



SERFILCO®

Global Products, Local Service & Advice You Can Rely On

Space-Saver JM & FM Filter Systems



Compact, Economical Filtration & Purification

SERFILCO® Filtration Systems are compact, corrosion resistant and extremely simple to operate. A choice of construction materials allows their use with most liquids, including strong chemicals at elevated temperatures



SERFILCO® products have gained global approval for recirculation purification of most electroplating and chemical process solutions. They have proven to be a reliable workhorse for over half a century.



With numerous systems in service around the globe, you can be confident a SERFILCO® Filtration System will improve the clarity of your process solutions, increase production quality, and reduce process cost.



Next Generation SERFILCO® Filtration Systems offer Flexibility and Performance

Designed with very simple internals that will enable the user to change quickly from cartridge to disk to bag, dependent on the application the new JM and FM systems offer cost effective filtration while maintaining the highest possible standards of performance and longevity.



These systems are manufactured with no plastic welds as these have been identified as the primary cause of chamber failure on plastic systems. This new design will have dynamic sealing faces using O-rings which are ideal in static and dynamic sealing applications where materials expand and contract - this allows us to be sure that whether being used at 70°F or 160°F these systems will not leak.

These systems are also great for maintenance as they can be easily disassembled for cleaning and O-rings can be replaced in the way welded joints cannot. We truly believe that this system will offer a balance between performance, life and cost that will meet all your filtration requirements for global projects.



Features & Benefits

- Fully machined PP systems – no molded parts
- Dynamic O-ring sealing – no welded joints
- Easy maintenance
- Large connections reduce losses, deliver high system flow & extended filter life
- Reduced losses = Smaller motors
- Systems available w/ cartridge, plate & paper or bag media
- Bypass carbon, slurry or oil removal available
- 6 round with flows to 5300 GHP
- 15 round with flows to 10,000 GHP
- All Mag-Drive Pumps, no flush needed
- Temperatures to 160°F
- Pressure gauge and vent as standard fit.

Space-saver JM Range



Benefits

- **Seal-less magnetic drive pumps** systems feature highly efficient seal-less magnetic coupled pumps for total solution containment and reliable performance.

- **Filter chamber**

Constructed of PP to ensure chemical and temperature compatibility in a wide range of applications. The standard chamber accepts double open end (DOE) cartridges, filter papers or filter bags depending on the application.

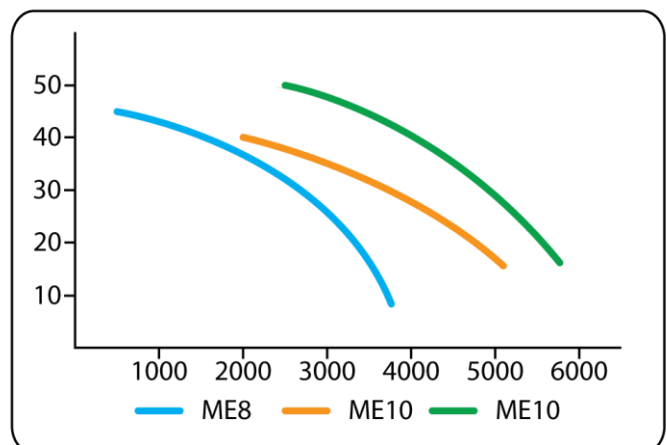
- **Simple carbon or resin treatment**

These systems are also available with optional purification chambers with reusable canister for a low-cost, but effective method of continuously or periodically removing organic impurities from plating baths and other chemical solutions.

The JM Series is engineered to provide reliable, high performance filtration in a small package. These compact pump and filter systems are popular for use on small to medium size tank production in GMF, the electronics industry and in precious metal plating.

Featuring the non-metallic, leak-proof magnetic coupled pumps and machined JM filter chambers, these systems provide high flow and high turnover rates, assuring continuous particle removal. Systems are available with an optional bypass carbon or resin purification chamber.

