene systems, change C to PP in System Number. For PVDF systems, consult Sales Department



GUARDIAN® FILTRATION SYSTEMS

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431



- Flow rates to 8500 GPH @ 60Hz (31,500 LPH @ 50Hz)
- Non-metallic solution contact PVC, CPVC, polypropylene or PVDF systems available
- Choice of pump: magnetic coupled, single or double mechanical seal, self-priming
- Choice of media: cartridge, disc, bag (See Bulletin F-155 for disc systems and Bulletin F-513 for bag systems)

The following pages contain a representative sampling of standard Guardian systems. Consult Sales Department for additional selections,

Guardian Filtration Systems have gained wide approval for recirculatory purification of most electroplating and chemical process solutions. They have proven to be a reliable workhorse for over three decades. With hundreds of systems in service around the globe, you can be confident a Guardian Filtration System will improve the

clarity of your process solutions, increase production quality, and reduce process cost.

Choose a basic filtration system with your choice of media, pump and filter chamber. Then select from a wide range of optional equipment to customize your system. Call us and we'll help you select the perfect system for your application.

Guardian systems include the following standard features:

- Non-metallic solution contact
- Stainless steel external fasteners
- Swing bolt chamber closures
- EPDM elastomers standard, Viton optional
- Corrosion resistant PVC base
- Flow control valve between pump and filter

- Drain valve on filter chamber
- Industrial duty SERFILCO pump
- Hard piping and wet testing prior to shipping
- Corrosion resistant vent valve
- Silicon carbide seals on mechanical seal pumps
- Glycerin filled 316 SS pressure gauge and guard assembly





GUARDIAN CARTRIDGE FILTRATION SYSTEMS

CPVC single or double seal² direct drive pump and CPVC or PVC filter chamber ¹

System		Rate	Pump	Pump	Pump	Cartridge	Filter		Solids	Suct. / Disch	Overall	Ship.
Number	GPH @ 60 Hz	LPH @ 50 Hz	Series	HP	Max. PSI	Change PSI	Series	Media	Area (sq. ft.)	FNPT Conns. (inches)	Dimensions (in.) (L x W x H)	Weight (Ibs)
CG24HE115H	4,200	13,200	HE	1.5	24	20	G	12 - 20"	84	2 x 1 ¹ / ₂	50 x 24 x 32	205
CG36HE115H	4,200	13,200	HE	1.5	24	20	G	12 - 30"	126	2 x 1 ¹ / ₂	50 x 24 x 42	215
CG48HE115H	4,200	13,200	HE	1.5	24	20	G	12 - 40"	168	2 x 1 ¹ / ₂	50 x 24 x 52	230
CG36HE220H	5.400	17.000	HE	2.0	27	24	G	12 - 30"	126	2 x 1 ¹ / ₂	50 x 24 x 42	225
CG48HE220H	5,400	17,000	HE	2.0	27	24	G	12 - 40"	168	2 x 1 ¹ / ₂	50 x 24 x 52	240
CG46HEZZUH	-,	17,000		2.0		24	G	12 - 40	100	∠ X 1 1/2	50 X 24 X 52	
CG60HE220H	5,400	17,000	HE	2.0	27	24	G	12 - 50"	210	2 x 1 ¹ / ₂	50 x 24 x 62	250
CG36HE330H	6,500	20,500	HE	3.0	36	32	G	12 - 30"	126	2 x 1 ¹ / ₂	50 x 24 x 42	235
CG48HE330H	6,500	20,500	HE	3.0	36	32	G	12 - 40"	168	2 x 1 ¹ / ₂	50 x 24 x 52	245
CG60HE330H	6,500	20,500	HE	3.0	36	32	G	12 - 50"	210	2 x 1 ¹ / ₂	50 x 24 x 62	255
			=									
CG36HE450H	8,500	26,800	HE	5.0	50	45	G	12 - 30"	126	2 x 1 ¹ / ₂	50 x 24 x 42	250
CG48HE450H	8,500	26,800	HE	5.0	50	45	G	12 - 40"	168	2 x 1 ¹ / ₂	50 x 24 x 52	260
CG60HE450H	8,500	26,800	HE	5.0	50	45	G	12 - 50"	210	2 x 1 ¹ / ₂	50 x 24 x 62	270
CG96HE450H	8,500	26,800	HE	5.0	50	45	(2)G	24 - 40"	336	2 x 2	66 x 24 x 52	395
CG120HE450H	8,500	26,800	HE	5.0	50	45	(2)G	24 - 50"	420	2 x 2	66 x 24 x 62	425
							(0) 0					
CG96HE575H	10,000	21,500	HE	7.5	60	45	(2)G	12 - 40"	336	2 x 2	66 x 24 x 52	440
CG120HE575H	10,000	21,500	HE	7.5	60	45	(2)G	12 - 50"	420	2 x 2	66 x 24 x 62	470

Listed system includes CPVC chamber. To order system with PVC chamber — change the first C to P in System No. and Model No.

Polypropylene magnetic drive pump and CPVC, PVC or polypropylene filter chamber ¹

System	Flow	Rate	Bumn	Pump	Pump	Cartridge	Filter		Solids	Suct. / Disch	Overall	Ship.
Number	GPH @ 60 Hz	LPH @ 50 Hz	Pump Series		Max. PSI	Change PSI	Series	Media	Area (sq. ft.)	FNPT Conns. (inches)	Dimensions (in.) (L x W x H)	Weight (Ibs)
CG24M210H	3,000	13,200	М	1.0	20	16	G	12 - 20"	84	11/2 x 11/2	50 x 24 x 32	185
CG36M210H	3,000	13,200	М	1.0	20	16	G	12 - 30"	126	1 ¹ /2 x 1 ¹ /2	50 x 24 x 42	195
CG48M210H	3,000	13,200	М	1.0	20	16	G	12 - 40"	168	11/2 x 11/2	50 x 24 x 52	210
CG36FE110	3,900	12,300	FE	1.0	18	16	G	12 - 30"	126	2 x 1 ¹ / ₂	50 x 24 x 42	215
CG48FE110	3,900	12,300	FE	1.0	18	16	G	12 - 40"	168	2 x 1 ¹ / ₂	50 x 24 x 52	230
CG60FE110	3,900	12,300	FE	1.0	18	16	G	12 - 50"	210	2 x 1 ¹ / ₂	50 x 24 x 62	240
Listed system inc	Judee CD	/C shambs	r To orde		DVC			G4 C 4- D	in Contain	NI NI NI		

Listed system includes CPVC chamber. To order system with PVC chamber — change the first C to P in System No. and Model No. For polypropylene systems, change the first C to PP in system No. For PVDF systems consult Sales Dept.



² To order pump with double mechanical seal — change **HE** to **HED** in System.



GUARDIAN CARTRIDGE FILTRATION SYSTEMS

Polypropylene magnetic drive pump and CPVC, PVC or polypropylene filter chamber ¹ (Cont.)

System Number	Flow GPH @ 60 Hz	Rate LPH @ 50 Hz	Pump Series	Pump HP	Pump Max. PSI	Cartridge Change PSI	Filter Series	Media	Solids Area (sq. ft.)	Suct. / Disch FNPT Conns. (inches)	Overall Dimensions (in.) (L x W x H)	Ship. Weight (lbs)
CG36FE215H	4,700	14,800	FE	1.5	25	24	G	12 - 30"	126	2 x 1 ¹ / ₂	50 x 24 x 42	225
CG48FE215H	4,700	14,800	FE	1.5	25	24	G	12 - 40"	168	2 x 1 ¹ / ₂	50 x 24 x 52	240
CG60FE215H	4,700	14,800	FE	1.5	25	24	G	12 - 50"	210	2 x 1 ¹ / ₂	50 x 24 x 62	250
CG36FE320H	6,000	18,900	FE	2.0	32	30	G	12 - 30"	126	2 x 1 ¹ / ₂	50 x 24 x 42	235
CG48FE320H	6,000	18,900	FE	2.0	32	30	G	12 - 40"	168	2 x 1 ¹ / ₂	50 x 24 x 52	245
CG60FE320H	6,000	18,900	FE	2.0	32	30	G	12 - 50"	210	2 x 1 ¹ / ₂	50 x 24 x 62	255
CG48F850H	8,500	26,800	F2x2	5.0	45	33	G	12 - 40"	168	2 x 1 ¹ / ₂	50 x 24 x 52	260
CG60F850H	8,500	26,800	F2x2	5.0	45	33	G	12 - 50"	210	2 x 1 ¹ / ₂	50 x 24 x 62	270
CG96F850H	8,500	26,800	F2x2	5.0	45	33	(2)G	24 - 40"	336	2 x 2	66 x 24 x 52	395
CG120F850H	8,500	26,800	F2x2	5.0	45	33	(2)G	24 - 50"	420	2 x 2	66 x 24 x 62	425
										·		
CG96F910H	10,000	31,500	F2x2	10.0	53	42	(2)G	24 - 40"	336	2 x 2	66 x 24 x 52	460
CG120F910H	10,000	31,500	F2x2	10.0	53	42	(2)G	24 - 50"	420	2 x 2	66 x 24 x 62	490

Polypropylene Self-priming magnetic drive pump and CPVC, PVC or polypropylene filter chamber ¹

System		Rate	Pump	Pump	Pump	Cartridge	Filter		Solids	Suct. / Disch	Overall	Ship.
Number	GPH @ 60 Hz	LPH @ 50 Hz	Series	HP	Max. PSI	Change PSI	Series	Media	Area (sq. ft.)	FNPT Conns. (inches)	Dimensions (in.) (L x W x H)	Weight (lbs)
CG24FES110H	3,000	13,200	FES	1.0	19	16	G	12 - 20"	84	11/2 x 11/2	50 x 24 x 32	200
CG36FES110H	3,000	13,200	FES	1.0	19	16	G	12 - 30"	126	11/2 x 11/2	50 x 24 x 42	210
CG48FES110H	3,000	13,200	FES	1.0	19	16	G	12 - 40"	168	1 ¹ / ₂ x 1 ¹ / ₂	50 x 24 x 52	220
CG36FES215H	3,900	12,300	FES	1.5	22	16	G	12 - 30"	126	1 ¹ / ₂ x 1 ¹ / ₂	50 x 24 x 42	210
CG48FES215H	3,900	12,300	FES	1.5	22	16	G	12 - 40"	168	11/2 x 11/2	50 x 24 x 52	220
CG60FES215H	3,900	12,300	FES	1.5	22	16	G	12 - 50"	210	1 ¹ /2 x 1 ¹ /2	50 x 24 x 62	230
CG36FES320H	4,700	14,800	FES	2.0	29	24	G	12 - 30"	126	11/2 x 11/2	50 x 24 x 42	220
CG48FES320H	4,700	14,800	FES	2.0	29	24	G	12 - 40"	168	1 ¹ /2 x 1 ¹ /2	50 x 24 x 52	230
CG60FES320H	4,700	14,800	FES	2.0	29	24	G	12 - 50"	210	1 ¹ / ₂ x 2 ¹ / ₂	50 x 24 x 62	240
CG36FES430H	6,000	18,900	FES	3.0	35	30	G	12 - 30"	126	1 ¹ / ₂ x 1 ¹ / ₂	50 x 24 x 42	230
CG48FES430H	6,000	18,900	FES	3.0	35	30	G	12 - 40"	168	1¹/2 x 1 ¹/2	50 x 24 x 52	240
CG60FES430H	6,000	18,900	FES	3.0	35	30	G	12 - 50"	210	1 ¹ / ₂ x 1 ¹ / ₂	50 x 24 x 62	250

Listed system includes CPVC chamber. To order system with PVC chamber — change the first **C** to **P** in System No. and Model No.

For polypropylene systems, change the first ${\bf C}$ to ${\bf PP}$ in System No. For PVDF systems consult Sales Dept.





GUARDIAN CARTRIDGE FILTRATION SYSTEMS

Customize your Guardian with the following options

SLURRY TANK and VALVES										
SV4	SURFACE AREA	SLURRY	PRICE							
	(sq. ft.)	CAPACITY (gal.)	CODE NO.							
For chemical mixing, pump priming or precoating. Includes polyethylene tank w/CPVC frame, CPVC piping and four CPVC ball valves and tank strainer.	84	7	O-2084							
	126	11	O-2072							
	168 +	18	O-2090							
SV6 Same as above, pluse backwash and bypass valves.	84	7	O-2085							
	126	11	O-2073							
	168 +	18	O-2091							

MOTOR STARTERS	MOTOR STARTERS							
NEMA 4X Watertight push button (mounted and wired)		PRICE CODE NO.						
Add -S to motor starter Price Code No. when ordering motor starter for use with DRI-STOP® Pump Protector <i>IMPORTANT</i> : Specify operating voltage	O-MS1P O-MS3P							
DRI-STOP® PUMP PROTECTO	R							
DRI-STOP 2R for use with double mechanical seal pump.	O-2DS2R							
DRI-STOP 3 for use with magnetic drive or single mechanical seal pump.		O-DS3C						

CARBON PURIFICATION CHAMBER								
includes extended base, adapter kit, flow control valve and drain valve.								
DESCRIPTION CARBON CAPACITY PRICE CODE NO.								
PVC chamber and internal canister(s) for use with granular carbon. For CPVC chamber, add C to end of Price Code No.	Single 5" x 28" canister, 7.5 lbs. capacity Triple 5" x 28" canister, 22.5 lbs. capacity Triple 5" x 48" canister, 42 lbs capacity	O-1528 O-3528 O-3548						

Order carbon media from Bulletin M-305.

PORTABLE	PRICE CODE NUMBER
Two fixed wheels, two swivel casters, pull handle	O-2042
OPERATING VOLTAGE	50 Hz
Single phase @ 50 Hz Three phase @ 50 Hz	O-150H O-350H
ELASTOMERS	
Viton Elastomers	O-4V



BAG FILTRATION SYSTEMS

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431



COMPACT, ECONOMICAL FILTRATION AND PURIFICATION

- Flow rates to 6000 GPH @ 60 Hz (19000 LPH @ 50 Hz)
- Non-metallic solution contact
 Select materials of construction for compatibility with solutions, operating temperature and pressure.

Bag Systems are corrosion resistant and extremely simple to operate. Choice of construction materials allow use with most liquids, including harsh chemicals at elevated temper atures.

Choice of pump

Seal-less magnetic drive pumps: Series 'B' seal-less magnetic coupled pumps are avaiable in CPVC, polypropylene or PVDF with EPDM "O"-rings. Series 'M' and 'FE' pumps are polypropylene or PVDF with EPDM "O"-rings.

Mechanical Seal Pumps:

Series 'HC', 'HK' or 'HE' direct drive pumps are available with either single or double mechanical seals. The pumps are CPVC or PVDF withEPDM "O"-rings

Self Priming Pumps:

Series 'FES' magnetic coupled self priming pumps are available in polypropylene or PVDF with EPDM "O"-rings.

• Filter Chamber

Space-Saver systems utilize Series 630 & 640 single bag chambers with surface area up to 5.0 sq. ft. Super Space-Saver and Guardian system utiltze Series 1235 & 1255 multi-bag chambers with surface area up to 19.5 sq. ft. All bag chambers feature a bottom in bottom out design which simplifies bag changes.





BAG FILTRATION SYSTEM Specifications and Ordering Information

Standard BAG FILTRATION systems include:

- Non-metallic solution contact
- Corrosion resistant mounting base.
- Industrail duty SERFILCO pump
- Stainless steel or corrosion resistant external hardware and fasteners.
- · Vent valve assembly

- Glycerin filled 316 SS pressure gauge and guard assembly
- Systems 1 HP and up 230-460V/3/50-60 Hz, others 115-230V/1/50-60 Hz.
- Flow control valve between pump and filter (Super Space-Saver and Guardian)

TO ORDER, use System Number

SPACE-SAVER SYSTEMS

Systems with magnetic drive pump and PVC, CPVC, polypropylene or PVDF filter chambe.

System	Flow	Rate	Pump	Pump	Pump	Filter	Bag	Suct./Disch	Shipping
Number ¹	GPH @60Hz	LPH @50 Hz	Series	HP	Max. PSI	Series	Area (sq. ft)	FNPT Conntections (inches)	Weight (lbs)
CSBF3.5B6	600	2,000	В	1/6	10	630	3.5	3/4 H X 1	75
CSBF5B6	600	2,000	В	1/6	10	640	5.0	3/4 H X 1	80
CSBF3.5M108	1,700	5,100	М	3/4	17	630	3.5	1 x 1	90
CSBF5M108	1,700	5,100	М	3/4	17	640	5.0	1 x 1	90
CSBF5M210	2,700	8,100	М	1.0	20	640	5.0	1 1/2 x 1	95

¹Listed system includes CPVC chamber and pump

Systems with CPVC or PVDF direct drive pump and PVC, CPVC or PVDF filter chamber

System	Flow Rate		Bumn	Pump	Pump	Filter	Bag	Suct./Disch	Shipping
Number ¹	GPH @60Hz	LPH @50 Hz	Pump Series	HP ²	Max. PSI	Series	Area (sq. ft)	FNPT Conntections (inches)	Weight (lbs)
CSBF3.5HC103	900	2,800	HC	1/3	12	630	3.5	1 x 1	62
CSBF5HC103	900	2,800	HC	1/3	12	640	5.0	1 x 1	85
CSBF5HC208	1,600	5,000	HC	3/4	20	640	5.0	1 x 1	95
CSB5HK310	2,500	7,900	HK	1.0	18	640	5.0	1 1/2 x 1	105

¹Listed system includes CPVC chamber and pump

To order system with PVC chamber and CPVC pump, change the C to P in system No.

To order system with polypropylene chamber and pump, change the C to PP in system No.

To order system with PVDF chamber and pump, change the C to K in system No.

To order system with PVC chamber and CPVC pump, change the C to P in system No.

To order system with PVDF chamber pump, change the C to K in system No.

 $^{^{\}rm 2}\text{To}$ order pump with double mechanical seal - change HC to HCD or HK to HKD in System No.



BAG FILTRATION SYSTEM Spec fications and Ordering Information

TO ORDER, use System Number

SUPER SPACE-SAVER OR GUARDIAN SYSTEMS

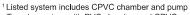
Polypropylene magnetic drive pump with CPVC, PVC, or Polypropylene² filter chamber

	Flow	Rate			Pump		Bag	Suct./Disch	Shipping
System Number ^{1, 2}	GPH @60 Hz	LPH @50 Hz	Pump Series	Pump HP	Max. PSI	Filter Series	Area (sq. ft)	FNPT Conntections (inches)	Weight (lbs)
CGBF12M210	3,000	9,500	М	1.0	20	1235	12.0	1 1/2 x 1 1/2	195
CGBF19M210	3,000	9,500	М	1.0	20	1255	19.5	1 1/2 x 1 1/2	210
CGBF12FE110	3,500	11,100	FE	1.0	18	1235	12.0	2 x 1 1/2	215
CGBF19FE110	3,500	11,100	FE	1.0	18	1255	19.5	2 x 1 1/2	230
CGBF12FE215	4,500	14,200	FE	1.5	25	1235	12.0	2 x 1 1/2	225
CGBF19FE215	4,500	14,200	FE	1.5	25	1255	19.5	2 x 1 1/2	240
CGBF12FE320	5,500	17,400	FE	2.0	32	1235	12.0	2 x 1 1/2	235
CGBF19FE320	5,500	17,400	FE	2.0	32	1255	19.5	2 x 1 1/2	250

¹Listed system includes CPVC chamber and pump

CPVC or Polypropylene direct drive² pump with CPVC, PVC, or Polypropylene filter chamber

System	Flow	Rate	Dumn	Bumn	Pump	Filter	Bag	Suct./Disch	Shipping
System Number ^{1, 2}	GPH @60 Hz	LPH @50 Hz	Pump Series	Pump HP	Max. PSI	Series	Area (sq. ft)	FNPT Conntections (inches)	Weight (lbs)
CGBF12HK415	2,500	7,900	HK	1.5	23	1235	12.0	1 x 1 1/2	190
CGBF19HK45	2,500	7,900	HK	1.5	23	1255	19.5	1 1/2 x 1 1/2	205
CGBF12HE115	9,000	12,600	HE	1.5	24	1235	12.0	2 X 1/2	215
CGBF19HE115	4,000	12,600	HE	1.5	24	1255	19.5	2 x 1 1/2	230
CGBF12HE220	5,000	15,800	HE	2.0	27	1235	12.0	2 x 1 1/2	225
CGBF19HE220	5,000	15,800	HE	2.0	27	1255	19.5	2 x 1 1/2	240
CGBF12HE330	6,000	1,900	HE	3.0	36	1235	12.0	2 x 1 1/2	230
CGBF19HE330	6,000	1,900	HE	3.0	36	1255	19.5	2 x 1 1/2	245



To order system with PVC chamber and CPVC pump, change the C to P in system No.



To order system with PVC chamber and CPVC pump, change the C to P in system No.

To order system with polypropylene chamber and pump, change the C to PP in system No.

² Listed system is a Super Space-Saver

For a Guardian System (mounted on a flat base) add H to System No.

To order system with polypropylene chamber and pump, change the C to PP in system No.

²Listed system is a Super Space-Saver

For a Guardian System (mounted on a flat base) add H to System No.



BAG FILTRATION SYSTEM Specifications and Ordering Information

Polypropylene self-priming magnetic drive pump with CPVC, PVC or Polypropylene¹ filter chamber

System	Flow	Rate	Burns	Dumm	Pump	Filter	Bag	Suct./Disch	Shipping
System Number ^{1, 2}	GPH @60Hz	LPH @50 Hz	Pump Series	Pump HP	Max. PSI	Series	Area (sq. ft)	FNPT Conntections (inches)	Weight (lbs)
CGBF12FES215	3,500	11,100	FES	1.5	22	1235	12.0	1 x 1 1/2	220
CGBF19FES215	3,500	11,100	FES	1.5	22	1255	19.5	1 1/2 x 1 1/2	235
CGBF12FES320	4,500	14,200	FES	1.5	29	1235	12.0	1 1/2 x 11/2	230
CGBF19FES320	4,500	14,200	FES	2.0	29	1255	19.5	1 1/2 x 1 1/2	245
CGBF12FES430	5,500	17,400	FES	3.0	35	1235	12.0	1 1/2 x 1 1/2	240
CGBF19FES430	5,500	17,400	FES	3.0	35	1255	19.5	1 1/2 x 1 1/2	240

IMPORTANT: Filter media is ordered seperately. Refer to Bulletin C-307 for 630 & 640 chambers or Bulletin C-308 for 1235 & 1255 chambers.

OPTIONAL

DESCRIPTION	PRICE CODE NO.
MOTOR STARTERS - NEMA 4X Watertight push button	
115 - 230V/1/50-60 230 - 460V/3/50-60	O-MS1P O-MS3P
Add -S to Motor Starter PCN when ordering motor starter for use with DRI-STOP® Pump Protector. i. e. O-MS1P-S	
Important: Specify operating voltage.	
DRI-STOP® PUMP PROTECTOR	
DRI-STOP 2R for use with double mechanical seal pumps. DRI-STOP 3 for use with magnetic drive or single mechanical seal pumps.	O-2DS2R O-DS3C

DESCRIPTION	PRICE CODE NO.	DESCRIPTION	PRICE CODE NO.			
VITON ELASTOMERS		OPERATING VOLTAGE				
Series 'S' chambers	O-SV	1 horsepower & above - Single phase	O-1PH			
Series 'G' chambers	O-GV	Under 1 horsepower - Three phase	O-3PH			
PRIMING CHAMBER		50 Hz OPERATION				
Pump Series B & HC - polypropylene Pump Series HK - Noryl / PVC	O-PC4 O-PC6	Single Phase @ 50 Hz Three phase @ 50 Hz	O-150H O-350H			



¹Listed system includes CPVC chamber and pump
To order system with PVC chamber and CPVC pump, change the C to P in system No.
To order system with polypropylene chamber and pump, change the C to PP in system No.

²Listed system is a Super Space-Saver

For Guardian System (mounted on a flat base) add H to System No.



GUARDIAN® DISC FILTRATION SYSTEMS

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431

For Plating & PCB Manufacturing or wherever efficient particle removal is required



- Flow rates to 8500 GPH @ 60Hz
 (26,800 LPH @ 50Hz)
- Non-metallic solution contact PVC, CPVC, polypropylene
- Standard slurry tank with valves
 Prime pump, mix and add chemicals, rinse or pre-coat filters
- Quiet, efficient centrifugal pumps —
 Single seal, double seal or magnetic-coupled
 Handles most electroplating chemical applications

SERFILCO's Guardian Disc Filtration Systems incorporate all the latest pump, filter and media technology with proven non-metallic materials and manufacturing techniques to provide a truly superior filtration system for your dollar.

Guardian disc filtration systems include many standard features not available on competitive models. Standard systems are built on a rugged corrosion resistant "fork lift friendly" PVC mounting base. The systems include mechanical seal or magnetic-coupled pump and slurry tank with valves. Piping, valves and connections are all CPVC hard pipe with EPDM "O"-rings.

Even with all these features and benefits, the Guardian disc filtration system is competitively priced.

FEATURES

PUMP:

Industry proven Series 'M', Series 'FE' or Series 'F' magnetic coupled pumps are constructed of glass reinforced polypropylene with EPDM 'O'-rings. The Series 'HE' direct drive pump, which is constructed of CPVC with EPDM elastomers, is available with either single or double mechanical seals and features silicon carbide seal faces.

All pump motors are chemical service, continuous duty, TEFC. 3/4" HP systems are 115-230V/1/50-60 Hz while systems 1 HP and above are 230-460V/3/50-60 Hz. All motors have a 1.15 service factor.

FILTER:

The industry proven Series 'G' filter chamber features PVC or all CPVC construction with EPDM elastomers at all connections to assure solution containment. The cover closure uses convenient T-handles with stainless steel hardware.

In addition, a 0-60 psi gauge with guard and gasketed vent valve assembly are standard. The chamber base also includes additional drain ports for convenient servicing.

FILTER DISCS:

Molded high purity polypropylene discs are designed for optimum performance and high dirt loading area. Disc column has a positive O.D. seal and twist lock for easy disc removal. Disc media is available in 5, 10, 20 or 40 micron rating. Carbon impregnated discs are also available.

SLURRY TANK:

The standard polyethylene slurry tank is properly sized for each system and includes all accessory valves to easily accomplish several tasks. The slurry tank and valve package can be used for:

- pre-coat filter aid and / or carbon
- solution make-up or additions
- pump priming

In addition, slurry tanks are adequately sized to store solution during chamber maintenance.





GUARDIAN® DISC FILTRATION SYSTEMS (cont'd)

Systems with polyproplene magnetic drive pump and CPVC or PVC¹ filter chamber

SYSTEM NUMBER	OBU O LBU O		PUMP	PUMP HP ²	PUMP MAX.	NO. OF		FACE	SUCT./DISCH. CONNS.	OVERALL DIM. (In.)	SHIP. WEIGHT
NOMBER	60 Hz	50 Hz	SERIES	1111	PSI	DISCS	ft.²	m²	inches	(l x w x h)	(lbs)
CGD15M210H	3000	9450	М	1.0	24	31	15	1.4	1½ x 1½	50 x 24 x 25	185
CGD30M210H	3000	9450	М	1.0	24	65	30	2.8	1½ x 1½	50 x 24 x 35	195
CGD45M315H	4500	14,175	М	1.5	28	99	45	4.2	1½ x 1½	50 x 24 x 45	205
CGD60FE320H	6000	17,300	FE	2.0	32	130	60	5.6	2 x 1½	66 x 24 x 35	325
CGD90FE430H	6900	18,900	FE	3.0	35	198	90	8.4	2 x 1 ½	66 x 24 x 45	345
CGD90F850H	8500	26,800	F	5.0	45	198	90	8.4	2 x 1 ½	66 x 24 x 45	355
I	I	I	ı	i l	i i		l	I	1		ı

Systems with CPVC single or double seal³ direct drive pump and CPVC or PVC¹ filter chamber

CGD15HE610H	3000	9450	HE	1.0	16	31	15	1.4	2 x 1 ½	50 x 24 x 25	185
CGD30HE610H	3000	9450	HE	1.0	16	65	30	2.8	2 x 1 ½	50 x 24 x 35	195
CGD45HE115H	4500	14,175	HE	1.5	24	99	45	4.2	2 x 1 ½	50 x 24 x 45	205
CGD60HE220H	5500	17,300	HE	2.0	29	130	60	5.6	2 x 1 ½	66 x 24 x 35	325
CGD90HE330H	6000	18,900	HE	3.0	36	198	90	8.4	2 x 2 ½	66 x 24 x 45	345
CGD90HE450H	8500	26,800	HE	5.0	50	198	90	8.4	2 x 2 ½	66 x 24 x 45	355

¹ Listed system includes CPVC chamber.

FILTER DISC MEDIA AND OPTIONS Use Price Code Number to order

FILTER DISC MODEL NUMBER	MICRON RATING	PRICE CODE NUMBER (carton of 100)
CE 5 x 10	5	78-1612
CE 10 x 10	10	78-1613
CE 20 x 10	20	78-1614
CE 40 x 10	40	78-1615
C x 10 Carbon	10	78-1616

PORTABLE OPTION
Pull handle, 2 wheels on axle, and two swivel casters.
PRICE CODE NO.
O-2042

Filter disc media ordered separately.

CARBON PURIFICATION CHAI	MBER O	PTIONS		PRICE
For continuous or batch carbon treatment. Choose carbon of		CAPACITY	CANISTER	CODE NO.
of 7.5 to 42 lbs. Carbon chamber option includes a larger base (24" x 66"), piping and flow control valve. Chamber is P swing bolt cover closure. Internal canisters are PVC, elaston EPDM. For use with granular carbon.	VC with	7.5 lbs. 22.5 lbs. 42 lbs.	single 5" x 28" triple 5" x 28" triple 5" x 48"	O-1528 O-3528 O-3548

Order carbon media from Bulletin M-305

OPTIONAL	ADD TO SYSTEM NO.
Viton® elastomers on filter chamber and pump	V

9

To order system with PVC chamber — change the **C** to **P** in System No. and Model No.

² 1.0 HP and above — three phase standard.

³ To order pump with double mechanical seal — change **HE** to **HED** in System No.



MEGA-FLO® FILTRATION SYSTEMS



COMPACT, HIGH FLOW, EFFICIENT AND DURABLE SYSTEMS DESIGNED TO HANDLE A VARIETY OF SOLUTIONS

METAL FINISHING, CHEMICAL, WATER AND WASTE TREATMENT, FUME SCRUBBER, COOLING TOWER RESERVOIR AND MORE!

FEATURES

- High flow rate 8,500 21,000 GPH
- Non-metallic, corrosion resistant PVC construction CPVC construction

PP high temperature polypropylene construction (See a chemical resistance guide.)

- High capacity to 130 cartridge (455 sq. ft. of solids holding capacity)
- Optional carbon chamber to 84 lb capacity
- Optional 30 gallon slurry tank
- Standard NEMA 4X motor starter with overload protection

BENEFITS

- Easy cartridge change out
- Improve finished goods and process quality, minimize scrap and rework
- Reduce chemical consumption by maintaining solution quality

MEGA-FLO Filtration Systems are compact, high flow, high capacity systems which are corrosion resistant, easy to install and simple to operate.

You can choose PVC, CPVC or PP high temperature polypropylene construction.

Systems are available with a single or double mechanical seal pump or with a magnetic coupled polypropylene pump to meet almost any application. Double seal pumps are recommended for use with solutions having ferrous metal particles, excessive abrasives and for solutions which crystallize when cooled. In addition, the double water flush seal pump is an excellent choice for applications requiring dryrun operation.

Filter chambers feature rugged machined construction with oversized ports for low pressure differential. Low pressure drop and high surface area (solids holding capacity) mean long periods of high flow, continuous dirt removal between cartridge changes.

Select a system which will provide 7.0-10.5 square ft. of solids holding area per 100 gallons of solution. Flow rate should be 2 - 10 tank turnovers per hour. Coarse media and high flows are desirable for high dirt load applications. Increasing the number of cartridges reduces solution flow per cartridge, improves efficiency and reduces cartridge consumption.





MEGA-FLO Specifications and Ordering Information

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431

Standard MEGA-FLO systems include:

- PVC, CPVC or polypropylene construction.
- Corrosion resistant mounting base.
- Stainless steel external hardware and fasteners.
- · Swing bolt chamber closure.

- Flange connections.
- PSI gauge guard assembly and vent valve.
- NEMA4X watertight motor starter with overload protection.
- 230-460V/3/50-60 Hz, TEFC motors

SYSTEM: MEGA-FLO filtration systems are built on a rugged hooded base assembly which protects the pump motor and supports the filter chamber. This design allows maximum filtration performance while requiring minimal floor space.

PUMP: Your choice — Series 'HE', 'HF' or 'F'. Series 'HE' and 'HF' single or double seal pumps are available in CPVC or PPP polypropylene. Both 'HE' and 'HF' pumps feature EPDM elastomers and silicon carbide seals. Double seal pumps include pump protector.

Series 'F' 2 x 2 magnetic-coupled pumps are constructed of glass reinforced polypropylene with Viton® 'O'-ring.

All pump motors are chemical service, continuous duty, TEFC with two-part epoxy paint. Motors are 230-460V/3/50-60Hz with 1.15 service factor.

FILTER: Choice of PVC, CPVC or polypropylene construction. Accommodates 130 cartridges for PVC or CPVC and 110 cartridges for PP. Rugged machined shell, base and cover provide non-metallic solution contact.

The cover includes a stainless steel reinforcing plate and lift handles. The chamber includes a 0 - 60 PSI gauge guard assembly, vent valve assembly and EPDM elastomers.

POLYPROPYLENE CHAMBER WITH MAGNETIC DRIVE OR MECHANICAL SEAL PUMP

SYSTEM NUMBER	FLOW GPH @ 60 Hz	MEDIA	PUMP HP	PUMP TYPE **	FLANGE CONNS. SUCT. x DISCH.	DIMENSIONS L x W x H	SHIPPING WEIGHT Lbs.			
66 CARTRIDG	66 CARTRIDGE SYSTEMS (231 s. f. *)									
PPJ66F2750	8,500	22 - 30"	5.0	F	3" x 3"	30" x 24" x 70"	300			
PPJ66HE450	9,000	22 - 30"	5.0	HE	3" x 3"	30" x 24" x 70"	300			
PPJ66HF175	12,000	22 - 30"	7.5	HF	3" x 3"	30" x 24" x 70"	315			
PPJ66HF210	18,000	22 - 30"	10.0	HF	3" x 3"	30" x 24" x 70"	340			
88 CARTRIDG	E SYSTE	MS (308 s. f. '	*)							
PPJ88F2750	8,500	22 - 40"	5.0	F	3" x 3"	30" x 24" x 80"	320			
PPJ88HE450	9,000	22 - 40"	5.0	HE	3" x 3"	30" x 24" x 80"	320			
PPJ88HF175	12,000	22 - 40"	7.5	HF	3" x 3"	30" x 24" x 80"	335			
PPJ88HF210	18,000	22 - 40"	10.0	HF	3" x 3"	30" x 24" x 80"	360			
110 CARTRIDO	GE SYSTE	EMS (385 s. f.	*)							
PPJ110F2750	8,500	22 - 20" + 30"	5.0	F	3" x 3"	30" x 24" x 90"	340			
PPJ110HE450	9,000	22 - 20" + 30"	5.0	HE	3" x 3"	30" x 24" x 90"	340			
PPJ110HF175	12,000	22 - 20" + 30"	7.5	HF	3" x 3"	30" x 24" x 90"	355			
PPJ110HF210	18,000	22 - 20" + 30"	10.0	HF	3" x 3"	30" x 24" x 90"	380			
PPJ110HF315	21,000	22 - 20" + 30"	15.0	HF	3" x 3"	30" x 24" x 90"	405			

^{*} s. f. is square feet of surface area or solids holding capacity using Valuwound or Maxi-Depth filter cartridges. (See Bulletin M-109.) Order cartridges separately.



