



# INTEGRATED

Filtration Modules



**Integrated Filtration Technology Designed for  
Aquatic Life Support**



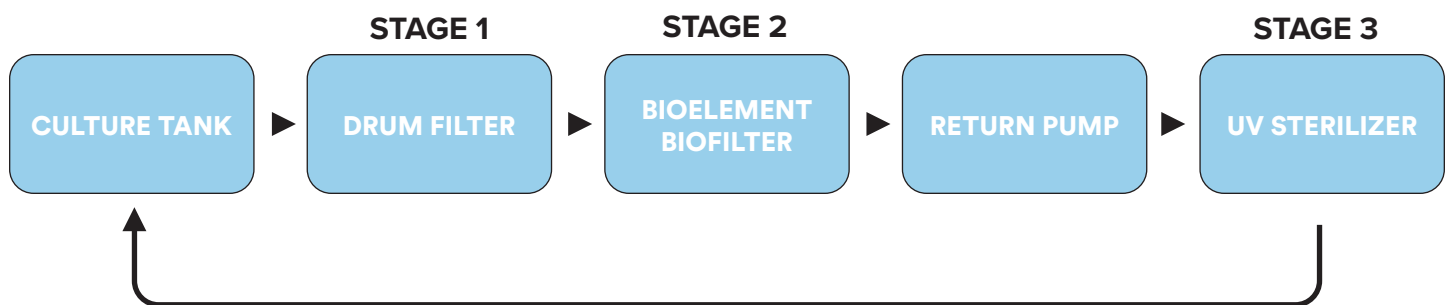
## Product Overview

IFM Systems are advanced, customizable filtration systems that combine multiple filtration stages into a single, efficient, automatically cleaning unit. Designed with energy and space efficiency in mind, these systems provide ultra-quiet, high-performance operation while significantly reducing labor and operational costs.

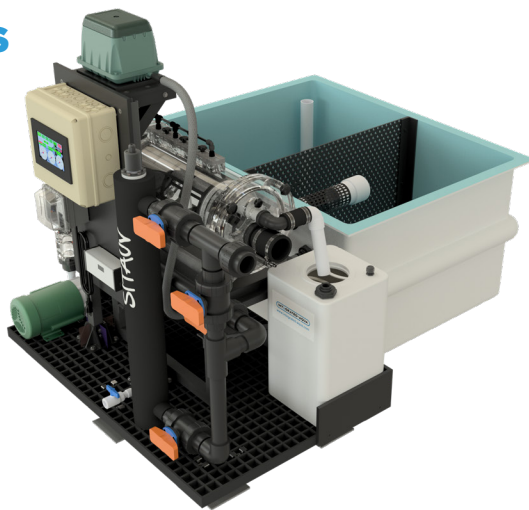
The innovative design of IFM systems integrates essential processes such as particle removal, biofiltration, aeration, temperature control, pumping, disinfection, and automation—delivering a comprehensive, turnkey solution for aquatic life support.

Built to be robust and versatile, IFM systems are tailored to meet specific water quality goals, budget constraints, and operational needs. A wide selection of water handling equipment and accessories ensures compatibility with projects of any scale.

## 3 Stage Recirculating Filtration System Design



### TD-SERIES



Tiny Drum filter integrated into complete 3-stage recirculating system rated up to 57 gpm. Perfect for aquatic exhibits, aquaculture, holding, rearing, display, and research.

