



SERFILCO®

GUARDIAN®

BULLETIN
SP-191B
OCT. 2000

Cartridge / Sleeve Filtration Systems with Series 'GC' Filter Chambers and Choice of Pump



All Guardian systems include the following standard features:

- Non-metallic solution contact
- Stainless steel external fasteners
- Swing bolt chamber closures
- Viton® / Hypalon® elastomers standard
- Corrosion resistant FRP 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 pressure gauge and vent valve
- Silicon carbide seals standard on non-self-priming mechanical seal pumps

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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	Cartridge Change PSI	Filter Series	Media	Solids Area (sq. ft.)	Suct. / Disch Conns. (inches)	Hose Kit Price Code No.
	GPH										
CGC24M208	3,500	11,000	M	¾	24	20	GC	12 - 20"	84	1½ x 1½ FNPT	99-1616
CGC36M208	3,500	11,000	M	¾	24	20	GC	12 - 30"	126	1½ x 1½ FNPT	99-1616

CGC24M310H	4,000	12,600	M	1.0	28	23	GC	12 - 20"	84	1½ x 1½ FNPT	99-1616
CGC36M310H	4,000	12,600	M	1.0	28	23	GC	12 - 30"	126	1½ x 1½ FNPT	99-1616
CGC48M310H	4,000	12,600	M	1.0	28	23	GC	12 - 40"	168	1½ x 1½ FNPT	99-1616
CGC60M310H	4,000	12,600	M	1.0	28	23	GC	12 - 50"	210	1½ x 1½ FNPT	99-1616

CGC24F315H	5,000	15,800	F	1.5	23	20	GC	12 - 20"	84	1½ x 1½ FNPT	99-1616
CGC36F315H	5,000	15,800	F	1.5	23	20	GC	12 - 30"	126	1½ x 1½ FNPT	99-1616
CGC48F315H	5,000	15,800	F	1.5	23	20	GC	12 - 40"	168	1½ x 1½ FNPT	99-1616
CGC60F315H	5,000	15,800	F	1.5	23	20	GC	12 - 50"	210	1½ x 1½ FNPT	99-1616

CGC24F420H	5,500	17,300	F	2.0	29	25	GC	12 - 20"	84	1½ x 1½ FNPT	99-1616
CGC36F420H	5,500	17,300	F	2.0	29	25	GC	12 - 30"	126	1½ x 1½ FNPT	99-1616
CGC48F420H	5,500	17,300	F	2.0	29	25	GC	12 - 40"	168	1½ x 1½ FNPT	99-1616
CGC60F420H	5,500	17,300	F	2.0	29	25	GC	12 - 50"	210	1½ x 1½ FNPT	99-1616

CGC24F530H	6,000	18,900	F	3.0	35	30	GC	12 - 20"	84	1½ x 1½ FNPT	99-1616
CGC36F530H	6,000	18,900	F	3.0	35	30	GC	12 - 30"	126	1½ x 1½ FNPT	99-1616
CGC48F530H	6,000	18,900	F	3.0	35	30	GC	12 - 40"	168	1½ x 1½ FNPT	99-1616
CGC60F530H	6,000	18,900	F	3.0	35	30	GC	12 - 50"	210	1½ x 1½ FNPT	99-1616
CGC96F530H	6,000	18,900	F	3.0	35	30	(2)GC	24 - 40"	336	1½ x 1½ FNPT	99-1616
CGC120F530H	6,000	18,900	F	3.0	35	30	(2)GC	24 - 50"	420	1½ x 1½ FNPT	99-1616

CGC48F850H	8,500	26,800	F 2X2	5.0	45	33	GC	12 - 40"	168	2 x 2 FNPT	99-1620
CGC60F850H	8,500	26,800	F 2X2	5.0	45	33	GC	12 - 50"	210	2 x 2 FNPT	99-1620
CGC96F850H	8,500	26,800	F 2X2	5.0	45	33	(2)GC	24 - 40"	336	2 x 2 FNPT	99-1620
CGC120F850H	8,500	26,800	F 2X2	5.0	45	33	(2)GC	24 - 50"	420	2 x 2 FNPT	99-1620

CGC48F975H	10,000	31,500	F 2X2	7.5	55	42	GC	12 - 40"	168	2 x 2 FNPT	99-1620
CGC60F975H	10,000	31,500	F 2X2	7.5	55	42	GC	12 - 50"	210	2 x 2 FNPT	99-1620
CGC96F975H	10,000	31,500	F 2X2	7.5	55	42	(2)GC	24 - 40"	336	2 x 2 FNPT	99-1620
CGC120F975H	10,000	31,500	F 2X2	7.5	55	42	(2)GC	24 - 50"	420	2 x 2 FNPT	99-1620

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 Less than 1.0 HP — single phase standard.

