



Versatile and reliable recirculatory filtration



- **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



CPVC single or double seal² direct drive pump and CPVC or PVC filter chamber¹

System Number	Flow Rate		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)
	GPH @ 60 Hz	LPH @ 50 Hz										
CG24HE115H	4,200	13,200	HE	1.5	24	20	G	12 - 20"	84	2 x 1½	48 x 24 x 36	205
CG36HE115H	4,200	13,200	HE	1.5	24	20	G	12 - 30"	126	2 x 1½	48 x 24 x 46	215
CG48HE115H	4,200	13,200	HE	1.5	24	20	G	12 - 40"	168	2 x 1½	48 x 24 x 56	230
CG36HE220H	5,400	17,000	HE	2.0	27	24	G	12 - 30"	126	2 x 1½	48 x 24 x 46	225
CG48HE220H	5,400	17,000	HE	2.0	27	24	G	12 - 40"	168	2 x 1½	48 x 24 x 56	240
CG60HE220H	5,400	17,000	HE	2.0	27	24	G	12 - 50"	210	2 x 1½	48 x 24 x 66	250
CG36HE330H	6,500	20,500	HE	3.0	36	32	G	12 - 30"	126	2 x 1½	48 x 24 x 46	235
CG48HE330H	6,500	20,500	HE	3.0	36	32	G	12 - 40"	168	2 x 1½	48 x 24 x 56	245
CG60HE330H	6,500	20,500	HE	3.0	36	32	G	12 - 50"	210	2 x 1½	48 x 24 x 66	255
CG36HE450H	8,500	26,800	HE	5.0	50	45	G	12 - 30"	126	2 x 1½	48 x 24 x 46	250
CG48HE450H	8,500	26,800	HE	5.0	50	45	G	12 - 40"	168	2 x 1½	48 x 24 x 56	260
CG60HE450H	8,500	26,800	HE	5.0	50	45	G	12 - 50"	210	2 x 1½	48 x 24 x 66	270
CG96HE450H	8,500	26,800	HE	5.0	50	45	(2)G	24 - 40"	336	2 x 2	60 x 24 x 56	395
CG120HE450H	8,500	26,800	HE	5.0	50	45	(2)G	24 - 50"	420	2 x 2	60 x 24 x 66	425
CG96HE575H	10,000	21,500	HE	7.5	60	45	(2)G	12 - 40"	336	2 x 2	60 x 24 x 56	440
CG120HE575H	10,000	21,500	HE	7.5	60	45	(2)G	12 - 50"	420	2 x 2	60 x 24 x 66	470

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

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

Polypropylene magnetic drive pump and CPVC, PVC or polypropylene filter chamber¹

System Number	Flow Rate		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)
	GPH @ 60 Hz	LPH @ 50 Hz										
CG24M210H	3,000	13,200	M	1.0	20	16	G	12 - 20"	84	1½ x 1½	48 x 24 x 36	185
CG36M210H	3,000	13,200	M	1.0	20	16	G	12 - 30"	126	1½ x 1½	48 x 24 x 46	195
CG48M210H	3,000	13,200	M	1.0	20	16	G	12 - 40"	168	1½ x 1½	48 x 24 x 56	210
CG36FE110H	3,900	12,300	FE	1.0	18	16	G	12 - 30"	126	2 x 1½	48 x 24 x 46	215
CG48FE110H	3,900	12,300	FE	1.0	18	16	G	12 - 40"	168	2 x 1½	48 x 24 x 56	230
CG60FE110H	3,900	12,300	FE	1.0	18	16	G	12 - 50"	210	2 x 1½	48 x 24 x 66	240

¹ 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.