### X-SERIES



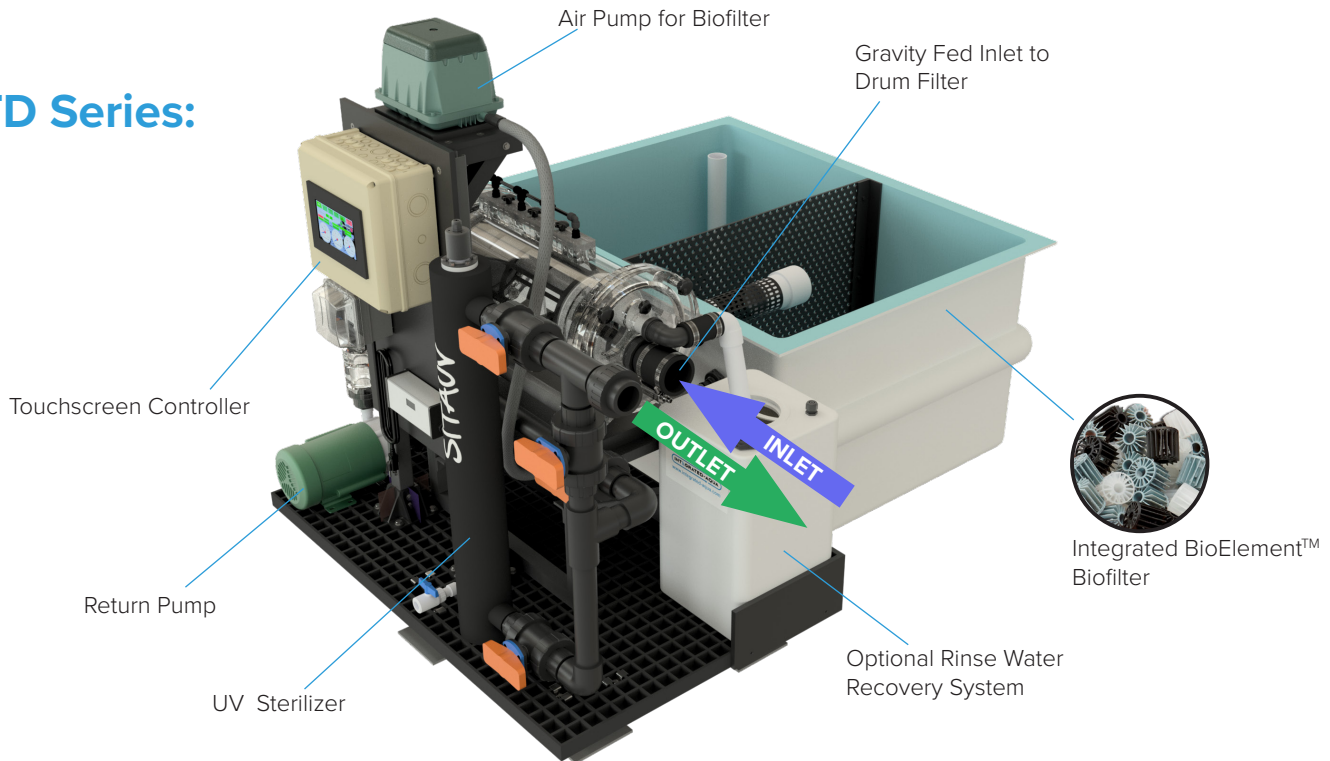
HEX Drum filter integrated into pre-engineered sump tank designed for systems up to 400 gpm. Customizable for aquatic exhibits and recirculating aquaculture systems. Designed for gravity feed or pumped water supply.



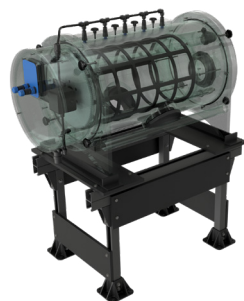
## Design Highlights

- **Self-Cleaning Filter.** Automatic filter rinse system requires zero maintenance labor.
- **Minimal Water Use.** Efficient rinse water rate uses minimal water for each cleaning cycle. Optional rinse water recovery system reduces water requirement to zero!
- **Saltwater Compatible.** Designed specifically for saltwater use with all non-corrosive materials.
- **Extremely Energy Efficient Design.** Gravity fed drum filter with low head return pump is extremely energy efficient and quiet.
- **Compact Footprint.** Maximum filtration in the least amount of space.
- **Pre-Engineered for Turnkey Installation.** Modular system engineered for simple plug-and-play installation.