^{**} To order double seal pump, change **HE** to **HED** or **HF** to **HFD** in Price Code Number.



MEGA-FLOW Specifications and Ordering Information

PVC OR CPVC¹ CHAMBER WITH MAGNETIC DRIVE OR MECHANICAL SEAL PUMP

SYSTEM NUMBER	FLOW GPH @ 60 Hz	MEDIA	PUMP HP	PUMP TYPE **	FLANGE CONNS. SUCT. x DISCH.	DIMENSIONS L x W x H	SHIPPING WEIGHT Lbs.
52 CARTRID	GE SYST	EMS (182 s. ·	f. *)				
PJ52F2750	8,500	26 - 20"	5.0	F	3" x 3"	30" x 24" x 56"	280
PJ52F2910	12,000	26 - 20"	10.0	F	3" x 3"	30" x 24" x 56"	295
PJ52HE450	9,000	26 - 20"	5.0	HE	3" x 3"	30" x 24" x 56"	280
PJ52HF175	12,000	26 - 20"	7.5	HF	3" x 3"	30" x 24" x 56"	295
PJ52HF210	18,000	26 - 20"	10.0	HF	3" x 3"	30" x 24" x 56"	320
PJ52HF315	21,000	26 - 20"	15.0	HF	3" x 3"	30" x 24" x 56"	345
	1 1	EMS (273 s.			l ou ou I		I
PJ78F2750	8,500	26 - 30"	5.0	F	3" x 3"	30" x 24" x 66"	300
PJ78F2910	12,000	26 - 30"	10.0	F	3" x 3"	30" x 24" x 66"	315
PJ78HE450	9,000	26 - 30"	5.0	HE	3" x 3"	30" x 24" x 66"	300
PJ78HF175	12,000	26 - 30"	7.5	HF	3" x 3"	30" x 24" x 66"	315
PJ78HF210	18,000	26 - 30"	10.0	HF	3" x 3"	30" x 24" x 66"	340
PJ78HF315	21,000	26 - 30"	15.0	HF	3" x 3"	30" x 24" x 66"	365
104 CARTRII	DGE SYS	TEMS (364 s	. f. *)				
PJ104F2750	8,500	26 - 40"	5.0	F	3" x 3"	30" x 24" x 76"	320
PJ104F2910	12,000	26 - 40"	10.0	F	3" x 3"	30" x 24" x 76"	335
PJ104HE450	9,000	26 - 40"	5.0	HE	3" x 3"	30" x 24" x 76"	320
PJ104HF175	12,000	26 - 40"	7.5	HF	3" x 3"	30" x 24" x 76"	335
PJ104HF210	18,000	26 - 40"	10.0	HF	3" x 3"	30" x 24" x 76"	360
PJ104HF315	21,000	26 - 40"	15.0	HF	3" x 3"	30" x 24" x 76"	385

130 CARTRIDGE SYSTEMS (455 s. f. *)

		(,				
PJ130F2750	8,500	26 - 20" + 30"	5.0	F	3" x 3"	30" x 24" x 86"	340
PJ130F2910	12,000	26 - 20" + 30"	10.0	F	3" x 3"	30" x 24" x 86"	355
PJ130HE450	9,000	26 - 20" + 30"	5.0	HE	3" x 3"	30" x 24" x 86"	340
PJ130HF175	12,000	26 - 20" + 30"	7.5	HF	3" x 3"	30" x 24" x 86"	355
PJ130HF210	18,000	26 - 20" + 30"	10.0	HF	3" x 3"	30" x 24" x 86"	380
PJ130HF315	21,000	26 - 20" + 30"	15.0	HF	3" x 3"	30" x 24" x 86"	405



Listed systems include PVC chamber. To order system with CPVC chamber — change **P** to **C** in system number

^{*} s. f. is square feet of surface area or solids holding capacity using Valuwound or Maxi-Depth filter cartridges. (See Bulletin M-109.) Order cartridges separately.

^{**} To order double seal pump, change **HE** to **HED** or **HF** to **HFD** in Price Code Number.

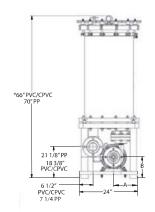


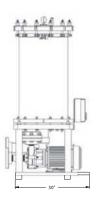
MEGA-FLO Dimensions and Options

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PUMP / HP	Α	В
'HE' / 5.0	12-1/4"	8"
'F' / 5.0	12-3/16"	7-3/4"
'F' / 10.0	12-3/16"	7-3/4"
'HF' / 7.5	9-1/2"	8-3/4"
'HF' / 10.0	9-1/2"	8-3/4"
'HF' / 15.0	9-1/2"	8-3/4"

* Overall height dimension reflects 30" chamber. Add 10" for 40" chamber, add 20" for 50" chamber and subtract 10" for 20" chamber.

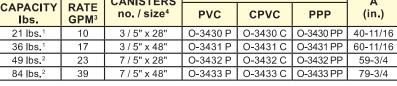




OPTIONS

Carbon Purification Chambers: Providing a convenient, economical and efficient means of continuous or periodic organic removal, these chambers feature PVC, CPVC or polypropylene construction for bulk granular carbon. PVC chamber has PVC internal canisters while CPVC and PP chambers have polypropylene canisters. Chambers include flow control valve, EPDM elastomers and all piping. Order carbon separately (See Bulletin M-305).

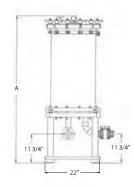
CARBON	FLOW	CANISTERS	PRI	PRICE CODE NO.				
CAPACITY Ibs.	RATE GPM ³	no. / size4	PVC	CPVC	PPP	A (in.)		
21 lbs. ¹	10	3 / 5" x 28"	O-3430 P	O-3430 C	O-3430 PP	40-11/16		
36 lbs. ¹	17	3 / 5" x 48"	O-3431 P	O-3431 C	O-3431 PP	60-11/16		
49 lbs. ²	23	7 / 5" x 28"	O-3432 P	O-3432 C	O-3432 PP	59-3/4		
84 lbs. ²	39	7 / 5" x 48"	O-3433 P	O-3433 C	O-3433 PP	79-3/4		

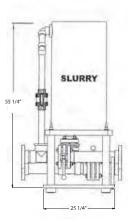


- ¹ Chamber mounted on MEGA-FLO base (add 16" to length)
- ² Stand alone component as shown
- ³ Maximum recommended flow U.S. GPM
- ⁴ PP canisters are less than 5" dia with 15% less capacity.

Slurry Tank: Useful for chemical mixing / additions, precoating or pump priming, this chamber is constructed of PVC, CPVC or polypropylene and has a 30 gallon capacity. Includes 4 valves and all necessary piping.

FOR USE WITH	MAXIMUM	PRICE CODE NO.				
PUMP TYPE:	LIFT	PVC	CPVC	PP		
'HE'		88-3420-3P	88-3420-3C	88-3420-3PP		
'F'	4 ft.	88-3429-3P	88-3429-3C	88-3429-3PP		
'HF'		88-3430-3P	88-3430-3C	88-3430-3PP		









System shown with

optional 1528 carbon chamber

SENTRY® FILTRATION PURIFICATION SYSTEMS

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431

FOR THOSE WHO DEMAND THE FINEST IN PARTICLE RETENTION

ELECTROPLATING / CHEMICAL / PCB
PETROCHEMICAL / WATER TREATMENT
PHARMACEUTICAL / PHOTOGRAPHIC

FEATURES:

- Flow rates: 7,200 to 19,000 GPH @ 60 Hz
- · Cartridge or horizontal disc
- Solids loading area:
 420, 630 or 840 sq. ft. using cartridges
 60, 78 or 105 sq. ft. using discs

OPTIONAL —

Slurry tank with 3 additional flow control valves for pump priming, precoating and . . . **Carbon purification chamber** for organics removal

These filtration systems include design features gained through more than 50 years of experience in developing chemically resistant pumps, filter chambers and systems. High flow rates to quickly remove particles, together with large surface area for solids loading are combined to provide extended operating life of solutions and improve product quality. A wide choice of media is available to best serve your application. Optional carbon chamber and slurry tank make the system extremely versatile.

Sentry filtration systems are engineered to provide efficient removal of particles or organic impurities from a wide range of chemical and plating solutions to 160°F. Chambers and pumps feature non-metallic solution contact. All external steel surfaces are painted two-part epoxy grey enamel. All internals are CPVC.





The following pages contain a representative sampling of available standard systems.

SENTRY FILTRATION / PURIFICATION SYSTEMS with seal-less magnetic drive pumps

F-404_B

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431

CHOOSE YOUR SYSTEM

FIRST, SELECT

Seal-less Magnetic-Coupled Pump

Systems may be selected with magnetic-coupled pumps which provide protection from vapor and liquid leaks. Pumps are available in polypropylene to meet a variety of chemical and temperature applications.

OR SELECT

Single or Double Seal Pump

Systems with mechanical seals should be selected whenever excessive abrasives or ferrous metal particles are present. Standard single and double seal pumps are CPVC and feature silicon carbide (SiC) seal faces with EPDM elastomers.



THEN SELECT

Filter Chamber for solids holding capacity*

Chambers are constructed of rubber lined steel for acid solutions. They accept Maxi-Depth® wound, pleated, cleanable sleeve, or carbon cartridges. **

Chambers allow for simultaneous filtration and purification by using carbon cartridges. A separate purification chamber with flow control valve is available.

- * Select a system which will provide 3.5 7.0 square ft. of solids holding area per 50 gallons of solution. Flow rate should be 2-10 tank turnovers per hour, depending on clarity desired. Coarse media and high flows are desirable for high dirt load applications. Increasing the number of cartridges reduces solution flow per cartridge, improves efficiency and reduces cartridge consumption. System comes complete with flow control valve between pump and filter chamber. When unit is de-energized, flow control valve may be closed to maintain prime during media change.
- ** Chambers provided with the following Series 'CR' systems are for cartridges.

To specify system for use with discs –

Change CR1200 in System No. to DR60

Change CR1800 in System No. to DR78

or Change CR2400 in System No. to DR105

RUBBER LINED CHAMBER with MAGNETIC DRIVE POLYPROPYLENE PUMP

Pump includes fluoride-resistant ceramic spindle with EPDM elastomers.



SYSTEM NUMBER		FLOW RATE GPH @ 60Hz	PUMP	NO. OF CARTS.	AREA 2		SUCT./ DISCH. CONN.	LxWxH	SHIP. WT. Lbs.
CR1200F6	50	7200	30	120	420			48 x 48 x 64	1300
CR1800F6	550	7200	30	180	630	F, 5, CR	2"	48 x 48 x 72	1400
CR2400F6	50	7200	30	240	840			48 x 48 x 87	1600

SYSTEM NUMBER			NO. OF CARTS.	AREA 2	,	SUCT/ DISCH. CONN.	DIMS. LxWxH Inches	SHIP WT Lbs
CR1200F850	9600	45	120	420			48 x 48 x 64	1325
CR1800F850	9600	45	180	630	F, 5, CR	2"	48 x 48 x 72	1425
CR2400F850	9600	45	240	840			48 x 48 x 87	1625

SYSTEM NUMBER		PUMP	NO. OF CARTS.	AREA 2	,	SUCT./ DISCH. CONN.	LxWxH	SHIP. WT. Lbs.
CR1200F910	12000	55	120	420			48 x 48 x 64	1365
CR1800F910	12000	55	180	630	F, 10.0, CR	3"	48 x 48 x 72	1465
CR2400F910	12000	55	240	840			48 x 48 x 87	1665



SENTRY FILTRATION / PURIFICATION SYSTEMS with single or double mechanical seal pumps*

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431

RUBBER LINED CHAMBER with DIRECT DRIVE CPVC PUMP

Pump includes silicon carbide mechanical seal with EPDM elastomers.

SYSTEM NUMBER	FLOW RATE GPH @ 60Hz	MAX. PUMP PSI	NO. OF CARTS. ¹	SOLIDS AREA ² Sq. ft.	PUMP, HP, CHAMBER	SUCT./ DISCH. CONN.	DIMS. LxWxH Inches	SHIP WT. Lbs.		
CR1200HE330	7500	36	120	420					48 x 48 x 64	1300
CR1800HE330	7500	36	180	630	HE, 3, CR	2"	48 x 48 x 72	1400		
CR2400HE330	7500	36	240	840			48 x 48 x 87	1600		

SYSTEM NUMBER	FLOW RATE GPH @ 60Hz	MAX. PUMP PSI	NO. OF CARTS. ¹	SOLIDS AREA ² Sq. ft.	PUMP, HP, CHAMBER	SUCT/ DISCH. CONN.	DIMS. LxWxH Inches	SHIP. WT. Lbs.
CR1200HE450	8500	50	120	420			48 x 48 x 64	1325
CR1800HE450	8500	50	180	630	HE, 5, CR	2"	48 x 48 x 72	1425
CR2400HE450	8500	50	240	840			48 x 48 x 87	1625

SYSTEM NUMBER	FLOW RATE GPH @ 60Hz	MAX. PUMP PSI	NO. OF CARTS. ¹	SOLIDS AREA ² Sq. ft.	PUMP, HP, CHAMBER	SUCT./ DISCH. CONN.	DIMS. LxWxH Inches	SHIP. WT. Lbs.
CR1200HE575	9600	60	120	420			48 x 48 x 64	1365
CR1800HE575	9600	60	180	630	HE, 7.5, CR	2"	48 x 48 x 72	1465
CR2400HE575	9600	60	240	840			48 x 48 x 87	1665

SYSTEM NUMBER	FLOW RATE GPH @ 60Hz	MAX. PUMP PSI	NO. OF CARTS. ¹	SOLIDS AREA ² Sq. ft.	PUMP, HP, CHAMBER	SUCT./ DISCH. CONN.	DIMS. LxWx H Inches	SHIP. WT. Lbs.
CR1200H875	15000	27	120	420	U 7 5 OD		48 x 48 x 72	1475
CR1800H875	15000	27	180	630	H, 7.5, CR	3"	48 x 48 x 87	1675
CR2400H510	19000	50	240	840	H, 10, CR		48 x 48 x 87	1750



NOTE:

- * To order pump with double mechanical seal - Change **HE** to **HED** or **H** to **HD** in System No.
- ¹ No. of 10" cartridges. Order separately. See Bulletin M-109.
- ² With Maxi-Depth cartridges. See Bulletin M-109.

SENTRY systems include:

- Stationary steel mounting base coated with corrosion resistant 2-part epoxy paint.
- Motors are 230-460V/3/50-60, TEFC, 1725 or 3450 RPM.
 Systems wired for 230V/3/60 unless otherwise specified.
- Piping is solvent sealed CPVC, with EPDM "O"-rings at threaded connections.
- O-60 PSI pressure gauge with gauge guard.
- Two flow control valves one between pump and filter, second at filter discharge.
- Ball valves are solvent sealed CPVC at filter inlet and outlet.
- Capped tee on filter inlet and outlet for drains or field installation of bulk carbon.
- CPVC vent valve assembly.
- 1" drain valve on filter.

6

Available for all models:

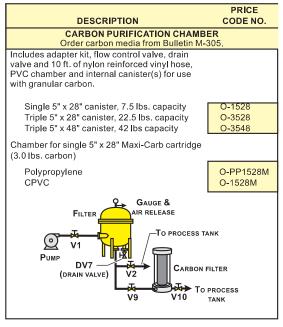
Granular carbon purification chamber installed on filter discharge with flow control valve is an available option. This allows filtered solution to pass through the activated carbon on a convenient "ON-OFF" basis before returning to the process tank. In addition to pump priming and chemical mixing, optional slurry tank with three additional valves allows precoating of media with filter aid and/or carbon. See Optional on the next page.

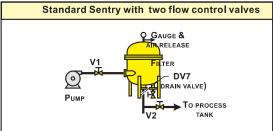


SENTRY FILTRATION / PURIFICATION SYSTEMS (cont'd.)

OPTIONS

DESCRIPTION	PRICE CODE NO.							
MOTOR STARTERS - NEMA 4X Watertight p	ush button							
230 - 460V/3/50-60 (3 - 7.5 H.P.) 230 - 460V/3/50-60 (10 - 15 H.P.) NOTE: Specify operating voltage	O-MS3P O-MS3P-S							
O-MS3P-S is required for any size system ordered with a DRI-STOP® Pump Protector.								
DRI-STOP® PUMP PROTECTOR								
DRI-STOP 2R for use with double mechanical seal pumps.	O-2DS2R							
DRI-STOP 3 for use with magnetic drive or single mechanical seal pumps.	O-DS3C							
DAVIT COVER LIFT								
For Model: DR78 / CR180 DR105 / CR240	78-1603 78-1604							
SLURRY TANK and VALVES	PRICE CODE NO.							
For chemical mixing, pump priming or precoating. Includes polyethylene tank, three additional CPVC flow control valves, steel frame. Completely piped and assembled with	CODE NO.							
filter and pump on a standard base. 30 gal. slurry w/3 add'l valves 60 gal. slurry w/3 add'l valves	O-SV3-30 O-SV3-60							
DVI (BICAIR VALUE)	ROCESS							





DISC MEDIA

SENTRY FILTRATION SYSTEMS									
CART	RIDGE	DISC							
MODEL	SOLIDS AREA Square feet	MODEL	SOLIDS AREA Square feet						
CR1200 CR1800 CR2400	420 630 840	DR60 DR78 DR105	60 78 105						

FILTER DISCS, CELLULOSE Packaged in carton of 250							
DISC MODEL MICRON PRICE CODE NO.							
CE5x24	5	78-1420					
CE10x24	10	78-1421					
CE20x24	20	78-1422					
CE40x24	40	78-1423					



SERIES 'M' FILTRATION SYSTEMS

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431

STAINLESS STEEL OR STEEL

FOR: CLEANERS, RINSES, QUENCH, CUTTING AND HYDRAULIC OILS



FEATURES

- · High flow rates to 9,000 GPH
- Wide selection of standard systems including self-priming models
- Filter area from 15 to 60 square feet
- Uses standard 10", 20" or 30" double open end (DOE) cartridges
- Rugged construction, all hard piped and mounted on a vinyl coated steel base
- Compact! More flow and surface area than many systems of similar dimensions
- Easy to operate standard flow control valve, pressure gauge and vent valve assembly

BENEFITS

- Improve finished goods quality, minimize scrap and rework
- Extend process solution life with continuous dirt removal
- Minimize downtime for tank maintenance and sludge removal with high flow, large surface area
- · Protect heaters and other in-tank equipment
- Economical to operate highly durable and efficient cast centrifugal pumps and low PSI drop chambers with easy cartridge change
- Low installation cost pre-packaged systems offer more flow and surface area than competitive models

SPECIFICATIONS

SYSTEM:

Models consist of a filter chamber, a cast centrifugal single or double seal pump, TEFC motor, flow control valve, piping, vent valve and pressure gauge, all mounted on a rugged vinyl coated steel base.

PUMP:

The Series 'HCI' (cast iron) and 'HSS' (cast 316 stainless steel) horizontal pumps feature a compact, close-coupled design. A high efficiency, semi-open impeller minimizes clogging and, since the components are cast, there are no welds to break. Also, cast construction provides corrosion resistance that is superior to welded styles.

The self-priming Series 'SP' pumps are constructed of cast iron for dependable duty in a variety of applications. The pumps include a 316 stainless steel shaft, 316 stainless steel fasteners, and cast iron mounting bracket.

They feature a semi-open impeller which is also constructed of 316 stainless steel.

Standard pump elastomers are EPDM. Viton® is available. Motors are TEFC, 208-230-460V, 3Ø, 3450 RPM @ 60 Hz or 380-415V, 3Ø, 2850 RPM @ 50 Hz. Specify operating voltage when ordering.

FILTER CHAMBER:

Constructed of 304 stainless steel or carbon steel with an external coat of 2-part epoxy grey paint. The chamber gasket is Buna-N. Chamber features 100 PSI design with oversized inlet and outlet connections to minimize pressure drop. Available for 5 - 10", 20" or 30" double open end cartridges providing 17.5, 35 or 52.5 square feet of dirt holding capacity respectively. Single bolt V-clamp cover closure allows quick and easy media change.





Specifications and Ordering Information

SPECIFICATIONS and ORDERING INFORMATION										
SYSTEM NUMBER ¹	FLOW GPH @ 60 Hz	MAX. PUMP PSI	PUMP HP	MEDIA	SURFACE AREA Sq. Ft. ⁴	CONNECTIONS SUCTION x DIS- CHARGE ²	DIMENSIONS L x W x H	SHIPPING WEIGHT. Lbs.		

STAINLESS STEEL or STEEL SYSTEMS³

SS10HSS110H	2,500	21	1.0	5 - 20"	35	1¼" x 2"	30" x 13" x 39"	150
SS15HSS110H	2,500	21	1.0	5 - 30"	52.5	11/4" x 2"	30" x 13" x 49"	160
SS10HSS315H	3,500	30	1.5	5 - 20"	35	1¼" x 2"	30" x 13" x 39"	155
SS15HSS315H	3,500	30	1.5	5 - 30"	52.5	1¼" x 2"	30" x 13" x 49"	165
SS10HSS420H	4,000	34	2.0	5 - 20"	35	1¼" x 2"	30" x 13" x 39"	170
SS15HSS420H	4,000	34	2.0	5 - 30"	52.5	1¼" x 2"	30" x 13" x 49"	180
SS10HSS520H	4,500	40	2.0	5 - 20"	35	11/4" x 2"	30" x 13" x 39"	170
SS15HSS520H	4,500	40	2.0	5 - 30"	52.5	11/4" x 2"	30" x 13" x 49"	180
SS10HSS715H	5,500	20	1.5	5 - 20"	35	2" x 2"	30" x 13" x 39"	165
SS15HSS715H	5,500	20	1.5	5 - 30"	52.5	2" x 2"	30" x 13" x 49"	175
SS15HSS820H	7,500	30	2.0	5 - 30"	52.5	2" x 2"	30" x 13" x 49"	190
SS15HSS930H	9,000	36	3.0	5 - 30"	52.5	2" x 2"	30" x 13" x 49"	195

STEEL SYSTEMS (SELF-PRIMING)

	•	•						
S10SP10H	3,500	24	1.0	5 - 20"	35	1½" x 2"	30" x 13" x 39"	160
S15SP10H	3,500	24	1.0	5 - 30"	52.5	1½" x 2"	30" x 13" x 49"	170
S10SP15H	4,500	32	1.5	5 - 20"	35	1½" x 2"	30" x 13" x 39"	180
S15SP15H	4,500	32	1.5	5 - 30"	52.5	1½" x 2"	30" x 13" x 49"	190
S10SP20H	6,500	34	2.0	5 - 20"	35	1½" x 2"	30" x 13" x 39"	185
S15SP20H	6,500	34	2.0	5 - 30"	52.5	1½" x 2"	30" x 13" x 49"	195
S10SP30H	7,500	37	3.0	5 - 20"	35	1½" x 2"	30" x 13" x 39"	195
S15SP30H	7,500	37	3.0	5 - 30"	52.5	1½" x 2"	30" x 13" x 49"	205

¹ To order double mechanical water flush seal, change **HSS** to **HSSD** or **HCI** to **HCID** in System No.

OPTIONAL EQUIPMENT

DESCRIPTION	PRICE CODE NO.
MOTOR STARTER - Assembled & installed Specify operating voltage. Watertight NEMA 4X magnetic push-button with overload protection. For Start / Stop operation	O-MS3P
As above, but includes low voltage control circuit required for use with Dri-Stop 2R	O-MS3P-S

DESCRIPTION	PRICE CODE NO.
Dri-Stop [©] 2R	
Recommended for use with double mechanical water flush seal pump. Automatically de-energizes pump motor when cooling water flow is interrupted. Eliminates costly dry run repairs. Requires MS3P-S motor starter, electric and water source.	O-2DS2R

² FNPT x FNPT.

³ To order steel system, change SS to S and HSS to HCI in System No.

With 2½" diameter nominal string wound filter cartridges.
 Order media separately. Refer to Bulletin M-109.

KNIGHT FILTRATION SYSTEMS



STEEL OR STAINLESS STEEL CONSTRUCTION

FEATURES

- Flow rates 1,500 9,000 GPH @ 60 Hz (7,875 28,350 LPH @ 50 Hz)
- Heavy duty cast 316 SS or cast iron centrifugal single or double seal pumps 1.0 - 5.0 HP (.75 - 3.2 kW)
- Heavy duty filter chambers carbon steel, 304SS or 316SS (rated to 150 PSI)
- High filter surface area (to 280 sq. ft solids loading area)
- Flow control valve between pump and filter chamber
- Differential, drain and vent ports standard on filter system chamber
- For use with stainless steel or polypropylene media (See Bulletins M-109 and M-309.)

The SERFILCO KNIGHT filtration systems feature the most durable pumps and filter chambers in our product line. They are designed to provide years of trouble-free service in demanding applications. The KNIGHT systems are intended for use where thermoplastic systems are unsuitable due to chemical and / or temperature limitations.

SYSTEM:

Models offer a choice of 304 or 316 stainless steel filter chamber with a cast centrifugal 316SS pump, or a carbon steel filter chamber with cast iron pump. Systems include a flow control valve between pump and filter, piping and 0-60 PSI pressure gauge, all mounted on a rugged vinyl coated steel base plate.

FILTER CHAMBER:

The series 'K' filter chamber is available in carbon steel, 304 stainless steel, or 316 stainless with an EPDM cover gasket (Viton optional). The chamber is 150 PSI design with quick swing closure, and also includes differential, drain and vent parts.

PUMP:

The series 'HSS', cast 316 stainless steel, or 'HCl', cast iron, centrifugal pumps feature a compact, close-coupled design. A high efficiency, semi-open impeller minimizes clogging, and since the components are cast, there are no welds to break. Also, cast construction provides corrosion resistance that is superior to welded styles.

The pump is available with a single seal or with a double seal which uses external liquid as a flush. Motors are TEFC, 208-230-460V, 3ø, 3450 RPM, 60 Hz.





KNIGHT Filtration Systems Specifications & Ordering Information

F-217_A

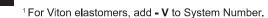
The following systems and specifications depict a representative sampling of the Knight product line. Standard systems are shown for stainless steel or carbon steel construction. Stainless steel systems have a 304SS or 316SS filter chamber with a 316SS pump. Carbon steel systems have a carbon steel filter chamber with a cast iron pump. EPDM elastomers are standard for both.

Consult Sales Department for systems with selfpriming pumps or for special systems featuring titanium pumps, Teflon lined chambers and special seals for use with external applications such as black oxide.

SPECIFICATIONS AND ORDERING INFORMATION

304 stainless steel chamber with 316SS pump- single mechanical seal

CVCTEM	FL	FLOW		DUMP		SUR-	CONNECTIONS	DIMENSIONS	SHIPPING
SYSTEM NUMBER ^{1,2,3}	GPH@ 60 Hz	LPH@ 50 Hz	PUMP PSI	PUMP HP	MEDIA	FACE AREA sq. ft.*	SUCTION X DISCHARGE	DIMENSIONS L x W x H	WEIGHT lbs.
K4S6HSS110 K4S9HSS110 K4S12HSS110	1,500	4,725	21	1.0	3 - 20 " 3 - 30 " 3 - 40 "	21 32 42	1¼" NPT x 1½" NPT	30 x 13 x 37" 30 x 13 x 47" 30 x 13 x 57"	145 170 195
K4S12HSS215 K4S18HSS215	2,500	7,875	26	1.5	6 - 20 " 6 - 30 "	42 63	1¼" NPT x 2" NPT	33 x 18 x 37" 33 x 18 x 47"	180 205
K4S18HSS420 K4S24HSS420	3,500	11,025	30	2.0	6 - 30 " 6 - 40 "	63 84	1¼" NPT x 2" NPT	33 x 18 x 47" 33 x 18 x 57"	215 240
K4S18HSS620 K4S24HSS620	4,500	14,175	19	2.0	6 - 30 " 6 - 40 "	63 84	2" NPT x 2" NPT	33 x 18 x 47" 33 x 18 x 57"	225 250
K4S33HSS730 K4S44HSS730	7,500	23,625	28	3.0	11 - 30 " 11 - 40 "	116 154	2" NPT x 3" F	50 x 18 x 73" 50 x 18 x 83"	540 550
K4S44HSS950 K4S60HSS950 K4S80HSS950	9,000	28,350	32	5.0	11 - 40 " 20 - 30 " 20 - 40 "	154 210 280	2" NPT x 3" F	50 x 18 x 83" 50 x 18 x 74" 50 x 18 x 84"	550 610 620



² For 316 stainless steel filter chamber change K4s to K6s in System Number.

Motors are TEFC, 230-460V/3ø/60 Hz. Consult Sales Dept. for explosion-proof, 50 Hz or 1ø motors.

³ For double mechanical seal pump change HSS to HSSD in System Number.

^{*} with 2½" diameter nominal string wound cartridges. Order media separately. Refer to Bulletins M-109 and M-309.

KNIGHT Filtration Systems Specifications & Ordering Information F-217_A

Carbon steel chamber with cast iron pump – single mechanical seal

SYSTEM		FLOW		FLOW		FLOW				PUMP		SURFACE	CONNECTIONS	DIMENSIONS	SHIPPING
NUMBER ^{1,2}	GPH@ 60 Hz	LPH@ 50 Hz	PUMP PSI	HP	MEDIA	AREA sq. ft.*	SUCTION X DISCHARGE	L x W x H	WEIGHT lbs.						
KS6HCI110 KS9HCI110 KS12HCI110	1,500	4,725	21	1.0	3 - 20 " 3 - 30 " 3 - 40 "	21 32 42	1 ¹ / ₄ " NPT x 1 ¹ / ₂ " NPT	30 x 13 x 37" 30 x 13 x 47" 30 x 13 x 57"	145 170 195						
KS12HCl215 KS18HCl215	2,500	7,875	26	1.5	6 - 20 " 6 - 30 "	42 63	1 ¹ / ₄ " NPT x 2" NPT	33 x 18 x 37" 33 x 18 x 47"	180 205						
KS18HCl420 KS24HCl420	3,500	11,025	34	2.0	6 - 30 " 6 - 40 "	63 84	1 ¹ / ₄ " NPT x 2" NPT	33 x 18 x 47" 33 x 18 x 57"	215 240						
KS18HCl620 KS24HCl620	4,500	14,175	19	2.0	6 - 30 " 6 - 40 "	63 84	2" NPT x 2" NPT	33 x 18 x 47" 33 x 18 x 57"	225 250						
KS33HCI730 KS44HCI730	7,500	23,625	28	3.0	11 - 30 " 11 - 40 "	116 154	2" NPT x 3" F	50 x 18 x 73" 50 x 18 x 83"	510 520						
KS44HCI950 KS60HCI950 KS80HCI950	9,000	28,350	39	5.0	11 - 40 " 20 - 30 " 20 - 40 "	154 210 280	2" NPT x 3" F	50 x 18 x 83" 50 x 18 x 74" 50 x 18 x 84"	520 580 590						

¹ For Viton elastomers, add **-V** to System Number.

Motors are TEFC, 230-460V/3ø/60 Hz. Consult Sales Dept. for explosion-proof, 50 Hz or 1ø motors.

OPTIONAL EQUIPMENT

DESCRIPTION	PRICE CODE NO.
MOTOR STARTER - Assembled & installed Specify operating voltage. Watertight NEMA 4X magnetic push-button with overload protection.	
For Start / Stop operation	O-MS3P
As above, but includes low voltage control circuit required for use with Dri-Stop 2R	O-MS3P-S

DESCRIPTION	PRICE CODE NO.
Dri-Stop [©] 2R	
Recommended for use with double mechanical water flush seal pump. Automatically de-energizes pump motor when cooling water flow is interrupted. Eliminates costly dry run repairs. Requires MS3P-S motor starter, electric and water source.	O-2DS2R



 $^{^{\}rm 2}\,$ For double mechanical seal pump change HCI to HCID in System Number.

^{*} with 2½" diameter nominal string wound cartridges. Order media separately. Refer to Bulletins M-109 and M-309.

F-501 P

ADMIRAL® FILTRATION SYSTEMS

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431



COMPACT, ECONOMICAL FILTRATION AND PURIFICATION

FOR IN-TANK OR OUT-OF-TANK INSTALLATION

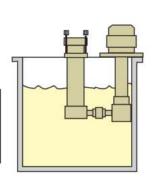
Admiral filtration systems are available for a wide range of tank sizes from laboratory scale to large production requirements. Corrosion resistance is achieved by the use of a variety of engineering plastics such as CPVC, PVC, PP and PVDF with stainless steel external parts.

- Flow rates to 7000 GPH (31,500 LPH @ 50Hz)
- Non-metallic solution contact PVC, CPVC, Polypropylene or PVDF systems available EPDM elastomers (Viton optional)
- Runs dry without damage
- Rugged construction designed for minimum maintenance

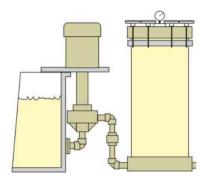
NOTE:

Hose, pipe and fittings required to connect the pump to the filter chamber and plumb to the tank must be ordered separately. Request Bulletin A-213.

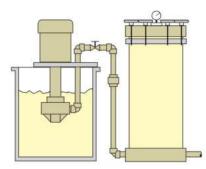
TYPICAL INSTALLATIONS



PUMP AND FILTER IN TANK



PUMP AND FILTER OUT OF TANK



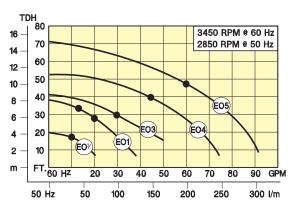
PUMP IN TANK AND FILTER OUT OF TANK

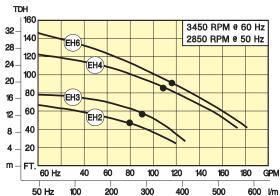


ADMIRAL Filtration Systems Performance and Specifications

F-501 P

PERFORMANCE





Realistic flow points

SPECIFICATIONS To order, use System No.