1.0 HP and above — three phase standard.

See pages 6 & 7 for voltage and amp draw.

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

System	Overall Dimensions (in.) (L x W x H)	Ship. Weight (lbs.)	Model Number	Price PVC Chamber	Price CPVC Chamber
CGC24M208	50 x 24 x 32	185	CH240SC 1¼C MPVCR2B-C.75 G3A-V1-DV7	\$ 3,428	\$ 3,767
CGC36M208	50 x 24 x 42	195	CH360SC 1¼C MPVCR2B-C.75 G3A-V1-DV7	3,642	3,902
CGC24M310H	50 x 24 x 32	195	CH240SC 1¼C MPVCR3C-D1.0 G3A-V1-DV7	3,525	3,864
CGC36M310H	50 x 24 x 42	205	CH360SC 1¼C MPVCR3C-D1.0 G3A-V1-DV7	3,739	4,077
CGC48M310H	50 x 24 x 52	215	CH480SC 1¼C MPVCR3C-D1.0 G3A-V1-DV7	3,953	4,290
CGC60M310H	50 x 24 x 62	225	CH600SC 1¼C MPVCR3C-D1.0 G3A-V1-DV7	4,166	4,504
CGC24F315H	50 x 24 x 32	205	CH240SC 1½C MPVGC3-D1.5 G3A-V1-DV7	3,943	4,282
CGC36F315H	50 x 24 x 42	215	CH360SC 1½C MPVGC3-D1.5 G3A-V1-DV7	4,158	4,495
CGC48F315H	50 x 24 x 52	225	CH480SC 1½C MPVGC3-D1.5 G3A-V1-DV7	4,371	4,708
CGC60F315H	50 x 24 x 62	235	CH600SC 1½C MPVGC3-D1.5 G3A-V1-DV7	4,584	4,923
CGC24F420H	50 x 24 x 32	215	CH240SC 1½C MPVGC4-D2.0 G3A-V1-DV7	3,971	4,310
CGC36F420H	50 x 24 x 42	225	CH360SC 1½C MPVGC4-D2.0 G3A-V1-DV7	4,185	4,523
CGC48F420H	50 x 24 x 52	235	CH480SC 1½C MPVGC4-D2.0 G3A-V1-DV7	4,398	4,736
CGC60F420H	50 x 24 x 62	245	CH600SC 1½C MPVGC4-D2.0 G3A-V1-DV7	4,611	4,950
CGC24F530H	50 x 24 x 32	225	CH240SC 1½C MPVGC5-D3.0 G3A-V1-DV7	4,012	4,350
CGC36F530H	50 x 24 x 42	235	CH360SC 1½C MPVGC5-D3.0 G3A-V1-DV7	4,226	4,563
CGC48F530H	50 x 24 x 52	245	CH480SC 1½C MPVGC5-D3.0 G3A-V1-DV7	4,439	4,756
CGC60F530H	50 x 24 x 62	255	CH600SC 1½C MPVGC5-D3.0 G3A-V1-DV7	4,652	4,991
CGC96F530H	66 x 24 x 52	380	CH480SCX2 2C MPVGC5-D3.0 G3A-V1-DV7	6,884	7,559
CGC120F530H	66 x 24 x 62	410	CH600SCX2 2C MPVGC5-D3.0 G3A-V1-DV7	7,310	7,988
CGC48F850H	50 x 24 x 52	265	CH480SC 2C MPVGC8-D5.0 G3A-V1-DV7	5,678	6,016
CGC60F850H	50 x 24 x 62	275	CH600SC 2C MPVGC8-D5.0 G3A-V1-DV7	5,892	6,230
CGC96F850H	66 x 24 x 52	400	CH480SCX2 2C MPVGC8-D5.0 G3A-V1-DV7	8,123	8,799
CGC120F850H	66 x 24 x 62	430	CH600SCX2 2C MPVGC8-D5.0 G3A-V1-DV7	8,251	8,926
CGC48F975H	50 x 24 x 52	280	CH480SC 2C MPVGC9-D7.5 G3A-V1-DV7	5,806	6,143
CGC60F975H	50 x 24 x 62	290	CH600SC 2C MPVGC9-D7.5 G3A-V1-DV7	6,019	6,358
CGC96F975H	66 x 24 x 52	420	CH480SCX2 2C MPVGC9-D7.5 G3A-V1-DV7	8,550	9,227
CGC120F975H	66 x 24 x 62	450	CH600SCX2 2C MPVGC9-D7.5 G3A-V1-DV7	8,677	9,354