## TD Series:



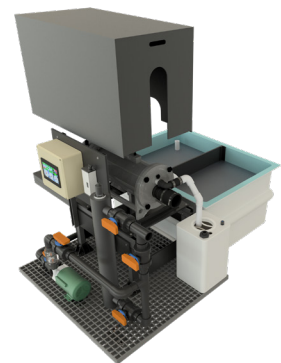
## Options:



TinyDrum support stand with optional air pump shelf



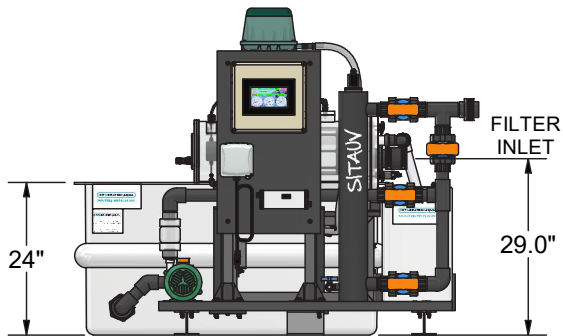
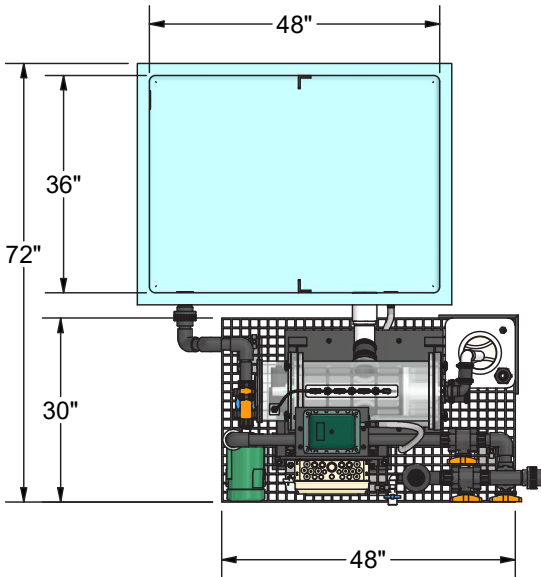
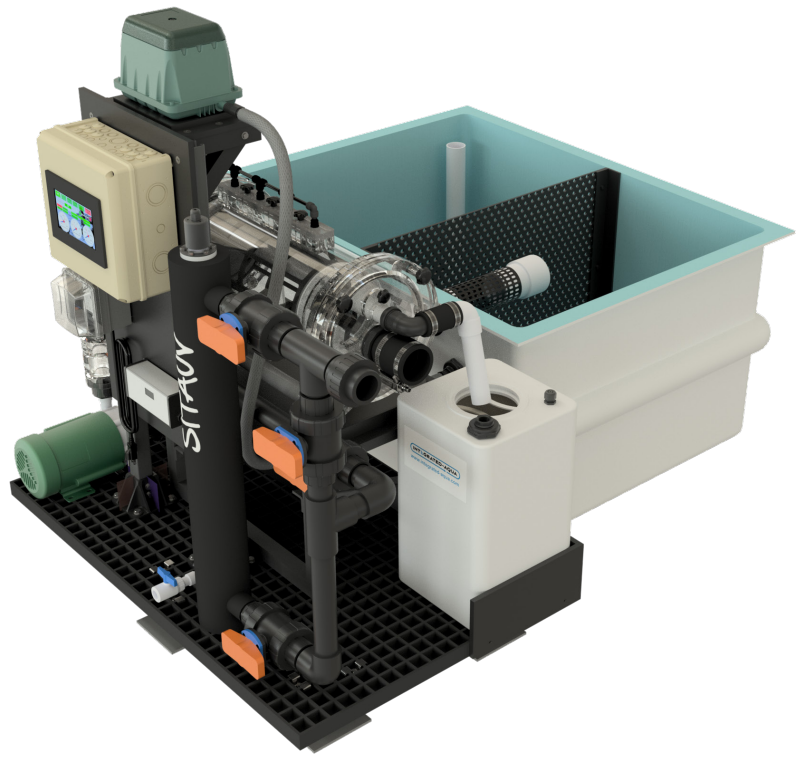
Optional TinyDrum® Waste Water Recovery Tank