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

System Number	Flow Rate		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)
	GPH @ 60 Hz	LPH @ 50 Hz										
CG36FE215H	4,700	14,800	FE	1.5	25	24	G	12 - 30"	126	2 x 1 1/2	48 x 24 x 46	225
CG48FE215H	4,700	14,800	FE	1.5	25	24	G	12 - 40"	168	2 x 1 1/2	48 x 24 x 56	240
CG60FE215H	4,700	14,800	FE	1.5	25	24	G	12 - 50"	210	2 x 1 1/2	48 x 24 x 66	250
CG36FE320H	6,000	18,900	FE	2.0	32	30	G	12 - 30"	126	2 x 1 1/2	48 x 24 x 46	235
CG48FE320H	6,000	18,900	FE	2.0	32	30	G	12 - 40"	168	2 x 1 1/2	48 x 24 x 56	245
CG60FE320H	6,000	18,900	FE	2.0	32	30	G	12 - 50"	210	2 x 1 1/2	48 x 24 x 66	255
CG48F850H	8,500	26,800	F2x2	5.0	45	33	G	12 - 40"	168	2 x 1 1/2	48 x 24 x 56	260
CG60F850H	8,500	26,800	F2x2	5.0	45	33	G	12 - 50"	210	2 x 1 1/2	48 x 24 x 66	270
CG96F850H	8,500	26,800	F2x2	5.0	45	33	(2)G	24 - 40"	336	2 x 2	60 x 24 x 56	395
CG120F850H	8,500	26,800	F2x2	5.0	45	33	(2)G	24 - 50"	420	2 x 2	60 x 24 x 66	425
CG96F910H	10,000	31,500	F2x2	10.0	53	42	(2)G	24 - 40"	336	2 x 2	60 x 24 x 56	460
CG120F910H	10,000	31,500	F2x2	10.0	53	42	(2)G	24 - 50"	420	2 x 2	60 x 24 x 66	490

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

System Number	Flow Rate		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)
	GPH @ 60 Hz	LPH @ 50 Hz										
CG24FES110H	3,000	13,200	FES	1.0	19	16	G	12 - 20"	84	1 1/2 x 1 1/2	48 x 24 x 36	200
CG36FES110H	3,000	13,200	FES	1.0	19	16	G	12 - 30"	126	1 1/2 x 1 1/2	48 x 24 x 46	210
CG48FES110H	3,000	13,200	FES	1.0	19	16	G	12 - 40"	168	1 1/2 x 1 1/2	48 x 24 x 56	220
CG36FES215H	3,900	12,300	FES	1.5	22	16	G	12 - 30"	126	1 1/2 x 1 1/2	48 x 24 x 46	210
CG48FES215H	3,900	12,300	FES	1.5	22	16	G	12 - 40"	168	1 1/2 x 1 1/2	48 x 24 x 56	220
CG60FES215H	3,900	12,300	FES	1.5	22	16	G	12 - 50"	210	1 1/2 x 1 1/2	48 x 24 x 66	230
CG36FES320H	4,700	14,800	FES	2.0	29	24	G	12 - 30"	126	1 1/2 x 1 1/2	48 x 24 x 46	220
CG48FES320H	4,700	14,800	FES	2.0	29	24	G	12 - 40"	168	1 1/2 x 1 1/2	48 x 24 x 56	230
CG60FES320H	4,700	14,800	FES	2.0	29	24	G	12 - 50"	210	1 1/2 x 2 1/2	48 x 24 x 66	240
CG36FES430H	6,000	18,900	FES	3.0	35	30	G	12 - 30"	126	1 1/2 x 1 1/2	48 x 24 x 46	230
CG48FES430H	6,000	18,900	FES	3.0	35	30	G	12 - 40"	168	1 1/2 x 1 1/2	48 x 24 x 56	240
CG60FES430H	6,000	18,900	FES	3.0	35	30	G	12 - 50"	210	1 1/2 x 1 1/2	48 x 24 x 66	250

¹ 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.



Customize your Guardian with the following options

SLURRY TANK and VALVES			
	SURFACE AREA (sq. ft.)	SLURRY CAPACITY (gal.)	PRICE CODE NO.
SV4 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, plus backwash and bypass valves.	84	7	O-2085
	126	11	O-2073
	168 +	18	O-2091

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 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

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 Specify operating voltage	O-150H O-350H
VITON® ELASTOMERS	ADD TO END OF SYSTEM NO.
Filter chamber and pump	V