



## SENTRY DELUXE® | DISC FILTRATION SYSTEMS

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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