

- Unit 1 / 13 Old Dairy Close, Moss Vale NSW 2577, Australia
- 111 Bridge St, Nelson 7010, New Zealand

DRUM FILTERS

✉ sales@freshbydesign.com.au

☎ 02 4868 2500



MODEL

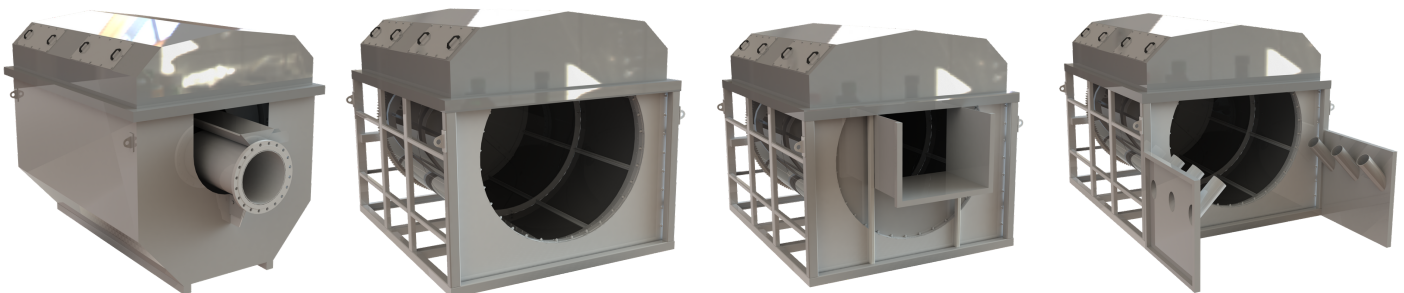
CLASSIFICATION

Filter Type	MDF-500	MDF-800	MDF-1200	MDF-1400	MDF-1600	MDF-2000	MDF-2200
Models	501	801, 802, 804	1202, 1204	1402, 1404, 1406	1602, 1604, 1606	2002, 2004, 2006	2202, 2204, 2206
Drum Diameter	500 mm	800 mm	1200 mm	1400 mm	1600 mm	2000 mm	2200 mm
Drum Length	500 mm	801: 800 mm	1202: 1000 mm	1402: 1000 mm	1602: 1000 mm	2002: 1000 mm	2202: 1000 mm
		802: 500 mm 804: 2000 mm	1204: 2000 mm	1404: 2000 mm	1604: 2000 mm	2004: 2000 mm	2204: 2000 mm
Filtration Area	0.7 m ²	801: 1.2 m ²	1202: 4.2 m ²	1402: 4.4 m ²	1602: 4.8 m ²	2002: 6 m ²	2202: 7 m ²
		802: 2.4 m ² 804: 4.8 m ²	1204: 8.4 m ²	1404: 8.8 m ² 1406: 13.2 m ²	1604: 9.6 m ² 1606: 14.4 m ²	2004: 12 m ² 2006: 18 m ²	2204: 14 m ² 2206: 21 m ²
Standard Filtration Degree	10 - 10000 micron						
Types	Tank Type (with/without Lid) Frame Type (Channel Type-with/without Lid)						

Micro Drum Filters

Timex Micro Drum Filters are available with different configurations.

- Available in 7 different drum diameters: 0.5 m -2.2 m .
- Available Filtration Area: 0.7 m²-21 m².
- Available in Polypropylene (PP), 304SS, 316SS and Super Duplex



