



A Met-Pro Mefiag Filtration Technologies Business

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SERIES 2500/4500/6500/9000-CR HORIZONTAL DISC FILTRATION SYSTEMS

CORROSION RESISTANT
PVDF CONSTRUCTION

**Model
4500-CR
with PVDF
Self-Priming
Magnetic Drive
Pump Option**



Exclusive MEFIAG® stainless steel lifting device (for 4500, 6500 & 9000 Series) provides for simple mechanical movement of the cover for maintenance purposes. Just turn crank to raise lid. Then swing lid away to access filter media. ▼



The MEFIAG® Advantage

MEFIAG® is recognized throughout the world as the leading supplier of high efficiency, high quality, horizontal disc filters for superior performance. Series 2500/4500/6500/9000-CR is a design that incorporates the best that MEFIAG has to offer including PVDF construction and magnetic drive pump as standard.

Features and Benefits

- ✓ PVDF construction withstands highly acidic environments
- ✓ PVDF self-priming magnetic drive pump with silicone carbide bearings is standard
- ✓ Reusable media
- ✓ 100 GPH per sq/ft of surface area
- ✓ Suitable for chromic acid
- ✓ Filter assembly can be removed in its entirety
- ✓ Temperatures to 194°F (90°C)
- ✓ Pre-coated flow rate to 9000 GPH
- ✓ Large sludge holding capacity
- ✓ Low disposal cost
- ✓ High efficiency
- ✓ Specific gravities to 1.5
- ✓ Shipped ready for immediate operation
- ✓ Powder coated steel frame with casters for easy handling
- ✓ NEMA 4 water tight, corrosion resistant starter
- ✓ Mechanical cover lifting device for easy access to filter pack (not available on the 2500 Series)

Specifications

Filter

Filter chambers are constructed of mild steel with a PVDF lining on the interior and corrosion resistant paint (2 coats) on the exterior.

A flanged tangential inlet is standard, along with a bottom outlet and drain.

Stainless steel eyebolts with handwheels hold the powder coated steel cover in place. The lifting device provides for mechanical movement of the cover for maintenance purposes.

A pressure gauge (0-60 PSI) is supplied with a corrosion resistant guard.

Reusable filter media suited for the application is placed between the rigid PVDF filter discs. Filter media of various materials and micron ratings are available. Ten (10) micron polyester is standard.

All systems are mounted on a powder coated structural steel frame with casters for easy handling.

PVDF Pump Options

A PVDF self-priming magnetic drive pump Model KMSF is standard. PVDF mechanical seal pump is available. High purity silicon carbide bearings and Viton O-rings are standard on magnetic drive pumps. Silicon carbide with Viton O-ring provided with mechanical seal pump. The NEMA 4x motor starter is housed in a liquid tight enclosure.

Slurry Tank

Slurry tanks are mild steel construction with an interior of hard rubber (3 mm) and an exterior of corrosion resistant paint (2 coats). They are used to facilitate pre-coating and addition of activated carbon (if required), as well as solution make-up and priming of the pump. The slurry tank can also be used to store solution from the filter chamber during changing of media or maintenance

VD Lid Assembly (6500/9000 Optional)

VD lid assembly is used to tighten down the disc stack verses the cover.

Piping, Valves and Connections

Piping, valves, and connections are all hard pipe PVDF. SY models are piped to allow for flow from the solution tank, slurry tank, and the filter chamber.



Model 9000-HF-CR

| Parameter | Model 2500-CR | Model 2500-CR-SY | Model 4500-CR | Model 4500-CR-SY | Model 6500-CR | Model 6500-CR-SY | Model 9000-CR | Model 9000-CR-SY |
|--|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------|---------------------------|-----------------------|-----------------------|
| Precoated Flow Rate | 2500 GPH | 2500 GPH | 4500 GPH | 4500 GPH | 6500 GPH | 6500 GPH | 9000 GPH | 9000 GPH |
| Filtration Surface Area (ft) | 25 | 25 | 44 | 44 | 62 | 62 | 89 | 89 |
| Number of Filter Media | 40 (12' Diameter) | 40 (12' Diameter) | 44 (14' Diameter) | 44 (14' Diameter) | 35 (19' Diameter) | 35 (19' Diameter) | 50 (19' Diameter) | 50 (19' Diameter) |
| Sludge-Holding Capacity | 672 in ³ | 672 in ³ | .92 ft ³ | .92 ft ³ | 2.97 ft ³ | 2.97 ft ³ | 1.84 ft ³ | 1.84 ft ³ |
| Slurry Tank | None | Included | None | Included | None | Included | None | Included |
| Approx. Dimensions (in) | 37L x 20W x 48H | 43L x 20W x 46H | 30L x 24W x 50H | 41L x 30W x 50H | 39L x 32W x 53H | 53L x 39W x 53H | 44L x 36W x 59H | 59L x 44W x 59H |
| Approx. (Crated) Weight (lbs) | 410 | 480 | 600 | 720 | 975 | 1250 | 1140 | 1280 |
| Flanged Connections Suction and Discharge | 1-1/4" Inlet 1-1/4" Outlet | 1-1/4" Inlet 1-1/4" Outlet | 1-1/2" Inlet 1-1/4" Outlet | 1-1/2" Inlet 1-1/4" Outlet | 2" Inlet 1-1/2" Outlet | 2" Inlet 1-1/2" Outlet | 2" Inlet 2" Outlet | 2" Inlet 2" Outlet |
| TEFG Motor | 1 HP | 1 HP | 3 HP | 3 HP | 5 HP | 5 HP | 10 HP | 10 HP |



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