Optional TinyDrum® Cover for Outside Installation



**TD-SERIES**



**Model IFM-M4**

TD-Series Integrated Filtration Modules deliver commercial-grade filtration technology in a small footprint, designed for maximum efficiency and reliability. At the heart of this system is the TinyDrum® Filter and controller, a fully sealed, non-metallic unit that integrates the drum, flushing pump, and gear motor into a compact and quiet design.

User-configurable settings on the user friendly touchscreen controller allow precise management of backwash timing, drum rotation, and flushing duration, ensuring peak performance with minimal effort. The IFM-M4 handles flow rates up to 25 gpm with automatic filter rinsing making it the most efficient and high-performance system in its class.

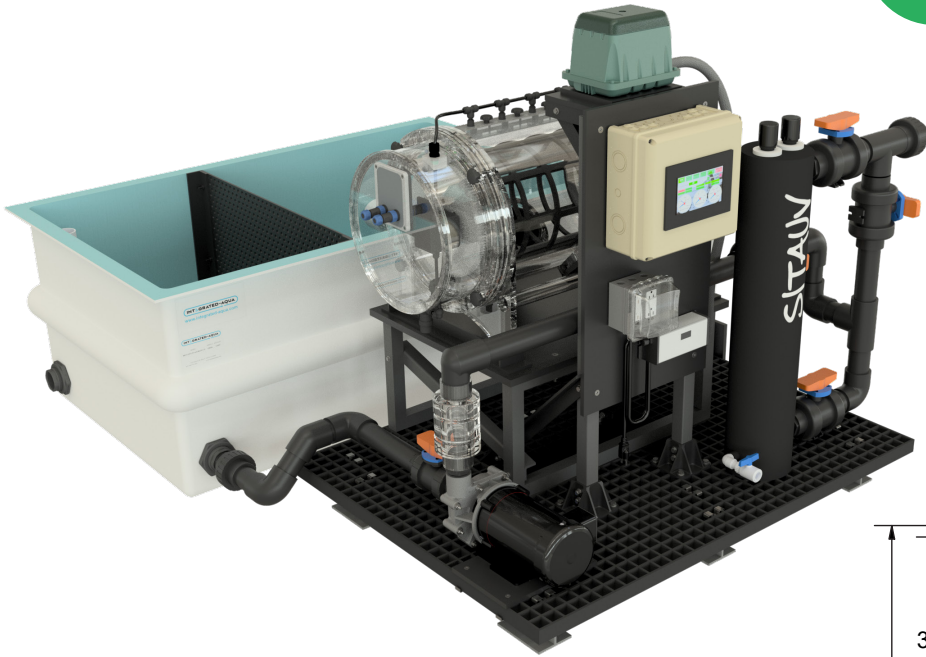
The IFM includes an engineered biosump with integrated MBBR BioElement™ biofilter, efficient return pump, and SITA UV sterilizer for a complete turnkey system solution. This innovative system is ideal for aquatic life support applications requiring robust filtration and reliable performance in a compact, efficient package.

MODEL	Max Flow Rate* (gpm)	SOLIDS FILTER			ELECTRICAL REQUIREMENTS			AIR PUMP FOR BIOFILTER		Biofilter Media Volume (cu.ft.)	TANK DIMENSION (inches)		
		Type	Standard Mesh Size (microns)	Connections (inlet/waste)	Tiny Drum	Return Pump	UV Sterilizer	Connection Type	Electrical (Volts/Watts)		L	W	H
<b>IFM-M4</b>	25	Drum Filter	30/60/75 μ	3" / 1.5"	115V / 125W	115V / 390W	115V / 80W	3/4" FNPT	115V / 38W	4.5	48	36	24

\*Max recommended flow rate, consult IAS for application and sizing recommendation.