Flow (GPH)			
Motor	6 x Cartridge	8" Disc	7" Bag
0.75hp	2800	2200	2800
1.0hp	4000	3200	4000
1.5hp	5400	4000	5400



Super Space-Saver FM Range



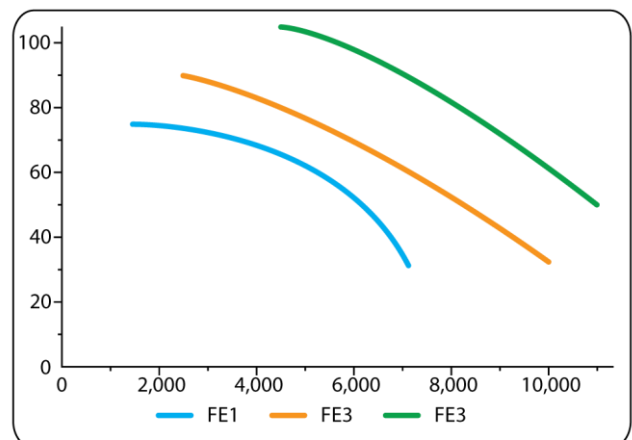
Features

- Flow rates to 10,000 GPH
- Non-metallic solution contact
- PP Material
- SS external fasteners
- Swing bolt chamber closures
- EPDM elastomers standard, FKM optional
- Corrosion resistant 4-pillar base
- Choice of cartridge, plate and paper or bag filter media
- Hard piping and wet testing prior to shipping

FM Filtration Systems have been designed for low cost, low maintenance re-circulatory purification of most electroplating and chemical process solutions. The FM Series is engineered using machined parts and maintainable O-ring seals to provide reliable, high performance filtration in a small package.

These compact pump and filter systems are popular for use on medium to large sized production tanks in the electronics and metal finishing industries, providing high flow and high turnover rates, assuring continuous particle removal. FM systems are available with or without a carbon or resin purification chamber.

Flow (GPH)			
Motor	15 x Cartridge	12" Disc	7" Bag
2.0hp	6600	5300	5300
5.0hp	8000	6600	6600
7.5hp	10,000	8000	8000



Bypass Carbon Systems for the Treatment Of Plating Solutions



Bypass Carbon

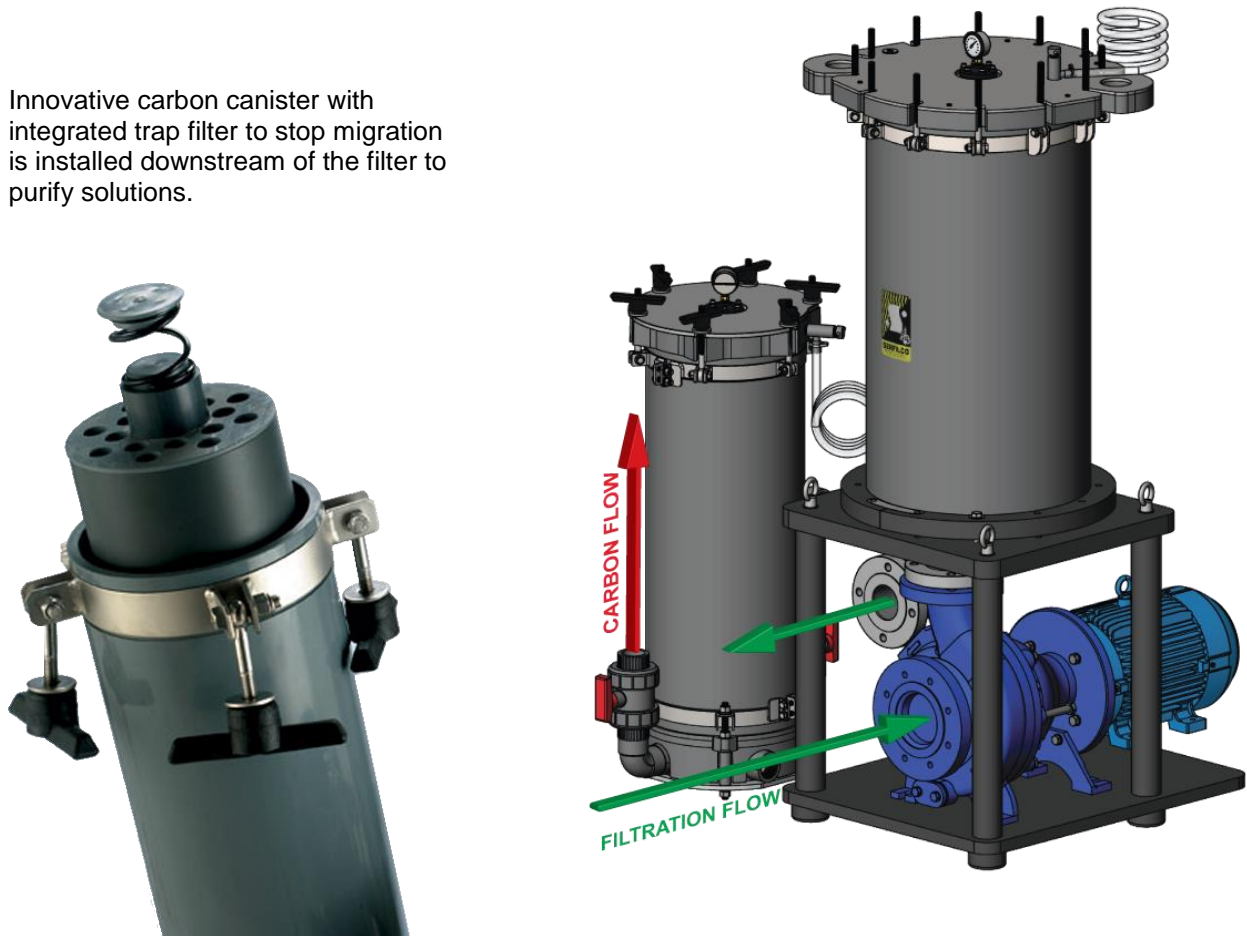
SERFILCO pioneered the use of activated granular carbon canisters in a chamber positioned downstream of the primary filter system to purify filtered solution. Because adsorption of organics through the carbon is most effective at low flow rates in order to maximize efficiency we suggest that a 'bypass' is fitted between the primary filter and downstream carbon chamber. This permits a controlled volume of clean solution to be diverted through the column of the carbon as required, or as many customers do, on a continuous low flow. This type of system gives two different ways of carbon treating

