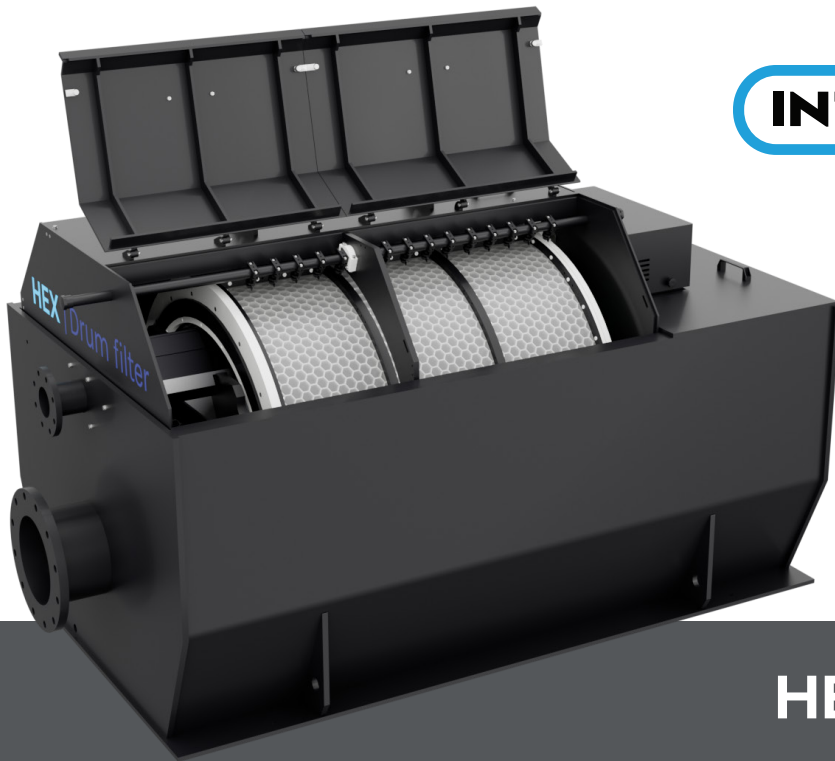




## HEX DRUM FILTERS

HEX Drum Filters, exclusively distributed in North America by Integrated-Aqua, incorporate the latest innovations in microscreen drum filtration technology. Advanced engineering features and construction included in the HEX drum filter are a culmination of 30 years of aquaculture experience and development by industry-leading engineers and biologists. As a result of these refinements, the HEX drum filter is built to last even in the harshest conditions and designed to operate more efficiently with energy, water usage, lower operational maintenance costs, and significantly improved filtration capacity compared to other traditional drum filters on the market today.

### HEX DESIGN HIGHLIGHTS

**X Series Drum Filters** are engineered for maximum performance, reliability, and ease of operation, delivering the lowest total cost of ownership in demanding aquaculture and aquatic life support systems. Constructed with heavy-duty reinforced materials including HDPE, POM, UHMW, and GFRPP engineered composites, these filters ensure long service life with superior corrosion resistance in even the harshest saltwater and salt air environments. Models available up to X5-18 with 90 HEX panels – highest capacity in the industry!

**Superior Filtration Capacity** is achieved through the integration of advanced drum filter technology with new HP HEX microscreen panels, engineered for increased open surface area and improved hydraulic performance. The hexagonal BeeCell design—nature's most efficient use of space—delivers exceptional structural strength and maximizes filtration efficiency, making it the strongest and most efficient microscreen filter on the market.

**Intelligent Controls Maximize Filter Efficiency** utilizing less energy to rotate the drum and optimizing backwash water usage with most optimal panel area utilization.

**Scalable & Customizable** the HEX product line offers a complete range of commercial filter capacities, configurations, and feature sets to meet the most demanding requirements in any drum filter application. Highly customizable to accommodate unique system designs, including complex retrofit applications where footprint, hydraulics, and integration constraints require tailored solutions.

**Drum Filter Controls Integration, Spare Parts Inventory and full customer support in our Vista, CA USA Facility.**



# HEX DRUM FILTERS

## STANDARD TYPES OF MODELS AVAILABLE



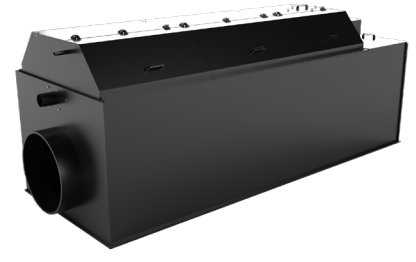
CHANNEL VERSION



HALF TANK VERSION



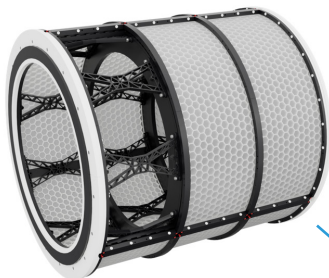
TANK VERSION



XLT VERSION

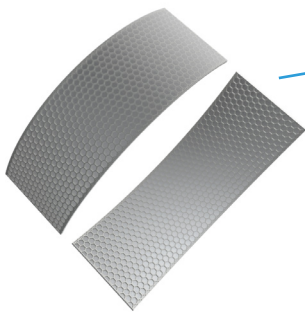
HEX Drum Filters are available in a complete product range, manufactured as model X1-1 with a single panel up to F5-18 with 90 panels. X Series is available in sizes up to X5-10 with 50 panels (total screen area 0.46 - 23.0m<sup>2</sup>). Largest HEX drum filter models are FXL series from model F5-12 (60 panels) with 27.6m<sup>2</sup> screen area up to model F5-18 (90 panels) with 41.4m<sup>2</sup> total screen surface area. HEX microscreen panels are available from 10 micron to 1000 micron, with a flow range capacity from 44 – 38,000 gpm (10 – 8732 m<sup>3</sup> /hr) of water in a single unit. Largest capacity range of any drum filter manufacturer on the market.

