

# CECO Mefiag

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## SERIES 2500/3500/4500-PPQ HORIZONTAL DISC FILTRATION SYSTEMS

CORROSION RESISTANT  
ALL POLYPROPYLENE CONSTRUCTION

Model  
2500-PPQ



### 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 2500/3500/4500-PPQ is a design that incorporates the best that MEFIAG has to offer including all polypropylene construction featuring the “Unitized Pack” and self-priming magnetic drive pump as standard.

### Features and Benefits

- ✓ All polypropylene construction
- ✓ Self-priming magnetic drive pump
- ✓ “Unitized Pack” disc assembly
- ✓ Large sludge holding capacity
- ✓ Low disposal cost
- ✓ High efficiency
- ✓ Pre-coated flow rate to 4500 gph
- ✓ Temperatures to 180°F(82°C)

### ◀“Unitized Pack”

Mefiag’s® “Unitized Pack” disc assembly is locked tight for easy removal and changing of media. It is O-ring sealed at the discharge to eliminate any possibility of bypass.

### Self-Priming Magnetic Drive Pump

The polypropylene, self-priming magnetic drive pump is leakproof and sealless. After initially filling the priming chamber with liquid, the pump will virtually eliminate the danger of dry running. Lift capability is fifteen feet in 90 seconds when filtering from elevations lower than the pump. A polypropylene basket strainer traps any large solids that could damage the pump.



# Specifications

## Filter

The filter chamber is constructed of all polypropylene with bottom inlet and bottom discharge. Discharge is o-ring sealed. A powder coated support plate provides added strength. Chamber's have side mounted inlet/outlet connections for closer mounting to the tank.

Stainless steel eyebolts with handwheels hold the powder coated steel cover in place. An air release diaphragm valve is provided.

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

Base is polypropylene with stainless steel channel structure and polypropylene feet. Casters are available upon request.

## Unitized Pack

The disc assembly is all polypropylene with threaded center core and top nut for locking the discs into a one-piece unitized pack. Bottom support plate is designed for uniform liquid distribution while the top support plate provides for recirculation of the liquid to the filter media.

A locking/lifting handle is furnished to secure the lock nut into place and to facilitate the easy removal and replacement of the unitized pack.

Filter media selected for the application is placed between the rigid polypropylene discs. Ten (10) micron cellulose is standard. Carbon/cellulose (10 micron) and polypropylene of various densities are available.

## Self-Priming Magnetic Drive Pump

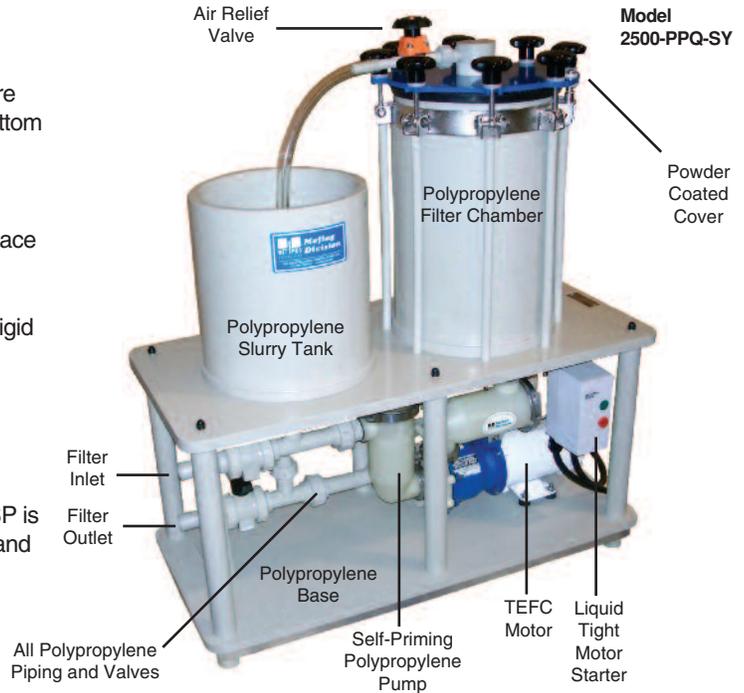
A polypropylene, self-priming magnetic drive pump Model PMSP is furnished with a TEFC motor. High purity silicon carbide bearings and viton o-rings are standard. The magnetic switch motor starter is housed in a liquid tight enclosure.

## Slurry Tank

The slurry tank is all polypropylene construction and is furnished with Model PPQ-SY units. Slurry tanks are used to facilitate pre-coating, addition of carbon (if required), and solution make-up. These are sized to store the complete capacity of the filter chamber during changing of the media or maintenance. Inlet/outlet connections are located at the end of the mounting base.

## Piping, Valves and Connections

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



Parameter	Model 2500-PPQ	Model 2500-PPQ-SY	Model 3500-PPQ	Model 3500-PPQ-SY	Model 4500-PPQ	Model 4500-PPQ-SY
Precoated Flow Rate (Filtering Capacity)	2,500 GPH	2,500 GPH	3,500 GPH	3,500 GPH	4,500 GPH	4,500 GPH
Open Pumping Capacity	3,100 GPH	3,100 GPH	5,400 GPH	5,400 GPH	5,400 GPH	5,400 GPH
Filtration Surface Area (Ft <sup>2</sup> )	25	25	32	32	44	44
Number of Filter Media (12" Diameter)	38	38	48	48	44	44
Sludge-Holding Capacity (In <sup>3</sup> )	529	529	676	676	931	931
Slurry Tank	None	Included	None	Included	None	Included
Approx. Dimensions (In)	37Lx20Wx48H	43Lx20Wx48H	37Lx20Wx53H	43Lx20Wx53H	34Lx21Wx60H	43Lx22Wx60H
Approx. (Crated) Weight (Lbs)	410	480	470	550	620	670
Hose Connections Suction and Discharge*	1-1/2" Inlet 1-1/2" Outlet	1-1/2" Inlet 1-1/2" Outlet	2" Inlet 1-1/2" Outlet	2" Inlet 1-1/2" Outlet	2" Inlet 1-1/2" Outlet	2" Inlet 1-1/2" Outlet
Hose Length (Total)	20'	20'	20'	20'	20'	20'
Motor	1 HP TEFC	1 HP TEFC	2	2	3	3

\*For flanged and threaded connections call factory.

Represented by:

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