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## RDF Rotary Drum Filter

Rotary drum filter for aquaculture farms is mechanical and self-cleaning micro-filtration equipment, which is designed for high performance in water-treatment systems.



### RDF ROTARY DRUM FILTER

Rotary drum filter for aquaculture farms is mechanical and self-cleaning micro-filtration equipment, which is designed for high performance in water-treatment systems. It uses a rotating drum to separate the micro suspended solid out of the water to reach solid-liquid separation. Dirty water enters the inside of the drum through a water inlet and the drum is covered with a stainless steel (316L) micro screen. From here it passes through the filter screen to the filter chamber, leaving all impurities on the inside of the filter screen. Waste particles slowly block the filter screen causing less water to pass through the drum leading to a higher water level inside the filtering drum. Once the water inside the filtering drum rises to the specified level, the automatic control system starts to work, the back wash pump and drum motor will be open automatically at the same time. During the washing process, the water under pressure rinses the dirt from the inside of the filter screen to a waste tray, and then leaves the filter through a sewage outlet. After one rotation of the drum, the filter screen is cleaned. When contamination gathers again on the inside of the filter screen, the cycle repeats itself.

## Features

1. Small footprint, large filtration area, tiny filter aperture, low resistance and good filtration effect.
2. Adopts 316L stainless steel filter screen, sturdy and durable.
3. The housing is made of high quality plastic material with strong corrosion resistance.
4. The waste tray has an inclined angle for quick discharge.
5. Easy installation, stable operation, low energy consumption, high efficiency, simple operation and management.
6. Multiple working modes of automatic, stop, and manual. In the automatic working mode, it will automatically sense whether the screen is blocked and automatically backwash. At the same time, the backwashing time can be set according to the blockage of the screen.

Model	Product size(mm)	Flow rate(m <sup>3</sup> /h)	Filtration precision (μm)	Voltage(V)/50Hz	Power		Water inlet		Water outlet	
					KW	HP	mm	inc h	mm	inc h
WL-RDF30	1100*1050*950	0~30	40/80	380	0.73	0.98	φ160	6"	φ160	6"
WL-RDF60	1500*1080*950	40~60	40/80	380	0.80	1.07	φ160	6"	φ160	6"
WL-RDF90	1650*1250*1080	70~90	40/80	380	1.12	1.50	φ160	6"	φ160	6"
WL-RDF120	1660*1550*1300	100~120	40/80	380	1.30	1.74	φ200	8"	φ200	8"
WL-RDF180	2130*1550*1300	130~180	40/80	380	1.65	2.21	φ250	10"	φ250	10"
WL-RDF250	2600*1550*1300	190~250	40/80	380	1.85	2.48	φ250	10"	φ250	10"

## RDM Rotary Drum Filter

High efficiency filtration, low power consumption and less maintenance are the main advantages of rotary drum filter.



## RDM ROTARY DRUM FILTER

When the sewage water enters the inside of the drum through the water inlet, it will stay awhile to steady the flow. Then the solid will be separated by the filter screen and clean water will flow out. The filtration efficiency will be reduced due to the accumulation of solid in the filter screen, when the water level in the chamber is increased to a specific level, the automatic backwashing system will start to work automatically, ensuring the filter screen's filtering capacity. High efficiency filtration, low power consumption and less maintenance are the main advantages of rotary drum filter.

## Features

1. Simple structure, stable operation, easy maintenance and long service life.
2. High treatment capacity, high efficiency and continuously automatic process.
3. 304-316 stainless steel structure and water contact part (excluding drive box) + FRP cover.
4. High pressure backwash system.
5. Two working modes: automatic and manual.
6. The filter screen can be selected from 21-80 microns.
7. Flow rate from 50-400m<sup>3</sup>/h.

## 8. VFD motor control.

### Application

- Primary and secondary filtration of sewage / seawater treatment.
- Fish farm water treatment.

Model	Main motor(HP)	Backwash pump	Number of filter screen	Filtration area	Spray nozzle	Backwash flow rate@7bar(L/Min.)	Power supply
WL-RDM2014	0.08	0.5	2	4.91	4	3.2	120/60 220/50 240/3/60 380/3/50
WL-RDM3218	0.33	0.5	4	10.12	5	4	
WL-RDM3236	0.33	0.75	8	20.24	10	7.9	
WL-RDM3254	0.33	1	12	30.36	15	11.9	
WL-RDM4848	0.33	0.75	16	40.48	12	9.5	
WL-RDM4872	0.33	1.5	24	60.72	18	14.2	
WL-RDM6072	0.5	1.5	30	75.9	18	14.2	
WL-RDM6096	1	2	40	101.2	24	19	
WL-RDM60120	1.5	2	50	126.5	30	23.7	

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