CPVC filter chamber with CPVC pump ¹

SYSTEM	PUMP	SYSTEM		FILTE	R CHAMBER	MOTOR ²	IN/ OUT	WEIGHT
NUMBER	SERIES &CURVE	GPH	LPH	SERIES	CARTRIDGES	HP	(In. NPT)	Lbs.
CLEO1/8 CL2EO1/8	EO3/4	600	1,900	L	1 - 10" 1 - 20"	1/8	1 x 3/4	25 30
CL2EO103 CL3EO103	EO1	900	2,800	L	1 - 20" 1 - 30"	0.3	11/4 x 1	45 50
CS3EO103 CS6EO103	EO1	1,200	3,750	S	3 - 10" 3 - 20"	0.3	11/4 x 1	55 65
CS6EO308 CS9EO308 CS12EO308	EO3	1,800	5,600	S	3 - 20" 3 - 30" 3 - 40"	0.75	11/4 x 1	70 80 90
CSH9EO410 CSH12EO410	EO4	2,700	7,500	S	3 - 30" 3 - 40"	1.0	11/2 x 11/4	85 95

¹ For PVC chamber, change first **C** to **P** in System Number. For polypropylene system, change first C to PP in System Number.

² Motors less than 1.0 HP are 115-230/1/50-60, TEFC. Motors 1.0 HP and above are 230-460/3/60 or 190-380-415/3/50, TEFC.



For PVDF system consult Sales Department.



ADMIRAL Filtration Systems Specifications

SPECIFICATIONS To order, use System No.

CPVC filter chamber with CPVC pump ¹

SYSTEM PUMP		SYS	TEM	FILTE	R CHAMBER	MOTOR ²	IN / OUT	WEIGHT
NUMBER	SERIES & CURVE	GPH	LPH	SERIES	CARTRIDGES	HP	(In. NPT)	Lbs.
CG12EO515 CG24EO515	EO5	3,600	11,300	G	12 - 10" 12 - 20"	1.5	1 ¹ / ₂ x 1 ¹ / ₂	160 170
CG24EH220 CG36EH220	EH2	4,800	15,000	G	12 - 20" 12 - 30"	2.0	2 x 1 ¹ / ₂	205 215
CG24EH330 CG36EH330 CG48EH330	EH3	5,400	16,800	G	12 - 20" 12 - 30" 12 - 40"	3.0	2 x 1 ¹ / ₂	225 235 245
CG36EH450 CG48EH450 CG60EH450	EH4	6,600	19,600	G	12 - 30" 12 - 40" 12 - 20" + 12 - 30"	5.0	2 x 1 ¹ / ₂	235 245 255
CG48EH675 CG60EH675	EH6	7,000	21,800	G	12 - 40" 12 - 20" + 12 - 30"	7.5	2 x 2	255 265

¹ For PVC chamber, change first **C** to **P** in System Number. ² Motors are 230-460/3/60 or 190-380-415/3/50, TEFC. For polypropylene system, change first \boldsymbol{C} to \boldsymbol{PP} in System Number.

For PVDF system consult Sales Department.

ACCESSORIES

VITON ELASTOMERS	ADD TO SYSTEM NO.
Filter chamber and pump	V

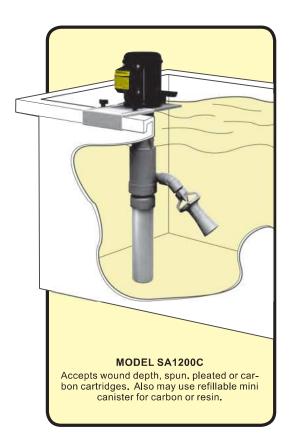
DESCRIPTION	PRICE CODE NO						
MOTOR STARTER - NEMA 4X Watertight push button							
115 - 230V/1/50-60	O-MS1P						
230 - 460V/3/50-60 O-MS3P							
Important: Specify operating voltage	е.						
OPERATING VOLTAGE							
1 horsepower & above - Single phase	O-1PH						
Under 1 horsepower - Three phase	O-3PH						

DESCRIPTION	PRICE CODE NO.		
CARBON PURIFICATION CHAMBER with flow control valve, hose & drain Order carbon media from Bulletin M-305	CPVC	PVC	
Includes ABS mini-canister / CPVC or clear PVC chamber for 0.9 lbs. granular carbon 10" canister 2.1 lbs. granular carbon 20" canister 3.2 lbs. granular carbon 30" canister	O-C1CM O-C2CM O-C3CM	O-P2CM	
Includes PVC canister / CPVC or PVC chamber for 7 lbs. granular carbon 1-528 canister 21 lbs. granular carbon 3-528 canister	O-1528C O-3528C	O-1528 O-3528	

SUB-ADMIRAL® IN-TANK FILTRATION SYSTEMS

F-506_G

FILTRATION OR PURIFICATION WITH HIGH AGITATION FOR SMALL, MEDIUM AND LARGE TANKS



- Non-metallic solution contact
 CPVC or polypropylene construction.
 (See a chemical resistance chart)
- Polypropylene discharge eductor
 Provides high rate of agitation with filtration.
- High filtration rate without eductor
 Flows to 2,500 GPH @ 60 Hz (7800 LPH @ 50 Hz)
- In-tank filtration
 No floorspace required
 Leakproof
- Easy cartridge charge
- Vertical cantilever pump Seal less Runsdry

The **Sub-Admiral Filter System** is supplied with an eductor to create additional circulation without requiring a larger pump or more horsepower. One GPM of filter discharge through the eductor nozzle induces an additional four GPM of solution through the eductor. With aggressive agitation and filtration, most processes will operate more efficiently and provide greater consistency in quality. The Sub-Admiral System may also be configured without the eductor to achieve a maximum filtration rate.

The **Sub-Admiral Filter System** includes a seal-less cantilever pump, eductor and suction extension and is field serviceable. Pump has no bearings and thus can run dry. May also be used for transferring liquids with or without the filter.





SUB-ADMIRAL FILTRATION SYSTEMS

GENERAL SPECIFICATIONS

The **Sub-Admiral In-Tank Filtration Systems** feature a pump with a cantilevered, sleeved stainless steel shaft which eliminates bearings and seals, resulting in a pump that can run dry without damage. A vapor seal between the rotating shaft and the support column helps protect the motor. The mounting plate has the pump mounted off-center to allow clearance when mounting to the tank flange.

Standard models constructed of CPVC or polypropylene, for non-metallic solution contact.

Standard elastomers are EPDM. Most models feature pump motors that are chemical duty design. Eductors are molded of polypropylene and threaded to the pump discharge port. They provide 5 gallons of clean agitation for each gallon discharged from the pump.

All systems are provided with mounting bracket and handle for easy installation and removal.

MODEL SA1200 Model EO 3/4 Pump - Single Column									
SYSTEM MODEL MATERIAL LENGTH SHIP WT									
HOWBER			w/ 10" w/ 20"						
C11EO	SA1200C	CPVC & EPDM	20"	30"	Lbs.	Kg			
PP11EO	SA1200 PP	PP & EPDM	20		11	5			

MODEL SA3000 Model EO 1 Pump - Twin Column									
SYSTEM MODEL MATERIAL LENGTH SHIP WT.									
NUMBER			w/ 10" w/ 20"						
C21EO	SA1300C	CPVC & EPDM	27"	37"	Lbs.	Kg			
PP21EO	SA1300 PP	PP & EPDM		0'	31	16.4			

All motors are 115/203V/1/50-60

For Viton "O"-ring add -V to System Number.

Filter cartridges ordered seperatately. See Bulletin M-109 and Bulletin M-305

	MODEL				W/O EDUCTOR	WITH EDUCTOR	
		HORSEPOWER	DISCHARGE NPT	NO CARTS	FILTER GPH	FILTER GPH	AGT GPH
Ì	SA1200	1/8	3/4"	1-20"	1200	650	3250
	SA3000	1/3	1"	2-20"	2500	1350	6750

^{*} Lengths shown are from underside of mounting plate to bottom of cartridges.

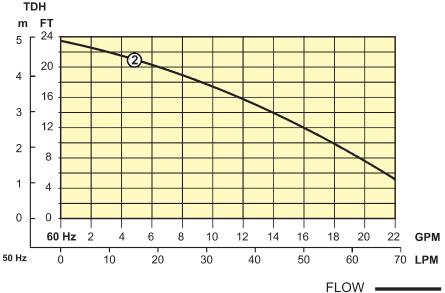


ADMIRAL® 'EOL' FILTRATION SYSTEMS

For Acid, Aqueous or Alkaline Solutions



- Flow rates to 1,000 GPH
- Non-metallic solution contact
 Select materials of construction for compatibility
 with solutions, operating temperature and
 pressure.
- PCL Clear PVC with CPVC pump
 PPL Polypropylene
 CL CPVC
 KL PVDF
 EPDM elastomers standard; Viton optional
- Runs dry without damage
- Compact, lightweight
- For 10", 20", or 30" cartridge lengths
- For in-tank or out-of-tank mounting







ADMIRAL 'EOL' Filtration Specifications and Ordering Information

ADMIRAL 'EOL' Filtration Systems consist of a vertical, dry-run capable pump and a single column filter chamber all mounted in a compact configuration using a common mounting plate.

PUMP:

The Series 'EO-3/4' pump is a vertical cantilever design without bearings or seals and can run dry without damage. Materials of construction are either CPVC, polypropylene or PVDF. The pump features a TFE vapor seal to protect the motor and a compound impeller which prevents liquid pumping up the column while providing efficient performance at low horsepower. Motors are 115-230V/1/50-60 Hz, TEFC with 8 ft. cord and plug.

FILTER CHAMBER:

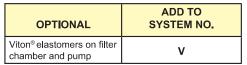
Choice of 10", 20" or 30" size chamber. Constructed of clear PVC, PP, CPVC, or PVDF. Standard elastomers are EPDM (FKM with PVDF). Chambers accept depth wound, pleated, cleanable sleeve and carbon cartridges.and requires no tools for cartridge changing. The

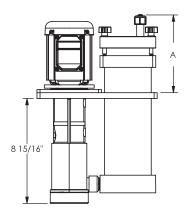
TO ORDER, use System Number

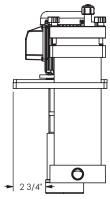
	SYSTEM NUMBER				DIM	PUMP			SHIPPING	
			MEDIA	A.			MAX	CONNS.	WEIGHT	
PVC	PP	CPVC	PVDF	No - Igth.	(Inches)	MODEL	HP	(U.S. GPH) *		(lbs.)
PLL1EO	PPL1EO	CL1EO	KL1EO	1 - 10"	6 5/8"					17
PLL2EO	PPL2EO	CL2EO	KL2EO	1 - 20"	16 5/8"	EO 3/4	1/8	1000	1" X 3/4"	19
PLL3EO	PPL3EO	CL3EO	KL3EO	1 - 30"	26 5/8					21

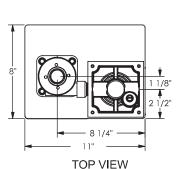
^{*} See flow curve

¹ Order filter media separately. Refer to Bulletin M-109.









10



ADMIRAL 'EOS' FILTRATION SYSTEMS

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431

For acid, alkaline or aqueous solutions



FEATURES

- Flow rates from 1800 to 4200 GPH
- Non-metallic solution contact
 Polypropylene, CPVC or PVDF with EPDM elastomers. Viton® elastomers optional.
- Runs dry without damage
- High filter surface area 3 20", 30" or 40" cartridges
- Compact package
- Designed for reservoir installation
- Economical OEM replacement

BENEFITS

- Improve finish goods quality, eliminate scrap and rework
- Reduce chemical consumption by maintaining solution quality
- Minimize downtime and maintenance with dry-run capable Series 'EO' pump and high surface area Series 'S' chamber
- Higher continuous flow and filter area than competitive systems
- Easy media change no tools required

SPECIFICATIONS

SYSTEM:

ADMIRAL 'EOS' filtration systems consist of a vertical, dry-run capable pump, and a three column filter chamber for 3 – 20", 30" or 40" filter cartridges. The pump includes a suction strainer and is mounted with the chamber in a compact configuration using a common mounting plate. Systems are available in polypropylene, CPVC or PVDF.

FILTER:

Industry proven for ease of service and reliability, the Series 'S' filter chamber will accommodate a variety of filter media including string wound, pleated, melt-blown or carbon cartridges. The ruggedly constructed chamber features a low pressure drop for long intervals of continuous high flow. The chamber includes a swing bolt cover closure with 'T'-handles, so no tools are required and cartridge changing is quick and convenient. Also included is a 0 - 30 psi gauge with guard and vent plug. The chamber features totally non-metallic solution contact and stainless steel external hardware.

PUMP:

The Series 'EO' pump benefits from proven design features gained through over 50 years of experience in developing chemically resistant vertical pumps.

The unique design of this pump includes a fully sleeved stainless steel shaft threaded into a chemical duty motor. This eliminates weak shaft connections, pump bearings, spindles, bushings and liners, resulting in a chemical duty pump which can run dry indefinitely, providing years of trouble-free service.

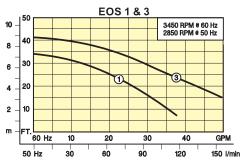
A labyrinth and a TFE vapor seal between the rotating shaft and the support column protect the motor. The compound impeller prevents liquid from rising in the column, even at maximum TDH, while the fully enclosed bottom impeller provides efficient flow performance at low horsepower.

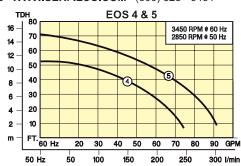
All models are injection molded of polypropylene, CPVC or 100% pure PVDF. The stainless steel shaft is fully sleeved with the same material from which the pump is constructed. Fasteners are stainless steel. The chemical duty motor has a stainless steel nameplate and is dual range 50 and 60 Hz.





ADMIRAL 'EOS' FILTRATION SYSTEM Flow Curves





MODEL		DIMENSIONS (Inches)															
MODEL	Α	В	С	D	Е	F	G*	Н	J	K	L	М	N	Р	Q	R	CONNECTIONS
EOS 1 & 3	11	5½	20	41/4	41/2	51/4	25 ⁷ / _s	401/	051	01/	4034	05/	6 ⁵ / ₁₆			447	1/4" FNPT x 1" FNPT
EOS 4 & 5	12	7	22	5	5¾ ₈	5¾ ₈	25./8	12 ¹ / ₈	3 ⁵ / ₈	9½	13³/ ₁₆		8 ⁵ / ₁₆		11⁄4	1½	1½" FNPT x 1¼" FNPT

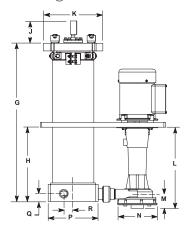
* $35^{7}/_{8}$ for 9 cartridge models, $45^{7}/_{8}$ for 12 cartridge models.

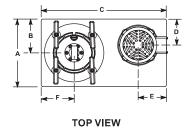
	HP	MEDIA		SHIPPING WT.		
FLOW **		SYSTEM	POLYPROPYLENE	CPVC	PVDF	Lbs.
6 CARTRIDGE SYSTEMS			(21 s. f. *)			
1800	.33	3 – 20"	PPS6EO1	CS6EO1	KS6EO1	55
2400	.75		PPS6EO3	CS6EO3	KS6EO3	60
3300	1.0	or 6 – 10"	PPS6EO4	CS6EO4	KS6EO4	65
4200	1.5	6-10"	PPS6EO5	CS6EO5	KS6EO5	70
9 CARTRI	DGE SY	STEMS	(31.5 s. f. *)			
1800	.33	3 – 30"	PPS9EO1	CS9EO1	KS9EO1	55
2400	.75	or	PPS9EO3	CS9EO3	KS9EO3	60
3300	1.0	9 – 10"	PPS9EO4	CS9EO4	KS9EO4	65
4200	1.5		PPS9EO5	CS9EO5	KS9EO5	70
12 CARTR	IDGE S	YSTEMS	(42 s. f. *)			
1800	.33	3 – 40"	PPS12EO1	CS12EO1	KS12EO1	55
2400	.75	0r	PPS12EO3	CS12EO3	KS12EO3	60
3300	1.0	12 – 10"	PPS12EO4	CS12EO4	KS12EO4	65
4200	1.5	12 - 10	PPS12EO5	CS12EO5	KS12E05	70

- * s. f. is square feet of surface area or dirt holding capacity with Valuwound
- or Maxi-Depth (Bulletin M-109) filter cartridges. Order cartridges separately.

	or maxi Bopai (Banoai
*	Flow is GPH @ 60 Hz.

OPTIONAL	ADD TO SYSTEM NO.
Viton [®] elastomers on filter chamber and pump	V







ADMIRAL® 'EHJ' FILTRATION SYSTEMS

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431

Electroplating, printed circuit board, fume scrubber



FEATURES

- Flow rates from 5,800 to 10,000 GPH
- Non-metallic solution contact CPVC with EPDM elastomers Viton® elastomers optional
- Runs dry without damage
- High filter surface area 6-20", 30" or 40" cartridges
- Handles temperatures to 180°F (See a chemical resistance chart)
- Compact package
- Designed for reservoir installation
- Economical OEM replacement

BENEFITS

- Improve finished goods quality, eliminate scrap and rework
- Reduce chemical consumption by maintaining solution quality
- Minimize downtime and maintenance with dry-run 'EH' pump
- Higher continuous flow and filter area than original equipment systems
- Easy cartridge change no tools required

SPECIFICATIONS

SYSTEM:

ADMIRAL 'EHJ' filtration systems consist of a CPVC pump and filter chamber, assembled on a 2-piece modular PVC mounting plate. The mounting plate is joined with a rabbet joint and secured with 316 stainless steel hardware. The pump discharge and filter inlet are connected by a union fitting. This arrangement allows simplified installation and convenient pump removal for reservoir or pump maintenance. The standard mounting plate is 22" x 12" overall. Custom plates are available.

FILTER:

Innovative design with oversized inlet and outlet allows extended intervals of high flow operation with minimal pressure drop. The chamber is constructed of CPVC with EPDM elastomers and is available with 6 - 20", 30" or 40" cartridge capacity. Chamber includes swing bolt cover closure with 'T'-handles, therefore, no tools are required for easy cartridge changing. Also included is a 0 - 60 psi gauge with guard assembly and a vent valve assembly designed to direct vent mist back to the reservoir. Chamber features totally non-metallic solution contact and stainless steel external hardware.



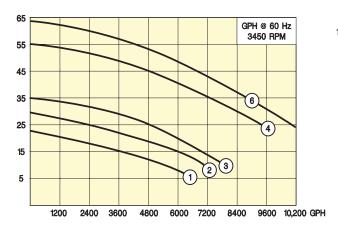


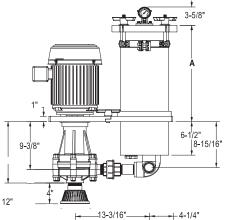
ADMIRAL 'EHJ' FILTRATION SYSTEM Specifications (cont'd)

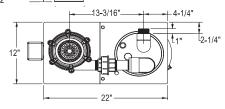
PUMP:

Industry leading Series 'EH' pumps will provide years of quiet, efficient, trouble-free operation.

Constructed of CPVC with standard EPDM elastomers, TFE vapor seal and polyethylene suction strainer. These pumps provide totally non-metallic solution contact. The cantilever shaft, Series 'EH' pump will even run dry without damage. Motors are 1.5 to 7.5 HP, $230\text{-}460\text{V}/3\phi/50\text{-}60\text{Hz}, 2850/3450$ RPM with 1.15 service factor. They are chemical service, TEFC with oversized bearings, two-part epoxy paint and stainless steel tag.







DIMENSIONS							
MEDIA	HEIGHT						
LENGTH	Α						
20"	18-5/8"						
30"	28-5/8"						
40"	38-5/8"						

	SPECIFICATIONS and ORDERING INFORMATION												
CURVE NO.	ORDER NUMBER	FLOW GPH @ 60 Hz	MEDIA *	SURFACE AREA Ft. ² PUMP HP		DISCHARGE CONNECTION	SHIPPING WEIGHT Lbs.						
1	CJ12EH115 CJ18EH115	5,800	6 - 20" 6 - 30"	42 63	1.5	1½" MNPT	125 135						
2	CJ12EH220 CJ18EH220	6,300	6 - 20" 6 - 30"	42 63	2.0	1½" MNPT	130 140						
3	CJ12EH330 CJ18EH330 CJ24EH330	6,900	6 - 20" 6 - 30" 6 - 40"	42 63 84	3.0	1½" MNPT	150 160 170						
4	CJ12EH450 CJ18EH450 CJ24EH450	8,800	6 - 20" 6 - 30" 6 - 40"	42 63 84	5.0	1½" MNPT	155 165 175						
6	CJ12EH575 CJ18EH575 CJ24EH575	10,000	6 - 20" 6 - 30" 6 - 40"	42 63 84	7.5	1½" MNPT	170 180 190						

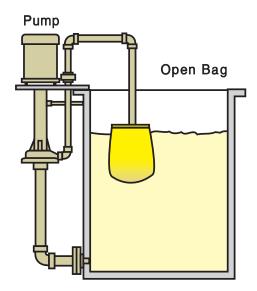
* NOTE: Order filter cartridges separately. Refer to Filter Media.

Specifications subject to change without notice.

OPTIONAL	ADD TO SYSTEM NO.
Viton [®] elastomers on filter chamber and pump	V



OPEN BAG FILTER SYSTEMS



Typical arrangement with vertical seal-less pump

BAG FILTER ASSEMBLIES

Open bag filters are ideal for applications where quick change reusability of a gravity filter is desired. The filter bags are attached to a manifold with cam-lock quick-disconnect couplings for minimal downtime when servicing and they can be repeatedly washed and reused for fast, long-lasting payback on the cost of their installation. Bag filters are available in CPVC or PVDF materials and single or multiple bag assemblies.

Bags are available in retention ratings from coarse filtration at 100 micron to fine filtration at 1 micron.

BAG FILTER SYSTEM TO ORDER, use System Number

CPVC PUMP and FILTER ASSEMBLY 1

SYSTEM NUMBER ¹	FLOW RATE GPH	NO. OF BAGS	PUMP SERIES	FILTER AREA Sq. Ft.	MOTOR HP MOTOR HT.	& PUMP LENGTH SHIPPING	WEIGHT Lbs.
CB.5EO3/4	720	1	EO	0.5	1/8	6" & 9-1/2"	16
CB1EO3/4	770	2	EO	1.0	1/6	6 & 9-1/2	21
CB2,2EO1	1200	1	EO	2.2	1/3	8-1/2" & 13-1/4"	43
CB4.4EO1	1500	2	EO	4.4	1/3	0-1/2 & 13-1/4	48
CB2,2EO3	2400	1	EO	2.2	3/4	9-1/2" & 13-1/4"	48
CB4.4EO3	2700	2	E0	4.4	3/4	9-1/2 & 13-1/4	53
CB2.2EO4	3200	1	EO	2.2	1.0	10-1/2" & 13-1/4"	48
CB4.4EO4	3400	2	20	4.4	1.0	10-1/2 & 13-1/4	53

¹To order PVDF system, change **C** to **K** in System Number. CPVC system includes quick-connect coupling, 6 ft. vinyl wire reinforced hose, pump and motor and bag assembly. Hose is not included with PVDF systems which require hard piping. All motors are 1-phase TEFC, except for 1.0 HP, which is 3-phase. The 1-phase motors include 8 ft. of 3-wire cord and plug, wired for 115 volt operation unless otherwise requested.

Consult pump bulletins P-312 and P-300 for additional pump specifications. Order bags separately from chart on page 2. Twin bag assemblies include two ball valves.



CAUTION: Do not use vinyl hose when system is to be used at 150°F (66°C) or higher. System suction and discharge should be hard piped. Refer to Bulletin A-213 for installation fittings.

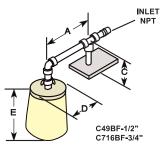


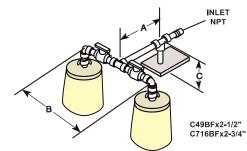


OPEN BAG FILTERS

BAG FILTER ASSEMBLY

Bag Filter Assembly includes quick-connect coupling, mounting bracket, piping and pipe fittings. Twin bag asemblies include two ball valves. Note: PVDF systems are supplied without hose adapter; assembly requires hard piping.





TO ORDER, use Price Code Number¹

	PRICE	BAG			DIN	/IENSIC	NS (inc	ches)		SHIPPING
MODEL 1	CODE NUMBER	FILTER PIPE SIZE AREA ² (NPT INLET Sq. Ft.		NUMBER OF BAGS	Α	В	С	D	Е	WEIGHT Lbs.
C49BF-1/2 C49BFx2-1/2	88-1010 A 88-1013 A	.5 1.0	1/2"	1 2	8	<u> </u>	6 3/4	4	9	5 10
C716BF-3/4 C716BFx2-3/4	88-1580 88-1580-2	.5 1.0	3/4"	1 2	8	<u> </u>	7	7	16	5 10
C716BF-3/4 C716BFx2-3/4	88-1011 A 88-1012 A	2.2 4.4	3/4"	1 2	8 1/4	<u> </u>	7	7	16	8 13
C716BF-1 1/2 C716BFx2-1 1/2	88-1581 88-1581-2	2.2 4.4	1"	1 2	8 1/4	<u> </u>	7	7	16	8 13
C716BF-1 1/2 C716BFx2-1 1/2	88-1582 88-1582-2	2.2 4.4	1 1/2"	1 2	8 1/4	<u> </u>	7	7	16	8 13

¹ To order PVDF assembly — change **C** to **K** in Model Number and add K to Price Code No.

INITIAL and REPLACEMENT BAGS w/polypropylene "O"-ring

MATERIAL	MICRON	.5 SQ. FT.	PRICE CODE NO.	2.2 SQ. FT. PRICE	CODE NO.
	1	FB-PP01x.5	88-0849 F	FB-PP01x2	88-0848 F
	5	FB-PP05x.5	88-0849 A	FB-PP05x2	88-0848 A
Polypropylene	10	FB-PP10x.5	88-0849 B	FB-PP10x2	88-0848 B
Clypropylene	25	FB-PP25x.5	88-0849 C	FB-PP25x2	88-0848 C
	50	FB-PP50x.5	88-0849 D	FB-PP50x2	88-0848 D
	100	FB-PP100x.5	88-0849 E	FB-PP100x2	88-0848 E

Order bags seperately from chart below



TITAN FILTRATION SYSTEMS

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431

Automatic, Permanent media, High flow systems for —

Filtering Metal Finishing Process Solutions and Cleaners, and for Polishing Clarified Treated Waste Treatment Streams



FEATURES

- · Produces sparkling clean solutions
- Automatic, microprocessor controlled Markedly reduces operating and maintenance costs
- Permanent media Eliminates media disposal and replacement
- High flows 50 to 500 GPM
- Corrosion resistant Chambers are PVC lined or hard rubber lined steel with PVC or CPVC piping and pumps for process solutions. Systems for non-corrosive solutions are suitably designed with high quality materials as well.
- (€ Conforming

BENEFITS

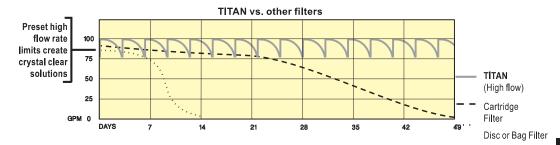
- Dramatically reduces media and disposal costs.
- Improves finished goods and process quality, significantly increases yields, practically eliminates scrap and rework.
- Reduces chemical consumption by maintaining solution quality.
- Minimizes solution maintenance with high flow, continuous particle removal.
- Satisfy regulatory requirements by polishing clarifier overflow.

Unique to any other filtration system available, the TITAN series is the result of SERFILCO's ongoing commitment to developing "up flow" and "down flow" permanent media filtration technology.

The combination of high flow permanent media, automatic operation and proven success makes the SERFILCO TITAN superior to any other filter available.

Easy to install and operate, manufactured with high quality corrosion resistant materials, TITAN systems will provide years of trouble-free operation.

Hundreds of customers around the world have achieved dramatic improvement in quality while reducing costs using the automatic permanent media TITAN.







TITAN FILTRATION SYSTEMS

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431

The SERFILCO TITAN is a series of automatic backwash systems which use permanent filter media of a specific size, shape and density that creates a filter bed through which contaminated solution is fed at controlled limits of flow and pressure. Microprocessor control automatically maintains constant design flow without compacting particles onto the media bed

The automatic cycle, programmed for optimum use of backwash fluid, responds automatically to a preset minimum flow rate. Prior to the automatic backwash cycle, process solutions are purged from the system with low pressure air. During the backwash cycle, particles exit the chamber without media migration. The process occurs within minutes, resulting in an extremely efficient backwash for each filter cycle. Re-establishment of the filtration cycle returns the system to design flow.

TITAN systems are specifically designed for use with most aqueous process solutions including cleaners, plating and other metal finishing solutions, and treated final effluents. Each TITAN system incorporates a corrosion resistant filter chamber for use with permanent media and has electri-

cally actuated valves, an efficient centrifugal pump, a digital electronic flow meter, pre-wired control panel and pre-programmed microprocessor. Automatic control components are housed in a NEMA 12 enclosure, factory wired and test cycled for all microprocessor programs.

Cleaner models have a steel chamber, piping and valves and a cast iron single seal pump. Metal finishing models have PVC lined or hard rubber lined steel chambers with PVC piping and valves. Models designated ALK have single seal cast iron pumps; models designated AC have double seal CPVC pumps. Treated waste models have PVC lined steel chambers with PVC piping and valves. Models W-50, W-100, W-150 have double seal CPVC pumps. Models W-200 and larger have single seal cast iron pumps.

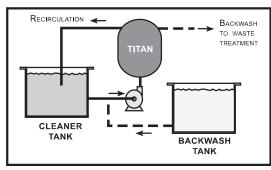
All units are skid-mounted, though large sizes have the chamber located separately. External metallic surfaces are painted with two coats of a two-part epoxy enamel. All fasteners are stainless steel. Prior to shipment, all units are wet tested to insure piping integrity, flow rate and complete system operation. Media is purchased and shipped separately. If required, backwash and recirculation tanks are also available from SERFILCO.

FILTRATION SYSTEMS FOR CLEANERS

Designed specifically for cleaners and parts washers.

 AQUEOUS SOLUTIONS and CLEANERS to 190°F Extend cleaner life almost indefinitely Drastically decrease costly dumps





SEQUENCE OF OPERATION

- A. Filtration
- B. Air purge solution back to cleaner tank
- C. Backwash with clean water
- D. Air purge backwash to waste treatment

	MODEL	MAX. FLOW* GPM		ш	SYSTEM DIM	ENSIONS (In.)	CONNS.	SHIP.	PRICE
			HP	LxWxH	FILTER DIA. **	IN & OUT (NPT)	WT. (Lbs.)	CODE NO.	
	CLN50 CLN100	50 100	1.0 3.0	42 x 54 x 78	24 36	1½"	950 1250	S-2934 1 S-2934 2	

- * Full flow, flooded suction, no discharge restriction (U.S. GPM @ 60 Hz)
- ** Chamber is mounted on system base.



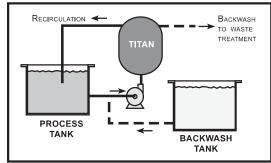
TITAN FILTRATION SYSTEMS For Metal Finishing Processes



FOR ACID OR ALKALINE SOLUTIONS – acid or alkaline zinc, and bright nickel plating solutions, anodizing and phosphating solutions

OPTIONAL CARBON PURIFICATION

Designed specifically for metal finishing solutions. Improve finished goods quality, minimize scrap and rework, reduce chemical consumption and maintain a crystal clear bath, with high flow, automatic, permanent media TITAN systems.



SEQUENCE OF OPERATION

- A. Filtration
- B. Air purge solution back to process tank
- C. Backwash with clean water
- D. Air purge backwash to waste treatment

MODEL	FLOW*	НР	SYSTEM DIME	NSIONS (Inches)	CONNS.	SHIP.	PRICE
MAX.	GPM	l '''	LxWxH	FILTER DIA.	IN & OUT (NPT)	WT. (Lbs.)	CODE NO.
P50 AC P50 ALK	50	1.5	42 x 54 x 78	24 **	1½"	900	S-2926 1 S-2926 2
P70 AC P70 ALK	70	3.0	48 x 64 x 78	36 **	2"	1250	S-2933 1 S-2933 2
P150 AC P150 ALK	150	5.0	48 x 64 x 78	42 ***	3"	1650	S-2930 1 S-2930 2
P200 AC P200 ALK	200	7.5	48 x 64 x 78	48 ***	3"	1900	S-2931 1 S-2931 2
P300 AC P300 ALK	300	10.0	48 x 64 x 78	60 ***	4"	2800	Consult Sales Dept.



^{**} Filter chamber mounted on system base

*** Free standing chamber





TITAN FILTRATION SYSTEMS For Treated Waste

2900 MacArthur Blvd. Northbrook, IL. USA 60062 **WWW.SERFILCO.COM** (800) 323 - 5431

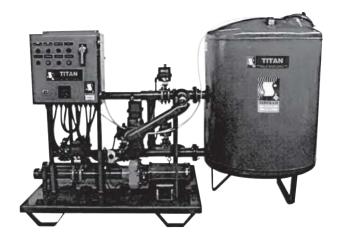
TREATED WASTE

Flow rates to 500 GPM

Capture low ppm suspended solids exiting in clarifier overflow.

· OPTIONAL CARBON PURIFICATION

Designed specifically for aqueous and treated waste applications. Satisfy regulatory requirements easily and economically with flow rates to 500 GPM. A TITAN filtration system continuously recirculating clarifier overflow will capture escaping solids and can achieve 0.5 ppm with proper recirculation. In fact, polished water can be re-used in non-critical rinses.



FROM CLARIFIER OVERFLOW (50 GPM) OVERFLOW RECIRCULATE (100 GPM) TITAN BACKWASH TO HOLDING TANK AHEAD OF PH ADJUSTMENT (100 GPM) TO SEWER (50 GPM) RECIRCULATION TANK

SEQUENCE OF OPERATION

- A. Filtration
- B. Air scrub
- C. Backwash to waste treat with polished water from recirculation tank

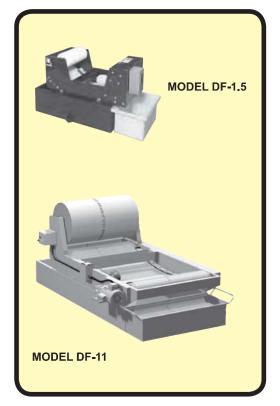
MODEL		FLOW FROM		SYSTEM DIMENSIONS (In.)		CONNS.	SHIP.	PRICE
MODEL	FLOW* GPM	CLARIFIER (GPM)	HP	LxWxH	FILTER DIA.	IN & OUT	WT. (Lbs.)	NO.
W50	50	10 - 25	1.5	40 54 70	24 **	1½" NPT	850	S-2920
W100	100	26 - 50	3.0	42 x 54 x 78	36 **	2" NPT	1150	S-2921
W150	150	51 - 75	5.0	40 54 70	42 ***	3" NPT	1600	S-2931
W200	200	76 - 100	3.0	42 x 54 x 78	48 ***	3" NPT	1850	S-2922
W300	300	101 - 150	7.5	40 v E4 v 70	60 ***	4" Flange†	2400	S-2923
W400	400	151 - 200	10.0	42 x 54 x 78	66 ***	4" Flange†	2800	S-2924
W500	500	201 - 250	15.0	48 x 64 x 78	72 ***	6" Flange	3300	S-2925

- * Full flow, flooded suction, no discharge restriction (U.S. GPM @ 60 Hz)
- ** Filter chamber mounted on system base
- ** Free standing filter chamber
- † 4" flanges also have interior 4" NPT threads.