## HEX STANDARD FEATURES



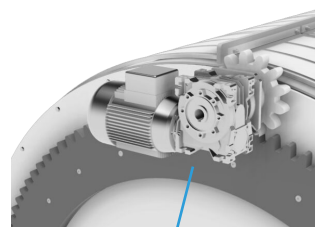
### X Series filters

featuring no metal panel straps and reinforced POM/PE plastic drum structure for better stability and corrosion resistance. Virtually non-metallic design with more open area for filtration.



### Patented HP HEX Panels

feature an optimized hexagonal cell structure that increases open surface area and improves hydraulic efficiency, delivering up to 20% greater filtration capacity in the same footprint. Even load distribution across the panel surface reduces stress on the filter cloth, minimizing tearing and ensuring long-term structural integrity.



### Direct Drive Gear Wheel (DDGW) Drive System

uses composite, long-lasting gear wheels, which require zero lubrication maintenance to provide reliable, smooth, energy-efficient operation. No more oil baths, rusty chains, or chains that can break!



### Click-In® Panel System

enables completely tool-less panel replacement with a secure snap-in design. No fasteners, no tools, and no loose hardware “no nuts to drop.”

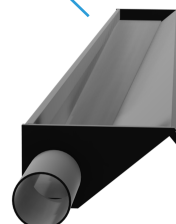


### Submerged Support Wheel System

utilizes a full-length support design with multiple wheel sets to evenly spread load and reduce long-term wear. Process-water-lubricated ceramic bearings eliminate any need for grease or scheduled lubrication, resulting in less overall maintenance and reduced downtime.

### Easy-Access Dual-Sloping Sludge Trough

allows direct inspection and servicing without removing filter panels, improving accessibility and reducing maintenance downtime while maintaining efficient solids conveyance and system hygiene.



## HEX OPTIONS

- **Internal High Flow Bypass:** Standard tank-type (T) units have a full-flow internal bypass with outlet control weir included. Larger tank versions are available with high-capacity internal bypass (LT, XLT). Available with tank models to minimize plumbing installation.
- **Upgraded Hardware Package** for improved corrosion resistance in warm saltwater applications. 316 stainless steel hardware is standard. Titanium hardware upgrade is available for improved corrosion resistance in warm saltwater applications.
- **Inlet & Outlet:** Standard is piped or open inlet. Upgrade to ANSI flanged connections up to 36" or docking station.



## INTEGRATED™ Drum Filter Control

DFC Systems from IAS are completely integrated modular systems with all equipment required to operate a drum filter. DFC Systems are pre-wired, pre-plumbed and skid mounted on non-corrosive FRP bases. Systems include properly sized rinse pump, drum controller, motor controls, plumbing and single point of electrical connection box (EPOC).

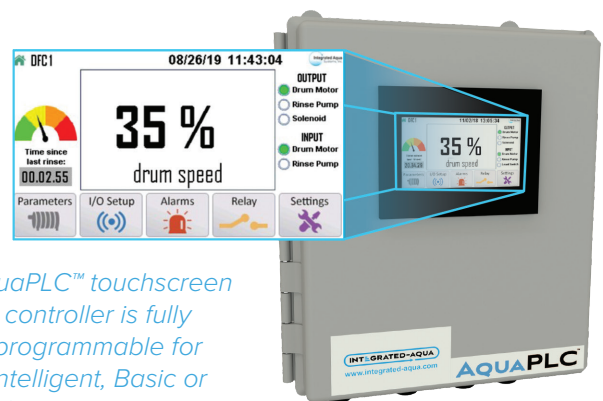


### AQUAPLC™ Intelligent Controller:

AquaPLC™ exclusively available from IAS, is the most advanced drum filter controller on the market designed to operate drum filters at their maximum efficiency. With AquaPLC™ drum filters are able to respond dynamically to changes in TSS levels resulting in backwash water savings up to 50%, finer particle capture, significant energy savings and less wear and tear on equipment.

### Basic Drum Filter Controller (BDFC):

For less sensitive applications, IAS offers the BDFC. Pre-wired in a NEMA4X panel with built-in manual timers and motor controls, the BDFC is a great economical option for drum filter control.



*AquaPLC™ touchscreen controller is fully programmable for Intelligent, Basic or Continuous drum operation.*

### AquaPLC™ Features:

- NEMA 4X Enclosure with 4.3" touchscreen
- Multi-parameter display, digital HOA switches, datalogger, analog and digital inputs
- Includes ethernet adapter for remote communications
- Built-in handshake protocols with alarm notifications to notify operators in case of equipment failure.



# DRUM FILTER APPLICATIONS

Well over 1000 drum filters sold worldwide and over 200 HEX drum filters sold by IAS across North America, HEX is a leader in the manufacture of drum filters for a wide range of applications including:

**Aquaculture** - Recirculating systems (RAS), supply water filtration, effluent filtration, prefiltration, well boats, lice treatment barges and more.

**Aquaponics** - Fish effluent, RAS, supply water and effluent filtration

**Public Aquariums & Zoos** - Primary mechanical filtration for exhibits, backwash recovery, holding & quarantine systems, hippo exhibit filtration

**Commercial & Industrial** - Wetlands, wastewater



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