Tank Type

Frame Type
(Channel Type)
Open Inlet

Frame Type
(Channel Type)
Open Inlet with
Connection for Channel

Frame Type
(Channel Type)
Open Inlet with
Wing Walls



**Polypropylene Tank
Type Micro Drum Filter**



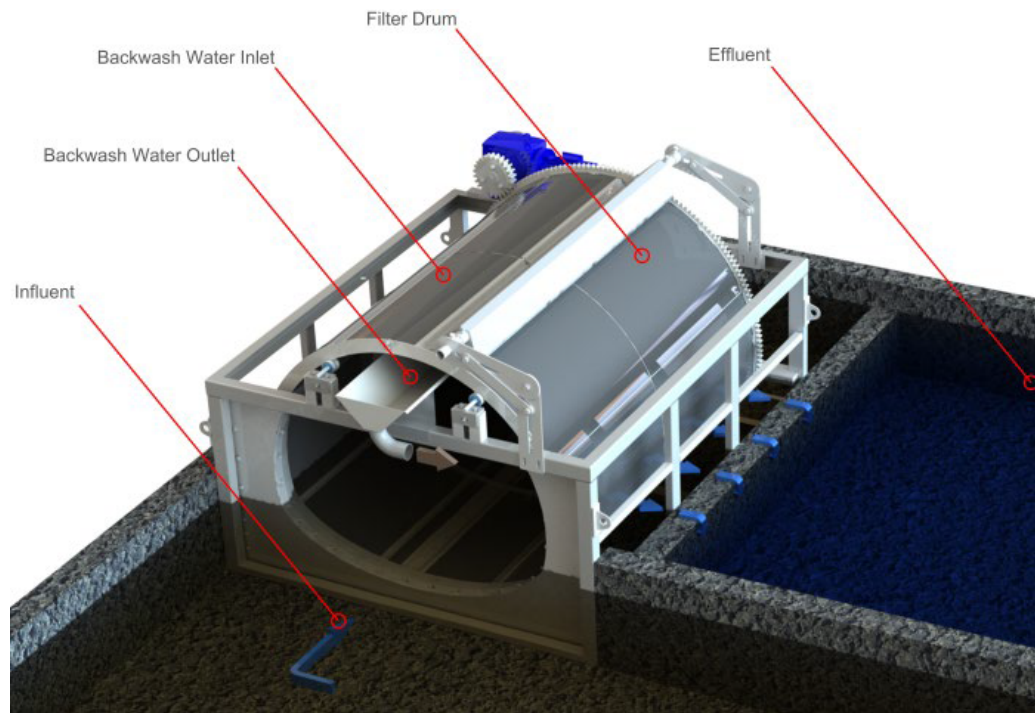
**Special Fabrication Tank Type
Micro Drum Filter**

Micro Drum Filters

ADVANTAGES

- Filtration without flow interruption.
- Suitable for a wide range of flow rates: 1m³/h-4000m³/h
- Available Filtration Degree : 10-10.000micron
- Mechanical Self Cleaning Filters
- Drum Filters are able to operate in water with high salt concentration, providing corrosion resistance, particularly chloride stress conditions and chloride pitting corrosion. Available in stainless steel 304,316, Duplex SS, Super Duplex SS& Polypropylene in order to be able to treat both salt and fresh water.

OPERATION & BACKWASH PROCESS



- Untreated water enters the drum and is filtered through the screens before passing back to the system.
- Driving Force (Sieving) = The difference in water level inside/outside the drum.
- Solids are trapped and lifted to the backwash area by the rotational movement of the drum.
- Drum rotation can be intermittent or continuous depending on the type of control set by the operator.
- Backwash water is sprayed via nozzles from the outside onto and through the filter screens.
- Rejected materials are washed out of the filter screen into the collection tray and discarded from the filter using gravity.

REFERENCES

Project	Water Filtration
Country	Norway
Application	Salt Water
Capacity	30 m ³ /h
Solution	Rotostrain
Year	2020



The aim of the project is to treat fish processing and water process water filtration for Norway Fish Processing Ship.

Project	Irrigation Network Filtration
Country	Turkey Kayseri
Application	Irrigation
Capacity	90,000 m ³ /h
Filtration Degree	800 micron
Solution	Type
Year	2019



The aim of the projects is to protect the irrigation network pipeline and control instruments such as pressure reducer valves and hydrants against algae and particles.

Project	Pannon Project
Country	Hungary
Application	Aquaculture
Capacity	776 m ³ /h
Filtration	30 micron
Solution	1 x MDF-501 PP
	2 x MDF-804 PP
	1 x MDF-1202 PP
	2 x MDF-1204 PP
	1 x MDF-1404 SS
Year	2019



RAS fish farm filtration to remove the particles and reduce the COD.



REFERENCES

Project	Irrigation Network Filtration
Country	Turkey
Application	Irrigation
Capacity	12.5 m ³ /h
Filtration Degree	200 micron
Solution	MDF-2206 Frame Type
Year	2018



The aim of the project is to protect the irrigation network pipeline and control instruments such as pressure reducer valves and hydrants against algae and particles.

Project	Mardin Ceylanpinar Irrigation Project
Country	Turkey
Application	Irrigation Water Filtration
Capacity	7.85 m ³ /h
Filtration Degree	200 micron
Solution	3 x MDF-1606 Frame Type 1 x MDF-1604 Frame Type 2 x MDF-802 Frame Type
Year	2017



The aim of the project is to protect the irrigation network pipeline and control instruments such as pressure reducer valves and hydrants against algae and particles