Systems with CPVC single or double seal² direct drive pump and CPVC or PVC¹ filter chamber

System Number	Flow Rate		Pump Series	Pump HP ³	Pump Max. PSI	Cartridge Change PSI	Filter Series	Media	Solids Area (sq. ft.)	Suct. / Disch Conns. (inches)	Hose Kit Price Code No.
	GPH										
CGC24HE115H	5,000	15,800	HE	1.5	24	19	GC	12 - 20"	84	2 x 2 FNPT	99-1620
CGC36HE115H	5,000	15,800	HE	1.5	24	19	GC	12 - 30"	126	2 x 2 FNPT	99-1620
CGC48HE115H	5,000	15,800	HE	1.5	24	19	GC	12 - 40"	168	2 x 2 FNPT	99-1620
CGC60HE115H	5,000	15,800	HE	1.5	24	19	GC	12 - 50"	210	2 x 2 FNPT	99-1620

CGC24HE220H	5,500	17,300	HE	2.0	29	26	GC	12 - 20"	84	2 x 2 FNPT	99-1620
CGC36HE220H	5,500	17,300	HE	2.0	29	26	GC	12 - 30"	126	2 x 2 FNPT	99-1620
CGC48HE220H	5,500	17,300	HE	2.0	29	26	GC	12 - 40"	168	2 x 2 FNPT	99-1620
CGC60HE220H	5,500	17,300	HE	2.0	29	26	GC	12 - 50"	210	2 x 2 FNPT	99-1620

CGC24HE330H	6,500	20,500	HE	3.0	36	32	GC	12 - 20"	84	2 x 2 FNPT	99-1620
CGC36HE330H	6,500	20,500	HE	3.0	36	32	GC	12 - 30"	126	2 x 2 FNPT	99-1620
CGC48HE330H	6,500	20,500	HE	3.0	36	32	GC	12 - 40"	168	2 x 2 FNPT	99-1620
CGC60HE330H	6,500	20,500	HE	3.0	36	32	GC	12 - 50"	210	2 x 2 FNPT	99-1620
CGC96HE330H	6,500	20,500	HE	3.0	36	32	(2)GC	24 - 40"	336	2 x 2 FNPT	99-1620
CGC120HE330H	6,500	20,500	HE	3.0	36	32	(2)GC	24 - 50"	420	2 x 2 FNPT	99-1620

CGC48HE450H	8,500	26,800	HE	5.0	50	45	GC	12 - 40"	168	2 x 2 FNPT	99-1620
CGC60HE450H	8,500	26,800	HE	5.0	50	45	GC	12 - 50"	210	2 x 2 FNPT	99-1620
CGC96HE450H	8,500	26,800	HE	5.0	50	45	(2)GC	24 - 40"	336	2 x 2 FNPT	99-1620
CGC120HE450H	8,500	26,800	HE	5.0	50	45	(2)GC	24 - 50"	420	2 x 2 FNPT	99-1620

CGC48HE575H	10,000	31,500	HE	7.5	60	45	GC	12 - 40"	168	2 x 2 FNPT	99-1620
CGC60HE575H	10,000	31,500	HE	7.5	60	45	GC	12 - 50"	210	2 x 2 FNPT	99-1620
CGC96HE575H	10,000	31,500	HE	7.5	60	45	(2)GC	24 - 40"	336	2 x 2 FNPT	99-1620
CGC120HE575H	10,000	31,500	HE	7.5	60	45	(2)GC	24 - 50"	420	2 x 2 FNPT	99-1620

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 No.

³ Three phase standard.

See pages 6 & 7 for voltage and amp draw.

Systems with CPVC single or double seal² direct drive pump and CPVC or PVC¹ filter chamber

System Number	Overall Dimensions (in.) (L x W x H)	Ship. Weight (lbs.)	Model Number	Price PVC Chamber	Price CPVC Chamber
CGC24HE115H	50 x 24 x 32	205	CH240SC 1½C H2X1½CE1V(M8)-D1.5 G3A-V1-DV7	\$ 3,800	\$ 4,138
CGC36HE115H	50 x 24 x 42	215	CH360SC 1½C H2X1½CE1V(M8)-D1.5 G3A-V1-DV7	4,014	4,351
CGC48HE115H	50 x 24 x 52	225	CH480SC 1½C H2X1½CE1V(M8)-D1.5 G3A-V1-DV7	4,227	4,565
CGC60HE115H	50 x 24 x 62	235	CH600SC 1½C H2X1½CE1V(M8)-D1.5 G3A-V1-DV7	4,440	4,779