SERIES 'DF' FILTRATION SYSTEMS



2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431



AUTOMATIC DISPOSABLE FABRIC FILTRATION SYSTEMS FOR:

PHOSPHATING / PARTS WASHERS
MACHINE TOOL COOLANTS
INDUSTRIAL WASTE WATER
PROCESS OR COOLING WATER
WATER WALL SPRAY BOOTHS
TREATED PLATING WASTE

Unattended operation

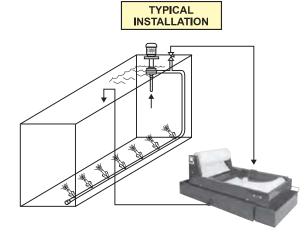
Automatically indexing media allows continuous filtration, even with varying input or solids content.

- Choice of materials
 Carbon steel or 316 stainless steel
- Sizes for any application
 From 1.5 to 113 sq. ft. of filter surface area
 Flow rates to 650 GPM @ 80 micron
- Low operating cost

SYSTEM OPERATION

This system is totally automatic and responds to wide variations in flow rate and solids concentration. Pump the contaminated solution to the diffuser tray which distributes flow across the full width of the filter bed. Particle separation starts immediately via gravity flow through the media to the clean reservoir below the conveyor frame. Filtered solution can then gravity drain to waste or be returned to the process via a pump.

Gravity flow allows gentle accumulation and settling of solids on the filter fabric. The concave configuration of the media bed accommodates the flow rate and maximizes solids loading on the fabric. As the media gradually becomes laden with solids, the solution level will slowly rise until the float switch activates the convey or drive motor. Consumed fabric is advanced to the sludge box as fresh media is simultaneously indexed to the solution flow.



SERIES 'DF' FILTRATION SYSTEMS

F-701_U

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SPECIFICATIONS

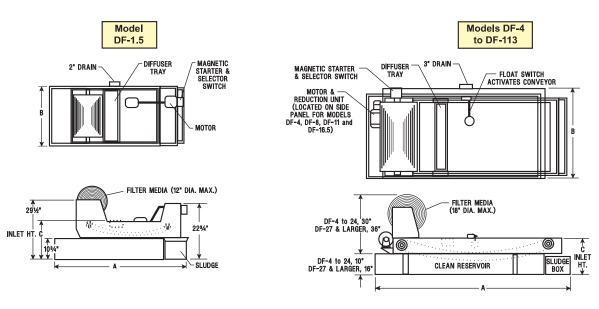
SERIES S

CARBON STEEL reservoir, frame, shafts, bearings and sprockets. Models 1.5 to 16.5 feature a 316 stainless steel conveyor belt. Larger models have galvanized belt with optional 304 or 316 stainless steel. Units are coated with corrosion resistant 2-part epoxy paint.

SERIES SS

316 STAINLESS STEEL reservoir, frame, shafts, bearings, sprockets and conveyor belt. Non-wetted surfaces such as fabric bracket, motor bracket and gear reducer are carbon steel.

All units include: float switch, sludge box (HDPE on Models 1.5 and 4), filtrate reservoir which serves as a support for mounting the conveyor frame, drain, single phase drive motor and starter. Standard edge seals are PVC, 140°F maximum. EPDM and silicon rubber edge seals are optional. Order filter media separately.



FILTER	FILTER AREA	TANK CAPACITY	115V/1/60 DRIVE		OVERALL SIONS (IN		INLET HEIGHT	MEDIA WIDTH	APPROX. SHIPPING	FA	BRIC M	ICRON	RATIN	١G
MODEL	AKEA	CAPACITY	MOTOR	LENGTH	WIDTH	HEIGHT	(INCHES)	WIDIR	WEIGHT	5	10	25	40	80
	SQ. FT.	GAL.	HP	Α	В	пеівні	C		LBS.		GPM FLOW RATE			
DF-1.5	1.5	20	1/15	55	21.5	35.5	17	13	225	2	3	4	6	9
DF-4	4	49	1/3	75	28	40	19	16.5	320	5	6	10	14	23
DF-8	8	90	1/3	71	50	40	19	33	580	10	12	20	28	45
DF-11	11	115	1/3	90	50	40	19	33	760	14	17	28	39	62
DF-16.5	16.5	160	1/3	90	67	40	19	50	1025	20	25	42	58	93
DF-19	19	160	1/3	89	62	40	18	50	1025	24	29	48	67	108
DF-24	24	200	1/3	104	62	40	18	50	1420	30	36	60	84	136
DF-27	27	400	1/2	136	68	52	30	50	2400	34	41	68	95	153
DF-29	29	500	1/2	162	68	52	30	50	3110	36	44	73	102	164
DF-40	40	600	1/2	194	68	52	30	50	3750	50	60	100	140	226
DF-57	57	900	3/4	259	68	52	30	50	5250	71	80	143	200	323
DF-96	96	1370	3/4	380	68	52	30	50	7700	120	144	240	336	544
DF-113	113	1575	1	427	68	52	30	50	8655	142	160	286	400	646







TO ORDER, use Price Code Number

FILTER AREA	SERI	ES S	SERIES SS			
(SQUARE FEET)	MODEL	PRICE CODE NO.	MODEL	PRICE CODE NO.		
1.5	DFS-1.5-S	49-1414	DFS-1.5-SS	49-1413A		
4	DFS-4-S	49-1000	DFS-4-SS	49-1038A		
8	DFS-8-S	49-1003	DFS-8-SS	49-1040A		
11	DFS-11-S	49-1006	DFS-11-SS	49-1042A		
16.5	DFS-16.5-S	49-1007	DFS-16.5-SS	49-1043A		
19	DF-19-S	49-0015	DF-19-SS	49-0048A		
24	DF-24-S	49-0018	DF-24-SS	49-0050A		
27	DF-27-S	49-0021	DF-27-SS	49-0052A		
29	DF-29-S	49-0024	DF-29-SS	49-0054A		
40	DF-40-S	49-0027	DF-40-SS	49-0056A		
57	DF-57-S	49-0030	DF-57-SS	49-0058A		
96	DF-96-S	49-0074	_	_		
113	DF-113-S	49-0075	_	_		

OPTIONAL EQUIPMENT

DESCRIPTION		PRICE CODE NO.				
FLOAT ACTIVATED LEVEL CONTROL SWITCH FOR RESERVOIR PUMP NEMA 1. For single phase motors to 11/2 HP @ 115V or 2 HP @ 230VAC. Used as a pilot devers. Complete with float ball and mounted in reservoir tank for pump-down operation. Sepa motor (see below).		49-0162				
RESERVOIR PUMP INSTALLATION AND WIRING		49-0173				
MOTOR STARTER FOR RESERVOIR PUMP 3 phase with transformer (HAND-OFF-AUTO) 1 phase with transformer (HAND-OFF-AUTO)	O-MS3S O-MS1S					
EDGE SEALS	EPDM 200°F max.	SILICON RUBBER 300°F max.				
Models 1.5 - 8 Models 11 - 16.5 Models 19 - 113	Models 1.5 - 8 49-0500 A Models 11 - 16.5 49-0651 A					
CONVEYOR BELTS For Series DF-19S through DF-113S (Standard belts are galvanized steel.)	ADD TO MODEL	ADD TO PRICE CODE NO.				
304 stainless steel 316 stainless steel	-304 -316	B C				

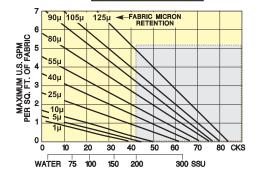
RESERVOIR PUMPS (not installed)

FLOW		HORSE	POWER	CAST	IRON	POLYPRO	OPYLENE	СР	PVC
GРМ @	TDH (ft.)	CI	PP & CPVC	MODEL	PRICE CODE NO.	MODEL	PRICE CODE NO.	MODEL	PRICE CODE NO.
5	11	1/8	1/8	SCI 1.5	49-0149-1	EO3/4PP EOPP1 EOPP3 EOPP4	39-3122B	EO3/4C	39-3222B
15	11	1/4	-	SCI 4	49-0150		—	—	—
24	20	1/2	1/3	SCI 8	49-0151		39-1121 A	EOC1	39-1221 A
40	24	3/4	3/4	SCI 15	49-0153		39-1123 C	EOC3	39-1223 C
75	20	1	1	SCI 24	49-0156		39-2124 J	EOC4	39-2224 J
115	35	2	2	SCI 29	49-0158 A	EHP2	45-0623	EHC2	45-0123
145	25	3	5	SCI 40	49-0159	EHP5	45-0645	EHC5	45-0145
200	35	5	7 - 1/2	SCI 57	49-0160 A	EFP5	45-2254	EFC5	45-2054

NOTE: Motors less than 1 HP are 1 phase, 1 HP and up are 3 phase. 3 phase motors require a separate motor starter.

SERIES 'DF' FILTRATION SYSTEMS

FLOW RATE CHART



SIZING INSTRUCTIONS:

- 1. Select the desired micron retention fabric from the Fabric Selection Chart.
- 2. Using the Flow Rate Chart, determine the flow per square foot for the selected viscosity.
- Divide the total flow (GPM) you desire by the number obtained in step 2. The resultant is the size, in square feet of filter area required.

FABRIC SELECTION CHART

APPLICATION						MIC	RON				
APPLICATION		125	105	90	80	55	40	25	10	5	1
Paint spray booth - water Zinc & iron phosphating		•	•	•	•	•					
Caustic washing solutions Waste treat - metal hydroxide		•	•	•	•	•	•				
Grinding - steel Grinding - cast iron	SN SN	•	•	:	•	•	:	:	:		
Grinding - aluminum Grinding - carbide	LUTIO			•	•	•	:	:	:		
Belt grinding - steel Belt grinding - zinc	WATER SOLUTIONS	•	:		:	:	:	•			
Grinding - hard plastics Grinding - soft plastics	WAT				:	•	:				
Grinding - steel roll Grinding - brass					• •	•	• •		•		
Grinding - bronze Grinding - aluminum					•	•	•	:			
Lapping (Oil 30 - 100) Honing (Oil 20 - 100)	SU					•	•	:	:	:	
Quenching Grinding - aluminum	OIL 100-150 SSU				•	•	•		•	•	
Belt grinding - steel Belt polishing - zinc copper	100	•	•		•	•	•	•	•		
Belt grinding - steel Thread grinding - steel	OIL 150-250 SSU		• •								
Flute - tap die grinding Crush & form grinding	0 150- SS		:								
Machine tool turning/milling	SYNTHETIC					•					

DISPOSA-FABRIC MEDIA, use Price Code No. to order

	MODEL*			-16 1/2" WIDTH*			-33" WIDTH			-50" WIDTH*				
	NO.*	MICRON	YARDS PER ROLL	PRICE CODE NO.	WEIGHT (LBS)	YARDS PER ROLL	PRICE CODE NO.	WEIGHT (LBS)	YARDS PER ROLL	PRICE CODE NO.	WEIGHT (LBS)	YARDS PER ROLL	PRICE CODE NO.	WEIGHT (LBS)
2	SF-W125 SF-W105 SF-W090	125 105 90	100 100 100	P-49-0257 1B 49-0258 1B 49-0259 1B	2 2 2		49-0090 1B 49-0093 1B 49-0165 1B	13 13 13	500 500 500	49-0091 1B 49-0094 1B 49-0166 1B	26 26 26	500 500 500	49-0092 1B 49-0095 1B 49-0167 1B	40 40 40
N/PE	SF-W080 SF-W040 SF-W025	80 40 25	100 100 100	49-0260 B 49-0263 B 49-0264 B	3 3 3	500	49-0099 B 49-0108 B 49-0111 B	15 15 15	500 500 500	49-0100 B 49-0109 B 49-0112 B	30 30 30	500 500 500	49-0101 B 49-0110 B 49-0113 B	46 46 46
RAYON/PE	SF-W010 SF-W005 SF-W001	10 5 1	50 50 50	49-0266 B 49-0267 B 49-0268 B	3 3 4	200	49-0114 B 49-0117 B 49-0120 B	12 15 18	200 200 200	49-0115 B 49-0118 B 49-0121 B	24 30 36	200 200 200	49-0116 B 49-0119 B 49-0122 B	37 46 55

^{*} Add width to Model No. - Example: SF-W125-13"

ROLL-A-FILTER®



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DISPOSABLE FABRIC FILTER Typical Applications Include:

STRAINING - Paints & varnishes
FILTERING - Chemicals, cutting and grinding fluids, oil
PILOT TESTING - Waste treatment, phosphating

Simply place the **ROLL-A-FILTER** on top of an open drum or recirculating tank and pour or route the liquid to be filtered into the filter tray. When the filter fabric accumulates enough solids, as indicated by the liquid pool, pull it forward, tear/cut it off and discard. The handles on the filter media support basket provide an easy and clean method of lifting and discarding the sludge laden media.

All units are made of heavy gauge steel, and are designed with integral clean catch basin with center discharge hole. Units conveniently install over sumps to eliminate frequent cleanout.

- Steel construction coated with chemically resistant, oven cured two-part epoxy paint.
- Heavy duty perforated steel filter media support basket with handles
- Rugged steel support frame and sloped bottom basin
- Safe tear bar / cutting guide
- Models RAF-2S & -3S conveniently fit standard 55 gallon drums

TO ORDER

MODEL NUMBER	NOMINAL DIMENSIONS L x W x H	MEDIA FILTERING WIDTH AREA		SHIPPING WEIGHT	PRICE CODE NO.
	Inches	Inches	Sq. Ft.	Lbs.	
RAF-2S	28 x 19 x 5	18	2-1/3	19	79-0278
RAF-3S	28 x 25 x 5	24	3-1/4	34	79-0279
RAF-4S	47 x 25 x 5	24	6	46	79-0280
RAF-5S	47 x 37 x 5	36	9	61	79-0281
RAF-6S	59 x 37 x 5	36	12	74	79-0282

Note: Flow capacities vary greatly depending on liquid and volume of solids.

DISPOSABLE FABRIC MEDIA (Order separately)

	PART NUMBER	APPROXIMATE MICRON RATING	APPLICATION	APPROXIMATE MICRON RATING	PRICE CODE NUMBER		BER
					18"	24"	36"
	W105	105	Straining paint / Coarse filtration	150	49-0175-1	49-0176-1	49-0177-1
뮙	W090	90	Fine straining / Paint Filtration / Light oil	150	49-0178-1	49-0179-1	49-0180-1
	W080	80	Coarse Filtration	150	49-0181	49-0182	49-0183
	W040	40	Medium filtration	150	49-0187	49-0188	49-0189
RAYON/PE	W025	25	Fine filtration	150	49-0190	49-0191	49-0192
\ \ \ \	W010	10	Very fine filtration	75	49-0193	49-0194	49-0195
2	W005	5	Ultra fine filtration	75	49-0240	49-0241	49-0242
	W001	1	Ultra fine filtration	75	49-0243	49-0244	49-0245

SERIES 'CB' CARTRIDGE / BAG FILTRATION SYSTEM

F-601_J

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431



For recirculating filtration on a reservoir

- COMPLETELY PRE-ENGINEERED AND ASSEMBLED
- QUICK CHANGE REUSABLE FILTER MEDIA MEANS FAST PAYBACK
- PERMITS WATER REUSE
- PREVENTS NOZZLE PLUGGING
- PROVIDES BETTER CLEANING
- PREVENTS POLLUTION
- NO BACKWASH REQUIRED
- AVAILABLE WITH AUTOMATIC ON / OFF PUMP CONTROL

The Cartridge / Bag system is a 2-stage liquidsolid separation system designed to provide high solids loading capabilities for applications requiring recirculating filtration of a process reservoir. Typical applications include the removal of particles from glass and plastic in bottle washing operations and the removal of board fiber, wheel grit, copper and other metals from water used in PC board deburring and scrubbing equipment.

The first stage employs a primary filter tank containing 8 gravity flow filter bags to collect bulk particles separated from rinse water. This stage provides 17.6 ft.² of filter surface area and is capable of filtering particles from 100 micron to 5 micron, depending upon the micron rating of the filter bags selected. The filter bags are

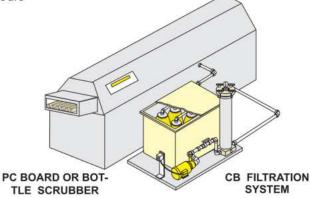
attached to a manifold with cam-lock quick-disconnect couplings for minimal down-time when servicing. The manifold includes an overflow vent which prevents back-up of system flow.

A circulating pump can be manually activated, or automatically activated with an optional level control, to transfer the filtered water from the primary filter tank to the second stage. This stage consists of a final trap filter chamber which uses a 2 micron pleated paper filter cartridge with 32 sq. ft. of surface area to polish the water so that clear water can be recycled to the process or discharged to a drain.



FEATURES:

- Flow control valve
- High solids loading
- Vinyl coated steel base





SERIES 'CB' CARTRIDGE / BAG FILTRATION SYSTEM (cont'd)

F-601_J

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431

SPECIFICATIONS

Entire system constructed of corrosion resistant materials for long service life.

PRIMARY FILTER TANK

Eight 5, 10, 25, 50 or 100 micron polypropylene filter bags (order separately) with quick-disconnect couplings provide 17.6 sq. ft. (1.6 sq. m) total area primary filtration by gravity flow to a 36" x 24" x 32" (914 x 610 x 813 mm) deep polyethylene reservoir. Reservoir provided with cover.

AVAILABLE WITH:

PVDF CENTRIFUGAL PUMP

Provides 30 U. S. GPM at 18 PSI @ 60 Hz (95 LPM at 1.2 bar @ 50 Hz) with Viton® mechanical seal and "O"-ring. Flow control valve on 1" PVC pipe between pump and final filter.

OF

NORYL® SELF-PRIMING CENTRIFUGAL PUMP

Provides 30 U. S. GPM at 21 PSI @ 60 Hz (95 LPM at 1.4 bar @ 50 Hz) with Viton® mechanical seal and "O"-ring. Flow control valve on 1" PVC pipe between pump and final

FINAL TRAP FILTER CHAMBER

Constructed of PVC with quick opening swing bolts and tee handles. Supplied with pressure gauge. Includes one 4" x 36" pleated paper filter cartridge of 2 micron, 32 sq. ft. (3.0 sq. m.) expanded filter area.

VINYL COATED STEEL BASE

Approximate shipping weight - 200 lbs. (91 kg.)

(1270mm) 13-1/2" (343mm) 2" NPT 36" Inlet (914mm) 19" 483mm) 1" NPT Outlet TOP VIEW Motor Starter 1/2" NPT (Optional) Drain Final Filter Chamber Reservoir & Primary 51" **Bag Filters** 2" NPT (1295mm) Inlet 32-1/2" (826mm) 29' (737mm) Pump-Motor Motor Starter 2-5/8" (Optional) SIDE VIEW (67mm)

50"

TO ORDER, use Price Code Number

MODEL	MOTOR	PRICE CODE NO.	
with PVDF end suction 'K' pump	TEFC, 1.5 HP 3450 RPM @ 60 Hz 2850 RPM @ 50 Hz		
CBF 65x58 11/2x11/2K3V(M2)-C1.5	115-230V/1/60	2750	
CBF 65x58 11/2x11/2K3V(M2)-D1.5	230V/460V/3/60 380V/3/50	2751	

MODEL	MOTOR	DDIOF	
with NORYL self- priming 'G' pump	TEFC, 1.0 HP 3450 RPM @ 60 Hz 2850 RPM @ 50 Hz	PRICE CODE NO.	
CBF 65x58 GNOKCVN-C1.0	115-230V/1/60	2733	
CBF 65x58 GNOKCVN-D1.0	230V/460V/3/60 380V/3/50	2734	

Registered trademarks: Noryl - General Electric; Viton - DuPont Dow Elastomers Specifications subject to change without notice.

OPTIONAL

DESCRIPTION	PRICE CODE NO.
LEVEL CONTROL (motor starter required) Automatic on / off pump control	O-1490
MOTOR STARTER Watertight push button, 115-230V/1/50-60 230-460V/3/50-60 Note: Add -S to motor starter PCN when ordering motor starter for use with 0-1490 level control, i.e., 0-MS3P-S	O-MS1P O-MS3P
FILTER MEDIA (Bags ordered separately, 1 cartridge included in original equipment.) Bags - Polypropylene, size 7" x 16" (8 req'd) 5 micron 10 micron 25 micron 50 micron 100 micron	88-0848A 88-0848B 88-0848C 88-0848D 88-0848E
Replacement pleated cartridge 2 micron (1 required)	PL436-2-4

LABORATORY FILTER PRESS

F-710_D

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For Lab Analysis - Small Batch Production - Field Testing

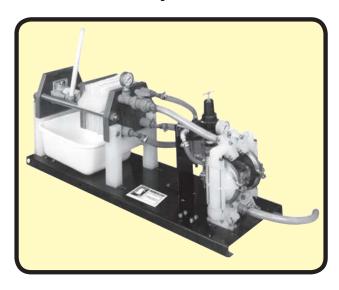


PLATE AND FRAME DESIGN

Dual capacity- Can be used with one or two frames for adjusted volume -.01 cu. ft. (283 cm³) or .02 cu. ft. (566 cm³) Area per frame - 17in² (110 cm²)

INCLUDES POLYPROPYLENE PLATES AND FILTER CLOTH

Suitable for most waste solutions

AIR DIAPHRAGM PUMP

Polypropylene construction Flows adjustable to 5 GPM (15.7 LPM) Pressure adjustable to 60 PSI (4.22 kg/cm²)

The Lab Filter Press is designed for lab analysis and small batch production. This press is also very useful for testing for upscaling to full production-size semiautomatic or manually operated presses. Includes polypropylene plates, filter cloth, air diaphragm pump, pneumatic controls, pressure gauges, inlet flow control valve, hoses, manual hydraulic pump and drip pan. Entire assembly is mounted on a vinyl coated steel base. Flow pattern is corner inlet with three individual corner discharge lines.

TO ORDER

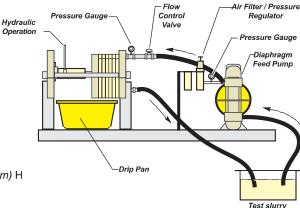
LAB FILTER PRESS	PRICE CODE NO.
MODEL .02 - 7PPMH	43-0857

REPLACEMENT CLOTHS (4 Req'd.)	PRICE CODE NO.
SF - 7 x 7	43-0822

Dimensions: 42" (1.1m) L x 13" (.33m) W x 22" (.56m) H

Shipping Weight: 95 Lbs (43 kg.)

Maximum operating temperature: 150° F (66° C)

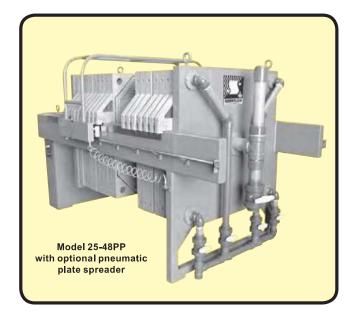




RECESSED PLATE FILTER PRESS

267 F-705 T

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431



LIQUID / SOLID SEPARATION FOR:

WASTE & SEWAGE TREATMENT BREWING / CEMENT / CERAMIC MINING & PLATING INDUSTRIES FOOD & VARNISH PROCESSING CHEMICALS

- MANUAL HYDRAULIC
 - 0.6 to 3 cu.ft.expandable
- **SEM -AUTOMATIC**
 - 1 to 50 cu.ft. expandable
- AIR BLOWDOWN MANIFOLD
- **CORROSION RESISTANT**
- 40-60% SOLIDS CONCENTRATION
- LOW ENERGY REQUIREMENT
- **EASY DROPOUT CLEANING**

The Recessed Plate Filter Press will compact sludges to a dry cake with a density that is dependent upon the ultimate compaction pressure and the characteristics of the particular sludge.

Each pressload will require from 2-4 hours cycle time. To insure adequate time, the press should be sized for at least 8 hours working capacity The table and formula below can be utilized to size your press. You can confirm your sizing and evaluate the process

for your application with a laboratory-sized model. Contact our Sales Dept. to arrange a pilot test.

Presses feature structural steel frame, coated with tough chemical resistant epoxy paint. The high-density molded polypropylene filter plates are light-weight, corrosion resistant and are fitted with special polypropylene quick cake release filter cloths. Presses also feature an air-actuated hydraulic system for opening and closing, automatic self-compensating hydraulic system and a conveniently located operator control console.

TO SIZE YOUR PRESS, the following information is required:

SLUDGE TYPE	% OF CAKE DRY WEIGHT SOLIDS	AVERAGE DRY WEIGHT/ CUBIC FOOT
Biological Sludge	15-25	15
Metal Hydroxide Sludge	25-40	25
Lime Treated Sludge	15-60	30

- A. Total gallons to be processed in selected press in specified period, e.g., U.S gals /8 hours. Twenty-four hours can be used to insure adequate capacity.
- B. Percent by weight of filterable suspended solids.
- C. Average dry weight per cubic foot for a particular sludge (obtained from table.)

CALCULATIONS:

A X B X 8.33 LBS./GAL. OR (U.S. GALS./ 8 HRS.) X (% SUSPENDED SOLIDS) X 8.33 LBS./GAL. (AVERAGE LBS. DRY WT. / CUBIC FT.)

CU. FT. CAPACITY FOR A DURATION

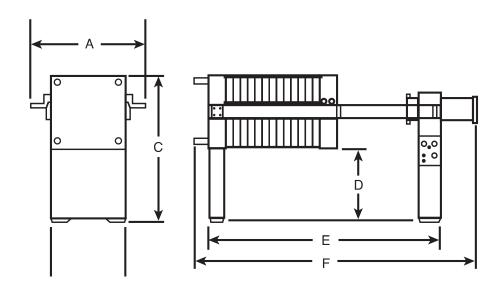
RECESSED PLATE FILTER PRESS

2900 MacArthur Blvd. Northbrook, IL. USA 60062 **WWW.SERFILCO.COM** (800) 323 - 5431

SPECIFICATIONS

		NOMINAL	IN-OUT NPT	NO. OF	SLUDGE		DIMI	ENSI	ONS	(IN.)		APROX.
SIZE	MODEL	CAPACITY (CU. FT.)	& SQUARE PLATE SIZE	CHAMBERS	HOPPER (CU FT.)	А	В	С	D	Е	F	WEIGHT (LBS.)
MANU	JAL HYDRAUL	IC										
	0.6-18PPMH	0.6	1½" x 1"	4	6					37	52	800
١.,	1-18PPMH	1	(470mm)	7	6	32	24	61	48	41	56	850
AA	2-18PPMH	2	18.5"	13	6	"-		"	~~	55	70	940
	3-18PPMH	PMH 3 18.5"	18.5	20	6					73	87	1060
SEMI-	AUTOMATIC											
	1-24PP	1		3	6					57	84	1700
	2-24PP	2	2½" x 1½" (630mm)	7	14					67	93	1900
A	3-24PP	3		10	14	39	31	56	30	74	100	2050
	4-24PP	4	24.8"	14	14					80	107	2150
	5-24PP	5		17	14					89	116	2300
	6-31PP	6		12	14					82	109	4200
	8-31PP	8	3" x 2"	16	17					92	119	4450
B	10-31PP	10	(800mm)	20	17	48	40	63	30	102	129	4900
	15-31PP	15	31.5"	30	2 X 14					127	154	5500
	20-31PP	20		40	2 X 14					152	179	6000
	25-48PP	25	411 011	19	60					105	133	11,380
D	30-48PP	30	4" x 2"	23	60	66	58	0.7	40	116	144	11,850
"	40-48PP	40	(1200mm)	30	60	00		97	49	141	169	13,100
	50-48PP	50	47.2"	38	2 X 60					163	191	14,000

DIMENSIONS





RECESSED PLATE FILTER PRESS



TO ORDER, use Price Code Number

MODEL	CUBIC	PRICE CODE NUMBER				
WIODEL	FEET	NON-GASKETED	GASKETED			
0.6-18PPMH	0.6	43-0804	43-0804 G			
1-18PPMH	1	43-0805	43-0805 G			
2-18PPMH	2	43-0806	43-0806 G			
3-18PPMH	3	43-0807	43-0807 G			
1-24PP	1	43-0601	43-0601 G			
2-24PP	2	43-0602	43-0602 G			
3-24PP	3	43-0603	43-0603 G			
4-24PP	4	43-0604 A	43-0604 AG			
5-24PP	5	43-0605 A	43-0605 AG			

MODEL	CUBIC	JBIC PRICE CODE NUMBER						
WODEL	FEET	NON-GASKETED	GASKETED					
6-31PP	6	43-0606	43-0606 G					
8-31PP	8	43-0608	43-0608 G					
10-31PP	10	43-0610	43-0610 G					
15-31PP	15	43-0615 A	43-0615 AG					
20-31PP	20	43-0620 A	43-0620 AG					
25-48PP	25	43-0625 A	43-0625 AG					
30-48PP	30	43-0630 A	43-0630 AG					
40-48PP	40	43-0640	43-0640 G					
50-48PP	50	43-0650	43-0650 G					

OPTIONAL EQUIPMENT

Other options such as high-pressure units, pre-coat and body feed systems, catwalks, platforms and ladders are available and will be quoted upon request.

DESCRIPTI	ON	PRICE CODE NO.
Air diaphragm pump, Polypropylene w/nitrile See Bulletin P-605	½" - 14 GPM 1" - 40 GPM 1½" - 130 GPM	55-7287 55-7602 55-7615
Drum disposal system ¹ - w/extended legs & chu Semi-automatic 24"	ute	43-0648
Self-dumping sludge hc 6 cu. ft. (36" L x 42" W x 14 cu. ft. (48" L x 42" W 17 cu. ft. (60" L x 42" W 60 cu. ft. (60" L x 60" W	(27" H) (x 27" H) (x 27" H)	43-0641 43-0643 43-0681 43-0682
PRESS-FULL indicator		43-0668

DESCRIPTION	PRICE CODE NUMBER				
FOR PLATE SIZE	18"	24"	31"	48"	
Pneu. plate spreader	-	43-0680	43-0656	43-0658	
Safety light curtains	-	-	43-0659	43-0661	
Replacement cloth Non-gasketed Gasketed	SF-U18 <u>*</u> SF-U18 <u>*</u> G	SF-U24 <u>*</u> SF-U24 <u>*</u> G	_	SF-U48 <u>*</u> SF-U48 <u>*</u> G	
Expander piece (For the future addition of up to 10 plates) ²	43-0672	43-0673	43-0674	43-0675	
Additional plates (each)	43-0676	43-0677	43-0678	43-0679	
Automatic pump control ³ 3 stage 4 stage	43-0662 43-0670				
Hydraulic interlock for feed pump air supply		43-0	0671		

¹ AA Size - Manual Hydraulic units are designed to drop sludge directly into 55 gal. drums.

² Standard press allows for the addition of 4 plates.

³ Alllows progressively increasing air pressure on diaphram pump to attain a denser, drier cake.

 $^{^{\}star}$ To designate cloth position, add to Price Code Number: H Head T Tail M Intermediate

OIL FILTRATION and RECONDITIONING SYSTEMS

O-104_G

2900 MacArthur Blvd. Northbrook, IL USA 60062 WWW SERFILCO.COM (800) 323 - 5431



HAND-CARRY for remote or field servicing



TRANS-O-FILTER w/optional coalescing chamber



OIL RECONDITIONING STATION for salvaging oils in large volume

For renewal of:

Hydraulic fluids / Lubricating oils
Cutting fluids / Oil & water based coolants
EDM — dielectric fluids / Synthetic oils

- Protect expensive machinery from damaging dirt and abrasives
- Quick payback Save disposal costs, re-use filtered liquid and lower biocide usage
- No down-time while restoring liquid to original level of cleanliness
- Optional coalescers to separate immiscible fluids

Oil contamination is the major cause of hydraulic equipment failure. Even fresh oil, right from the drum, may contain contaminants at levels exceeding new equipment manufacturers' standards. Petroleum products such as hydraulic fluids don't wear out. Filter them to like-new condition. Add new product only to make up for losses and to replenish additives.

Trans-O-Filter Systems effectively filter petroleum and synthetic fluids to remove abrasive grit and damaging sludges which contaminate and accumulate in hydraulic and lubricating oil circuits and reservoirs. They protect your machinery and system investments by eliminating pump damage, scored cylinders and the malfunction of valves and controls attributed to the destructive action of dirty or rancid oil. These systems offer you high flow rates and large dirt holding capacities in very compact packages. Each unit is designed to be completely self-contained; consisting of pump, motor, suction strainer and hoses. Carbon steel filter chamber will accommodate filter media down to 1 micron retention to meet your specific requirements. (Order filter media separately.)

Oil reconditioning stations salvage contaminated oils for further use by removing sludges, water and other suspended foreign material. Systems accelerate natural settling action with controlled elevated temperatures. Residual fine particulate are then removed by a polishing filter of inert depth type media. If removal of oxidation products is desirable, the polishing filter can be equipped with absorbent Fuller's Earth

Optional coalescing chambers provide a means to separate immiscible fluids such as tramp oil or water. These coalescers will handle dissimilar liquids with specific gravity differences of 0.09 and greater. The resulting effluent contains less than 10 PPM of the discontinuous phase.

STANDARD TRANS-O-FILTER1 SYSTEMS INCLUDE:

- Carbon steel filter chamber with 75 psi maximum rating. "O"-ring closure is EPDM on portable model, Buna-N on all others.
- Positive displacement self-priming gear pump with built-in relief valve set at 35 psi, Buna-N mechanical seal and 40 mesh suction strainer. Motor: 115-230V/1/60, 1725 RPM, TEFC, with 8 ft. of 3-wire extension cord and 3-prong plug. Units wired 115V standard.
- Also available with air operated diaphragm pump, polypropylene with Teflon[®] internals.
- 10' suction and discharge hoses (vinyl on portable; Buna-N and neoprene on others).
- 5. Petcock vent and drain plug.
- 6. Pressure gauge mounted on gauge snubber to indicate dirty filter.
- 7. Completely assembled stationary models mounted on a vinyl coated steel base. Mobile models include 2-wheel upright hand cart with handle.
- 8. Painted machine tool gray with two-part epoxy paint.
- Optional coalescing chambers include Pyrex® sight glass and coalescing element ².
 - ¹ For liquid temperatures up to 200°F. ² For liquid temperatures up to 160°F.