For continuous carbon treatment. Simply open the bypass valve between chambers a small amount and allow a percentage of the pump flow to continuously pass through the carbon chamber and back to process tank (the remainder of the flow will continue to pass through the filter chamber and back to process tank).

For batch carbon treatment the valve between the filter chamber and carbon chamber is closed during normal operation, when organic contamination reaches increased levels the bypass valve is fully opened and 100% of the flow passes through the carbon until the organics are removed

This innovative SERFILCO design eliminates down-time, labor intensive powdered carbon treatments, inefficient carbon discs and cartridges and lost chemistry due to constant manual change outs and carbon treatment.

Innovative carbon canister with integrated trap filter to stop migration is installed downstream of the filter to purify solutions.



FILTRATION RANGE

Visit www.serfilco.com to see our full range of products

LABMASTER – 150 to 600 GPH, 1 x cartridge, mag-drive pump, PP/CPVC/PVDF

SPACE-SAVER – 600 to 2,400 GPH, 3 x cartridge or filter bag, mag-drive pump, optional by-pass carbon PP/CPVC/PVDF

SUPER SPACE-SAVER – 2,400 to 10,000 GPH, 6 or 15 cartridge , filter bag or disk filter, mag-drive or mechanical seal pump PP/CPVC/PVDF

MEGAFLO – 8,000 to 18,000 GPH, 22 or 26 cartridge, mag-drive or mechanical seal pump, optional by-pass carbon PP/CPVC/PVC

GUARDIAN – 12,000 GPH, cartridge, bag or disk filtration, mag-drive or mechanical seal pump, optional slurry tank and by-pass carbon PP/CPVC/PVDF/Steel

OPTIFLO – 36,000 GPH, cartridge or disk filtration, mag-drive or mechanical seal pump, optional slurry and bypass carbon

ADMIRAL – 6,800 GPH, in-tank or out-of –tank cartridge filtration, vertical seal-less pump, optional bypass carbon

TITAN – 2,400 to 12,000 GPH, fully automatic operation, quartz or anthracite permanent media, horizontal sealed pump,