CGC24HE220H	50 x 24 x 32	215	CH240SC 1½C H2X1½CE2V(M8)-D2.0 G3A-V1-DV7	3,887	4,226
CGC36HE220H	50 x 24 x 42	225	CH360SC 1½C H2X1½CE2V(M8)-D2.0 G3A-V1-DV7	4,101	4,439
CGC48HE220H	50 x 24 x 52	235	CH480SC 1½C H2X1½CE2V(M8)-D2.0 G3A-V1-DV7	4,315	4,652
CGC60HE220H	50 x 24 x 62	245	CH600SC 1½C H2X1½CE2V(M8)-D2.0 G3A-V1-DV7	4,528	4,866

CGC24HE330H	50 x 24 x 32	225	CH240SC 1½C H2X1½CE3V(M8)-D3.0 G3A-V1-DV7	4,139	4,478
CGC36HE330H	50 x 24 x 42	235	CH360SC 1½C H2X1½CE3V(M8)-D3.0 G3A-V1-DV7	4,353	4,691
CGC48HE330H	50 x 24 x 52	245	CH480SC 1½C H2X1½CE3V(M8)-D3.0 G3A-V1-DV7	4,567	4,904
CGC60HE330H	50 x 24 x 62	255	CH600SC 1½C H2X1½CE3V(M8)-D3.0 G3A-V1-DV7	4,780	5,118
CGC96HE330H	66 x 24 x 52	380	CH480SCX2 2C H2X1½CE3V(M8)-D3.0 G3A-V1-DV7	7,011	7,687
CGC120HE330H	66 x 24 x 62	410	CH600SCX2 2C H2X1½CE3V(M8)-D3.0 G3A-V1-DV7	7,438	8,115

CGC48HE450H	50 x 24 x 52	265	CH480SC 2C H2X1½CE4V(M8)-D5.0 G3A-V1-DV7	4,853	5,191
CGC60HE450H	50 x 24 x 62	275	CH600SC 2C H2X1½CE4V(M8)-D5.0 G3A-V1-DV7	5,066	5,405
CGC96HE450H	66 x 24 x 52	400	CH480SCX2 2C H2X1½CE4V(M8)-D5.0 G3A-V1-DV7	7,298	7,973
CGC120HE450H	66 x 24 x 62	430	CH600SCX2 2C H2X1½CE4V(M8)-D5.0 G3A-V1-DV7	7,724	8,402

CGC48HE575H	50 x 24 x 52	280	CH480SC 2C H2X1½CE5V(M8)-D7.5 G3A-V1-DV7	4,975	5,312
CGC60HE575H	50 x 24 x 62	290	CH600SC 2C H2X1½CE5V(M8)-D7.5 G3A-V1-DV7	5,188	5,526
CGC96HE575H	66 x 24 x 52	420	CH480SCX2 2C H2X1½CE5V(M8)-D7.5 G3A-V1-DV7	7,419	8,095
CGC120HE575H	66 x 24 x 62	450	CH600SCX2 2C H2X1½CE5V(M8)-D7.5 G3A-V1-DV7	7,846	8,523

Systems with Noryl® single seal self-priming pump and CPVC or PVC¹ filter chamber

System Number	Flow Rate		Pump Series	Pump HP ²	Pump Max. PSI	Cartridge Change PSI	Filter Series	Media	Solids Area (sq. ft.)	Suct. / Disch Conns. (inches)	Hose Kit Price Code No.
	GPH	LPH									
CGC24GC10H	3500	11,000	G	1.0	26	22	GC	12 - 20"	84	2 M x 1½ FNPT	99-1622
CGC36GC10H	3500	11,000	G	1.0	26	22	GC	12 - 30"	126	2 M x 1½ FNPT	99-1622
CGC48GC10H	3500	11,000	G	1.0	26	22	GC	12 - 40"	168	2 M x 1½ FNPT	99-1622
CGC60GC10H	3500	11,000	G	1.0	26	22	GC	12 - 50"	210	2 M x 1½ FNPT	99-1622

CGC24GD15H	4500	14,200	G	1.5	30	26	GC	12 - 20"	84	2 M x 1½ FNPT	99-1622
CGC36GD15H	4500	14,200	G	1.5	30	26	GC	12 - 30"	126	2 M x 1½ FNPT	99-1622
CGC48GD15H	4500	14,200	G	1.5	30	26	GC	12 - 40"	168	2 M x 1½ FNPT	99-1622
CGC60GD15H	4500	14,200	G	1.5	30	26	GC	12 - 50"	210	2 M x 1½ FNPT	99-1622

CGC24GE20H	5500	17,300	G	2.0	32	28	GC	12 - 20"	84	2 M x 1½ FNPT	99-1622
CGC36GE20H	5500	17,300	G	2.0	32	28	GC	12 - 30"	126	2 M x 1½ FNPT	99-1622
CGC48GE20H	5500	17,300	G	2.0	32	28	GC	12 - 40"	168	2 M x 1½ FNPT	99-1622
CGC60GE20H	5500	17,300	G	2.0	32	28	GC	12 - 50"	210	2 M x 1½ FNPT	99-1622

- 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 Three phase standard.
See below for voltage and page 7 for amp draw.