--



OIL FILTRATION / RECONDITIONING SYSTEMS

O-104_G









13

HAND-CARRY ce • Small hydraulic reservoirs

- Remote location service
- Hydraulic door openers
- Escalator / elevator service
- Ideal for machine-tool servicemen

ol added benefit of filtration

- Easy to move to site of required oil filtration
- Includes motor starter (electric drive models)
- PORTABLE (on wheels)
 - Ideal for field service personnel

Transfer from drum to

machine reservoir and get

MACHINE MOUNT

- Ideal for mounting to press or machine tool
- Support / extend original equipment filter system
- Mounts next to oil reservoir
 - For permanent installation and continuous duty filtration

STATIONARY

- Provides same filtration as portable models, but mounted on a vinyl coated steel base
- Designed to be piped in place for high flow service on medium to large reservoirs
- Excellent for continuous recirculation of large central oil / coolant storage tanks

TOORDER, use PRICE CODE NO.

	PRICE	MODEL	FLOW	NO. OF	FILTER SURFACE	SUCTION x DISCHARGE	MOTOR H. P.	DIMENSIONS L x W x H	SHIP WT.
HAND-CARRY	CODE NO.		GPH	CARTS.*	AREA	HOSE SIZE		Inches	Lbs.
Includes protective hood and sturdy carrying handle.	1402 A	S10 1/2S TS3	180	1 - 10"	3.5 sq. ft.	3/8" x 3/8"	1/3	13 x 9 x 15	60
Painted machine tool gray.	1429	S20 1/2S TS3	100	2 - 10"	7.0 sq. ft.	3/0 / 3/0	1/3	23 x 9 x 15	65

MACHINE MOUNT

With wall mount base plate.	1430	MMS20 1/S TS3		2 - 10"	7.0 a a ft	3/8" x 3/8"	1/2	14 × 14 × 7	60
Painted machine tool gray.	1430	IVIIVI52U 725 153	100	2-10	7.0 sq. it.	3/0 X 3/0	1/3	14 X 14 X /	00

	PRICE	MODEL	FLOW	NO. OF	FILTER SUR-	SUCTION x DISCHARGE	MOTOR H.P./	DIMENSIONS LxWxH	SHIP WT.
PORTABLE	NO	MODEL	GPH	CARTRIDGES *	FACE AREA	HOSE SIZE	SCFM@ PSI	Inches	Lbs
Electric	1405 B	S1(718)1/2BTS6-P-ST4-PS	360	1 - 4" or 7" x 18"	29.0 sq. ft.	3/4" x 1/2"	1/2	18 x 17 x 46	115
drive	1407 B	S50(1) 1/2 B TS3-P-ST4-PS	180	5 - 10"	17.5 sq. ft.	3/4" x 1/2"	1/3	18 x 17 x 46	115
models	1410 B	S100(2) 1/2 BTS6-P-ST4-PS	360	10 - 10"	35.0 sq. ft.	3/4" x 1/2"	1/2	18 x 17 x 46	125
Illouels	1413 B	S150(3) 1 B TS9-P-ST4-PS	540	15 - 10"	52.5 sq. ft.	1" x 1"	1	18 x 17 x 52	130
Air	1437	S1(718) 1/2B PPTF1/2-P-PRV	480	1 - 4" or 7" x 18"	29.0 sq. ft.	3/4" x 1/2"	5 @ 50	18 x 17 x 46	110
drive	1438	S50(1) 1/2 B PPTF1/2-P-PRV	480	5 - 10"	17.5 sq. ft.	3/4" x 1/2"	5 @ 50	18 x 17 x 46	110
models	1439	S100(2) 1/2 B PPTF1/2-P-PRV	480	10 - 10"	35.0 sq. ft.	3/4" x 1/2"	5 @ 50	18 x 17 x 46	120
illoueis	1440	S150(3)1B PPTF1-P-PRV	600	15 - 10"	52.5 sq. ft.	1" x 1"	10 @ 40	18 x 17 x 52	145

STATIONARY

Electric	1416A	S1(718) 1/2S TS6-PS	360	1 - 4" or 7" x 18"	29.0 sq. ft.	3/4" x 1/2"	1/2	30 x 13 x 30	105
drive	1418 B	S50(1) 1/2STS3-PS	180	5 - 10"	17.5 sq. ft.	3/4" x 1/2"	1/3	30 x 13 x 25	115
models	1422 B	S100(2) 1/2STS6-PS	360	10 - 10"	35.0 sq. ft.	3/4" x 1/2"	1/2	30 x 13 x 37	125
models	1426 B	S150(3) 1STS9-PS	540	15 - 10"	52.5 sq. ft.	1" x 1"	1	30 x 13 x 47	130
Air	1441	S1(718) 1/2S PPTF1/2-PRV	480	1 - 4" or 7" x 18"	29.0 sq. ft.	3/4" x 1/2"	5 @ 50	30 x 13 x 30	100
drive	1442	S50(1) 1/2S PPTF1/2-PRV	480	5 - 10"	17.5 sq. ft.	3/4" x 1/2"	5 @ 70	30 x 13 x 25	95
models	1443	S100(2) 1/2S PPTF1/2-PRV	480	10 - 10"	35.0 sq. ft.	3/4" x 1/2"	5 @ 70	30 x 13 x 37	120
inodels	1444	S150(3) 1/2S PPTF1-P-PRV	600	15 - 10"	52.5 sq. ft.	1" x 1"	10 @ 40	30 x 13 x 47	135

OIL RECONDITIONING STATIONS

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431

TRANS-O-FILTER OPTIONS

ADD DESCRIPTION TO END OF MODEL NO. CODE NO. Coalescing chamber with K4x11N element(s) included. 1 element chamber -1F8 O-1235 (Portable or stationary models only.) By-pass piping including 3 two-way -BP valves for convenient transfer to O-1199A by-pass filter. (Not for Hand-Carry) Portable base with two swivel and two fixed -P O-1428 casters. (For stationary models only.) Push button single phase motor starter with -ST4 overload protection in water/oil tight enclo-0-1214 sure. (Standard with portable models). Viton® elastomers **-**V Add to PCN -V

FILTER MEDIA

DESCRIPTION	MICRON RETENTION	PRICE CODE NO.				
2½" x 10" depth wound cotton filter cartridges on tinned steel core	5 10 15 30 50 75 100	5C10TC 10C10T 15C10T 30C10T 50C10T 75C10T 99C10T				
4" x 18" depth wound cotton filter cartridges on 304 stn. steel core	1 3 5 10 20 30	1B18A4 3B18A4 5B18A4 10B18A4 20B18A4 30B18A4				
3" x 10" pleated paper cartridges	1 5 10	PL310-1 PL310-5 PL310-10				

NOTE:

Order filter and coalescing media separately. Consult Sales Dept. for other cartridges.

Consult Sales Dept. for custom or special models, custom paint, Viton hose, three-phase motors or explosion-proof motors.

COALESCING ELEMENTS

DE	SCRIPTION*	MODELNO.	PRICECODENO.
Polypropyl	/ 304 SS / Buna-N	K4x11N	88-3248
	ene / 304 SS / Buna-N	K4x11P	88-3249
	/ 304 SS / Buna-N	K4x11G	88-3250

^{*} Media / Core / Cap

OIL RECONDITIONING STATIONS

INCREASE TOOL LIFE, REDUCE PRODUCTION COSTS BY RECYCLING CUTTING OILS FOR RE-USE

PURIFIES ALL TYPES OF LUBRICANTS

The station at right is extremely well suited for screw machine oil coolants. Cutting oil, lapping oil, honing oil, hydraulic oils, synthetic oils, lubricating oils, vacuum pump oils, compression oil and many other special oils can be economically restored.

EASY, LOW COST OPERATION

This station is very compact as well as easy and economical to operate. It features a cone bottom settling tank equipped with a thermostatically controlled electric heating element that raises the temperature of the contaminated oils. This accelerates the natural settling of suspended foreign material into the cone for easy removal. The station also includes a positive displacement pump with a pressure relief valve, a TEFC motor, a pressure filter with gauge and a clean oil storage tank.

Models with a 50, 250, 500, 1000 or 2000 gallon settling capacity are available.



Interconnected valve arrangement enables product to be conveniently transferred according to the need and clarification required.

- 1. Pump dirty oil from a floor drum to a settling tank.
- 2. Transfer and filter settled oil from settling tank to storage tank.
- 3. Recirculate and filter oil in storage tank.
- 4. Transfer and filter settled oil from settling tank to floor drum.
- 5. Recirculate and filter oil in floor drum.
- 6. Draw clean oil from storage tank to container.
- 7. Pump clean oil from storage tank to container or machine.

CARBON PURIFICATION CHAMBERS



FOR GRANULAR CARBON OR MAXI-CARB POWDERED CARBON CARTRIDGES

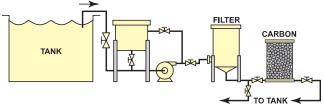
- Bulk Carbon Chamber for maximum amount of granular carbon
- Carbon Canister Chamber for convenient refill of granular carbon and interchangeability with C528PE or C548PE powdered carbon cartridges.

Carbon purification chambers offer a simple, low-cost, but effective method of removing organic impurities from plating baths and other chemical solutions.

- Smoother, brighter deposits
- Fewer rejects
- Reduced tank downtime

Connect to your existing filtration system for continuous carbon treatment. Recommended installation (shown below) provides side-stream flow through carbon for best control of results. One or two months of operation is not unusual before carbon change is necessary.

Complete matched systems — pump, filter, carbon chambers — are available to meet any size and type of production requirement.







CARBON PURIFICATION CHAMBERS Specifications

R-102_T

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431

MODEL	SERIES	FLOW ¹ GPM	TRAP ² FILTER	CAR CAP	BON ACITY	PRICE CODE NUMBER			
SERIES 'S' & 'G' FOR BULK GRANULAR CARBON				Cu. ft.	Lbs.	PVC	CPVC	PP	
CL630CS 1-G3	S	2 - 6	2 - 6 (1) Screen		13	78-1424	78-1424 C	78-1424 PP	
CL630CS 1B-G3	s	(Same as ab	ove w/bracket)	.42	13	78-1425	78-1425 C	78-1425 PP	
CL1230CSIO 11/2-G3A	G	5 - 25	(3) Screens	1.6	50	78-1923 P	78-1923 C	78-1923 PP	

Chamber made of CPVC, PVC or PP with polypropylene trap screens. Swing bolt cover closure and pressure gauge with diaphragm guard. When ordering PVC chamber, change CL to PL in Model Number. To order PP chamber, change CL to PPL.

SERIES 'S' & 'G' w/CANISTER FOR GRANULAR CARBON 3					Lbs.	PVC	CPVC	PP
CL1(528P)CCS 1-G3	S	1 - 5	(1) 03U10U	1	7	78-1427	78-1427 C	78-1427 PP
CL3(528P)CCSIO 11/2-G3A	G	3 - 15	(3) 03U10U	3	21	78-1913 P	78-1913 C	78-1913 PP
CL3(548P)CCSIO 11/2-G3A	G	6 - 15	(3) 03U20U	3	36	78-1915 P	78-1915 C	78-1915 PP

Chamber made of CPVC, PVC or PP with canister with inlet screen and a built-in trap filter. CPVC and PVC chamber have PVC canister. PP chamber has PP canister. Swing bolt cover closure and pressure gauge with diaphragm guard. When ordering PVC chamber, change CL to PL in Model Number. To order PP chamber, change CL to PPL

SERIES 'S' & 'G' w/MAXI-CARB CARTRIDGE				Cartridge	Lbs.	PVC	CPVC	PP
CL1(528M)CS 1-G3	S	1 - 5	_	1	3	78-1626	78-1626 C	78-1626 PP
CL3(528M)CSIO 11/2-G3A	G	3 - 15	_	3	9	78 - 1963 P	78-1963 C	78-1963 PP
CL3(548M)CSIO 11/2-G3A	G	6 - 15	_	3	17	78-1965 P	78-1965 C	78-1965 PP

 $Chamber \ made \ of \ CPVC, \ PVC \ or \ polypropylene. \ Swing \ bolt \ cover \ closure \ and \ pressure \ gauge \ with \ diaphragm \ guard.$ When ordering PVC chamber, change CL to PL in Model Number. To order PP chamber, change CL to PPL.

SERIES 'HF' w/CANISTER	Canister	Lbs.	PVC	CPVC			
CL7(528P)CCS 2-G3A	HF	10 - 35	(7)03U10U	7	49	78-1669 P	78-1669 C
CL7(548P)CCS 2-G3A	HF	10 - 35	(7)03U20U	7	84	78-1670 P	78-1670 C

Chamber made of CPVC or PVC with PVC canister with inlet screen and a built-in trap filter. Swing bolt cover closure and pressure gauge with diaphragm guard.

When ordering PVC chamber, change CL to PL in model number.

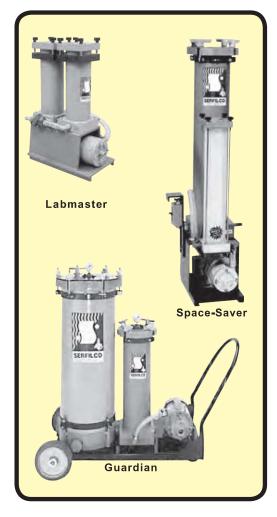
- Design flow rates may vary, but the lower value offers the maximum adsorbency and the most efficient purification for each gallon processed.
- To order trap filter cartridges, see Bulletin M-109
 May also be used with C528PE and C548PE powdered carbon cartridges. See Bulletin M-305. (Ordered separately)

INITIAL AND REPLACEMENT CARBON

GRANULAR ACTI	GRANULAR ACTIVATED CARBON									
Activated with steam for high adsorption capacity										
COCONUT SHELL BASED										
40 00 MEQU	LBS.	PCN								
12 x 30 MESH STANDARD	10	99-0997-10								
STANDARD	50	99-0997-50								

(*) (*)

CARBON PURIFICATION SYSTEMS

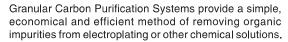


THE BEST AND LOWEST COST WAY TO PURIFY BRIGHT NICKEL, ACID COPPER AND SIMILAR SOLUTIONS.

- Modular design accommodates custom requirements
- Eliminates down-time
- Compact pre-engineered systems can be used on multiple baths thus saving in equipment cost
- Systems are adaptable to almost any type of use:

Continuous or intermittent, total or partial flow, with or without pre-filtering

- Leakproof assembly, easy servicing
- Magnetic-coupled pump
- Available for use with:
 Bulk carbon, carbon canister or carbon cartridges
- Optional pre-filter



Three product lines are offered: Labmaster, Space-Saver, and Guardian. The user can choose the particular model that is right for his/her application, flow rates, and the degree of solution purity required. Carbon canisters include trap filter.

Connect the Carbon Purification System to your plating tank to achieve efficient organic removal. Select a system with replaceable carbon cartridges or with a chamber which has removable and refillable bulk carbon canister. The latter also accept C528PE powdered carbon cartridges which are interchangeable with the canisters.

Seal-less, leak-proof pumps are rugged enough for continuous duty in systems that require total flow through the carbon chamber for effective organic removal, or they can be used at partial flow, as required. Units can be connected to a plating bath for continuous carbon treatment, then disconnected and used on another tank. Thus, one system can serve several tanks.

Pre-filters, offered optionally, protect the carbon from contamination by efficient removal of solid impurities that could render the carbon inefficient.

Larger and custom systems available to meet your particular application. Consult Sales Dept. for assistance.





CARBON PURIFICATION SYSTEMS

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431

The following systems are designed for full flow through a filter and purification chamber. These systems are usually used in conjunction with filtration systems which are sized to remove the bulk of solids from the solution being treated. Therefore, the filters offered on these systems are sized to hold only the solids which have not been picked up with the main filter.

MODEL NUMBER	FLOW RATE ¹ GPM	RATE' MAX. CHAMBER CHAMBER LXWXH TEFC NUMBER					PRICE CODE NUMBER			
LABMASTER® FOR CARBON CARTRIDGES WITH PRE-FILTRATION										
PCL10 x PCL10CC ½V APSV PCL20 x PCL20CC ½V APSV PCL30 x PCL30CC ½V APSV	1 - 2 1 - 4 1 ¹ / ₂ - 5	9	1 of CU10P 1 of CU20P 1 of CU30P	1 of 15U10U 1 of 15U20U 1 of 15U30U	10 x 7 x 23 10 x 7 x 33 10 x 7 x 43	1/12	S-0385 B S-0386 B S-0387 B			

Systems consist of two clear PVC chambers; the first for depth cartridges, the second for carbon cartridges. The pump is magneticcoupled, made of glass-filled polypropylene. Reinforced vinyl

ses, 6 ft. suction and 6 ft. discharge with CPVC fittings included. System is mounted on a corrosion resistant base.

SPACE-SAVER® WITH CANISTER FO	w/CPVC Chamber	w/PVC Chamber*						
CL1(528)S ³ / ₄ V BPSV-G3 CL1(528)S x PCL30 ³ / ₄ V BPSV-G3	11/2 - 5	13	7 lbs. carbon for 1 canister	_ 3 of 15U10U	13 x 9 x 47	1/6	S-0413 A S-0414 A	S-0413 AA S-0414 AA

Systems are assembled without or with clear PVC pre-filter chamber for depth cartridges as indicated and a CPVC carbon chamber with one PVC refillable canister with trap filter for granular carbon. The pump is magnetic-coupled, made of glass-filled polypropylene. Reinforced vinyl hoses, 10 ft. suction and 10 ft. discharge, CPVC and polypropylene fittings. System, mounted on a corrosion resistant base, includes -G3 pressure gauge on polypropylene gauge guard with EPDM diaphragm.

* For PVC – change CL to PL in model number.

GUARDIAN® WITH CANISTERS FOR	w/CPVC Chamber	w/PVC Chamber*						
CL3(528P)CCS ³ / ₄ C MPLCR 1A-C.5-G3A CL3(528P)CCS x CL60(2)S ³ / ₄ C MPLCR1A-C.5-G3A	41/2 - 15	22	21 lbs. carbon for 3 canisters	_ 6 of 15U10U	33 x 18 x 53	1/2	S-0357 F S-0358 F	S-0357 FA S-0358 FA

 $Systems\ are\ assembled\ without\ or\ with\ CPVC\ or\ PVC\ pre-filter\ chamber$ for depth cartridges as indicated and a CPVC carbon chamber with three PVC refillable canisters with trap filter for granular carbon. The pump is magnetic-coupled, made of polypropylene. System, mounted on a PVC base, includes -G3A pressure gauge on polypropylene gauge guard with EPDM diaphragm and CPVC air release valve. * For PVC - change CL to PL in Model Number.

OPTION	IAL	ADD TO MODEL	PRICE CODE NO.			
Portable - addition of two wheels For Labrian - two fixed wheels, two swivel casters	naster 20" & 30" models and Space-Saver	- P	O-0191			
	For Guardian	- P	O-0454			
Flow control valve on pump discharge	¹ / ₂ " for Labmaster	-V1	O-CV12			
	³ / ₄ " for Space-Saver, Guardian	-V1	O-0984			
Motor starter with overload protection, push button,	waterlight, 1 phase	-ST4	O-MS1P			
Optional 3	-phase (for all systems except Labmaster)		O-MS3P			
Operating voltage - under 1 HP, 3-phase motor (exc	perating voltage - under 1 HP, 3-phase motor (except Labmaster)					
50 Hz operation - Consult Sales Dept.		_	_			

¹ Design flow rates may vary, but the lower value offers the maximum adsorbency and the most efficient purification for each gallon processed.

 $^{^2}$ $\,$ All motors are 115/230V/1/60, 3450 RPM and include 8 ft. of 3-wire cord and plug. Motors are wired for 115V operation, unless otherwise requested.

⁽⁵²⁸P) canister includes 03U10U trap filter cartridge.

 $^{^{4} \}quad \text{Filter cartridges, carbon cartridges and bulk carbon must be ordered separately.} \\$ To order: Filter cartridges, see Bulletin M-109
Carbon cartridges, see Bulletin M-109
Bulk carbon, see Bulletin R-102



ION EXCHANGE RESIN CHAMBERS and SYSTEMS



For PRECIOUS METAL RECOVERY

These resin systems can recover gold and other metals from plating operations easily and economically. Select the proper resin for gold recovery from acid or cyanide rinse water. Depth of resin column assures good solution contact for maximum metal recovery. Gold is recovered by incinerating the resin. Units have early payback; one cubic foot of resin can retain 70 to 100 troy ounces of gold.

For HEAVY METAL REMOVAL/RECOVERY

Recover heavy metals from metal finishing rinse water and printed circuit board manufacturing. Effluent is suitable for discharge or bath replenishment. Concentrated regenerate can be chemically treated for disposal or possible recovery.

For WATER PURIFICATION

Units provide high quality deionized water when filled with a strong base mixed-bed resin. Product water is low in dissolved solids, ${\rm CO}_2$ and silica, with a resistivity of 10 megohms or higher. Resin has built-in resistance color indicator, changing from purple to golden brown to indicate resin exhaustion.

- NON-METALLIC SOLUTION CONTACT
- MAGNETIC COUPLED PUMP (Systems)
- EASY SERVICING WITHOUT TOOLS

CONSTRUCTION

Chambers are available in translucent PVC, PVC, or fiberglass reinforced polyethylene shell, in sizes from 0.15 to 15 cubic feet of resin. Built-in strainers help prevent resin migration. Seal-less magnetic coupled pumps provide leak-proof operation with minimal maintenance. All systems are mounted on a base, ready to connect and operate.

PLUS OPTIONAL . . .

FLOW CONTROL VALVE – For most effective exchange. Recommended to control flow through resin.

RESIN CANISTER CHAMBER – For convenient refill of resin. Trap filters are 30 micron depth wound cartridges.

CHOICE of SYSTEMS - with or without PRE-FILTERS

Pre-filters are highly recommended to remove suspended solids that decrease resin capacity. Installed in-line upstream of the resin, filter can be ordered with the unit or installed separately. Must be sized according to dirt load and volume to be treated.





ION EXCHANGE Specifications and Ordering Information

R-201_M

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431

SYSTEMS

For precious metal recovery, heavy metal removal/recovery or purification of rinse water using standard resins.

Systems are assembled with or without a pre-filter chamber (CPVC base & cover with translucent PVC shell) for depth wound cartridges as indicated, followed by a refillable resin chamber with CPVC cover and base and PVC (PL) shell or translucent PVC shell (PCL), with 250 micron polypropylene strainers to prevent resin migration.

To maintain an effective resin surface, these systems should be used in conjunction with suitable filtration systems to remove the bulk of solids from the solution being treated. The pre-filters offered on these systems are sized to hold only the solids which have not been removed by the main filter.

The pump is magnetic coupled, made of glass filled polypropylene. Systems include reinforced vinyl (PVC) hose, CPVC fittings and corrosion resistant base.

Filter cartridges² and resin³ ordered separately

MODEL	FLOW RATE ¹	MAXIMUM FLOW RATE	MAX	RESIN CHAMBER	FILTER CHAMBER	HT.	TEFC	SHIP. WT.	PRICE CODE
MODEL		GРН	PSI	(cu. ft of resin) ³	(recommended depth cartridge) ²	(in.)	MOTOR	(lbs.)	NO.

LABMASTER SYSTEMS FOR BULK RESIN - (A) without pre-filter and (B) with pre-filter

(A) PCL430R 5/8V AAPSV	30	100	0	.15		44	1/12 HP	37	0365 A
(B) PCL430R x PCL10 5/8V AAPSV	30	100	0	.15	1 of 15U10U	41	115V/1/50-60	45	0326 A

System is mounted on a PVC hooded base.

To order system with canister for resin, change **R** to **RC** in Model No. and add **C** to Price Code No.

SPACE-SAVER SYSTEMS FOR BULK RESIN - (A) without pre-filter and (B) with pre-filter

PL630RS 3/4V BAPSV PL630RS x PCL20 3/4V BAPSV	70	480	13	5	 2 of 15U10U	47	1/6 HP 115/230V/	95 105	0383 C 0380 D
PCL630RS 3/4V BAPSV PCL630RS x PCL20 3/4V BAPSV	12	460	13	.5	 2 of 15U10U	47	1/60	95 105	0384 A 0380 C

System is mounted on a PVC hooded base.
To order system with canister for resin, change **RS** to **RCS** in Model No. and add **C** to Price Code No.⁴

To order system with bag resin (one .5 cu. ft. bag), change **RS** to **RBS** in Model No. and add **B** to Price Code No.

GUARDIAN SYSTEMS FOR BULK RESIN - (A) without pre-filter and (B) with pre-filter

(A)	PL1230RS 3/4V MPLCR 1A-C.5	400	1200	19	1.8		53	1/2 HP	115	2705 B	
(B)	PL1230RS x PCL20 3/4V MPLCR 1A-C.5		1200	19	1.0	2 of 15U10U	55	115/230V/1/60	125	2706 B	

System is mounted on a vinyl coated steel base.
To order system with canister for resin, change **RS** to **RCS** in Model No. and add **C** to Price Code No. 4

To order system with bag resin (two .9 cu. ft. bags), change **RS** to **RBS** in Model No. and add **B** to Price Code

¹ Recommended flow rate for maximum metal recovery.

² See product bulletin to order filter cartridges.

Refer to resin table on next page.

With canister, total resin capacity will be half and flow rates will be lower.



ION EXCHANGE Specifications and Ordering Information

R-201_M

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431

OPTIONAL EQUIPMENT

DESCRIPTION		FOR SYSTEM	Add to MODEL NO.	PRICE CODE NO.	
Flow control valve	1/2" NPT 3/4" NPT	Labmaster, Space-Saver, Guardian	-V1	0981 0984	
Motor starter w/overload protection, pushbutton, NEMA 4 watertight, 115V/1/50-60		Labmaster, Space-Saver, Guardian	-ST4	MS1P	
Portable - two wheels		Space-Saver	-P	0378	
Portable - two fixed wheels, two swivel casters		Guardian	-۲	0454	
Priming chamber for 6 MRGR		Guardian	-PC4	PC4	



RESIN (initial and replacement)		1.0 cu. ft.*	
(initial and replacement)		Price Code Number	
For precious metal recovery	Alkaline Acid	1316 1322	
For deionizing water, mixed bed resin	(DWI)	1328	

^{*} To order .25 cu. fit. add .25 to Price Code Number To order .5 cu. ft. add. 5 to Price Code Number

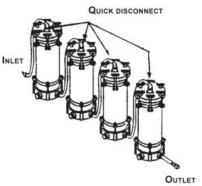
CUSTOM ION EXCHANGE SYSTEMS

This wide selection of resin chambers allows us to offer a variety of custom systems to meet most specific requirements and add to total resin volume for extended recovery.

All systems are connected with vinyl hose and quick disconnect couplings allowing individual chambers to be removed for regeneration without shutting down the system. All systems offer easy operation and service for exhausted INLET resin.

Pre-selected models listed below are 4-chamber models. Systems can be ordered with 2, 3, 4 or more resin chambers in series or parallel to meet a wide range of required resin capacities and flow rates. Systems can be ordered with or without pump and on a square or rectangular base, all ordered separately - consult Sales Department.

Bag chambers available for either one .5 cu. ft. bag or two .9 cu. ft. bags. With the choice of additional chambers, the amount of cation versus anion resin can be adjusted as required.



MODEL PL1230RS x 4 1V

Pre-selected 4-chamber models

MODEL NUMBER	CU. FT. OF RESIN	PRICE CODE NO.
PL630RSx4 3/4V 1	2	2860
PL640RSx4 3/4V 1	2.4	2861
PL1230RSx4 1V 1	7.2	2863
PL1250RSx4 1V	12.0	2864

 $^{^{\}rm I}$ For bag resin chamber, change RS to RBS in Model No. and add B to Price Code No.

For canister resin chamber, change **RS** to **RCS** in Model No. and add **C** to Price Code No.



ION EXCHANGE Specifications and Ordering Information

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431

ION EXCHANGE CHAMBERS



For in-line use with existing pressure piping (such as city water) or separate pump or recirculation, with pre-filter if required.

SERIES 'L' CHAMBER for bulk resin

Chamber has CPVC base & cover with translucent PVC shell with $\frac{3}{4}$ " NPT inlet and outlet ports, one 250 micron trap filter screen for use with bulk resin.

MODEL	INITIAL	RESIN	SHIP	PRICE
	FLOW RATE ¹	CAPAC.	WT.	CODE
	(GPH)	(cu. ft.)	(lbs)	NUMBER
PCL30R-3/4	30 - 100	.15	9	78-1633P

To order chamber with canister for resin, change **R** to **RC** in Model Number and add **C** to Price Code No.

For mounting bracket, add Price Code No. 44-3200 1.



SERIES 'S' & 'G' CHAMBERS for bulk resin

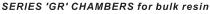
PVC chambers with three 250 micron screens for use with bulk resin. Series 'S' - $\frac{3}{4}$ " hose inlet and 1" NPT outlet ports, Series 'G' - $\frac{3}{4}$ " hose inlet and 1½" NPT outlet ports.

PCL630RS-1 ²	100 - 480	.5	30	78-1637
PCL640RS-1 ²	100 - 460	.7	50	78-1638
PL1230RSIO-11/2-G3A	200 400	1.8	90	78-1943P
PL1250RSIO-11/2-G3A	200 - 480	3.0	100	78-1945P

NOTE: With canister, total resin capacity will be half and flow rates will be lower.

- ¹ Flow rates may vary as indicated. The lower value is maximum capacity for the most efficient recovery from each gallon processed.
- Pror bag resin chamber, change RS to RBS in Model No. and add B to Price Code No.
 For canister resin chamber, change RS to RCS in

For canister resin chamber, change **RS** to **RCS** in Model Number and add **C** to Price Code No.





These economical and durable chambers are manufactured from high density polyethylene and fiberglass reinforced for superior strength. One-piece construction is one third the weight of steel and will not corrode or leak. Smaller chambers have molded polypropylene bases. Models GR2472 and GR3072 have heavy duty bases. Chambers are NSF approved. Maximum operating pressure: 150 PSI @ 120°F.

MODEL / CONNS.	TANK CAPACITY (cu. ft.)	NOM. DIMENSIONS DIA. x HEIGHT (inches)	SHIPPING WEIGHT (lbs.)	RESIN CA	APACITY ³ . ft.)	FLOW RATE ⁴ (GPM)	PRICE CODE NUMBER
	(64.71.)	(menes)	(103.)	50% EXP.	20% EXP.	(01 111)	NOMBLIX
GR1252-3/4	2.9	12.0 x 52.2	27	1.5	2.3	1.5 - 11.5	78-1336
GR1354-¾	3.7	13.0 x 54.3	30	1.8	3.0	1.8 - 15.0	78-1337
GR1465-1	5.5	14.3 x 65.4	42	2.25	4.4	2 - 22	78-1338
GR1665-1	6.5	16.0 x 65.4	45	3.25	5.2	3 - 25	78-1339
GR2472-2	10	24 x 81.8	195	5	8	5 - 40	78-1340
GR3072-2	15	30 x 83.5	272	7.5	12	7.5 - 60	78-1341

Trap screen: ABS .013" wide slot on all models.

BULK RESIN MUST BE ORDERED SEPARATELY. SEE PREVIOUS PAGE AND BULLETIN R-208.
ALL ION EXCHANGE CHAMBERS / SYSTEMS CAN BE USED WITH GRANULAR CARBON.
SEE BULLETIN R-103 FOR ADDITIONAL CARBON PURIFICATION CHAMBERS.

³ 50% expansion of bed for backwash / regeneration. See specification sheet for resin to be used. 20% expansion for swelling for non-regeneration system. See individual resin specification sheet.

⁴ Based on 1 - 5 GPM/cu. ft. of resin. See individual resin specification sheet.

ION EXCHANGE RESINS

R-208 E

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431

For: High purity water / Precious metal recovery Recirculated rinses / Waste treatment Heavy metal removal

MIXED BED RESIN

CATION RESINS

FOR MAKE-UP WATER AND RECIRCULATED RINSES Mixedbed resin is designed for use in a single column or multiple columns in series to provide water to a 20,000 ohm endpoint (25 ppm). Average quality less than 0.1 ppm prior to breakthrough. Use to demineralize make-up water such as for plating and EDM.

When used in recirculating rinses, the estimated capacity per cu. ft. is 470,000 divided by the MMHOS or 235,000 divided by ppm TDS.

When regenerated and reused, the capacity will only be 50 to 70% of the virgin resin.

Specially blended resin for pure recirculation of EDM systems.

DESCRIPTION	TYPE	PART NO. *
Mixed bed resin	MB400	1328
Mixed bed resin w/indicator dye	MB400IND	1328D

Provides maximum capacity for metallic ions. Not recommended for raw make-up water. Requires monitoring with a conductivity meter.

For gold and silver recovery from rinse water.

Specially blended resin for EDM recirc, systems MB378 1306
--

ANION RESINS

Can hold as much as 120 ounces per cu. ft., but is typically used up to only 50 to 75% of capacity.

Silver photographic solutions can be regenerated in a two-step operation using dilute sulfuric acid and a tap water rinse which causes the silver to precipitate in the resin. After up to 10 cycles the silver is recovered by incineration.

An anion resin in the OH form, maintains a high pH and helps prevent formation of hydrogen cyanide gas. Capacity for gold is

Resin for acid gold recovery and silver recovery from photographic solution	A600	1322
---	------	------

100 ounces per cu. ft. maximum. This anion resin is also used in two-step demineralization systems with the cation resin in the hydrogen form.

Supplied in the sodium form, will remove heavy metals from rinse waters for discharge. It will also remove calcium and

Resin for alkaline gold or	A600OH	1316
silver recovery	Account	1010

magnesium which will reduce its capacity for copper, nickel, trivalent chromium. We suggest the use of softened rinse water. Same function as the sodium form, but the discharge will be acidic. The cation resin in the hydrogen form is used

DESCRIPTION	TYPE	PART NO. *
Sodium form	C100E	1375

with the anion resin in the OH form (A600-OH) in two-step demineralization processes.

Specific ion resins have the capacity to remove specific types of metals from waste streams in the presence of other

Hydrogen form	C100H	1376
SPECIFIC	ION RESINS	

ions that would normally exhaust the resin. This ability allows the treatment of much larger volumes than with ordinary non-specific resins. Consult the Sales Department for specific details.

* Price per cubic foot.

Consult Sales Department for quantity pricing

Heavy metals removal cop- per, nickel, chrome, zinc, lead as cations at pH's 5 and below.	S930	1307
Precious metal removal from acid streams includ- ing aqua regia at pH 0-6, non-regenerable. Also for mercury removal as cation or anion	S920	1309
Heavy metal removal from waste streams.	S950	1310

and special packaging.

