



GUARDIAN® DISK | SYSTEMS



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

- **Flow rates to 8500 GPH @ 60Hz**
(26,800 LPH @ 50Hz)
- **Standard slurry tank with valves**
Prime pump, mix and add chemicals, rinse or pre-coat filters
- **Non-metallic solution contact**
PVC, CPVC polypropylene
- **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 '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 | SYSTEMS

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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		SUCT./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
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 1½	66 x 24 x 45	345
CGD90F850H	8500	26,800	F	5.0	45	198	90	8.4	2 x 1½	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 1½	50 x 24 x 25	185
CGD30HE610H	3000	9450	HE	1.0	16	65	30	2.8	2 x 1½	50 x 24 x 35	195
CGD45HE115H	4500	14,175	HE	1.5	24	99	45	4.2	2 x 1½	50 x 24 x 45	205
CGD60HE220H	5500	17,300	HE	2.0	29	130	60	5.6	2 x 1½	66 x 24 x 35	325
CGD90HE330H	6000	18,900	HE	3.0	36	198	90	8.4	2 x 2½	66 x 24 x 45	345
CGD90HE450H	8500	26,800	HE	5.0	50	198	90	8.4	2 x 2½	66 x 24 x 45	355

¹ Listed system includes CPVC chamber.

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.

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 CHAMBER OPTIONS

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	PRICE CODE NO.
		7.5 lbs. 22.5 lbs. 42 lbs.	single 5" x 28" triple 5" x 28" triple 5" x 48"

Order carbon media from Bulletin M-305

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