

OFFERING THE LATEST IN PUMP & FILTER DESIGN FOR . . .



PLATING & PCB MANUFACTURING or wherever efficient particle removal is required

- **High flow rates — 3000 - 8500 GPH**
Improve process quality; reduce scrap, tank maintenance and downtime
- **Standard slurry tank with valves**
Prime pump, mix and add chemicals, rinse or pre-coat filters
- **Totally non-metallic solution contact to 190°F** (PVC, CPVC, polypropylene)
Corrosion-free, low maintenance operation
- **Quiet, efficient centrifugal pumps —**
Single seal, double seal or magnetic-coupled
Handles nearly all 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 'F' or Series 'HE'. The Series 'M' magnetic-coupled pump, constructed of glass reinforced polypropylene with EPDM 'O'-rings, will provide flow rates from 3,000 to 3,500 GPH. The Series 'F' magnetic-coupled pump is also constructed of glass-filled polypropylene with an EPDM 'O'-ring and will provide flow rates from 5,000 to 8,500 GPH. The Series 'HE' pump, which is constructed of CPVC with EPDM elastomers, is available with either single or double mechanical seals. It features silicon carbide seal faces, the longest lasting, most durable seal available. The 'HE' pump provides flow rates from 3,000 to 8,500 GPH.

All pump motors are chemical service, continuous duty, TEFC, painted with two-part epoxy paint and stainless steel tag. 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 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.

SPECIFICATIONS and ORDERING INFORMATION

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

SYSTEM NUMBER	FLOW RATE		PUMP SERIES	PUMP HP ²	PUMP MAX. PSI	NO. * OF DISCS	SURFACE AREA		SUCTION/DISCH. CONNS.	OVERALL DIM. (In.) (l x w x h)	SHIP. WEIGHT (lbs)
	GPH @ 60 Hz	LPH @ 50 Hz					ft. ²	m ²			
CGD15M210H	3000	9450	M	1.0	24	31	15	1.4	1½ x 1½	50 x 24 x 25	185
CGD30M210H	3000	9450	M	1.0	24	65	30	2.8	1½ x 1½	50 x 24 x 35	195
CGD45M315H	4500	14,175	M	1.5	28	99	45	4.2	1½ x 1½	50 x 24 x 45	205
CGD60F420H	5500	17,300	F	2.0	29	130	60	5.6	1½ x 1½	66 x 24 x 35	325
CGD90F530H	6000	18,900	F	3.0	35	198	90	8.4	2 x 2	66 x 24 x 45	345
CGD90F850H	8500	26,800	F	5.0	45	198	90	8.4	2 x 2	66 x 24 x 45	355

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

* Filter disc media ordered separately.

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	78-1612A
CE 10 x 10	10	78-1613A
CE 20 x 10	20	78-1614A
CE 40 x 10	40	78-1615A
C x 9 Carbon	10	78-1616A

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

CARBON PURIFICATION CHAMBER OPTIONS			PRICE CODE NO.
For continuous or batch carbon treatment. Choose carbon capacity of 7.5 to 42 lbs. Carbon chamber option includes a larger system base (24" x 66"), piping and flow control valve. Chamber is PVC with swing bolt cover closure. Internal canisters are PVC, elastomers are EPDM. For use with granular carbon.	CAPACITY	CANISTER	
	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
	QUANTITY	50 lbs. 10 lbs.	99-0995 99-0992
Granular carbon – 8 x 30 mesh			

¹ Listed system includes CPVC chamber.
To order system with PVC chamber — change the **C** to **P** in System No. and Model No.

² Less than 1.0 HP — single phase standard.
1.0 HP and above — three phase standard.

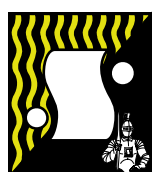
³ To order pump with double mechanical seal — change **HE** to **HED** in System No.

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

F.O.B. Northbrook, Illinois

Specifications subject to change without notice.

Registered trademark: Viton - DuPont Dow Elastomers



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