To order .5 cu. ft. bag - add .5B to Part No.





2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431

LIQUID / LIQUID SEPARATION

COMPACT, ECONOMICAL LIQUID SEPARATION SYSTEMS FOR USE WITH NON-EMULSIFIED SOLUTIONS UP TO 150°F.

SERFILCO Coalescing Systems are compact, economical, and simple to operate. Remove oils from rinse waters, cleaning solutions, plating solutions or waste effluents. Separate water or tramp oil from hydraulic fluids and machining coolants.

Highly effective systems pump, prefilter and separate nonemulsified fluids having a .09 or greater difference in specific gravity. Solution is pumped through prefilter, then coalescing element where small droplets are held until large enough to float to top of coalescing chamber. Light phase is discharged from top of coalescing chamber, heavy phase is discharged from bottom of coalescing chamber. Unwanted phase is perirodically bled off via manual flow control valve. Purified solution is directed back to tank or reservoir for re-use. Recovered effluent contains less than 10 ppm of the discontinuous phase. Carbon purification may be used to polish.

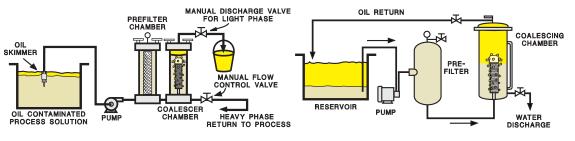
Standard coalescing systems include pump,* prefilter and coalescing chamber with manual light and heavy phase discharge valves. Prefilter media of 5 to 10 micron is required to protect coalescing element. Selecting a system with greater prefilter capacity will reduce prefilter cartridge and coalescing element consumption. If properly protected, coalescing element has indefinite life. Coalescing of fluids with excessive particulate loading is best accomplished when solution is first clarified with separate filtration system.

* Standard pumps are low shear positive displacement: flexible impeller, rotary gear or diaphragm. These pumps minimize emulsification in pump head and have self-priming capabilities. For removal of floating or light phase, pump suction must be connected to overflow weir or optional skimmer assembly. For removal of heavy phase solution, suction connection near tank bottom is recommended.



OIL SEPARATION FROM AQUEOUS RESERVOIR

WATER SEPARATION FROM OIL RESERVOIR





PLASTIC COALESCING SYSTEMS

Plastic coalescing system are best suited for separation of oil from aqueous based solutions. Non-metallic solution contact allows a wide range of chemical compatibility.

Plastic Coalescing systems include:

- Plastic prefilter chamber and coalescer with EPDM gaskets
- Light and heavy phase discharge valves on coalescer
- · Corrosion resistant mounting base
- 10 ft. suction and discharge hoses



AIR OPERATED PLASTIC COALESCING SYSTEMS

- Polypropylene air operated diaphragm pump with Telfon® internals
- Air pressure regulator
- Pump will run dry and self primes to 10 ft.

FL	ow	SCFM			PRE	FILTER1	COAL	.ESCER1	DIMENSIONS	SHIPPING
GPH @ 60 Hz	LPH @ 50 Hz	SYSTEM	EM @ I	PUMP	MEDIA/ CHAMBER SERIES	MATERIALS OF CONST. BASE / SHELL	MEDIA / CHAMBER	MATERIALS OF CONST. BASE / SHELL	L x W x H Inches	WEIGHT Lbs.
300	1363	S-1386A	2 @ 40	PPTF½"	1-20" / L	PVC/clear PVC	1-2.5"x10" / L	PVC/clear PVC	19" x 10" x 33"	70
300	1363	S-1387	2 @ 40	PPTF½"	1-20" / L	polypropylene	1-2.5"x10" / L	polypropylene	19" x 10" x 33"	70
600	2271	S-1388	10 @ 40	PPTF1"	3-10"/S	polypropylene	1-2.5"x10"/S	PP/clear PVC	29" x 10" x 33"	80
600	2271	S-1389	10 @ 40	PPTF1"	3-10"/S	polypropylene	1-2.5"x10"/S	polypropylene	29" x 10" x 33"	80
600	2271	S-1390	10 @ 40	PPTF1"	3-20"/S	polypropylene	1-2.5"x10"/S	polypropylene	29" x 10" x 33"	90
1500	5678	S-391	30 @ 80	PPTF1"	3-20"/S	polypropylene	1-6"x11" / G	polypropylene	33" x 18" x 33"	100
1500	4578	S-1392	30 @ 80	PPTF1"	3-30"/S	polypropylene	1-6"x11 / G	polypropylene	33" x 18" x 43"	100

ELECTRIC OPERATED PLASTIC COALESCING SYSTEMS

- Epoxy pump with Buna-N Flexiable impeller limited dry run capability
- Pump will self prime to 5 feet when wetted
- 115V/1/60, TEFC, 1725 RPM motor with- 8 ft. of 3-wire cord and plug

FL	ow			PREF	ILTER ¹	COAL	ESCER1	DIMENSIONS	SHIPPING
GPH @60 Hz	LPH @ 50 Hz	SYSTEM NUMBER	PUMP HP, MODEL	MEDIA/ CHAMBER SERIES	MATERIALS OF CONST. BASE / SHELL	MEDIA / CHAMBER	MATERIALS OF CONST. BASE / SHELL	L x W x H Inches	WEIGHT Lbs.
300	945	S-1394	1/3, 1/2 JPH	1-20" / L	polypropylene	1-2.5"x10" / L	polypropylene	14" x 10" x 33"	85
600	1890	S-1395	1/2, 3/4 JENH	3-10" / S	polypropylene	1-2.5"x10"/S	PP/clear PVC	24" x 10" x 33"	95
600	1890	S-1396	1/2, 3/4 JENH	3-10" / S	polypropylene	1-2.5"x10" / S	polypropylene	24" x 10" x 33"	95
600	1890	S-1397	1/2, 3/4 JENH	3-20" / S	polypropylene	1-2.5"x10"/S	polypropylene	24" x 10" x 33	105
1500	4725	S-1398	1, 1 JEESSNH	3-20" / S	polypropylene	1-6"x11" / G	polypropylene	50" x 18" x 33	115
1500	4725	S-1399	1, 1 JEESSNH	3-30" / S	polypropylene	1-6"11" / G	polypropylene	50" x 18" x 43"	115

¹ Filter media and coalescing media ordered separately. See page 4.



METAL COALESCING SYSTEMS

Metal coalescing system are best suited for removing oil from synthetic machining fluids, oils from alkaline solutions or trace water from petroluem base fluids.

Metal Coalescing systems include:

- Metallic prefilter chamber and coalescer with Buna-N Sight glass on coalescer gaskets
- Light and heavy phase discharge valves on coalescer
- Corrosion resistant mounting base
- · 10 ft. suction and discharge hoses

AIR OPERATED METAL COALESCING SYSTEMS

- Polypropylene air operated diaphragm pump with Teflon® interals
- Pump will run dry and self prime to 10 ft.
- Air pressure regulator

STEEL

FL	ow	SYSTEM	SCFM		PR	REFILTER1	COA	LESCER1	DIMENSIONS	SHIPPING
GPH @ 60 Hz	LPH @ 50 Hz	NUMBER	@ PSI	PUMP	MEDIA	MATERIALS OF CONST.	MEDIA	MATERIALS OF CONST.	L x W x H Inches	WEIGHT Lbs.
480	1363	S-1283	5 @ 50	PPTF½"	5-10"	carbon steel	1-4" x 11"	carbon steel	42" x 13" x 37"	150
480	2271	S-1284	5 @ 50	PPTF½"	5-20"	carbon steel	1-4" x 11"	carbon steel	42" x 13" x 37"	160
600	5678	S-1285	10 @ 40	PPTF1"	5-30"	carbon steel	1-4" x 11"	carbon steel	42" x 13" x 37"	170

STAINLESS STEEL

FLO	ow	SYSTEM	SCFM		PF	REFILTER1	COA	ALESCER1	DIMENSIONS	WEIGHT						
GPH @ 60 Hz	LPH @ 50 Hz		@ PSI						NUMBER @	PUMP	MEDIA	MATERIALS OF CONST.	MEDIA	MATERIALS OF CONST.	L x W x H Inches	Lbs.
480	1363	S-1286A	5 @ 50	PPTF1/2"	5 - 10"	304 stainless steel	5-2.5"x10"	304 stainless steel	42" x 13" x 37"	155						
480	2271	S-1287A	5 @ 50	PPTF1/2"	5 - 20"	304 stainless steel	5-2.5"x10"	304 stainless steel	42" x 13" x 37"	165						
600	5678	S-1288A	10 @ 40	PPTF1"	5 - 30"	304 stainless steel	5-2.5"x10"	304 stainless steel	42" x 13" x 37"	175						

ELECTRIC OPERATED METAL COALESCING SYSTEMS

- Cast iron or 316 stainless steel gear pump best suited for fluid having lubricity and low particle load
- Pump will self prime to io ft.
- 115V/1/60, TEFC, 1725 RPM motor with 8 ft of 3-wire cord and plug

STEEL

FL	.ow		PUMP HP, MODEL	PREF	ILTER¹	COA	ALESCER1	PINENSIONS	
GPH @ 60 Hz	LPH @ 50 Hz	SYSTEM NUMBER		MEDIA	MATERIALS OF CONST.	MEDIA	MATERIALS OF CONST.	DIMENSIONS L x W x H Inches	WEIGHT Lbs.
180	567	S-1277	1/3, TS3	5 - 10"	carbon steel	1-4"x11"	carbon steel	42" x 13" x 37"	175
360	1134	S-1278	1/2, TS6	5 - 20"	carbon steel	1-4"x11"	carbon steel	42" x 13" x 37"	195
540	1701	S-1279	1, TS9	5 - 30"	carbon steel	1-4"x11"	carbon steel	42" x 13" x 37"	215

STAINLESS STEEL

	FL	ow		DUMD UD	PREF	ILTER1	COA	LESCER1		
	PH @) Hz	@ LPH @ N	SYSTEM NUMBER	PUMP HP, MODEL	MEDIA	MATERIALS OF CONST.	MEDIA	MATERIALS OF CONST.	DIMENSIONS L x W x H Inches	SHIPPING WEIGHT Lbs.
1	80	567	S-1433A	1/2, TSS3	5-10"	304 stainless steel	5-2.5"x10"	304 stainless steel	42" x 13" x 37"	200
3	300	945	S-1434A	3/4, TSS5	5-20"	304 stainless steel	5-2.5"x10"	304 stainless steel	42" x 13" x 37"	225

¹ Filter media and coalescing media ordered separately. See page 4.



METAL COALESCING SYSTEMS

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431

PREFILTER MEDIA

MICRON	MEDIA	LENGTH (Inches)	CORE	PRICE CODE NO.
5	polypropylene	10	polypropylene	05U10U
5	polypropylene	20	polypropylene	05U20U
5	polypropylene	30	polypropylene	05U30U
10	polypropylene	10	polypropylene	10U10U
10	polypropylene	20	polypropylene	10U20U
10	polypropylene	30	polypropylene	10U30U
5	bleached cotton	10	tinned steel	05C10T
5	bleached cotton	20	tinned steel	05C20T
5	bleached cotton	30	tinned steel	05C30T
10	bleached cotton	10	tinned steel	10C10T
10	bleached cotton	20	tinned steel	10C20T
10	bleached cotton	30	tinned steel	10C30T



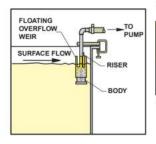
COALESCING MEDIA

MODEL	MATERIAL DESCRIPTION	DIMENSIONS	PRICE
	Media, Core, End Caps*	I.D. x O.D. x Length	CODE NUMBER
K2.5 x 10N	Nylon, polypropylene, EPDM	1" x 2.5" x 10"	88-3245
K2.5 x 10P	Polypropylene, polypropylene, EPDM		88-3246
K2.5 x 10G	Glass, polypropylene, EPDM		88-3247
K4 x 11N	Nylon, 304 stainless steel, Buna-N	1.8" x 4" x 11"	88-3248
K4 x 11P	Polypropylene, 304 stainless steel, Buna-N		88-3249
K4 x 11G	Glass, 304 stainless steel, Buna-N		88-3250
K6 x 11NPP	Nylon, Polypropylene, Buna-N	3" x 6" x 11"	88-0816

^{*} Viton® end caps (4 x 11 size only). Minimum order carton quantity. Add -V to Model and Price Code Number. Note: Carton quantity: 25 of 10", 10 of 11".

SKIMMER ASSEMBLY

Connect to pump suction to skim floating oils or debris. Constructed of polypropylene and CPVC.



	LIQUID	SKIM	IN	INLET / OUTLET **		RISER	BRACKET	PRICE		
MODEL	LEVEL	RATE	NPT		INLET	700000000000000000000000000000000000000	1/2"	CODE		
NUMBER	DIFFERENTIAL	GPH	PIPE	PORT			The state of the s	LENGTH	THICK	NO.
SK 1/2	2"	to 300	1/2"	3/8"	15"	13"	4" x 2"	99-0479		
SK 3/4	3"	to 600	3/4"	1/2"	18"	18"	4" x 2"	99-0498		
SK 1	4"	to 900	1"	3/4"	18"	18"	6" x 2"	99-0480		

To select skimmer: 1. Determine tank liquid level differential.
This will minimize dry pump operation.
2. Use skim rate as guideline for sizing.

- ** SK ½ to SK 1 have NPT inlet and hose adapter outlet, "C" clamp, hose clamp, lock screw and elbow hose adapter.
- Consult Sales Dept. for other skimmer sizes.

OPTIONAL

DESCRIPTION	PRICE CODE NO.
Motor starter Model -ST4	0-MS1P
Portable - 2 wheels and 2 legs on standard mounting base (metal & plastic systems)	O-0191
Sight glass for 1500 GPH coalescing chamber	O-1435
Viton ® chamber elastomers / Viton impeller (J-pumps)	Add -V to System No.



OIL SKIMMERS

2900 MacArthur Blvd Northbrook, IL. USA 60062 WWW SERFILCO.COM (800) 323 - 5431





- Phenolic or stainless steel disc
 For temperatures to 180°F
- Lightweight, easy to install, trouble free

BENEFITS

- Maintains solution surface free of oil
- Extends life of primary solution
- Less cleaning of piece parts
- Simplifies reclamation and disposal
 Collected oil can be sold, burned or filtered and reused

The SERFILCO Skim-Disc is an inexpensive investment when compared with fluid costs, maintenance costs and process effectiveness. The equipment pays for itself in a very short time. For ease of operation and cost effectiveness SERFILCO oil skimmers outperform other methods.

Oil adheres to the slowly rotating disc and is automatically channeled by stationary wiper blades in a collector trough. The Skim-Disc with phenolic disc is ideal for machine tool coolants or other nonaggressive fluids at temperatures below 150° F. The Skim-Disc with stainless steel disc is good to 180°F. With few moving parts, SERFILCO Skim-Disc is easy to install maintain, and simple to operate.



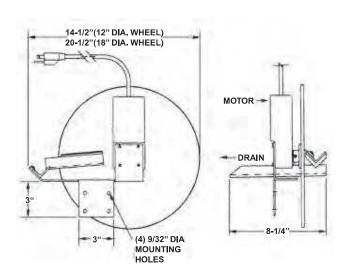
INSTALLATION

- Mount the unit with 2-3 inches of the wheel in the fluid.
- Mount in a safe area and protect from spraying fluids.
- Aground fauilt circuit interrupt device and proper grounding are required for electrical installation.
- Run when oil is floating on the surface. The best time maybe during downtime when the fluid is motionless.





SKIM-DISC





TO ORDER, use Price Code Number

SKIM-DISC

MODEL	DISC	DISC	SHIPPING	PRICE
	MATERIAL	DIAMETER	WEIGHT	CODE NO.
SD12 - PH	phenolic	12"	12 lbs	99-0470
SD18 - PH		18"	15 lbs	99-0471
SD12 - SS	stainless steel	12"	13 lbs	99-0468
SD18 - SS		18"	16 lbs	99-0469

Note: Standard voltage is 115V/1/60. For 220V/1/50, add **-5** to Model and Price Code No.







FILTER MEDIA

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431

DEPTH WOUND FILTER CARTRIDGES

MAXI-DEPTH, MAXI-WIND, HI-PERF, PUREFYBE and VALUWOUND filter cartridges offer true depth filtration. Wound cartridges are manufactured to provide selective particle retention throughout the media's depth which translates to high solids retention and longer service life with relatively low pressure drop.

MELT BONDED FILTER CARTRIDGES

POLYSPUN melt bonded filter cartridges are manufactured from continuous fibers thermally bonded and spun over a heated mandrel. Controlled graded density construction provides true depth filtration. These cartridges are free of resins, lubricants and antistatic agents; they are non-migrating and suitable for high purity applications.

PLEATED FILTER CARTRIDGES

POLYSERF pleated filter cartridges are manufactured of continuous polypropylene microfibers self-bonded by a unique process that controls media uniformity and density. They provide large surface area for efficient particle removal with very low pressure drops. These cartridges are also free of resins, binders or surfactants for high purity applications.

SLEEVE-TYPE FILTER CARTRIDGES

SERFILCO sleeve-type filter cartridges may be used uncoated or precoated with filter aid. Sleeve cartridges are interchangeable with any regular cartridge of corresponding length. They are re-usable for economical operation and, therefore, minimize disposal costs.

BAG FILTERS

A Bag Filter is shaped like a bag or sack with only the top side open. The bag filter is made of a variety of materials including needled felt and polypropylene, just to name a few. Flow is from inside through the porous material to the outside. Bag filters are available in a variety of micron ratings from 5 to 100. Bag filters are best used to capture large contaminates, or applications with high contaminate loading. One of the best applications for bag filters is ahead of cartridge filters reducing the loading and increasing life.

ROLL FILTER MEDIA

Roll filter media is used by a wide variety of high solid loading, gravity flow, filtration machinery. Generally these are automatic indexing continuous operation filtration machines that use rolls of filtering media. The roll filter media is available in a wide range of widths, lengths and materials such as polypropylene and polyester in nominal micron ratings from 1 to 125.

15

FILTER CARTRIDGES



SERFILCO offers a wide selection of filter cartridge styles, material selections and porosities to satisfy almost any filtration application in the metal finishing and electronics industries. They can be used with SERFILCO filter chambers and systems or as replacements for other single or multiple cartridge housings.

SERFILCO offers stock cartridges in minimum quantities. They are available for immediate delivery. To meet your annual needs, enter a blanket order with scheduled releases to earn the lowest quantity price, plus gain "just in time" delivery.



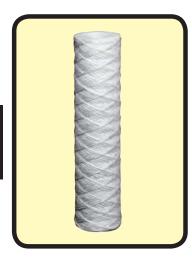
7 REASONS

FOR USING DEPTH FILTER CARTRIDGES

- 1 TRUE DEPTH FILTRATION wound filter cartridges provide selective particle retention. They are manufactured to provide true depth filtration deficient filtering throughout the path of the fluid. Winding creates diamond-shaped openings that become progressively smaller toward the center tube, to trap progressively smaller particles. Large particles never reach small openings.
- 2 LONGER SERVICE LIFE because the wound cartridge so successfully resists clogging, it's not uncommon for a set of cartridges to filter many millions of gallons of fluid before replacement. Fewer filter changes obviously save both labor and materials. More important is that production equipment is shut down less often for filter cartridge service. Such facts are important considerations in selecting the kind of filtration system you install.
- 3 CHEMICAL AND TEMPERATURE COMPATIBILITY cartridge windings are made in a variety of materials polypropylene, nylon, cotton,
 rayon, orlon and glass to name a few, and other
 materials on special order. Cores are of polypropylene, stainless steel or tinned steel as standard materials. Various materials also have different temperature
 tolerances. By selecting the right materials for your
 needs, you're assured of complete chemical and temperature compatibility.

- 4 EASE OF SERVICE depth cartridges do not require highly trained personnel for service. Replacement can be done by almost anyone. On most filter chambers, a top cover is removed, old cartridges are lifted out and new ones are set in place. No solution is lost from the tank. Changing can be done much quicker than filters that use loose media.
- 5 **POLLUTION ABATEMENT** cartridges present no liquid or wastewater pollution problem: spent cartridges are disposed of as solid waste. Where it is necessary to treat them for toxicity or to neutralize them, it can be done in place, with cartridges still in the chamber.
- 6 WIDE CHOICE OF POROSITIES wound cartridges reject particles from as low as 0.5 micron to 100 micron. This wide range of porosities expands the customer's ability to tailor his filtration system to his specific need, to select exactly the right cartridge, whether for single pass filtration or recirculation filtration.
- 7 MODULAR DESIGN most filter chambers designed for wound cartridges can accommodate several modular sizes of cartridges in diameters of 2.5 inches and standard lengths of 6, 10,20, 30, and 40 inches. Thus, a chamber might be fitted with 36 10-inch cartridges, or 12 30-inch units, or a combination of more than one size. The choice is the customer's, based on economics and ease of changeover; but filtration efficiency is not impaired, regardless of cartridge size.

POLYPROPYLENE W/ POLYPROPYLENE CORE



FEATURES

- Full 2½" O.D. provides 3.5 square feet of filter area per 10" length
- **Precision wound**
- Micron accuracy tested
- Wide selection of media material, cartridge lengths and micron ratings
- Excellent chemical resistance (see TM-110)
- Fits any D.O.E. style vessel

BENEFITS

- Improve finished goods quality, and minimize maintenance and rework with longer continuous high-flow operation
- Save money with lower cost, high surface area
- Reduce inventory, get quantity discounts, and "justin-time" scheduled releases, by placing blanket order

MODEL	MICRON RETENTION RATING	NOMINAL LENGTH	CARTON QTY
01U10U		10"	30
01U20U	1	20"	15
01U30U		30"	15
003U4U		4"	60
003U6U		6"	30
03U10U	3	10"	30
03U20U	3	20"	15
03U30U		30"	15
03U40U		40"	10
005U4U		4"	60
05U10U		10"	30
05U20U	5	20"	15
05U30U		30"	15
05U40U		40"	10
010U4U		4"	60
010U6U		6"	30
10U10U	10	10"	30
10U20U		20"	15
10U30U		30"	15
015U4U		4"	60
015U6U		6"	30
15U10U	15	10"	30
15U20U	15	20"	15
15U30U		30"	15
15U40U		40"	10

MODEL	MICRON RETENTION RATING	NOMINAL LENGTH	CARTON QTY
20U10U		10"	30
20U20U	20	20"	15
20U30U		30"	15
030U4U		4"	60
030U6U		6"	30
30U10U	30	10"	30
30U20U		20"	15
30U30U		30"	15
50U10U		10"	30
50U20U	50	20"	15
50U30U	50	30"	15
50U40U		40"	10
75U10U		10"	30
75U20U	75	20"	15
75U30U		30"	15
99U10U		10"	30
99U20U	100	20"	15
99U30U	100	30"	15
99U40U		40"	10



MAXI-DEPTH WOUND FILTER CARTRIDGES cont'd

BLEACHED COTTON w/ POLYPROPYLENE CORE

Free of "sizing" and yarn "finish" substances.

Meets FDA regulations for potable water.

MODEL	MICRON RETENTION RATING	NOMINAL LENGTH	CARTON QTY
001C4U		4"	60
001C6U		6"	30
01C10U	1	10"	30
01C20U		20"	15
01C30U		30"	15
003C6U		6"	30
03C10U		10"	30
03C20U	3	20"	15
03C30U		30"	15
03C40U		40"	10
05C10U		10"	30
05C20U	5	20"	15
05C30U		30"	15
010C6U		6"	30
10C10U	10	10"	30
10C20U	10	20"	15
10C30U		30"	15
015C4U		4"	60
015C6U		6"	30
15C10U	15	10"	30
15C20U	15	20"	15
15C30U		30"	15
15C40U		40"	10
20C10U		10"	30
20C20U	20	20"	15
20C30U		30"	15
030C6U		6"	30
30C10U	30	10"	30
30C20U		20"	15
30C30U		30"	15
50C10U		10"	30
50C20U	50	20"	15
50C30U		30"	15
50C40U		40"	10
75C10U		10"	30
75C20U	75	20"	15
75C30U		30"	15
99C10U	45-	10"	30
99C20U	100	20"	15
99C30U		30"	15

BLEACHED COTTON w/TINNED STEEL CORE

MODEL	MICRON RETENTION RATING	NOMINAL LENGTH	CARTON QTY
05C10T	5		
10C10T	10		
15C10T	15		
30C10T	30	10"	30
50C10T	50		
75C10T	75		
99C10T	100		



UNBLEACHED COTTON w/TINNED STEEL CORE

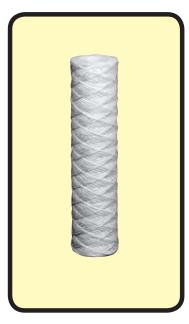
MODEL	MICRON RETENTION RATING	NOMINAL LENGTH	CARTON QTY
05B10T		10"	30
05B20T	5	20"	15
05B30T		30"	15
15B10T		10"	30
15B20T	15	20"	15
15B30T		30"	15
30B10T		10"	30
30B20T	30	20"	15
30B30T		30"	15
50B10T		10"	30
50B20T	50	20"	15
50B30T		30"	15
99B10T		10"	30
99B20T	100	20"	15
99B30T		30"	15

Order in carton quantity

MODEL NUMBER IDENTIFICATION

Example of Model Number:

NOMINAL MICRON RATING	MEDIA MA	ATERIAL	NOMINAL LENGTH	CORE MATERIAL	CORE COVER	EXTENDED CORE
1 3 5 10 15 20 30 50 75 99 (100)	B - Unbleached cotton C - Bleached cotton CU - Carbon & Polypropylene G - Glass fiber (Unbaked) H - Hi-Perf K - Polyester N - Nylon O - Orlon® Orlon is a registered i	P - Fibrillated polypropylene (Purefybe°) R - Rayon U - Polypropylene (Wound & Polyspun°) W - Potable water polypropylene	4 (3-7/8") 6 (5-7/8") 8 (7-7/8") 9.8 (9-3/4") 10 (10") 19.8 (19-3/4") 20 (20") 29.8 (29-3/4") 30 (30") 40 (40")	U - Polypropylene S - 316SS A - 304SS T - Tinned Steel	C - Cover compatible	None - No symbol ECU - Polypropylene ECS - 316 SS EPS - One piece polypropylene spring & top seal



WATER / ACIDS / BASES

New Valuwound cartridges offer high quality and value in a polypropylene depth filter. Designed for excellent chemical resistance and efficient long life particle removal, these cartridges are the perfect choice for a wide range of applications.

FEATURES

- High quality polypropylene polypropylene core
- Precision wound
- Micron accuracy tested
- Available 1 100 micron rating
- Nominal 2³/₈" O.D.
- Continuous molded cores in 10", 20", 30" or 40" lengths.
- Excellent temperature and chemical compatibility
- Economically priced

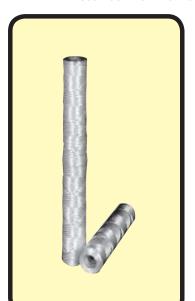
MODEL	MICRON	NOMINAL LENGTH	CARTON QTY
1PP10		10	30
1PP20	1	20	15
1PP30	'	30	15
1PP40		40	10
3PP10		10	30
3PP20	3	20	15
3PP30	3	30	15
3PP40		40	10
5PP10		10	30
5PP20	5	20	15
5PP30	3	30	15
5PP40		40	10
10PP10		10	30
10PP20	10	20	15
10PP30	10	30	15
10PP40		40	10
15PP10		10	30
15PP20	15	20	15
15PP30	15	30	15
15PP40		40	10

MODEL	MICRON	NOMINAL LENGTH	CARTON QTY
20PP10		10	30
20PP20	20	20	15
20PP30	20	30	15
20PP40		40	10
30PP10		10	30
30PP20	30	20	15
30PP30	30	30	15
30PP40		40	10
50PP10		10	30
50PP20	50	20	15
50PP30	30	30	15
50PP40		40	10
75PP10		10	30
75PP20	75	20	15
75PP30	/3	30	15
75PP40		40	10
100PP10		10	30
100PP20	100	20	15
100PP30	100	30	15
100PP40		40	10

15



PUREFYBE DEPTH WOUND® FILTER CARTRIDGES



FREE OF EXTRACTABLES, LUBRICANTS, BINDERS, ANTI-STATIC AND SIZING AGENTS.

APPLICATIONS

Plating Solutions Photographics D.I. & Tap Water Electronics PC Board Mfg. Pharmaceuticals Coatings Chemicals

- 100% Pure polypropylene with polypropylene center core
- Fibrillated fiber, organic-free, non-migrating A smooth, firm filter media that can be reused
- High temperature performance
 Plating solutions and most chemicals to 200°F (93°C)
 (see chem. guide TM-110)
- Length to fit any chamber 10", 20", and 30" x 2½" nominal O.D.
- Selective depth filtration



Purefybe is an all polypropylene cartridge wound of fibers free of extractables. It is designed for filtration of electroforming, precious metals and all other plating solutions or applications requiring organic-free filter media. It is also recommended for gelatinous precipitates such

as iron and aluminum hydroxides which can be dissolved with acids. Enter a blanket order with scheduled releases to earn the lowest quantity price, plus gain "Just in time" delivery.

MODEL	MICRON RETENTION RATING	NOMINAL LENGTH	CARTON QTY
01P10U		10"	30
01P20U	1	20"	15
01P30U		30"	15
03P10U		10"	30
03P20U	3	20"	15
03P30U		30"	15
05P10U		10"	30
05P20U	5	20"	15
05P30U		30"	15
10P10U		10"	30
10P20U	10	20"	15
10P30U		30"	15

MODEL	MICRON RETENTION RATING	NOMINAL LENGTH	CARTON QTY
15P10U		10"	30
15P20U	15	20"	15
15P30U		30"	15
20P10U		10"	30
20P20U	20	20"	15
20P30U		30"	15
25P10U		10"	30
25P20U	25	20"	15
25P30U		30"	15
50P10U		10"	30
50P20U	50	20"	15
50P30U		30"	15
99P10U		10"	30
99P20U	100	20"	15
99P30U		30"	15

Order in carton quantity

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HI-PERF

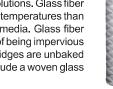
FOR CHROMIC / SULFURIC / NITRIC ACIDS

HI-PERF filter cartridges are constructed of proprietary materials which are specifically designed for chrome plating applications, nitric and sulfuric acid solutions. They are equally well suited for aggressive solvents and bases.

MODEL	MICRON RETENTION RATING	NOMINAL LENGTH	CARTON QTY
05H10U		10	30
05H20U	_	20	15
05H30U	5	30	15
05H40U		40	10
15H10U		10	30
15H20U	15	20	15
15H30U	15	30	15
15H40U		40	10
30H10U		10	30
30H20U	30	20	15
30H30U	30	30	15
30H40U		40	10
50H10U		10	30
50H20U	50	20	15
50H30U	30	30	15
50H40U		40	10
99H10U		10	30
99H20U	100	20	15
99H30U	100	30	15
99H40U		40	10

GLASS FIBER

These cartridges resist all strong oxidizing acids (except hydrofluoric). Especially suitable for hot chromic acid and chrome etch solutions. Glass fiber cartridges can be used at higher temperatures than any of the other fiber type filter media. Glass fiber offers the additional advantage of being impervious to highly corrosive agents. Cartridges are unbaked on a polypropylene core and include a woven glass fiber core cover. Max. 200°C).



MODEL	MICRON RETENTION RATING	LENGTH	CARTON QTY
05G10UC		10	30
05G20UC	5	20	15
05G30UC		30	15
20G10UC		10	30
20G20UC	20	20	15
20G30UC		30	15

2-1/2" nominal diameter

HI-DENSITY COTTON and POLYPROPYLENE

COTTON (.5 micron organic free)

Wound on a polypropylene core with a hemp core cover. Offers a 0.5 micron (nominal) retention. Free of sizing agents, it is ideal for ultra clean water for the electronics industry and many plating solutions. 1 GPM aqueous flow per 10" length @ 5 PSI pressure drop. (3.78 LPM @ .35 kg/cm2)

	,
MODEL	CARTON QTY
C0 5A10UH	30

2-1/2" nominal diameter x 10"

POLYPROPYLENE (.5 micron)

Wound on a corrosion resistant polypropylene core with a polypropylene core cover. Offers a 0.5 micron (nominal) retention. For efficient filtration of plating solutions for electronics. 1 GPM aqueous flow per 10" length @ 2 PSI pressure drop. (3.78 LPM @ .14 kg/cm²). 2-1/2" nominal O.D.

MODEL	LENGTH	CARTON QTY
U0.5A10UC	10	30
U0.5A20UC	20	15
U0.5A30UC	30	15

Order in carton quantity



MAXI-WIND 4" DIAMETER FILTER CARTRIDGES



4" DIAMETER X 9¾" LONG

Maxi-Wind cartridges provide extended solids loading at greater efficiency. Their dirt holding capacity is equivalent to 10 square ft. (.93m²) of surface filtration. They are designed for maximum solids loading at a recommended flow rate of 10 U.S. GPM (38 LPM). For Model GPO10-1 filter chambers and replacement for original equipment cartridges.

POLYPROPYLENE w/POLYPROPYLENE CORE For good chemical resistance

MODEL	MICRON RETENTION RATING	CARTON QTY*
0.5U9.8U4	.5	
1U9.8U4	1	10
5U9.8U4	5	10
10U9.8U4	10	

* Minimum order carton of 10.

PUREFYBE® (Fibrillated polypropylene) w/POLYPROPYLENE CORE Wound of fibers free of "sizing" and yarn "finish" substances

MODEL	MICRON RETENTION RATING	CARTON QTY*
5P9.8U4	5	
10P9.8U4	10	
25P9.8U4	25	10
50P9.8U4	50	
99P9.8U4	100	

* Minimum order carton of 10.



4" DIAMETER X 18" LONG

These cartridges provide a dirt holding capacity equivalent to 18 sq. ft. of surface filtration. They are designed for maximum solids loading at a recommended flow rate of 18 GPM (68 LPM). For Models (718), CB Filtration Chambers, and as replacement for original equipment cartridges.

UNBLEACHED COTTON FOR OILS, SOLVENTS & SEMI-AQUEOUS CLEANERS

MODEL	MICRON RETENTION	CARTON
WIODEL	RATING	QTY *
1B18A4	1	
3B18A4	3	
5B18A4	5	5
10B18A4	10	3
20B18A4	20	
30B18A4	30	

POLYPROPYLENE FOR GOOD CHEMICAL RESISTANCE

MODEL	MICRON RETENTION RATING	CARTON QTY *
1U18A4	1	
3U18A4	3	
5U18A4	5	5
10U18A4	10	5
20U18A4	20	
30U18A4	30	

* Minimum order carton of 5.



CARTRIDGE ORDERING INFORMATION

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431

• Use Model Number to order.

