

SERIES HF HORIZONTAL DISC FILTRATION SYSTEMS



Model
30000-HFD-SY



Model
9000-HF-SY



MEFIAG® is the world's leader in the design and manufacture of filter systems utilizing horizontal disc technology for superior performance. The new 9000-HF through 30000-HFD systems utilize an all fiberglass pump for superior corrosion resistance and higher flow.

- ✓ Flow rates to 30,000 GPH
- ✓ Horizontal disc technology
- ✓ Maximum surface area (1 sq. ft. per 100 GPH!)
- ✓ Large sludge holding capacity
- ✓ Superior corrosion resistance
- ✓ FRP pump with choice of mechanical seals
- ✓ Temperature to 190°F (90°C)
- ✓ Low disposal cost
- ✓ Choice of cellulose, carbon/cellulose or reusable polypropylene filter media
- ✓ 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
- ✓ Bottom plate and lifting rod for quick change of disc stack standard (optional for 4500 & 9000)

Exclusive MEFIAG® stainless steel lifting device 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. ▶



Specifications

Model
4500-HF-SY

Filter

Filter chambers are constructed of mild steel with hard rubber lining (3 mm) 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. An air release valve positioned on the cover, is also used as the return line during pre-coating.

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

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

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

Pump

Model 9000-HF through 30000-HFD

Fyroc fiberglass centrifugal pumps are standard. Mechanical seal options are single CRS- 35/B with silicon carbide faces or double water flush.

Model 4500-HF

Mefiag polypropylene centrifugal pumps are standard with a stainless steel pump shaft. Mechanical seal is CRS- 25/B with silicon carbide faces.

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.

Pre-coating provides superior filtration and extends the life of the filter media.

Piping, Valves and Connections

Piping, valves, and connections are all CPVC construction.

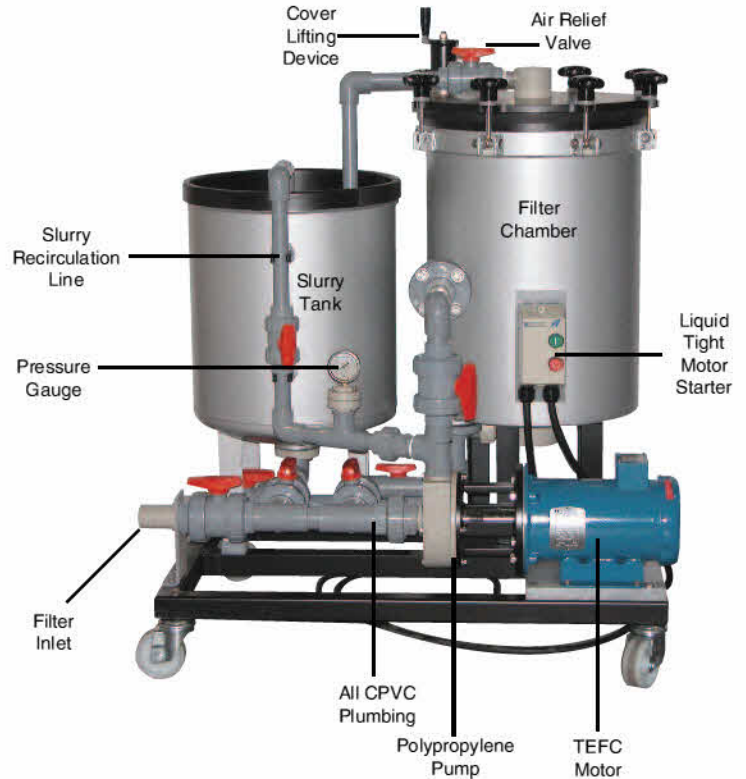
Suction of the pump is piped to permit flow from the solution tank, slurry tank, and the filter chamber.

X-Construction

X-construction is used for more aggressive solutions such as acid copper, acid zinc, and acid tin. The filter chamber and slurry tank are outside rubber lined, the base and cover are powder coated and the pump shaft is titanium.

VD Lid assembly (15000/30000 standard, 9000 optional)

VD Lid assembly is used to tighten down the disc stack versus the cover.



Parameter	Model 4500-HF	Model 9000-HF	Model 15000-HF	Model 18000-HFD	Model 30000-HFD
Precoated Flow Rate (GPH) (Filtering Capacity)	4,500	9,000	15,000	18,000	30,000
Open Pumping Capacity (GPH)	7,200	13,000	18,000	26,000	36,000
Filtration Surface Area (Ft ²)	44	89	150	178	300
Number of Filter Media	45 (14" Diameter)	50 (19" Diameter)	60 (22" Diameter)	100 (19" Diameter)	120 (22" Diameter)
Sludge-Holding Capacity (Ft ³)	0.85	2.11	3.0	4.22	6.0
Dimensions: with Slurry w/o Slurry (LxWxH)	41"x30"x50" 30"x24"x50"	59"x44"x59" 44"x36"x59"	59"x44"x79" 44"x36"x79"	90"x55"x55" N/A	104"x71"x59" N/A
Crated Weight (approx): with Slurry w/o Slurry (Lbs)	720 600	1280 1140	1,100 1,300	2,100 N/A	2,400 N/A
System Connections: Suction Discharge	2" NPT (Female) 1.5" NPT (Female)	3" NPT (Female) 2.0" NPT (Female)	3" NPT (Female) 3" NPT (Female)	(2) 3" NPT (Female) (2) 2" NPT (Female)	(2) 3" NPT (Female) (2) 3" NPT (Female)
Motor* (TEFC)	3 HP	5 HP	10 HP	5 HP (Two Motors)	10 HP (Two Motors)

*Motor availability (Specify completely with order):
3 HP, 5 HP or 10 HP - 208, 230, 460, and 575 VAC (all 60 HZ, three-phase only)
Fully-wired, liquid-tight motor starter is included for proper thermal and overcurrent protection



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