**TD-SERIES**

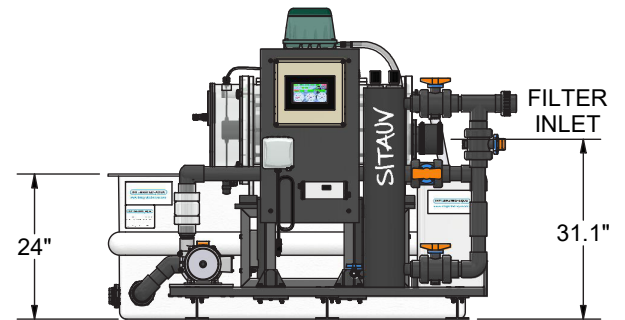
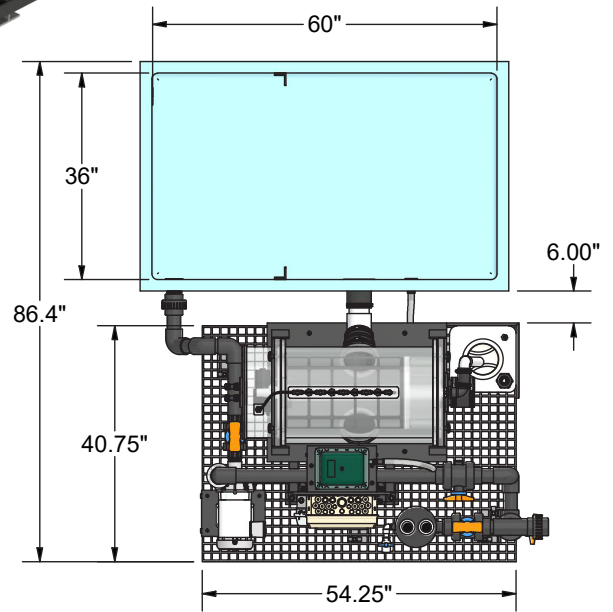


**Model IFM-L5**

TD-Series Integrated Filtration Modules deliver commercial-grade filtration technology in a small footprint, designed for maximum efficiency and reliability. At the heart of this system is the TinyDrum® Filter and controller, a fully sealed, non-metallic unit that integrates the drum, flushing pump, and gear motor into a compact and quiet design.

User-configurable settings on the intuitive touchscreen controller allow precise management of backwash timing, drum rotation, and flushing duration, ensuring peak performance with minimal effort. The IFM-L5 handles flow rates up to 57 gpm with automatic filter rinsing making it the most efficient and high-performance system in its class.

The IFM includes an engineered biosump with integrated MBBR BioElement™ biofilter, efficient return pump, and SITA UV sterilizer for a complete turnkey system solution. This innovative system is ideal for aquatic life support applications requiring robust filtration and reliable performance in a compact, efficient package.



MODEL	Max Flow Rate* (gpm)	SOLIDS FILTER			ELECTRICAL REQUIREMENTS			AIR PUMP FOR BIOFILTER		Biofilter Media Volume (cu.ft.)	TANK DIMENSION (inches)		
		Type	Standard Mesh Size (microns)	Connections (inlet/waste)	Tiny Drum	Return Pump	UV Sterilizer	Connection Type	Electrical (Volts/Watts)		L	W	H
<b>IFM-L5</b>	57	Drum Filter	30/60/75 μ	4" / 1.5"	115V / 125W	115V / 920W	115V / 160W	3/4" FNPT	115V / 38W	7	60	36	24

\*Max recommended flow rate, consult IAS for application and sizing recommendation.