VOLTAGE

PUMP SERIES	SINGLE PHASE	THREE PHASE
M	115/208-230V/1/60 or 190/200-220V/1/50	208-230/460V/3/60 or 190/380-415V/3/50
F	115/208-230V/1/60 or 220/440V/1/50	208-230/460V/3/60 or 380-415V/3/50
F2x2	—	208-230/460V/3/60 or 380-415V/3/50
HE	—	208-230/460V/3/60 or 190/380-415V/3/50
G	115/208-230V/1/60 or 190/200-220V/1/50	230/460V/3/50-60

Systems with Noryl single seal self-priming pump and CPVC or PVC filter chamber

System Number	Overall Dimensions (in.) (L x W x H)	Ship. Weight (lbs.)	Model Number	Price PVC Chamber	Price CPVC Chamber
CGC24GC10H	50 x 24 x 32	195	CH240SC 1½C GNOKCVN-D1.0 G3A-V1-DV7	\$ 3,545	\$ 3,883
CGC36GC10H	50 x 24 x 42	205	CH360SC 1½C GNOKCVN-D1.0 G3A-V1-DV7	3,759	4,188
CGC48GC10H	50 x 24 x 52	215	CH480SC 1½C GNOKCVN-D1.0 G3A-V1-DV7	3,972	4,310
CGC60GC10H	50 x 24 x 62	225	CH600SC 1½C GNOKCVN-D1.0 G3A-V1-DV7	4,185	4,524

CGC24GD15H	50 x 24 x 32	200	CV240SC 1½C GNOKDVN-D1.5 G3A-V1-DV7	3,561	3,899
CGC36GD15H	50 x 24 x 42	210	CV360SC 1½C GNOKDVN-D1.5 G3A-V1-DV7	3,775	4,113
CGC48GD15H	50 x 24 x 52	220	CV480SC 1½C GNOKDVN-D1.5 G3A-V1-DV7	3,988	4,326
CGC60GD15H	50 x 24 x 62	230	CV600SC 1½C GNOKDVN-D1.5 G3A-V1-DV7	4,201	4,540

CGC24GE20H	50 x 24 x 32	205	CV240SC 1½C GNOKEVN-D2.0 G3A-V1-DV7	3,606	3,944
CGC36GE20H	50 x 24 x 42	215	CV360SC 1½C GNOKEVN-D2.0 G3A-V1-DV7	3,820	4,158
CGC48GE20H	50 x 24 x 52	225	CV480SC 1½C GNOKEVN-D2.0 G3A-V1-DV7	4,033	4,371
CGC60GE20H	50 x 24 x 62	235	CV600SC 1½C GNOKEVN-D2.0 G3A-V1-DV7	4,246	4,585

TYPICAL FULL LOAD CURRENT (AMPS)

HP	SINGLE PHASE			THREE PHASE		
	115V	208V	230V	208V	230V	460V
3/4	13.8	9.2	10	3.2	3.6	2.6
1.0	16	11.5	12	4.2	5.2	3.4
1.5	20	13.8	—	6	6.8	4.8
2.0	24	—	—	7.8	9.6	7.6
3.0	—	—	—	11	15.2	11
5.0	—	—	—	17.5	22	—
7.5	—	6.9	—	25	1.4	—
	7.9	8	—	2.8	1.8	—

OPTIONAL

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
CPVC chamber for use with Maxi-Carb cartridge.	Single 5" x 28" cartridge, 3.0 lbs carbon	O-1528M

Order carbon media from Bulletin M-305.

SLURRY TANK and VALVES			
SV4	SURFACE AREA (sq. ft.)	SLURRY CAPACITY (gal.)	PRICE 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, 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) 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
	PRICE CODE NO.
	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

PORTABLE	
Two fixed wheels, two swivel casters, pull handle	O-2042
OPERATING VOLTAGE	
1 horsepower and 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
EPDM ELASTOMERS	
'GC' chamber (12 column)	O-GL