- All cartridges sold in carton quantity only.
- For larger quantities, consult SERFILCO Sales Dept. for quantity pricing.
- Enter a blanket order with scheduled releases to earn the lowest quantity price, plus gain "Just in Time" delivery.
- Minimum order \$50.00
- F.O.B. shipping point
- Specifications subject to change without notice.

TABLE A

DEPTH CARTRIDGE PACKAGING				
LENGTH (in.)	4	6, 10	20, 30	40
CARTON QTY	60	30	15	10

SUBSTITUTIONS AND ACCESSORIES, CORE COVER AND EXTENDED CORE

TABLE B

	IADEL D				
(SUBSTITUTE CORE MATERIAL				
TINNED STEE	TINNED STEEL -T TO:				
S - 316SS					
A - 304SS	Replace the last letter "T" in he				
T - Polypro.	Model Number with "S", "A" or "U".				
POLYPROPYL	POLYPROPYLENE -U TO:				
S - 316SS					
A - 304SS	Replace the last letter "U" in the				
T - Tinned	Model Number with "S", "A" or "T".				
Steel					

Consult Sales Dept. for other filter media, core materials, diameters, lengths, and micron ratings. See Table E below.

TABLE C

CORE COVER
Add "C" after core material letter in Model Number

TABLE D

EXTENDED CENTER CORE			
MATERIAL ADD TO MODEL NO.			
316SS	-ECS		
Polypropylene	-ECU		
One piecepolypropylene spring & top seal	-EPS		

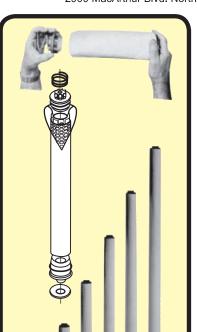
Consult Sales Dept. for other filter media, core materials, diameters, lengths and micron ratings. See Table E below.

TABLE E – MODEL NUMBER IDENTIFICATIONExample of Model Number: 10 U 10 U C

NOMINAL NOMINAL MEDIA MATERIAL CORE MATERIAL CORE COVER **EXTENDED CORE** MICRON RATING LENGTH 4 (3-7/8") 6 (5-7/8") 8 (7-7/8") 9.8 (9-3/4") 10 (10") 19.8 (19-3/4") 20 (20") 29.8 (29-3/4") 30 (30") 40 (40") P - Fibrillated polypropylene U - Polypropylene None - No symbol B - Unbleached cotton None - No symbol C - Bleached cotton (Purefybe®) 3 5 10 15 20 30 50 75 CU - Carbon & Polypropylene R - Rayon S - 316SS C - Cover ECU - Polypropylene G - Glass fiber (Unbaked) U - Polypropylene (Wound & compatible ECS - 316 SS Polyspun®) W - Potable water A - 304SS H - Hi-Perf with media K - Polyester T - Tinned Steel FPS - One piece N - Nylon polypropylene O - Orlon[®] polypropylene Orlon is a registered trademark of DuPont. 99 (100) spring & top seal



RE-USABLE SLEEVE-TYPE FILTER CARTRIDGES



ECONOMICAL ALTERNATIVE TO DISC-TYPE FILTER

FEATURES

Interchangeable

Sleeve cartridges are interchangeable with any regular cartridge of corresponding length and diameter.

- CPVC and polypropylene construction
- 15 micron seamless sleeve

Designed for precoating with all types and grades of filter aid to provide a high quality filtrate; however, may also be used without precoat.

- Easy to clean
- Reusable

BENEFITS

- Reduced operating costs
- Reduced disposal costs



The SERFILCO Sleeve-Type Filter Cartridge may be used uncoated or with filter aid or filter aid with carbon. As the filters become dirt-laden, they may easily be backwashed, or the sleeves may be removed, rinsed or laundered and put back into service.

This unique design of filter cartridges will not only help reduce operating costs, but will simplify and speed up any pre-coat type filtration process.

Each filter cartridge consists of a polypropylene top and bottom seat, a polypropylene woven fabric sleeve, a polypropylene support mesh, a CPVC support column, EPDM "O"-rings and a vinyl coated spring to assure good sealing.

These filter cartridges can be quickly and easily assembled and re-assembled — no tools are required.

CLEANABLE SLEEVE CARTRIDGES

SLEEVE	SURFACE	FOR CHAMBER STYLE		REPLACEMENT	
Х			MULTIPLE COLUMN	SLEEVE ONLY	
2-1/2" DIA.	30.11.		PRICE CODE NUMBER		
10"	0.6	99-0701	99-0704	88-0161 A	
20"	1.2	99-0702	99-0705	88-0162 A	
30"	1.8	99-0703	99-0706	88-0163 A	
40"	2.4	99-0715	99-0707	88-0164 A	
50"	3.0	-	99-0708	88-0165 A	

OPTIONAL

DESCRIPTION	PRICE CODE NO.
Viton® elastomers for sleeve assembly	O-VSL

TO ORDER: Use Price Code No.

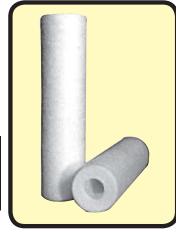
Viton is a registered trademark of DuPont Dow Elastomers.



POLYSPUN® DEPTH FILTER CARTRIDGES

2900 MacArthur Blvd. Northbrook, IL. USA 60062 **WWW.SERFILCO.COM** (800) 323 - 5431

FREE OF RESINS, LUBRICANTS,



FREE OF RESINS, LUBRICANTS, BINDERS & ANTI-STATIC AGENTS

APPLICATIONS

Plating solutions / Potable water
Tap & D.I. water / Coatings
Electronics / Photographics
FDA Approved for food contact applications

• 100% Pure polypropylene

Extruded for structural strength without center core

• High temperature performance

Plating solutions and most chemicals to 140°F (60°C) Water to 212°F (100°C)

• Unique fiber bonding

Four to five hundred layers of melt-bonded polypropylene fiber

- Length to fit any chamber 9.75", 10", 20", or 30"
- Selective depth filtration = 1, 5, 10, 20, 50 or 75 micron

SERFILCO POLYSPUN depth filter cartridges are individually packaged to provide 1 to 75 micron high purity filtration and an organic free, pure polypropylene media. Their outstanding

chemical resistance, fiber free melt-bonded media and excellent flow characteristics present a filter cartridge that meets the tough requirements of today's technology.

MODEL	MICRON RETENTION RATING	NOMINAL LENGTH	CARTON QTY*
01U9.8		9.75	30
01U10	4	10	30
01U20	'	20	15
01U30		30	15
05U9.8		9.75	30
05U10	5	10	30
05U20	5	20	15
05U30		30	15
10U9.8		9.75	30
10U10	10	10	30
10U20	10	20	15
10U30		30	15

MODEL	MICRON RETENTION RATING	NOMINAL LENGTH	CARTON QTY*
20U10		10	30
20U20	20	20	15
20U30		30	15
30U10		10	30
30U20	30	20	15
30U30		30	15
50U10		10	30
50U20	50	20	15
50U30		30	15
75U10		10	30
75U20	75	20	15
75U30		30	15

MICRON	1	5	10	20	30-75
PRESSURE	_	,	1	7	_
DROP(PSI) **)		'	.,	.5

^{**} Aqueous flow at 5 U.S. GPM (19 LPM) per 10" length.

^{*} Order in carton quantity

()

PLEATED FILTER CARTRIDGES

M-307_AD-2

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431

POLYESTER



Cleanable, reusable in most applications:

This pleated polyester cartridge can be rinsed off and reused a number of times. Center core and end caps are PVC. The center core, end caps and media are all thermally bonded for long life in reusable applications up to 80 PSID. Good for pH 3 to 11. Flow rate is 10 U.S. GPM per 10" length @ 2.5 PSI (38 LPM @.18 kg./cm2) pressure drop. Use at 35° to 160°F (0° to 71°C). 2¾" diameter x 9¾", 19½" or 29¼" long.

Potable water / Process water Chemicals / Photographic Inks / Oils / Waste treatment

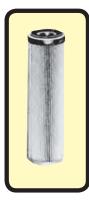
- High flow rates to 10 U.S. GPM (38 LPM) per 10" length
- Thermally bonded for long life



MODEL	LENGTH	AREA		
MODEL	LENGIH	FT ²	m²	
PL-P <u>*</u> x 9¾	9¾"	4	.37	
PL-P <u>*</u> x 19½	19½"	8	.74	
PL-P <u>*</u> x 29¼	29¼"	12	1.1	

* Insert micron size desired — 1, 5, 20 or 50. End cap color code: Tan 1μ , white 5μ , blue 20μ , yellow 50μ . 24 cartridges/case. Minimum order 6 cartridges,

MICROFIBERGLASS AND POLYESTER



Large surface area for filtering:

This cartridge assures fine filtration and high flow rates. The media is constructed of microfiberglass and polyester (pleated for maximum area). The center core is available in glass fiber reinforced polypropylene or 304 stainless steel. End cap gaskets are Buna-N. Unique 3-layer construction gives pre-filtration plus inner mechanical strength. Use polypropylene core cartridges at temperatures up to 68°F (20°C), stainless steel core cartridges to 250°F (121°C). 2½" diameter.

Chemicals / Cosmetics / Oils Magnetic coatings / Electronics Photographic / Pharmaceuticals

MICRON RATING		WATER FLOW RATE PER 10" LENGTH			E
NOM.	ABS.	@ .5 PSID (.035 kg/cm ² D)		@ 1 PSID (.07 kg/cm ² D)	
		U.S GPM LPM		U.S GPM	LPM
.45	2	3	11	6	23

Polypropylene Core

MODEL	MICRON	AREA		LENGTH	
WODEL	NOM.	FT.2	m²	LLNOTTI	
PL-PG.45x10U		8	.74	10"	
PL-PG.45x20U	.45	16	1.4	20"	
PL-PG.45x30U		24	2.2	30"	

304 Stainless Steel Core

MODEL	MICRON	AREA				LENGTH
WIODEL	NOM.	FT. ²	m²	LENGTH		
PL-PG.45x10S		8	.74	10"		
PL-PG.45x20S	.45	16	1.4	20"		
PL-PG.45x30S		24	2.2	30"		

Minimum order 6 cartridges.



TRI-PLEATED FILTER CARTRIDGE

2900 MacArthur Blvd Northbrook, IL USA 60062 WWW SERFILCO.COM (800) 323 - 5431

Extended surface area for longer service life

APPLICATIONS

D. I. water **Electronics Photographic**

Food • Beverage Solvents **Pharmaceuticals**

Cosmetics R. O. pre-filter **Plating solutions**



FEATURES

- All polypropylene with EPDM or Viton® elastomers
- Chemical compatibility including solvents, acids and bases
- Nominal pore size 0.1, 0.45 and 1.0 micron
- **Absolute rated** 1.0, 2.0 and 5.0 micron
- Organic-free no sizing or anti-static agents
- Length: 10", 20", 30" or 40" with double open end gaskets or single open end "O"-rings

All polypropylene filter cartridge constructed of ultra-fine diameter continuous filaments of polypropylene, formed into thermally bonded and pleated layers of filter media to provide particulate removal in the submicron range. Includes pleated pre-filter, end caps, center core and protective outer cage all of polypropylene. Cartridge is totally free of all sizing, anti-static agents and all organics. Standard end gaskets DOE (double open end) and 222 "O"-rings SOE (single open end) are ethylene propylene.

Maximum recommended operating temperature:

140°F @ 60 PSID (60°C @ 4.2 kg/cm²D) 180°F @ 10 PSID (82°C @ .7 kg/cm²D)

Maximum recommended operating differential pressure:

60 PSID (4.2 kg/cm²D)

Cartridge is 2.7" diameter.

TO ORDER - Select rating, length and end seal.

MODEL		MICI	1011	FILTER	RAREA	FLO ¹	
FLAT GASKETS	222 "O"-RINGS	RATING		PER 10" CARTRIDGE			
DOE	SOE	NOM.	ABS.	FT. ²	m²	GPM	LPM
PL-U.1x <u>*</u> UL	PL-U.1x <u>*</u> UL-2	0.1	1.0	4.3	.40	2.5	9.5
PL-U.45x <u>*</u> UL	PL-U.45x <u>*</u> UL-2	0.45	2.0	4.6	.43	9	34
PL-U1.0x <u>*</u> UL	PL-U1.0x <u>*</u> UL-2	1.0	5.0	4.9	.45	12	45

^{*} Length. Specify 10", 20", 30" or 40".

^{**} For Viton elastomers, substitute UV for UL in Model No.



TRI-PLEATED FILTER CARTRIDGE

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431

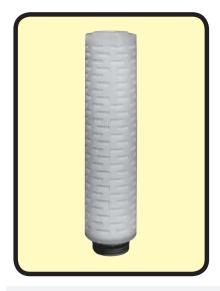
Polypropylene with polysulfone membrane

APPLICATIONS

18 megohm D. I. water Electronics Pharmaceuticals

Food • Beverage
Photographic
Reagent grade hemicals

Distilled liquors Cosmetics R. O pr -filter



- Chemical compatibility including solvents, acids and bases
- With EPDM or Viton® elastomers
- Absolute pore size
 0.1, 0.2 and 0.45 micron
- Preflushed with 18 megohm pyrogen-free water prior to shipment
- Length: 10", 20", 30" or 40"
 with double open end gaskets or single open end "O"-rings



A pleated polysulfone membrane whose pore size decreases gradually from 10 to 20 micron on the upstream side to the absolute rated 0.1, 0.2 or 0.45 micron on the downstream side. The membrane provides its own cast-in pre-filter to prevent premature loading and extend service life. Includes pleated polypropylene support and drainage layers, end caps, center core and protective outer cage. Cartridge is free of all organics and electrochemical bonding. Standard end gaskets (DOE) and 222 "O"-rings (SOE) are ethylene propylene.**

Each 10" length has 5½ sq. ft. (.51 sq. m) of filter area and will hold more than 150 grams of Arizona fine test dust. Cartridge will withstand water at 200°F (93°C) for extended periods without degradation. Maximum recommended differential pressure, 50 PSID (3.5 kg/cm²D). Cartridge is 2.6" diameter.

TO ORDER - Select rating, length and end seal.

МО	DEL	ABSOLUTE	FLO PER 1	OW (0" @
FLAT GASKETS	222 "O"-RINGS	MICRON RATING	1.0 PSID	
DOE	SOE	KATING	GPM	LPM
PL-UPS.1x <u>*</u> UL	PL-UPS.1x <u>*</u> UL-2	0.1	2	7.6
PL-UPS.2x*UL	PL-UPS.2x <u>*</u> UL-2	0.2	4	15
PL-UPS.45x <u>*</u> UL	PL-UPS.45x <u>*</u> UL-2	0.45	6	23

^{*} Length. Specify 10", 20", 30" or 40".

Viton is a registered trademark of **DuPont Dow Elastomers.**

^{**} For Viton elastomers, substitute ${\bf UV}$ for ${\bf UL}$ in Model No.

M-305_AB

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431

FOR CHEMICALS / PLATING



CARBONEX P

3 IN 1 GRANULAR CARBON FILTER:

Porous polyethylene outer shell which serves as a 50 micron prefilter houses granular activated 99.5+% sulfur-free carbon and encases a 3 micron polypropylene wound polishing filter

on a polypropylene core. Maximum operating temperature 150°F (66°C). EPDM gaskets. Flow rate 2 U.S. GPM (8 LPM) per each 10" length.

MODEL	WT. OF CARB	LENGTH	DIA.	CTN. QTY.
CU10P	7 oz.	10"	2-3/4"	25
CU20P	14 oz.	20"	2-3/4"	12
CU30P	21 oz.	30"	2-3/4"	12



CARBO-FYNE P

POWDERED CARBON FILTER:

Cartridge contains high purity, pre-washed sulfurfree, pulverized activated carbon with 7 micron depth filtration for long life. All non-metallic with polyethylene end caps, polyolefin green net and polypropylene core. Maximum operating temperature 150°F (66°C). For 3 U.S. GPM (11 LPM) continuous or 1.5 U.S. GPM (5.7 LPM) batch transfer treatment per each 10" length.

MODEL WT. OF CARB		LENGTH	DIA.	CTN. QTY.
C4P C6P C9.8P C10P C20P C30P	1.6 oz. 2.4 oz. 4 oz. 4 oz. 8 oz. 12 oz.	4" 6" 9.75" 10" 20" 30"	2-3/4" 2-3/4" 2-5/8" 2-3/4" 2-3/4" 2-3/4"	60 30 30 30 30 30



CARBO-WIND P

3 IN 1 GRANULAR CARBON FILTER:
Polypropylene outer winding serves as a 50 micron prefilter which houses granular activated temperature 200°F (93°C). Flow rate 2½ U.S. 99.5+% sulfur-free carbon followed by a 3 micron polypropylene wound polishing filter

GPM (9.5 LPM) per each 10" length.

MODEL	WT. OF CARB	LENGTH	DIA.	CTN. QTY.
CU10UP	5 oz.	10"	2-3/4"	20
CU20UP	10 oz.	20"	2-3/4"	12
CU30UP	15 oz	30"	2-3/4"	12

MODEL	WT. OF CARB	LENGTH	DIA.	CTN. QTY.
CUR10UP	3 oz.	10"	2-1/2"	20
CUR20UP	6 oz.	20"	2-1/2"	12
CUR30UP	9 oz	30"	2-1/2"	12



CARBON CARTRIDGES PLATING

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431



CARBO-FYNE PE

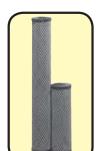
POWDERED CARBON FILTER ELECTRONICS:

Designed for purifying plating solutions used for electronics, memory discs, semi-conductors, etc. where solutions are to be free of organics and particles larger than two micron. All non-metallic with polyethylene end caps, polyolefin blue net

and polypropylene core. Cartridge contains high purity, pre-washed sulfur-free, pulverized activated carbon with 2 micron depth filtration for long life. Maximum operating temperature 150°F (66°C). Flow rate 1.5 U.S. GPM (5.7 LPM).

MODEL	WT. OF CARB	LENGTH	DIA.	CTN. QTY.
C10PE	6 oz.	10"	2-3/4"	30
C20PE	12 oz.	20"	2-3/4"	30





MAXI-CARB PE

POWDERED CARBON FILTER ELECTRONICS:

Constructed like Carbo-Fyne PE except oversized for maximum carbon capacity. May be installed in single or triple canister chambers and are interchangeable in all SERFILCO carbon chambers which use the 528 & 548 refillable bulk granular carbon canisters.

MODEL	WT. OF CARB LENGTH DI		DIA.	FLOW (GPM)	CTN. QTY.
C528PE	48 oz.	28"	5"	3 - 5	6
C548PE	90 oz.	48"	5"	5 - 7	



MINI-CANISTER P

ABS/PVC/SARAN® CANISTER - FOR GRANULAR CARBON:

Features a twist-off end cap which permits easy filling with carbon or resin (not included). End cap screens retain contents. Maximum operating temperature is 160°F (71°C). Non-standard lengths available. Flow rates to 2 U.S. GPM (7.6 LPM) per each 10" length. For SERFILCO Series 'L' chambers (see C-105). To order Mini-Canister with CPVC 5/8" hose adapter add H.5 to Model Number, for 3/4" add H.75

MODEL	3" DIA. x LGTH	WT OF CARB
4ABS	4"	3 oz.
6ABS	6"	7 oz.
10ABS	10"	14 oz.
20ABS	20"	33 oz.
30ABS	30"	52 oz.
40ABS	40"	71 oz.

GRANULAR ACTIVATED CARBON

	COCONUT SHELL B Steam activated fo		on capacity
	12 x 30 MESH STANDARD	LBS	PCN
		10	99-0997-10
		50	99-0997-50



CARBON CARTRIDGES WATER

M-310_L

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431

TASTE, ODOR, COLOR AND PARTICLE REMOVAL MATERIALS MEET FDA REGULATIONS FOR POTABLE WATER



CARBONEX W

3 IN 1 GRANULAR CARBON FILTER:

Contains extra high quality granular activated carbon designed to remove or substantially reduce chlorine and other chemicals, unpleasant tastes, odors and sediment from water. Three stage filtration: (1) 50 micron white polyethylene shell

prefilter; (2) activated carbon adsorption bed; (3) polypropylene 3 micron depth wound polishing filter on a polypropylene core. EPDM end gasket / caps. Flow rate 2 U.S. GPM (7.6 LPM) per each 10" length.

MODEL	WT. OF CARB.	LENGTH	DIA.	CTN. QTY.
CU9.8W	7 oz.	9 3/4"	2-3/4"	25
CU19.8W	14 oz.	19 3/4"	2-3/4"	12



CARBO-FYNE W

POWDERED CARBON FILTER:

Pre-washed, pulverized activated carbon, removes or substantially reduces chlorine taste and organic related odors and colors. The 10 micron retention assures turbidity-free water.

Polypropylene core with polyethylene end caps and polyolefin white net. Flow rate to 3 U.S. GPM (11 LPM) per each 10" length.

MODE		NT OF	LENGTH	DIA.	CTN. QTY.
C4W	Т	1.6 oz.	4"	2-3/4"	60
C10W		4 oz.	10"	2-3/4"	30
C20W		8 oz.	20"	2-3/4"	30



CARBO-WIND W

3 IN 1 GRANULAR CARBON FILTER:

Provides one-step removal of sediment, chlorine, chemicals, unpleasant tastes and odor. The depth wound polypropylene prefilter is designed to give maximum sediment removal. It encases a bed of extra high quality granular activated carbon followed by a 3 micron depth wound polishing filter on a polypropylene core. Maximum operating temperature 200oF (93oC). Flow rate 21/2 U.S. GPM (9.5 LPM) per each 10" length.

MODEL	WT OF CARB	LENGTH	I DIA.	CTN. QTY.
CU9.8UW	5 oz.	9 3/4"	2-3/4"	20
CU19.8UW	10 oz.	19 3/4"	2-3/4"	12



CARBON CARTRIDGES WATER

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431



MAXI-CARB W

POWDERED CARBON FILTER:

For absorption of undesirable contaminants including chlorine and many organics. Serves as an effective sediment removal filter down to the 1 - 2 micron range. Non-metallic, polyethylene end caps w/rubber gaskets, polyolefin blue net and polypropylene core. Cartridge contains high purity pre-washed sulfur-free, pulverized activated carbon. Maximum operating temperature 180°F (82oC). Flow rate 3 U.S. GPM (11 LPM).

MODEL	WT OF CARB	CTN. QTY.
C510W	17 oz.	12

4 5/8" nominal dia. x 9-3/4" long.

Designed to fit SERFILCO GPO10-1 chamber. Bulletin C-101





MINI-CANISTER W

ABS/PVC/SARAN® CANISTER - FOR GRANULAR CARBON:

99-0997-50

Features a twist-off end cap which permits easy filling with carbon or resin (not included). End cap screens retain contents. Carbon is used to remove organic substances which cause taste, odor and color in water. Maximum operating temperature is 160°F (71°C). Non-standard lengths available. Flow rates to 2 U.S. GPM (7.6 LPM) per each 10" length. ABS / PVC canister. Saran end screens.

MODEL	3" DIA. x LGTH	WT. OF CARB.
10ABS	10"	14 oz.
20ABS	20"	33 oz.

Designed to fit SERFILCO GPO and GSO chambers. Bulletin C-101

GRANULAR ACTIVATED CARBON COCONUT SHELL BASED Steam activated for high absorption capacity LBS PCN 12 x 30 MESH STANDARD 10 99-0997-10

50

To order resin, refer to Bulletin R-208.

M-309_E-2

STAINLESS STEEL FILTER CARTRIDGES

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431



- Choose from sintered porous cylinder or pleated wire mesh
- **Excellent chemical resistance**
- Cleanable and reusable 10", 20", 30" lengths
- High flow rates 25 or 30 GPM per 10" length
- High service temperature to 400° F
- High operating pressure to 50 Δ P

SINTERED POROUS CYLINDER

Porous media is constructed of grade 316 stainless steel powder, precompressed, formed and heated to sintering temperature in a controlled atmosphere. End supports are also 316 stainless steel. This manufacturing technique offers:

- Precise thickness control to ± .005".
- A more uniform porous structure and permeability. b.
- Each particle bonded to several others, thereby leaving no loose particles to migrate into effluent stream.

Result is a reusable, quality filter cartridge with consistent pore size at the eight retention ratings offered.

SPECIFICATIONS —

2.5" Dia. x 10", 20" or 30" long Dimensions:

End style: DOE

.5 ft.2 per 10" length Filter area:

Maximum pressure: 50 **△**P

Maximum temperature: Limited by gasket Standard gaskets: EPDM (to 250°F)

TO ORDER

MODEL	GPM **	MICRON
PS.2X * L	.1	.2
PS.5X * L	.3	.5
PS2X * L	2	2
PS5X * L	3	5
PS10X * L	18	10
PS20X * L	30	20
PS40X_*_L	30	40
PS100X_*_L	30	100

- Length: Specify 10", 20" or 30"
- Flow per 10" length at 2 \triangle P water. Maximum recommended is 30 GPM per cartridge.

OPTIONAL

GASKETS	MAX. TEMP.	CHANGE 'L' in MODEL to
Viton®	400° F	V

Registered trademark: Viton - DuPont Dow Elastomers

PLEATED WIRE MESH

Media is woven 304 stainless steel wire, pleated for additional filter area and strength, then welded to 304 stainless steel center rings and end supports. This manufacturing technique offers:

- Extended filter area for each 10" length.
- Rigid construction and uniform porosity.
- Positive-crimp end pleat seal prevents particle bypass into effluent stream.

Result is a reusable, quality filter cartridge with consistent pore size at the five retention ratings offered.

SPECIFICATIONS -

2.5" Dia. x 10", 20" or 30" long Dimensions:

End style: DOE

Filter Área: 10" cart. = 1.7 ft.2, 20" cart. = 3.6 ft.2,

30" cart. = 5.5 ft.2

Maximum pressure: 50 **△**P

Maximum temperature: Limited by gasket Standard gaskets: Buna-N (to 250° F) Consult Sales Department for 316 SS construction.

TO ORDER

MODEL	GPM **	MICRON
PWC40X <u>*</u> B	12	40
PWC75X <u>*</u> B	15	75
PWC100X * B	16	100
PWC150X_*_B	17	150
PWC230X <u>*</u> B	25	230

- * Length: Specify 10", 20" or 30"
- ** Flow per 10" length at 2 ▲P water. Maximum recommended is 25 GPM per cartridge.

OPTIONAL

GASKETS	MAX. TEMP.	CHANGE 'B' in MODEL to
Viton®	400° F	V

Consult Sales Department for flow at other viscosities.

(*) (*)

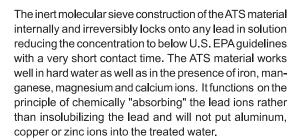
LEAD REMOVAL CARTRIDGES

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431



FOR POTABLE WATER POWDERED ACTIVATED CARBON WITH ATS® LEAD REMOVAL SORBENT

- Contains Engelhard Corporation's ATS sorbent, a state-of-the-art ceramic lead removal matrix, along with a blend of premium performing, highly pulverized, activated carbon.
- Offers true-depth type filtration for fine sediment, 1 to 2 micron particle removal.
- Effectively removes both soluble and insoluble lead, foul tastes, odors and free chlorine.
- Is unaffected by pH or the presence of other ions including calcium, magnesium, iron and manganese.
- Bonds internally and irreversibly avoiding the potential hazard of a concentrated solution of lead "avalanching" into the treated water.
- Available in two lengths: 9¾" or 20".
- Constructed of molded polystyrene end caps with thermoplastic rubber gaskets, blue polyolefin outer net and a polypropylene center core "sandwiching" a blend of highly purified activated powdered carbon and ATS lead removal sorbent. Inner layer of heat fused polyolefin fiber media prevents carbon bleed-off.



The CLR Series has been evaluated against the test protocol as outlined in NSF standard #53 by a certified third-party laboratory. The results show that a standard 9¾" cartridge at 0.75 GPM will effectively reduce a 150 PPB spiked feed of lead to less than 10 PPB for 4000 gallons in a low pH, low alkalinity solution and for 3000 gallons in a high pH, high alkalinity solution.

TO ORDER

MODEL	GPM	LENGTH	DIA	CTN QTY
CLR10W	.5 - 1	9-3/4"	2-3/4"	12
CLR20W	1 - 2	20"	2-3/4"	12





FILTER CARTRIDGES INDUSTRIAL

M-206_W

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431

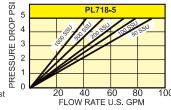
FOR ALL TYPES OF OIL FILTERING — FUEL, LUBE, HYDRAULIC, CUTTING OILS, QUENCH, TRANSFORMER, DIELECTRIC & COALESCING

TYPE 'PL' PLEATED PAPER



Has extremely high flow rate. Performs well on filtration of water and oil. Typical applications: For detergent, straight mineral and residual fuel oils. Water, glycol-water synthetics or oil-water emulsions. PL718 has a metal jacket and center core with vellumoid seals. PL310 has exposed pleats and Buna-N seals. Maximum temperature: 250°F.

MODEL 2-1/8" I.D x 6" x 18" Ig	MICRON
PL718-1	1
PL718-5	5
PL718-10	10
PL718-20	20
PL718-30	30



PL718 PL310

PLEATED PAPER CARTRIDGES

For cartridges of other

dimensions or cross

reference to other brands, request Bulletin M-205 and

Price Sheet M-204.

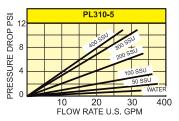
6 & up shipped full carton quantity (6/ctn.) Quantity 1-12 F.O.B. Northbrook, Illinois 18 & up F.O.B. East Coast

	1-1/8" I.D x 2-5/8" x 10" lg.	MICRON
Γ	PL310-1-11B	1
1	PL310-5-11B	5
1	PL310-10-11B	10

30 & up shipped full carton quantity (30/ctn.) Quantity 6-29 F.O.B. Northbrook, Illinois 30 & up F.O.B. East Coast

1-5/8" I.D. x 4" x 36½" lg.	MICRON
PL436-2-4	2

PL436 has exposed pleats, PP core, plastisol end caps. F.O.B. Northbrook, Illinois



TYPE 'C' PURE COTTON

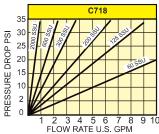
C718

Has a relatively high flow rate and dirt holding capacity. Retains resiliency and will absorb water. Typical applications: Hydraulic, fuel, quench and diesel engine lube oils; machine tool coolants, solvents, etc. Spun wound all new cotton thread.

"SPUN-WOUND" COTTON THREAD CARTRIDGES

MODEL (MATERIAL)	MICRON
C718 (Cotton/stl. core)	10

2-1/8" I.D. x 6-3/4" O.D. x 18" lg. 4 & up shipped full carton quantity (4/ctn.) Quantity 1-8 F.O.B. Northbrook, Illinois 12 & up F.O.B. East Coast





FILTER CARTRIDGES CLAY (FULLER'S EARTH)

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431

TYPE 'F' FULLER'S EARTH - Highest quality.

Neutralizes oils which become acidic from long use. Metal encased and bag type.



FOR: FUEL, HYDRAULIC, INSULATING AND LUBRICATING OILS. JET FUELS, QUENCH, ROLLING AND SYNTHETIC HYDRAULIC OILS.

Outer retaining bag

Made from medium permeable duck - strong, yet providing good penetration without sliming over.

Inner core fabric

Stout, heat bonded polyester non-woven material. Good permeability with orifice size designed to minimize migration.

Attapulgite LVM clay

Especially extruded and calcined to improve porosity and adsorptive characteristics.

Packaging

Each cartridge is poly bagged to prevent moisture contamination. Metal canister F718C - Individually boxed and palletized. Cotton bags F718 & F718-4 - Packed 4 per heavy double wall carton for maximum shipping protection.

COTTON BAG

F718 (2-1/8" I.D. x 7" x 19-1/4" lg.)

Bag type to replace:

CFD 6825, Fram C727, Keene LEB 718, Velcon CO-719B

F718-4 (2-1/4" I.D. x 6-3/4" x 18-1/4" lg.)

Bag type with permanent center tube to replace: Velcon CO-718B

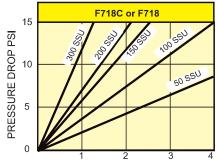
METAL CANISTER

F718-C (2-1/8" I.D. x 6-3/4" x 18" lg.)

Canister type to replace:

Banner FCC 18701, CFD 4603, Fram C766-1, Hilco FFC-00, H-A 718-FEP, Keene D196,

LE 718, Velcon CO-718-CC



FLOW RATE PER U.S. GPM

TO ORDER, specify Model

MODEL	DESCRIPTION
F718-C	METAL CANISTER
F718	COTTON BAG
F718-4	COTTON BAG

4 & up shipped full carton quantity. Quantity 1-3 F.O.B. Northbrook, Illinois 4 & up F.O.B. East Coast.





EDM FILTER CARTRIDGES

Protect your investment - reduce costs with high quality replacement filter cartridges

- Designed for both wire EDM (D.I. water) and Ram/sinker EDM (oil) machines. Meets or exceeds OEM specifications.
- High efficiency filtration for removal of harmful spark erosion residue resulting in improved fluid flushing, cooling & insulating properties.
- Reduce downtime & extend the life of your deionized water or dielectric oil.
- Eliminate hot spots & arcing caused by contaminated dielectric fluids.
- Water resistant paper is phenolic resin impregnated and oven cured.