**Model IFM-X1**



**Model IFM-X2**



**INTEGRATED**  
Drum Filter Control

- Required for X-Series IFM Systems.
- Skid mounted on 30" x 24" base or components sold separately.
- Custom configured depending on application.

X-Series Integrated Filtration Modules from Integrated-Aqua are pre-engineered, turnkey mechanical filtration systems designed for reliable performance in demanding aquatic environments. At the core of each system is the advanced HEX Drum Filter, built on decades of aquaculture expertise to deliver high-capacity solids removal with enhanced durability, energy efficiency, and reduced water usage. These features translate into lower operational costs and consistent, high-quality filtration performance.

Pre-assembled within a custom-engineered sump, the X-Series IFM simplifies installation and reduces the need for extensive on-site engineering. Configurable for systems up to 400 GPM—with larger, custom solutions available—each module integrates IAS Drum Filter Controls and can be paired with a full range of complementary equipment to support complete recirculating system designs across aquaculture, aquatic life support, and water management applications.

MODEL	Max Recirculation Flow Rate (gpm) <small>(15mg/L TSS, 30micron)</small>	SOLIDS FILTER			DRUM FILTER CONTROL SYSTEM (DFC)		TANK DIMENSION (inches)		
		Type	Standard Mesh Size (microns)	Connections (inlet/waste)	Single Point Electrical Connection	Dimensions (inches, Lx-WxH)	L	W	H
<b>IFM-X1</b>	125 gpm	HEX Drum Filter	30 μ	110mm / 75mm	115V or 230V	36 x 24 x 42	68	40	48
<b>IFM-X2</b>	300 gpm	HEX Drum Filter	30 μ	160mm / 110mm	115V or 230V	36 x 24 x 42	100	57	62

# Customizable for a Complete Recirculating System



## INTEGRATED Filtration Modules



1

### MECHANICAL FILTRATION

Select from gravity-fed filters including TinyDrum® Filters for smaller systems and X-series HEX drum filters for larger systems. Filter screens from 10 – 1000 microns.

2

### IFM TANK VESSEL

Constructed from heavy-duty non-corrosive materials including welded HDPE plastic and fiberglass reinforced plastic (FRP). Designed with built-in inlets, and internal drum filter support.

3

### BIOE SERIES MBBR BIOFILTER

BioE Biofilters set the industry standard for recirculating aquaculture systems. Engineered to meet the specific water quality requirements for your specific application.

4

### TEMPERATURE CONTROL

Options include immersion grid coils and electric heaters for space savings and efficiency or externally mounted chillers and heat pumps for systems with larger load capacities.

5

### PUMP OPTIONS

Quiet, low-head pumps are used for optimal electrical efficiency and low maintenance operation. Select either submersible pumps for the most compact footprint or from a wide range of externally mounted end-suction centrifugal pumps to meet specific project requirements.

6

### DISINFECTION

SITA UV sterilizers are added for disinfection of water-borne pathogens and to prevent the spread of diseases. Offered in wide range of configurations for any aquaculture application.

7

### AUTOMATION, MONITORING & CONTROLS

A complete range of automation, water quality monitoring, and controls are available with Integrated Filter Modules. Choose from auto backwash for Drum filters, water quality sensors, makeup water systems, and more.



# INTEGRATED Filtration Modules

## APPLICATIONS

Engineered for compact system needs, Integrated Filter Modules are fully automatic, non-corrosive, compact, and economical solids filters ideal for a range of aquatic life support applications.



### Aquatic Research & Education

Engineered to provide reliable, low-maintenance filtration with precise water quality control, making them an ideal choice for systems where accuracy and consistency are critical.



### Aquaculture

Enhance water quality and system efficiency in aquaculture operations, promoting healthier stock and reducing maintenance with reliable, automated filtration.



### Commercial Aquatic Exhibits

Integrated Filter Modules ensure crystal-clear water and quiet operation, perfect for maintaining pristine conditions in holding and display systems in front or back of the house.



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