

SERFILCO®

SENTRY DELUXE® DISC FILTRATION SYSTEMS

BULLETIN
F-403A
JAN. 1999

Model shown includes optional carbon purification chamber.



DR78 chamber with cover removed. Chamber is filled with 26-24" filter discs (78 sq. ft. solids area).

FOR THE FINEST IN PLATING SOLUTION FILTRATION

- **Rugged design** incorporates sturdy rubber lined steel filter chamber for long service life
- **High flow rates** with choice of magnetic coupled polypropylene pumps or CPVC (Corzan™) mechanical seal pumps that provide flow rates from 7,200 to 19,000 GPH
(See *Chemical Resistance Chart*)
- **High solids loading area** of 60, 78 or 105 square feet available, with strong polypropylene support plates to prevent warping and solution bypass
- **Choice of disc filter media density:** 5, 10, 20, 40 micron to suit your application

Sentry Deluxe Disc Filtration Systems are engineered to provide efficient removal of particles or organic impurities from plating solutions to 160°F. Chambers and pumps feature non-metallic solution contact. All external steel surfaces are painted two-part epoxy gray enamel. Rugged support plates are polypropylene and will not warp. All other internals are CPVC.

Sentry Deluxe systems include such standard features as motor starter (with overload protector), Dri-Stop pump protector, davit cover lift, slurry tank and many other items which are often extra cost add-ons in competitive systems. An optional carbon purification chamber for organic removal is available.

For information on standard Sentry Disc Filtration Systems, see Bulletin F-402.

SENTRY Deluxe Disc Systems include:

- Motor starter (NEMA 4X watertight pushbutton)
- Dri-Stop pump protector
- Davit cover lift (Models DR78 & DR105 only)
- Stationary steel mounting base coated with corrosion resistant 2-part epoxy paint.
- Motors are 230-460V/3/50-60, TEFC, 1725 or 3450 RPM. Systems wired for 230V/3/60 unless otherwise specified.
- Piping is solvent sealed CPVC, with EPDM "O"-rings at threaded connections.
- 0-60 PSI gauge with Hypalon® diaphragm guard.
- Two flow control valves — one between pump and filter, second at filter discharge.
- 30 or 60 gallon polyethylene slurry tank with 3 additional valves mounted on steel frame. Comes completely piped and assembled with filter and pump on standard base. For chemical mixing, pump priming or precoating with filter aid and/or carbon.
- Ball valves are solvent sealed CPVC, with Viton® "O"-rings at filter inlet and outlet.
- Capped tee on filter outlet for field installation of bulk carbon.
- CPVC vent valve assembly.
- Initial set of 10 micron disc filter media installed.
- 1" drain valve on filter.

SENTRY DELUXE DISC FILTRATION SYSTEMS

TO ORDER, Use System Number

RUBBER LINED CHAMBER with SEAL-LESS MAGNETIC DRIVE POLYPROPYLENE PUMP

Pump includes fluoride-resistant ceramic spindle with Viton® elastomers.

| SYSTEM NUMBER | FLOW RATE GPH @ 60Hz | MAX. PUMP PSI | NO. OF DISCS | SOLIDS AREA Sq. ft. | PUMP, H.P., CHAMBER | SUCT./ DISCH. CONN. | SLURRY TANK CAP (GAL) | DIMENSIONS L x W x H Inches | SHIP. WEIGHT Lbs. |
|---------------|-------------------------|------------------|-----------------|---------------------------|---------------------------|---------------------------|-----------------------------|-----------------------------------|-------------------------|
| DR60F630-DLX | 7200 | 30 | 20 | 60 | F, 3, DR | 2" | 30 | 66 x 48 x 64 | 1300 |
| DR78F630-DLX | 7200 | 30 | 26 | 78 | | | | 66 x 48 x 72 | 1400 |
| DR78F850-DLX | 9600 | 45 | 26 | 78 | F, 5, DR | | 60 | 66 x 48 x 72 | 1425 |
| DR105F850-DLX | 9600 | 45 | 35 | 105 | | | | 66 x 48 x 87 | 1625 |
| DR78F975-DLX | 12000 | 55 | 26 | 78 | F, 7.5, DR | 3" | 60 | 66 x 48 x 72 | 1465 |
| DR105F975-DLX | 12000 | 55 | 35 | 105 | | | | 66 x 48 x 87 | 1665 |