PL614-5

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PL614-5-5

			S	PECIFIC	OITA	NS		
PART NUMBER	OUTSIDE DIA.	INSIDE DIA.	OVERALL LENGTH	SEAL	CORE	OUTSIDE BODY	BONDING	COMMENT
PL407-5-2	4"	1-1/16"	7-1/2"	Vellumoid	Steel	Plated	PVC	Agietron
PL614-5	6"	3-1/2"	14-1/2"	Buna N	Steel	Plated	PVC	Japax Facet CH 57 EDM
PL614-5-1	6"	1"	14-5/8"	Grommet	Steel	Plated	PVC	Facet C44 (w/handle)
PL614-5-1A	6"	1"	14-5/8"	Grommet	Plated	Plated	PVC	Facet C44P (w/handle)
PL614-5-2	6"	1-1/4"	14-5/8"	Grommet	Steel	Plated	PVC	Charmilles Agietron Facet C54 (w/handle)
PL614-5-2A	6"	1-1/4"	14-5/8"	Grommet	Steel	None	PVC	Facet C54 & CH54PL (w/handle)
PL614-5-2P	6"	1-1/4"	14-5/8"	Grommet	Plated	Plated	PVC	Sodick Charmilles Facet CH56PL (w/handle)
PL614-5-3	6"	1-1/4"	14"	Cork	Steel	Plated	PVC	Japax
PL614-5-5	6"	3-1/2"	14-1/2"	Buna N	Steel	None	PVC	Japax Facet C744
PL614-5-6	6"	3-1/2"	14-1/2"	Buna N	Plated	None	PVC	Japax
PL614-5-16	6"	1-1/4"	14-5/16"	Cork	Steel	Plated	PVC	Japax
PL614-5-16A	6"	1-1/4"	14-5/16"	Cork	Plated	Plated	PVC	Japax
PL614-5-16C	6"	1-1/4"	14-5/16"	Cork	Steel	None	PVC	Japax
PL614-3-20	6"	1-1/4"	14"	Cork	Plated	None	PVC	Japax (w/hand l e) 3 micron
PL614-5-20	6"	1-1/4"	14"	Cork	Plated	None	PVC	Edmas WF-8 (w/handle
PL614-5-20A	6"	1-1/4"	14"	Cork	Plated	None	PVC	Japax (w/hand l e) Water Resistant Paper
PL614-5-20C	6"	1-1/4"	14"	Cork	Steel	None	PVC	Japax (w/handle)
PL614-5-26	6"	3-1/2"	14-1/2"	Buna N	Plated	None	Ероху	Deionized Water Only
PL614-5-44A	6"	1-1/4"	14"	Vellumoid	Plastic	None	Ероху	Epoxy Ends
C718	6-1/2"	2-1/8"	18"	Vellumoid	Steel	Sock	N/A	Depth-Cotton Fiber
F718-C	6-1/2"	2-1/8"	18"	Cork	Fiber	Plated	PVC	Clay (Fuller's Earth)_ Oil Acid REmoval
PL718-5FP	6"	2-5/8"	18"	Vellumoid	Steel	Plated	PVC	Charmilles Sodick Elox Excello Spartcatron
PL718-5-5A	6"	2-1/8"	18"	Vellumoid	Steel	Plated	PVC	Sodic Eltee Pulsitron Spartcatron (w/handle)
PL718-5-14BP	6"	2-5/8"	17-7/8"	Buna N	Plated	Plated	PVC	Deionized Water Only
C815-2	7-1/2"	1-1/2"	15-1/8"	Vellumoid	Steel	Sock	N/A	Depth-Cotton Fiber
	-		•					



EDM FILTER CARTRIDGES continued

2900 MacArthur Blvd. Northbrook, IL. USA 60062 **WWW.SERFILCO.COM** (800) 323 - 5431

Protect your investment - reduce costs with high quality replacement filter cartridges

- Designed for both wire EDM (D.I. water) and Ram/sinker EDM (oil) machines. Meets or exceeds OEM specifications.
- High efficiency filtration for removal of harmful spark erosion residue resulting in improved fluid flushing, cooling & insulating properties.
- Reduce downtime & extend the life of your deionized water or dielectric oil.
- Eliminate hot spots & arcing caused by contaminated dielectric fluids.
- Water resistant paper is phenolic resin impregnated and oven cured.



		DES	SIGN S	PECIF	ICATIO	ONS		
PART NUMBER	OUTSIDE DIA.	INSIDE DIA.	OVERALL LENGTH	SEAL	CORE	OUTSIDE BODY	BONDING	COMMENT
PL1011-5	10"	1-3/4"	11"	Vellumoid	Plated	None	PVC	Le Blond Makino (w/handle)
PL1011-5-1	10-1/4"	1-3/4"	11"	Vellumoid	Plated	Plated	PVC	Le Blond Makino (w/handle)
PL1012-5	10-1/4"	1-3/4"	11-5/8"	Buna N	Plated	None	PVC	Le Blond Makino (w/handle)
PL1014	10-1/4"	1-1/4"	13-1/2"	Cork	Plated	None	PVC	Èlox CNC Mitsubishi Hitachi
PL1014-3	10-1/4"	1-1/4"	13-1/2"	Cork	Plated	None	PVC	Mitsubishi 3 micron
PL1014-5	10-1/4"	1-1/4"	13-1/2"	Cork	Plated	None	PVC	Mitsubishi (w/handle)
PL1014-5-1	10-1/4"	1-1/4"	13-1/2"	Cork	Plated	Plated	PVC	Mitsubishi Diafilpa (w/handle)
PL1016-5	10-1/4"	1-13/16"	16"	Vellumoid	Plated	Plated	Ероху	Brother-Racon
PL1214	11-13/16"	1-3/4"	13-1/2"	Vellumoid	Plated	Plated	Ероху	Hitachi
PL1220-3	11-13/16"	1-5/32"	19-5/8"	None	Plated	Plated	Ероху	Mitsubishi 3 micron
PL1220-5	11-13/16"	1-5/32"	19-5/8"	None	Plated	Plated	Ероху	Mitsubishi
PL1220-20	11-13/16"	1-1/8"	19-5/8"	None	Plated	Plated	Ероху	Mitsubishi
PL1220-5-1	11-13/16"	1-1/8"	19-5/8"	None	Steel	Plated	Ероху	Mitsubishi
PL1220-5-2	11-13/16"	2-1/4"	20"	None	Plated	Plated	Ероху	Mitsubishi Bi-directional Flow
PL1312	13-1/2"	1-7/8"	12"	Vellumoid	Plated	Plated	Ероху	Elox-Fanuc
PL1318-3	13-1/2"	1-7/8"	18"	Vellumoid	Plated	Plated	Ероху	Elox-Fanuc 3 micron
PL1318-5	13-1/2"	1-7/8"	18"	Vellumoid	Plated	Plated	Ероху	Elox-Fanuc flat cover/bottom
PL1318-10	13-1/2"	1-7/8"	18"	Vellumoid	Plated	Plated	Ероху	Elox-Fanuc, 10 micron flat cover/bottom
PL1318-5-1F	13-1/2"	1-7/8"	18"	Buna N	Plated	Plated	Ероху	Fanuc cone cover/flat bottom
PL1318-5-1S	13-1/2"	1-7/8"	18"	Buna N	Plated	Plated	Ероху	Sodick flat cover/cone bottom



PL1011-5



PL 1220-5

CHEMICAL RESISTANCE GUIDE FILTER MEDIA

TM-110_A

MATERIAL CODES

FILTER MEDIA	CORE MATERIAL
B - Natural Cotton	
C - Bleached Cotton 1,2	
G - Glass Fiber H - Hi Perf	A - 304 stainless steel
K - Polyester (Dacron®)	S - 316 stainless steel
N - Nylon	T - Tinned steel
O - Acrylic (Orlon®)	
P - Polypropylene, Fibrillated 1,2	U - Polypropylene
R - Rayon	
U -Polypropylene	
W- Polypropylene ¹ , Potable Water	

NUMERICAL EXPONENTS INDICATE FOLLOWING CONCENTRATIONS													
1. 1%	5. 30%	9. 80%											
2. 5%	6. 40%	10. Dilute											
3. 10%	7. 50%	11. 96%											
4. 20%	8. 5 to 80%	12. Fuming											

OK - Acceptable to use media to its maximum recommended operating temperature.

Number - Maximum recommended operating temperature (°F).

NR - Not recommended.

	В	& C	(G		Н		K		N	(0	P, U	& W		R
	Media	Core	Media	Core	Media	Core	Media	Core	Media	Core	Media	Core	Media	Core	Media	Core
Acetaldehyde	200	S,A	_	_	-	_	_	_			_	_	_	_	_	_
Acetic acid, 20%	85	135U,S,A	OK	S	100 ⁸	100U,S,A	200 ²	140U,S,A			OK8	130U,S,A	OK	135U,S,A	OK ²	135U,S
Acetic acid, glacial	70	135U,S,A	OK	S	70	70U,S,A	200	140U,S,A			ОК	130U,S,A	150	135U,S,A	70	70U,S,T
Acetic anhydride	NR	NR	_	_	NR	NR	NR	NR	— 65		NR	NR	70	135U,S,A,T	-	_
Acetone	ОК	80U,S,A,T	ОК	S	NR	NR	OK	80U,S, & 5T	,søkt		ОК	S,A,T	70	70U,S,A,T	ОК	S,A,T
Aluminum chloride	130²	130U,S,A	_	_	70²	70U,S,A	70²	70U,S\$AU	,S65,₹		70²	70U,S,A	195²	135U,S,A	130²	130U,S,A
Aluminum fluoride	NR ²	NR	_	_	-	-	NR ²	NR 65	J,\$65%		_	_	135²	135U	-	_
Aluminum sulfate	70	70U,S,A	_	_	NR	NR	65	65U,S,A	5165		70	70U,S,A	175	135U,S,A	NR⁵	NR
Ammonia, aqueous	NR	NR	NR	NR	NR	NR	_	— 65	J,S ,A		100	S,A,T	_	-	-	_
Ammonium carbonate	OK ³	140U,S,A	_	_	-	_	_	-	−1 20³		_	_	OK ³	135U,S,A	-	_
Ammonium chloride	_	_	_	-	-	_	70 ³	70U120	UNSERM		-	_	135³	135U	-	
Ammonium hydroxide	100⁵	100U,S,A	NR	NR	-		655	65U,S,A	N R 00⁵		_	_	1955	135U,S,A	70	70U,S,A
Ammonium nitrate	100 ²	100U,S,A	_	_	OK ²	140U,S,A,1	65 ²	65U,S,A,OT	U,OSKA		OK ²	140U,S,A,T	OK ²	135U,S,A,T	100 ²	S,A,T
Ammonium phosphate	_	_	_	_	_	_	65	65U,SI,300	J,SŅART		_	_	135	135U,S,A	_	_
Ammonium sulfate	_	_	_	_	-	_	65²	65U,S,A,T	N R 95 ²		_	_	OK ²	195U,S,A,T	-	_
Amyl acetate	200	S,A,T	_	_	70	S,A,T	NR	NR S	,A, 6 5		70	S,A,T	NR	NR	OK	S,A
Amyl alcohol	200	S,A,T	_	_	-	_	65	S,A,T S	,A,1195		–	_	65	S,A,T	ОК	S,A,T
Aniline	—	_	_	_	-	_	NR	NR S	,A, 6 5		_	_	175	S,A,T	-	_
Aqua regia	NR	NR	_	_	-	_	NR	NR S	,A, N IR		_	_	70	70U	-	_
Arsenic acid	NR	NR	ОК	S	100	100U,S,A	NR	NR	NRNR		70	70U,S,A	OK	95U,S,A	-	_
Barium hydroxide	-	_	_	-	-	_	_	_	NR—		-	_	_	_	_	_
Barium chloride	_	_	_	_	-	_	_	_			-	_	_	_	-	_
Barium sulfate	_	_	_	_	-	_	_	_			-	_	_	_	-	_
Benzaldehyde	_	_	_	_	-	_	_	_			-	_	_	_	-	_
Benzene (benzol)	ОК	S,A,T	ОК	S,A	NR	NR	65	S,A,T S	,A,OTK		65	S,A,T	NR	NR	ОК	S,A,T
Benzene sulfonic acid	_	_	_	-	-	-	-	_			-	_	_	-	-	_
Benzoic acid	–	_	_	_	-	-	-	-	<u> </u>		-	_	–	-	-	_
Borax (sodium borate)	–	-	-	_	-	-	_	–			-	-	–	-	-	_
Boric acid	–	_	_	_	-	-	_	-			-	_	-	-	-	_
Bromine water	NR	NR	_	_	-	-	NR	NR	NRNR		–	-	NR	NR	-	_

¹ Meets FDA regulations for potable water ² Free of "sizing" and yarn "finish" substances

 $[\]ensuremath{^{\circ}}$ Dacron and Orlon are registered trademarks of DuPont.



CHEMICAL RESISTANCE GUIDE FILTER MEDIA

NUMERICAL EXPONENTS INDICATE FOLLOWING CONCENTRATIONS 5. 30% 6. 40% 7. 50% 8. 5 to 80% 9. 80% 10. Dilute 11. 96% 12. Fuming 1. 1% 2. 5% 3. 10% 4. 20%

OK - Acceptable to use media to its maximum recommended operating temperature.

Number - Maximum recommended operating temperature (°F).

NR - Not recommended.

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		& C	_	_	_			K	_	N		0		J & W	_	
	Media	Core	Media	Core	Media	Core	Media	Core	Media	Core	Media	Core	Media	Core	Media	Core
Butyl acetate	OK	U,A,T	OK	S	OK	S,A	65		OKS,	4	OK S,	\	1958	A S,A	-	_
Butyl alcohol	OK	140U,S,A,T	ОК	S	ок	S,A,T	65		6 %U,S	,A,T	108KU,	o,A, I	055,7	65U,S,A,T	-	_
Butyl amine	_	_		_	_		_		-					T -	-	_
Butyl phthalate	70	70U.S.A	-	_	-	_	195		N7ROU.	c v	_ N		65 -	65U.S.A	_	-
Butyric acid Cadmium cyanide	200	140U,A,T	NR	NR	OK	140U.A.T	195		INNOU,	5,A	NR -			R135U,A,T	140	140U,A,T
Calcium bisulfite	200	1400,7,1	INIX	_	l or	1400,4,1	-		1 _ 7				OK IV	(1330,A,1	140	1400,4,1
Calcium chloride	NR	NR		_	ок	s	195		NR S		OK N	?	OK S	s	NR	NR
Calcium hypochlorite	NR	NR	NR NR	NR	140	140U	193		NR -		NR NE		135N	1	I INIX	"
Calcium nitrate	NR	NR	"	_	_	-	l _							1 _	l _	l _
Calcium phosphate	_	_	_	_	_	_	_							_	_	_
Calcium sulfate	_	_	_	_	l _	_	l _		_		l			ļ _	l _	_
Carbon disulfide	70	S,A,T	_	_	65	S,A,T	NR		65 N	₹	65S,A	т,	NRS,	,T NR	_	_
Carbon tetrachloride	OK	100U,S	100	S	ок	s	65		оки,		OK001	J,S	95 8	95U,S	ок	95U,S
Carbonic acid	100	100U,S	_	_	100	S,A	NR		95 N	?	195U	S,A	oks	A35U,S,A	100	100U,S,A
Cellosolve	NR	NR	_	_	_	_	NR		— NF	₹			NR -	NR	-	_
Chloroacetic acid	NR	NR	-	_	_	_	NR		NRN	₹	— N	₹	70 -	70U	_	-
Chlorine water	NR	NR	-	_	NR	NR	-		– ⊣		NR -		NRN	R NR	-	–
Chlorobenzene	195	S,A	ок	S	195	S,A	195		195S,	A	195S,	4	NRS	A NR	195	S,T
Chloroform	OK	65U,S,A	-	_	ок	70U,S,A	65		N8₹5U,	S,A	OK N	₹	7 7 00U	S7AU,S,A	ок	S,A
Chlorosulfonic acid	NR	NR	-	_	-	-	-						NR -	NR	-	_
Chromic acid up to 30%	NR	NR	-	_	-	_	-				NR -		NR N	R NR	-	-
Chromic acid, 50%	_	-	-	_	95	S	NR		NRN		— N			+ -	-	_
Citric acid	135	135U,S,A	ОК	S,A	NR	NR	65		Na₹5U,	S,A	OK N	₹	OKS	A135U,S,A	150	140U,S,A
Copper chloride	_	_	_	_	_	_	_							<u> </u>	_	_
Copper cyanide	NR	NR	NR	NR	-	-	-		-		l – †		OK -	135U,S,A	135	135U,S,A
Copper nitrate	NR	NR	-	_	-	-	-		- +		- +			† -	-	-
Copper sulfate	135	135U,S	ОК	S,A	OK	130U,S,A	65		Næ5U,	S,A	OK N	₹	QEOL	,\$3 5 U,S,A	135	135U,S,A
Cresol	OK	S	80	U	70	S	65		_ s	_	NR -	_	— N	K —	185	S
Cyclohexane	65	S,A,T	_		NR	NR	65		19 5 5,A	,Т	NRS,A	, I	NRN		65	S,A,T
Decalin	_	_	-	_	-	_	_						NR -	NR NR	-	_
Detergents	OK	115U,S,A,T	— ОК	S.A	_ ок	S,A,T	-		6%U.S	,A,T	1\2R0U,	: A T	120N	R20U,S,A,1	ок	S,A,T
Diesel fuel Dowtherm	65	65U,S,A,T	OK	S,A	1	5,A,1	65			,А, I	IVERUO,	,,rs, i	70 -	70U,S,A,T	UN	
Ethanolamine	65	65U,S,A,T	UK	Э,А	-	_	-						70 -	70U,S,A,T	_	_
Ether	OK	S,A,T	OK	S,A	OK	S,A,T	65		—S.A	Т	NR -		NRN			
Ethyl acetate	OK	115U,S,A,T	ОК	S,A	65	S,A,T	65		65U,S	,A,T	NR -			R20U,S,A,1	65	S,A,T
Ethyl alcohol (ethanol)	OK	120U,S,A,T	ok	S	"		OK		1 3 5U,				OK -	135U,S,A,T		S,A,T
Ethylene dichloride	_	-	_	_	l _	_	_							1	_	
Ethylene glycol	OK	120U,S,A,T	ок І	S,A	ок	70U,S,A,T	ок		635U,	S.A.T	Ø6U,\$.A.T	OKU.	\$1 4 010,S,A,T	ОК	S,A,T
Ferric chloride	NR	NR	140	U	95	95U.S.A.T	140		65140	U	19565	J		S185U & S	NR	NR
Ferric hydroxide	NR	NR	_	_	l _		_				l — 🕂		NR -	NR	l _	_
Ferric nitrate	NR	NR	_	_	NR	NR	65		-6 5∪	% S	70		07/0U	&1 \$5U & S	NR	NR
Ferric sulfate	65 ²	65U,S,A	ОК	S,A	NR ²	NR	65 ²		655U,	S,A	7 6 5U	S,A	ORGU	3,36U,S,A	_	_
Ferrous chloride	NR	NR	-	_	NR	NR	65		65 65	J	65 65	J	OK65	U 135U	65	65U
Ferrous sulfate	NR	NR	_	_	_	-	_						NR -	NR	_	_
Fluoboric acid	NR	NR	-	_	-	-	-				l – +		NR -	NR	l –	-
Fluosilicic acid	NR	NR	-	_	-	–	NR		— N	₹	l – +		70 -	70U	-	_
Formaldehyde		70U,S,70A&T	ок	S,A	ОК	130U,S	65³		6856U8		665U8			A& 25U,S	65³	65U,A,T
Formic acid	NR ³	NR	ОК	S,A	OK ³	140U& A	OK ¹⁰		N₽ \$U,	150A	100 ³ N			Ú8345 U,70A	NR	NR
Freons (fluorocarbons)	200	S,A,T	OK	S,A	ОК	S,A,T	- 1		95 -		OKS,A			70U,S,A,T	195	S,A,T
Fuel oils	OK	S,A,T	-	_	OK	S,A,T	OK		OKS,	A	OKS,A	,T		4,⊤S,A,T	OK	S,A,T
Furfural	65	S,A,T	-	_			65		— S,	A	- +	_	NR -	NR NR		_
Gasoline	OK	S,A,T	-	_	OK	S,A,T	-		OK –		OKS,A	, I		,T NR	NR	NR
Glycerine (Glycerol)	70	70U,S,A,T	_	_	NR	NR	_				70 –			1 3 5U,S,A,7	_	_
Heptane	_		-	_	-	-	-		_				NR -	NR		
Hexane	OK	120U,S,A,T	OK	S,A	70 ⁷	-	65		6 5 U,S	,A, I	65U,S			140U,S,A,T		S,A,T
Hydrobromic acid, 20%	_	-	140	U		70U	65³		NR65	J	70 ⁷ NF			U 140U	NR	NR
Hydrochloric acid,0-25% Hydrochloric acid, 25-37%	_	_	140	U	OK ²	130U	NR		NRN	(OK ² NF	(0U 135U	NR	NR
I HUMITOCOLOGIC COLD 35 370/1	_	. –	140	U	OK⁵	130U	. – 1	1			1305		OK§3	Ψ∪ —		ı —





CHEMICAL RESISTANCE GUIDE FILTER MEDIA

| NUMERICAL EXPONENTS INDICATE | FOLLOWING CONCENTRATIONS | 1. 1% | 5. 30% | 9. 80% | 2. 5% | 6. 40% | 10. Dilute | 3. 10% | 7. 50% | 11. 96% | 4. 20% | 8. 5 to 80% | 12. Fuming |

OK - Acceptable to use media to its maximum recommended operating temperature.

Number - Maximum recommended operating temperature (°F).

NR - Not recommended.

	В	& C		G		Н		K		N		0	P. I	J & W	R	
	Media	Core	Media	Core	Media		Media		Media	Core	Media	Core	Media	Core	Media	Core
		70U					_	_		Core	140		B5WK	Core		65U
Hydrofluoric acid, 10%	70	NR	NR	NR	140	140U	65	65U	IRNR		140	140U 1	Bowk		65	650
Hydrofluoric acid, 30%	NR	NR NR	NR	NR		70U	_	-			70	70U	10U70		NR	NR
Hydrofluoric acid, 50%	NR	NR NR	NR	NR	70		65	65U			100				100 ²	
Hydrogen peroxide, 30%	NR		OK	S,A	100	65U,S,A	65		IRNR		100	65U,S1A0				95U,S,A
Hydrogen peroxide, 50%	NR	NR	OK	S,A			65 ²	65U	IRNR		-		J,S7,A5		NR ⁵	NR
Kerosene	OK	65U	OK	S,A	NR	NR	OK	65U,S645U	S,AOK		OK	S,A,65U	S,Aibi		OK	S,A,T
Ketones	l —		-	_	l -	l	-				-				-	
Lactic acid	NR	NR	140	U	OK	140U	65	65U 6	5U65		OK				65	65U
Lead acetate	l –		-	_	_	l . -	-	-			_		B5W0K		_	
Lubricants	OK	65U,S,A,T	_	_	OK	S,A,T	_	65U	S,AOKT		OK	S,A,70L	S,AXOT		OK	S,A,T
Magnesium chloride	65	65U,S	-	_	NR	NR	65	65U,S6	U,\$65		70	70U,S13			65	S
Magnesium hydroxide	65	65U,S	-	_	-	_	-	_			-	- 13	SUÇSK		-	-
Magnesium nitrate	-	-	-	_	-	-	-	_			_	_	- -		-	-
Magnesium sulfate	65	65U,S,A	-	_	l –	_	-	_	- -		l –		U,\$6%		65	65U,S,A
Methyl alcohol (methanol)	OK	120U,S,A,T	OK	S,A	OK	U,S,A,T	OK	U,S,A,	\$,AOK		OK	U,S,A,Ū,	s,aak		OK	U,S,A,T
Methyl chloride	-	_	-	_	-	_	-	1	S 8945		-	_	NRNR		l –	_
Methyl ethyl ketone	OK	130U,S,A,T	OK	S	NR	NR	65	65U,S1A01			OK	S,A,740			ОК	140U,S,A
Methylene chloride	OK	200S&A,95T	212	S,A	NR	NR	95	95S,A2112			OK	212S & A			l –	-
Naphtha	OK	65U,S,A,T	OK	S,A	OK	S,A,T	65	65U,S65			OK	S,A,65L			OK	70U,S,A,
Nickel chloride	70	70U	140	U	OK	70U	65	65U	IRNR		70	70U 1			95	95U
Nickel sulfate	70	70U,S,A	OK	S,A	OK	70U,S,A	65	65U,S,A	IRNR		70	70U,S1 3			95	140U,S,
Nitric acid, 10%	70	70U,S,A	OK	S,A	OK	130U,S,A	205	130U,S,A	IRNR		200	130U, S 34			65	140U,S,
Nitric acid, 20%	NR	NR	250	S,A	OK	130U	65	65U	 		145	130U 1			NR	NR
Nitric acid, 50%	NR	NR	250	S,A	70	70U	65	65U			70	70U 70			NR	NR
Nitric acid (concentrate)	NR ¹²	NR	125	S,A	NR ¹²	NR	NR ¹²	NR	<u> </u>		NR ¹²	NR	NRNR12		NR	NR
Nitrobenzene	NR	NR	_	_	NR	NR	195	70U,S	,S195		195	70U, 3 70	J,S7A0		195	S
Oil, vegetable	ОК	90U,S,A,T	_	_	NR	NR	65	65U,S,A,T	IRNR		NR	NR 70	J,S7A0		OK	100U,S,
Oil, sour crude	140	65U,S,A,T	_	_	ок	S,A,T	ок	65U,S65T	S,AORT		OK	S,A,770L	S,AXOT		ОК	70U,S,A,
Oleic acid	70	70U,S	_	_	OK ²	70U,S	65 ²	65U,S	IRNR2		70 ²	70U,SI3	5U 1,8 02		95 ²	140U,S
Oxalic acid	NR	NR	_	_	ок	65U,S,A	NR ²	NR	IRNR2		65	65U,S1A	U,188,1A2		95²	140U,S,
Perchloroethylene	OK	65U,S,A,T	-	_	OK	S,A,T	OK	65U,S,A \$	A, TOK		OK	S,A,65L	S,AOT		OK	S,A,T
Phenol	ОК	65U,S	_	_	NR	NR	l —		IRNR		NR	NR 6	5U, S 5		205	S
Phosphoric acid, 0-50%	70 ³	70U,S,200A	212	Α	OK3	210A,S	205 ³	205Æ5U	&A659		210 ³	210A1,365	U,211820A		135¹	135S & A
Phosphoric acid, 50-100%	NR	NR	140	U	OK ⁹	140U	_		IRNR ⁷		150°	140U 1	85 W 359		65³	65U & A
Potassium bromide	NR	NR	_	_	l –	_	l –	_	L –		_	_	NRNR		l –	_
Potassium carbonate	_	_	-	_	-	_	_	_			-	_	NRNR		-	_
Potassium chlorate	NR	NR	_	_	_	_	_	_	L –		_	_	NRNR		_	_
Potassium chloride	70 ²	135U,S,A	_	_	NR ²	NR	65²	65U,S,A	L –		65 ²	65U,S1&	U,187,162		65 ²	140U
Potassium cyanide	OK ²	120U,S,A	_	_	OK	135U,S,A	l _	_	L – I		NR ²	NR135	U,6),k/2		OK ²	S,A
Potassium dichromate	NR	NR	_	_	l _		_	_	L –		_	_	NRNR		_	_
Potassium hydroxide	OK ²	120U,S,A	NR	NR	OK ²	130U,S,A	120²	120U,\$40	U, S), K (2		195²	130U,S39	U,6),6\ ²		OK ²	140U,S,
Potassium nitrate	NR	NR	_	_	_		l _		L –		l –	_	NRNR		l –	
Potassium permanganate	NR ²	NR	_	_	_	_	NR ²	NR	L –		_	— 135	U, S 4A2		NR ²	NR
Potassium sulfate	70 ²	70U,S,A	_	_	NR ²	NR	65 ²	65U.S.A	L _		NR ²	NR135	U.57A2		65 ²	65U,S,A
Propyl alcohol	ок	120U	l _	_	_	_	l _	_	L _		l _	—65L	S,AXOT		l _	
Silver nitrate	NR	NR	ОК	S,A	OK	130U.S.A	NR	NR	NRNR		OK	130U, 3 3			NR	NR
Soaps	l _	_	_	_	_	_	_	_	L _		_		U,\$85		l _	l _
Sodium acetate	65	65U,S,A	_	_	l _	l _	65	65U.S.A	L _		_		U,SDK		65	65U,S,A
Sodium bicarbonate	65	65U,S,A,T	l _ l	_	NR	NR	65	65U,S,A,T	L _		135	135U, 3 34			65	65U.S.A
Sodium bisulfate	NR	NR	_	_	NR	NR	65	65U	L _		70		B5U35		NR	NR
Sodium carbonate	65	65U,S,A	_		65	65U,S,A	65	65U,S120	U.SOK		65	65U,S1A			_	-
Sodium chlorate	NR	NR	_		_		65	65U.S.A	Ľ.				U,\$7A		l _	_
Sodium chloride	ОК	120U	_		OK3	140U	OK3	140U 1	10100K3		ок	140U 1			OK3	140U
Sodium cyanide	ОК	120U,S,A	_	_	OK	130U,S,A	NR	NR140			NR		U,SOK		NR	NR
Sodium hydroxide, 20%	65	65U,S,A	NR NR	NR		1000,0,4	65 ²	65U,S120					U.SOK		NR	NR
Sodium hydroxide, 20% Sodium hydroxide, 50%	NR ⁶	NR	NR	NR	OK ⁶	130U,S,A	00	UJU, SI AL	J,WA		NR ⁶		U,SOK		141	MIX
	NR.	NR NR	NR NR	NR NR	NR ²	1300,5,A NR	65 ²	65U,S95	11 05		NR		DU1802		NR ²	NR
Sodium hypochlorite	65	65U,S,A	OK		NR ²		65	65U,S95			135	135U, 3 34			65	65U,S,A
Sodium nitrate	65	65U,S,A,T	l ok	S,A	INK	NR	65		ψ,ομ υ		133		U.S1/A0T		65	S,A,T
Sodium silicate Sodium sulfate	I			_	L LID	NID.		65U,S,A,T	1000		135				65	
Somum suttate	70	70U,S,A	OK	S,A	NR	NR	65	65U,S645	ψ,5040		135	135U, 3 39	di∩'orten	I	00	65U,S,A



CHEMICAL RESISTANCE GUIDE FILTER MEDIA

2900 MacArthur Blvd. Northbrook, IL. USA 60062 WWW.SERFILCO.COM (800) 323 - 5431

	L EXPONENTS	
1. 1%	5. 30%	9. 80%
2. 5%	6. 40%	10. Dilute
3. 10%	7. 50%	11. 96%
4. 20%	8. 5 to 80%	12. Fuming

OK - Acceptable to use media to its maximum recommended operating temperature.

Number - Maximum recommended operating temperature (°F).

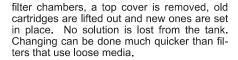
NR - Not recommended.

	B&C		G			Н		K		N		0	P, U & W		R	
	Media	Core	Media	Core	Media	Core	Media	Core	Media	Core	Media	Core	Media	Core	Media	Core
Sodium sulfide	65	65U,S	_	_	NR	NR	65	65U,S	—	_	135	135U,S	170	135U,S	65	65U,S
Stannic chloride	65	65U	_	_	l —	-	65²	65U	65 ²	65U	-	_	70 ²	70U	65 ²	65U
Sulfuric acid, 0-10%	100 ²	100U,S	ОК	S	145 ²	145U,S	140 ²	140U,S	-	_	145 ²	145U,S	OK ³	135U,S	100 ²	100U,S
Sulfuric acid, 10-75%	NR ⁷	NR	ОК	S	65 ⁷	65U	NR ¹¹	NR	NR	NR	65 ⁷	65U	135 ⁷	135U	NR ¹¹	NR
Sulfuric acid (conc.)	NR ¹²	NR	100	S	NR ¹²	NR	NR ¹²	NR	NR	NR	NR ¹²	NR	6511	65U,S,A	NR ¹²	NR
Sulfurous acid	NR	NR	140	U	OK	135U	NR	NR	NR	NR	OK	135U	135	135U	-	_
Tannic acid	65	65U,S,A	OK	S,A	OK	135U,S,A	65³	65U,S,A	65³	65U,S,A	ОК	135U,S,A	ОК	135U,S,A	135	135U,S,A
Tartaric acid	65	65U,S	-	_	NR	NR	65	65U,S	-		135	135U,S	145	135U,S	-	-
Tetrahydrofurane	65	65U,S,A	ОК	S,A	NR	NR	65	S,A	95	70U,S,A	NR	NR	70	65U,S,A	OK ³	70U,S,A
Toluene (toluol)	OK	110U,S,A	ОК	S,A	NR	NR	65	65U,S,A,T	OK	120U,S,A,		S,A,T	ı	110U,S,A,T	OK	S,A,T
Trichloroethylene	OK	S,A	_	_	NR	NR	65	S,A	65	65U,S,A	OK	S,A	NR	NR	OK	S,A
Triethanolamine		65U,S,A,T		_	l —	-	65	65U,S,A,T	-	_	-	_		65U,S,A,T	-	- 1
Turpentine	OK	65U,S,A,T	ОК	S,A	95	S,A,T	65	65U,S,A,T	OK	S,A,T	OK	S,A,T	70	65U,S,A,T	OK	S,A,T
Urea	70	Т	-	_	-	-	-	_	-		-	_	-	_	65	Т
Vinegar	95	95U,S,A	_	_	NR	NR	_	_	NR	NR	NR	NR	135	135U,S,A	100	100U,S,A
Water, deionized	-	_	-	_	—	_	_	_	l –	_	l –	_	ОК	U,S	-	_
Water, sea (salt)	OK	120U	140	U	OK	135U	140	140U	135	135U	240	135U	ОК	135U	140	140U
Xylene (xylol)	OK	S,A,T	-	_	NR	NR	OK	S,A,T	OK	S,A,T	ОК	S,A,T	NR	NR	OK	S,A,T
Zinc chloride	-	_	-	_	-	-	-	_	-	-	-	_	120	120U	-	-
Zinc sulfate	-	_	OK	S,A	NR	NR	-	_	NR	NR	OK	U,S,A	ок	U,S,A	-	-

7 REASONS

- 1 TRUE DEPTH FILTRATION wound filter cartridges provide selective particle retention. They are manufactured to provide true depth filtration deficient filtering throughout the path of the fluid. Winding creates diamond-shaped openings that become progressively smaller toward the center tube, to trap progressively smaller particles. Large particles never reach small openings.
- 2 LONGER SERVICE LIFE because the wound cartridge so successfully resists clogging, it's not uncommon for a set of cartridges to filter many millions of gallons of fluid before replacement. Fewer filter changes obviously save both labor and materials. More important is that production equipment is shut down less often for filter cartridge service. Such facts are important considerations in selecting the kind of filtration system you install.
- 3 CHEMICAL AND TEMPERATURE COMPATIBIL-ITY — cartridge windings are made in a variety of materials — polypropylene, nylon, cotton, rayon, orlon and glass to name a few, and other materials on special order. Cores are of polypropylene, stainless steel or tinned steel as standard materials. Various materials also have different temperature tolerances. By selecting the right materials for your needs, you're assured of complete chemical and temperature compatibility.
- 4 Ease of service depth cartridges do not require highly trained personnel for service. Replacement can be done by almost anyone. On most

FOR USING DEPTH FILTER CARTRIDGES



- 5 POLLUTION ABATEMENT cartridges present no liquid or wastewater pollution problem: spent cartridges are disposed of as solid waste. Where it is necessary to treat them for toxicity or to neutralize them, it can be done in place, with cartridges still in the chamber.
- 6 WIDE CHOICE OF POROSITIES wound cartridges reject particles from as low as 0.5 micron to 100 micron. This wide range of porosities expands the customer's ability to tailor his filtration system to his specific need, to select exactly the right cartridge, whether for single pass filtration or recirculation filtration.
- 7 MODULAR DESIGN most filter chambers designed for wound cartridges can accommodate several modular sizes of cartridges in diameters of 2.5 inches and standard lengths of 6, 10,20, 30, and 40 inches. Thus, a chamber might be fitted with 36 10-inch cartridges, or 12 30-inch units, or a combination of more than one size. The choice is the customer's, based on economics and ease of changeover; but filtration efficiency is not impaired, regardless of cartridge size.



