



PR AQUA ROTOFILTERS™

Solids filtration is crucial to any aquaculture or water treatment facility. Micro-straining or screening is a cost-effective method of removing particulate matter from a liquid and is ideal for treating fish hatchery water. The PR Aqua Rotofilter™ is a rotary micro-screen drum filter that is very durable, reliable and inexpensive to operate.

DESCRIPTION OF OPERATION

Untreated water is gravity fed to the inside of the drum which has fine screens mounted to its periphery. The water flows through the screens while the solids adhere to the screen surface. The filtered water passes over an integral level control weir and then flows out of the filter by gravity.

As particles attach to the screen surface, head loss through the screen increases, causing the water level inside the drum to rise. The rising water contacts a level switch which activates the automatic drum rotation and backwash system. A pressurized spray is used to backwash the solids from the screen into an inclined trough. The solids flow by gravity from the filter for disposal or recovery. Clean screens are rotated into the water, lowering the water level. The backwash system automatically shuts down to save power.

BENEFITS

- ◆ Manufactured in North America with factory-direct service and support.
- ◆ Removes all particles bigger, and a large portion of particles smaller, than the screen aperture.
- ◆ Continuous filtering, even during backwashing.
- ◆ Minimal shearing results in optimal particle removal.
- ◆ Very low operating cost and backwash water consumption.



Trunnion and Bridge



Spray Nozzles



Injection Molded Screens



RFM 60120 Drum Filter



RF 6072 Drum Filter



DRUM FILTERS

RFM SERIES ROTOFILTER™

FEATURES

- ◆ Fiberglass enclosure, stainless steel internals, and high quality industrial drive components
- ◆ Built-in water level control weirs for easy process integration.
- ◆ Injection molded, one-piece screen elements eliminate screen delamination and allows for plugging of small holes with zero down-time.
- ◆ Inlet seal maintains a continuous positive seat against the rotating drum.
- ◆ Elastomeric endplate on drum eliminates fatigue failure.



RFM 3254 Drum Filter

RF SERIES ROTOFILTERS™

FEATURES

- ◆ Frame mounted for flexible integration into a variety of sump arrangements
- ◆ Stainless steel construction and high quality industrial drive components.
- ◆ Injection molded, one-piece screen elements eliminate screen delamination and allows for plugging of small holes with zero down-time.
- ◆ Inlet seal maintains a continuous positive seat against the rotating drum
- ◆ Elastomeric endplate on drum eliminates shaft fatigue failure.
- ◆ Inlet and level control options available.



RF 60120 Drum Filters

ROTOFILTER™ TECHNICAL SPECIFICATIONS

Filter Model Number	2014	3218	3236	3254	4848	4872	6072	6096	60120
Drive Motor (HP):	0.08	0.33	0.33	0.33	0.33	0.33	0.50	1.0	1.5
Backwash Pump Motor:	0.50	0.50	0.75	1.0	0.75	1.5	1.5	2.0	2.0
No. of Filter Panels:	2	4	8	12	16	24	30	40	50
Screen Area (ft²):	4.91	10.12	20.24	30.36	40.48	60.72	75.90	101.20	126.50
No. of Backwash Nozzles:	4	5	10	15	12	18	18	24	30
Backwash Flow @ 100 psi (USGpm)	3.2	4.0	7.9	11.9	9.5	14.2	14.2	19.0	23.7
Power Options:	[120/1/60]; [208/1/60]; [208/3/60]; [240/1/60]; [240/3/60]; [480/3/60]; [575/3/60]								