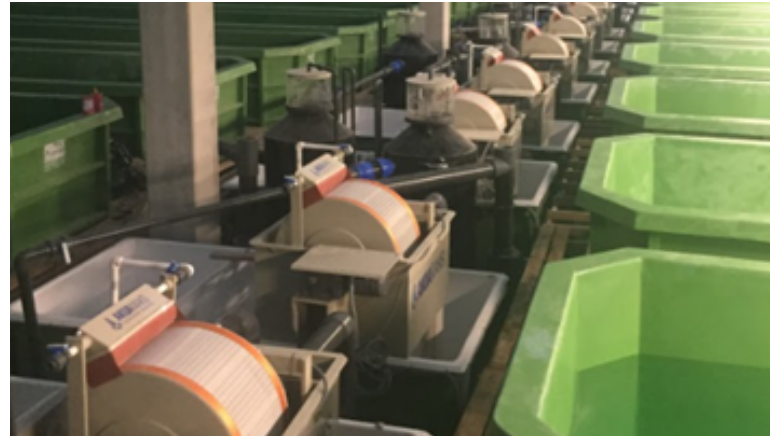
Project	Salt Water Filtration
Country	Turkey, Ankara
Capacity	250 m ³ /h
Filtration Degree	50 micron
Solution	MDF-1206 PPTank Type
Year	2017



To remove the silt and dust from the desalination process for the production of salt.

REFERENCES

Project	Aquaculture Project
Country	Turkey,Izmir
Capacity	40 m ³ /h
Filtration Degree	30 micron
Solution	12 x MDF-501 PP
Year	2017



RAS fish farm filtration to remove the particles and reduce the COD.

Project	Antalya Serik Project
Country	Turkey
Capacity	1.75 m ³ /h
Filtration Degree	10 micron
Solution	2 x MDF-2010 Tank Type
Year	2016



Pre-filtration before the UV to increase the efficiency of UV by removing the fine particles.

Project	Aydin Bozdogan Irrigation
Country	Turkey
Capacity	1.44 m ³ /h
Filtration Degree	100 micron
Solution	8 x MDF-1604 Tank Type
Year	2015



The aim of the project is to protect the irrigation network pipeline and control instruments such as pressure reducer valves and hydrants against algae and particles

REFERENCES

Project	Wastewater Treatment Plant
Country	Portugal
Application	Effluent Filtration
Capacity	120 m ³ /h
Filtration Degree	100 micron
Solution	MDF-804 PP
Year	2014



Pre-filtration before the UV to increase the efficiency of UV by removing the fine particles.

Project	Water Filtration
Country	Pakistan
Capacity	800 m ³ /h
Filtration Degree	100 micron
Solution	Tank Type
Year	2013



Nuclear Power Plant Sea Water intake Filtration down to 1000 micron to remove the particles and algae.

Project	Hallingdesveien
Country	Norway
Application	Sea Water
Capacity	6000 m ³ /h
Filtration Degree	63 micron
Solution	2 x MDF-1612 Frame Type
Year	2011



In order to reduce environmental impact and meet government regulations, drum filters are placed for the final stage of the snowmelt process before discharged from the sea.

REFERENCES

Project	Budapest Zoo & Botanic Garden Pannon Park
Country	Budapest, Hungary
Application	ALSS Design, Manufacturing, Supply, Installation & Commissioning
Year	2018



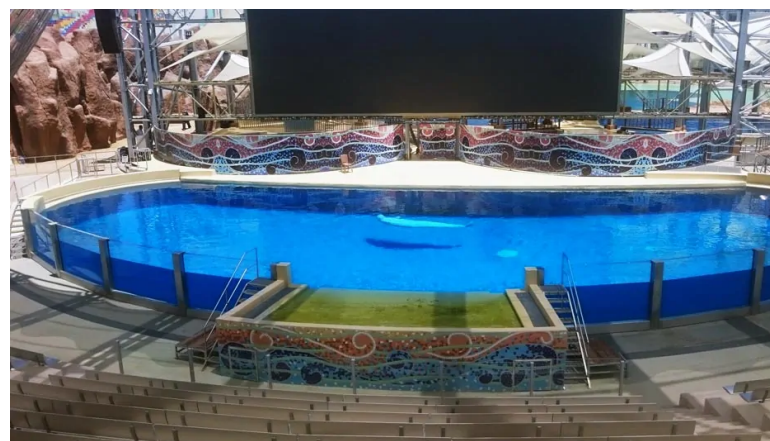
The aim of the project was to provide a detailed hydraulic and biological filtration design. The project consists of 21 Life Support Systems having different volumes between 8 m³ and 3,000m³

Project	Loro Parque
Country	Tenerife, Spain
Application	Design, Manufacturing, Supply, Installation & Commissioning
Year	2017



The aim of the project was to designed, manufactured, installed, and commissioned all new fish quarantine facilities, reaching a capacity of 400 kg of tropical fish.

Project	The Land of Legends- RIXOS
Country	Antalya, Turkey
Application	ALSS Design, Supply, Installation
Year	2016



The project is a 100% recirculating LSS system with a total water volume is approximately 20,000 m³ or 5,000 Gallons with a total surface of all pools reaching 11,000 m²