RUBBER LINED CHAMBER with DIRECT DRIVE CPVC PUMP

Pump includes carbon-ceramic mechanical seal with Viton elastomers.

| SYSTEM NUMBER | FLOW RATE GPH @ 60Hz | MAX. PUMP PSI | NO. OF DISCS | SOLIDS AREA Sq. ft. | PUMP, H.P., CHAMBER | SUCT./ DISCH. CONN. | SLURRY TANK CAP (GAL) | DIMENSIONS L x W x H Inches | SHIP. WEIGHT Lbs. |
|----------------|-------------------------|------------------|-----------------|---------------------------|---------------------------|---------------------------|-----------------------------|-----------------------------------|-------------------------|
| DR60HE330-DLX | 7500 | 36 | 20 | 60 | HE, 3, DR | 2" | 30 | 66 x 48 x 64 | 1300 |
| DR78HE330-DLX | 7500 | 36 | 26 | 78 | | | | 66 x 48 x 72 | 1400 |
| DR78HE450-DLX | 8500 | 50 | 26 | 78 | HE, 5, DR | | 60 | 66 x 48 x 72 | 1425 |
| DR105HE450-DLX | 8500 | 50 | 35 | 105 | | | | 66 x 48 x 87 | 1625 |
| DR78HE575-DLX | 9600 | 60 | 26 | 78 | HE, 7.5, DR | 60 | 60 | 66 x 48 x 72 | 1465 |
| DR105HE575-DLX | 9600 | 60 | 35 | 105 | | | | 66 x 48 x 87 | 1665 |
| DR78H875-DLX | 15000 | 27 | 26 | 78 | H, 7.5, DR | 4"/3" | 60 | 66 x 48 x 72 | 1475 |
| DR105H875-DLX | 15000 | 27 | 35 | 105 | | | | 66 x 48 x 87 | 1675 |
| DR105H910-DLX | 19000 | 39 | 35 | 105 | H, 10, DR | | | 66 x 48 x 87 | 1750 |

DISC MEDIA

| FILTER DISCS, CELLULOSE Packaged in carton of 250 | | |
|--|---------------|-------------------|
| DISC MODEL | MICRON RATING | PRICE CODE NUMBER |
| CE5x24 | 5 | 78-1420 |
| CE10x24 | 10 | 78-1421 |
| CE20x24 | 20 | 78-1422 |
| CE40x24 | 40 | 78-1423 |

| GRANULAR ACTIVATED CARBON | |
|---|---------|
| | PCN |
| 8 x 30 mesh 50# drum | 99-0995 |
| 12 x 30 mesh (acid washed) 50# drum | 99-0996 |

| BULK FILTER AID 50 lb. bag diatomaceous earth | |
|--|-------------------|
| RETENTION | PRICE CODE NUMBER |
| 1 micron | 33-0902 |
| 3 micron | 33-0901 |

OPTIONAL CARBON PURIFICATION CHAMBER

Available for all models, independent of pump style:

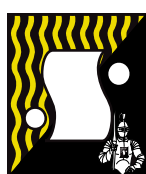
Granular carbon purification chamber installed on filter discharge with flow control valve is an available option. This allows filtered solution to pass through the activated carbon on a convenient "ON-OFF" basis before returning to the process tank.

| DESCRIPTION | PRICE CODE NO. |
|---|----------------|
| Includes adapter kit, flow control valve, drain valve and 10 ft. of nylon reinforced vinyl hose, PVC chamber and internal canister(s) for use with granular carbon. | |
| Triple 5" x 28" canister, 22.5 lbs. capacity | O-3528 |
| Triple 5" x 48" canister, 42 lbs capacity | O-3548 |

Registered trademarks:
Hypalon, Viton - DuPont Dow Elastomers;
Corzan - B.F. Goodrich Co.

F.O.B. Northbrook, Illinois

Specifications subject to change without notice.



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