

AQUATIC ECO-SYSTEMS

COMMERCIAL FILTRATION SYSTEMS

The Pentair Aquatic Eco-Systems Commercial Filtration Systems provide complete filtration and circulation for larger recirculating applications. These systems are available in a range of configurations with performance and specifications to suit the needs of many aquatic applications. All systems include pump, filter, UV sterilizer, chemical filter, valves and Schedule 80 PVC pipe. They come assembled, plumbed and pre-mounted on durable plastic skids for drop and go installations. Skids can be easily moved with a forklift or standard pallet jack. Systems ship via motor freight, FOB Orlando. One-year warranty.

PUMPS

All systems are available with pumps that are suitable for single-phase or three-phase electrical supply and offered in 50 hz or 60 hz electrical ratings, making them suitable for installation nearly anywhere in the world. Fresh and saltwater compatible.

CHOOSE BETWEEN TWO PUMP MODELS

- Sparus™ 160—These pumps offer extremely high water flow in a quiet, energy efficient package.
- Sparus with Constant Flow Technology™—Delivers a constant user-defined flow rate because the motor speed self-adjusts to maintain the constant flow setting even as system conditions change. Note: Flow rate setting not to exceed system designed flow rate.

FILTERS

Commercial Filtration Systems are supplied with your choice of bag, cartridge or sand filters. These filters have been specifically sized to match the requirements of the system and the flow rate of the pump. All systems include chemical filters which remove contaminants and impurities from the water (media sold separately).

CHOOSE BETWEEN THREE FILTER OPTIONS

- Bag Filters—The polypropylene bag filter is designed to allow a high flow rate through a single reusable in-line bag filter (filter bags from 1 to 800 microns are sold separately).
- Cartridge Filters—The cartridge filter housing is constructed of fiberglass-reinforced polypropylene for improved strength and chemical resistance; pleated 20-micron cartridge included (replacement cartridges sold separately).
- Sand Filters—The sand filter housing is constructed of a one-piece, reinforced fiberglass shell for strength and durability (sand filter media sold separately).

APPLICATIONS:

- Public aquariums
- Multi-tank rack systems
- Retail holding systems
- Seafood holding systems
- Research systems
- Residential systems
- Aquaculture systems
- Koi ponds



Bag Filter System

UV STERILIZERS

The UV sterilizer component of the system reduces microorganisms through ultraviolet light. Each system features Pentair Aquatic Eco-Systems commercial-duty UV sterilizers that utilize ultraviolet light to effectively and efficiently inactivate potentially-harmful micro-organisms such as bacteria and algae. These UV units feature high-output (HO) T6-style lamps for a higher wattage in a shorter lamp. The UV dose is sized to be over 30,000 $\mu\text{W}/\text{cm}^2$ at full system flow. Replacement lamps sold separately.

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PLUMBING

Systems are plumbed with Schedule 80 PVC pipe. All valves are true union Asahi ball or 3-way valves plumbed throughout the system for easy service and disassembly. All filters and UV sterilizers have bypass lines to facilitate filter or lamp replacement.



Cartridge Filter System



Sand Filter System

| | SPARUS PUMP W/CFT 230V 50/60HZ 1PH TEFC | SPARUS PUMP 60HZ 1PH 115/208-230V TEFC | SPARUS PUMP 60HZ 3PH 208-230/460V TEFC | SPARUS PUMP 50HZ 1PH 220-240V TEFC | SPARUS PUMP 50HZ 3PH 380-420V TEFC |
|----------------------------------|--|---|---|---------------------------------------|---------------------------------------|
| COMMERCIAL FILTRATION SYSTEM | MODEL | MODEL | MODEL | MODEL | MODEL |
| 30 GPM/113 LPM/6.8 m³Hr | | | | | |
| BAG FILTER | 930019 | 930020 | 930021 | 930022 | 930023 |
| CARTRIDGE FILTER | 930024 | 930025 | 930026 | 930027 | 930028 |
| SAND FILTER | 930029 | 930030 | 930031 | 930032 | 930033 |
| 45 GPM/170 LPM/10.2 m³Hr | | | | | |
| BAG FILTER | 930034 | 930035 | 930036 | 930037 | 930038 |
| CARTRIDGE FILTER | 930039 | 930040 | 930041 | 930042 | 930043 |
| SAND FILTER | 930044 | 930045 | 930046 | 930047 | 930048 |
| 60 GPM/227 LPM/13.6 m³Hr | | | | | |
| BAG FILTER | 930049 | 930050 | 930051 | 930052 | 930053 |
| CARTRIDGE FILTER | 930054 | 930055 | 930056 | 930057 | 930058 |
| SAND FILTER | 930059 | 930060 | 930061 | 930062 | 930063 |
| 100 GPM/378 LPM/22.7 m³Hr | | | | | |
| BAG FILTER | 930064 | 930065* | 930066 | — | — |
| CARTRIDGE FILTER | 930067 | 930068* | 930069 | — | — |
| SAND FILTER | 930070 | 930071* | 930072 | — | — |

* 208-230V 60HZ 1PH TEFC.

All models come assembled, plumbed and permanently pre-mounted on a single 40" x 48" plastic skid, except for models 930070, 930071, 930072 which utilize two skids.



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2395 APOPKA BLVD., APOPKA, FL 32703 407.886.3939 PentairAES.com

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| Commercial Filtration System Model | Included Chemical Filter Item Number | Chemical Filter Dry Capacity (lbs)** |
|------------------------------------|--------------------------------------|--------------------------------------|
| 30 GPM/113 LPM/6.8 m³Hr | FCB75H | 12 |
| 45 GPM/170 LPM/10.2 m³Hr | FCB100H | 17.5 |
| 60 GPM/227 LPM/13.6 m³Hr | FCB200H | 26 |
| 100 GPM/378 LPM/22.7 m³Hr | FCB200H (x 2) | 52 |

** Capacities listed are based on dry weight using Proline®

Activated Carbon. Please visit PentairAES.com or contact a representative to order your filter media.