

KONTEK Ecology Systems Inc.

Wastewater Treatment & Recovery Technologies

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MP-200 System

Key Features and Benefits:

- Permanent filter media
- PLC controlled means minimal labour requirements
- Maintains EPA/MOE compliance
- Flow rates up to 400 GPM
- Maintains High flow rate
- Corrosion resistant materials of construction

Effluent Polishing Systems Maxi-Polish

The Maxi-Polish is a fully automated effluent polishing filter designed to eliminate solids carry over problems that are experienced with clarifiers and conventional effluent polishing filters.

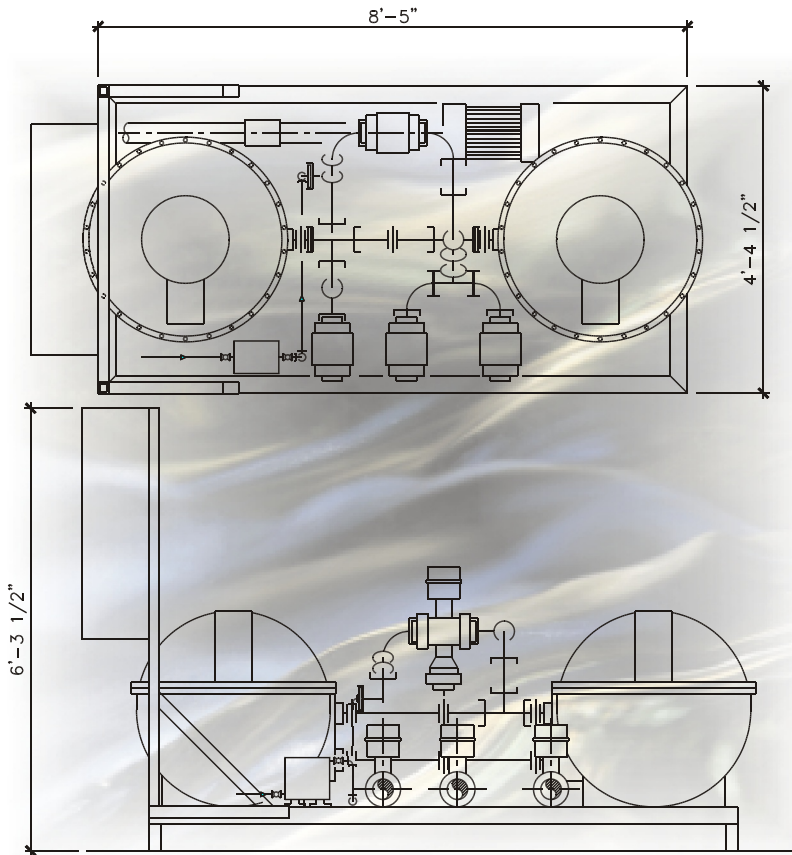
The Maxi-Polish incorporates total automation with high quality particulate retention of pressure granular media filtration to provide effective protection against suspended solids discharge.

The Maxi-Polish will automatically backwash the soiled media when necessary. Proper backwashing will renew the media bed for further filtration. The media is permanent and does not need to be replaced and disposed of each time it becomes incapacitated with trapped particles. Because of the permanent media technology, Maxi-Polish will yield the following benefits:

- No filter media disposal as F-006 sludge
- No solution loss and related treatment expense
- No constant media replacement expense
- No labor necessary for operation

Effluent polishing occurs by recirculating your effluent between the polishing tank and the filter at a rate greater than the clarifier flow. Polishing mode begins when the solution level in the tank is at alarm 2 and continues until the level rises to alarm 3. Discharge mode begins when the solution level reaches alarm 3. The valves will reposition to direct the filtrate to the sewer. Maxi-Polish will discharge and recirculate at flow rate equal to or slightly higher than the clarifier flow. This continues until the solution level falls to alarm 2.

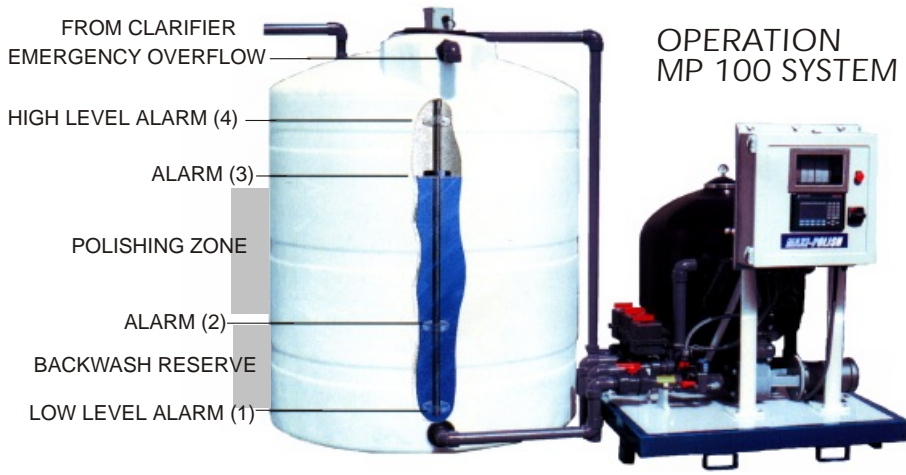
When the preset minimum filtration rate is detected by the electronic flow meter, the computer repositions the valves for backwash. During backwash mode the polished water is drawn from the backwash reserve in the polishing tank and the contaminants are flushed to waste treatment. The automatic acid injection system prevents calcium carbonate from solidifying the media bed.



SPECIFICATIONS

	MP 50	MP 100	MP 200	MP 400
FILTRATION FLOW RATE	75 GPM	100 GPM	200 GPM	400 GPM
SUGGESTED INPUT FLOW	50 GPM	75 GPM	125 GPM	250 GPM
BACKWASH FLOW RATE	100 GPM	140 GPM	200 GPM	400 GPM
BACKWASH VOLUME*	200 GPM	280 GPM	400 GPM	800 GPM
FLOOR SPACE	69" X 54"	69" X 54"	100" X 54"	**
POLISH TANK SIZE (DIA. X HT.)	64" X 79"	64" X 79"	87" X 87"	**
POLISH TANK CAPACITY*	1000 GAL.	1000 GAL.	2000 GAL.	4000 GAL.
INLET PIPE SIZE	1.5"	2.0"	3.0"	6.0"
OUTLET PIPE SIZE	1.5"	2.0"	3.0"	6.0"
PUMP HORSE POWER	2 HP	3 HP	7.5 HP	10 HP

* VARIABLE ** OPTIONAL ARRANGEMENTS



OPTIONAL Equipment

- Post carbon treatment for BOD/organics control
- PLC interlock outputs for system integration

Typical Results Treated Metal Hydroxide		
Metal	Before	After
Cu	1.5ppm	0.4ppm
Ni	1.8ppm	0.7ppm
Zn	1.9ppm	0.3ppm
Cr	1.6ppm	0.5ppm
Fe	2.4ppm	0.1ppm



Control Systems

Kontek offers a choice of control system options. Maxi-Polish systems can be supplied complete with Kontek's "Smart logic" PLC/HMI interface control systems or a conventional "relay logic" control panel package.

