



# GUARDIAN<sup>®</sup> 2000 FILTRATION SYSTEMS

## *Recirculatory filtration for electroplating or chemical processing*



### FEATURE

- Standard slurry tank with valves
- Quiet, efficient centrifugal pumps — single seal, double seal or magnetic-coupled
- Totally non-metallic solution contact to 190°F
- High flow rates — 3300 - 8500 GPH  
High surface area — 168 ft.<sup>2</sup>
- Standard DRI-STOP<sup>®</sup> pump protector and watertight motor starter
- SERFILCO — Worldwide leader in dependability, service and design for over 35 years

### BENEFIT

- Prime pump, mix and add chemicals, rinse or pre-coat filters
- Handles nearly all electroplating chemical applications
- Corrosion-free, low maintenance operation
- Improve process quality; reduce scrap, tank maintenance and downtime
- Simple start-up and operation — low system maintenance
- Technical service, application advice and factory support you can depend on

### SPECIFICATIONS

#### SYSTEM:

GUARDIAN 2000 filtration systems consist of a non-metallic pump, cartridge filter chamber, slurry tank with valves, and FRP base. The pump and filter chamber are mounted on a 24" x 50" corrosion resistant fiberglass base. Each system includes an 18 gallon polyethylene slurry tank with four valves. The slurry tank can be used as a pump priming chamber, for chemical mixing and addition, or for cartridge pre-coating or

rinsing. GUARDIAN 2000 filtration systems also include a motor starter mounted in a waterproof enclosure which provides STOP/START operation and overload protection for the pump motor. The award winning DRI-STOP pump protector is included with all units. All solution contact is totally non-metallic. All external hardware is stainless steel or non-metallic. Systems are provided with union connections.

**60 Hz**

**SPECIFICATIONS cont'd.**

**PUMP:**

Industry proven Series 'M', Series 'F' or Series 'HE'. The Series 'M' magnetic coupled pump, constructed of glass reinforced polypropylene with Viton® 'O'-rings, will provide flow rates from 3,300 to 3,900 GPH. The Series 'F' magnetic-coupled pump is also constructed of glass-filled polypropylene with a Viton 'O'-ring and will provide flow rates from 4,700 to 5,600 GPH. The Series 'HE' pump, which is constructed of CPVC with Viton 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 4,200 to 8,500 GPH.

All systems include pump, NEMA 4X motor starter, and a DRI-STOP pump protector. All pump motors are chemical service, continuous duty, TEFC, painted with two-part epoxy paint and stainless steel tag. ¾ 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 CHAMBER:**

Industry proven Series 'G' filter chamber is constructed of CPVC. Elastomers are EPDM. The chambers are designed to hold 12-40" double open end filter cartridges or 48-10" double open end filter cartridges to provide 168 sq. ft. of filter area. The Series 'G' filter chamber features cover swing bolts with tee handles for easy cartridge changing; no tools are required. The chamber comes equipped with a 0-60 PSI pressure gauge and guard assembly. The filter chamber also features a vent valve and vinyl hose for safely purging air from the filter vessel. Chambers also include two plugged drains, one for filtered and the other for unfiltered effluent. All internal solution contact is non-metallic and all external hardware is stainless steel or non-metallic.

**TO ORDER, use System Number**

**SYSTEMS WITH MAGNETIC-COUPLED PUMP**

SYSTEM NUMBER	MEDIA **	FLOW GPH @ 60 Hz	HP	SUCTION x DISCHARGE CONNS. (Union)	DIMENSIONS L x W x H Inches	APPROX. SHIP. WT. Lbs.
CG48M208-2	12 - 40"	3500	.75	1½ x 1½	50 x 24 x 54	245
CG48M310-2	12 - 40"	3900	1.0	1½ x 1½	50 x 24 x 54	255
CG48F315-2	12 - 40"	4700	1.5	1½ x 1½	50 x 24 x 54	255
CG48F420-2	12 - 40"	5300	2.0	1½ x 1½	50 x 24 x 54	265
CG48F530-2	12 - 40"	5600	3.0	1½ x 1½	50 x 24 x 54	275

**SYSTEMS WITH SINGLE OR DOUBLE MECHANICAL SEAL PUMP \***

SYSTEM NUMBER	MEDIA **	FLOW GPH @ 60 Hz	HP	SUCTION x DISCHARGE CONNS. (Union)	DIMENSIONS L x W x H Inches	APPROX. SHIP. WT. Lbs.
CG48HE115-2	12 - 40"	4200	1.5	1½ x 1½	50 x 24 x 54	255
CG48HE220-2	12 - 40"	5400	2.0	1½ x 1½	50 x 24 x 54	265
CG48HE330-2	12 - 40"	6600	3.0	1½ x 1½	50 x 24 x 54	275
CG48HE450-2	12 - 40"	8500	5.0	1½ x 1½	50 x 24 x 54	295

**OPTIONS**

*Use Price Code Number to order*

CARBON PURIFICATION CHAMBERS	PRICE CODE NO.		
	CAP.	CAN.	
For continuous or batch carbon treatment. Choose carbon capacity of 7.5 to 42 lbs. Carbon chamber option includes a larger FRP system base (24" x 66"), piping and flow control valve. Chamber is CPVC with swing bolt cover closure. Internal canisters are PVC, elastomers are EPDM. For use with granular carbon.	7.5 lbs.	single 5" x 28"	O-1528
	22.5 lbs.	triple 5" x 28"	O-3528
	42 lbs.	triple 5" x 48"	O-3548
Granular carbon – 8 x 30 mesh, 99.5% sulfur-free	<b>QTY.</b>	50 lbs. 10 lbs.	99-0995 99-0992

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

\* To order double mechanical water flush seal, change **HE** to **HED** in System Number.  
 \*\* To order 12 - 30" cartridge system, change **48** to **36** in System Number (same price).