

Biofiltration

System 10000 Freshwater

A complete, compact, plug and play recirculation filtration system [RAS] for use in freshwater applications. Ideally suited for hatcheries, research facilities, retail shops, as well as public aquaria displays and quarantine systems.

- Space saving design incorporating mechanical, biological and UV filtration.
- Double reservoir design and double bag filter system for enhanced mechanical filtration.
- Water flow to the livestock tanks supplied via a Twin double pass UV for effective sterilisation.
- Manufactured from high quality polypropylene, PVC and acrylic components, suitable for marine environments.
- Robust, double walled and fully insulated reservoirs.
- Can be re-assembled in a matter of hours without any specialist tools.
- Manufactured in the UK.

Included

- 2 x 605 litre Pallet Reservoir
- 2 x Mechanical bag filter units supplied with 200 and 100 micron filter bags
- FST5280 Compact Fluidised Sand Tower
- 2 x TBT5300 Re-gassing/Trickling Bio-Tower
- 880W Twin UV Steriliser
- AV150 Filtration pump

Available separately

- Livestock supply pump
- Heater with digital thermostat
- UV Bypass
- Additional pressurised mechanical filtration
- Additional reservoir
- Pipe and fittings



Dimensions

- A 2800mm
- B 3100mm
- C 750mm

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Typical Filtration Capacity of System 10000 Freshwater at 26°C

Comparable livestock holding applications			Total tank volume*	Stocking density	Maximum stocking capacity
Ornamentals	Research	Aquaculture			
Display	Larval	Incubation	40m ³	<1kg/m ³	40kg
Retail	Juvenile	Hatchery	24m ³	1-2kg/m ³	48kg
Wholesale	Adult	Broodstock	10m ³	3-5kg/m ³	50kg
	Wet Lab	Nursery	8m ³	6-9kg/m ³	64kg
		Grow out	5m ³	10-20kg/m ³	100kg

These figures are an approximate overview of the filtration capacity of a standard System 10000 Freshwater. All Calculations based on a feed rate of 2% body weight/day with a 50% protein content.

If the temperature goes down to 19°C the capacity decreases by 10%. [$>14^{\circ}\text{C} : 20\% > 10^{\circ}\text{C} : 30\% > 6^{\circ}\text{C} : 40\%$]

* Please note the UV steriliser supplied with the System 10000 Freshwater is a P8TWIN 880W Unit (16x 55w lamps) and suitable for the following flow rates:

Max flow @30,000uWsec/cm² = 32m³/hr

Max flow @15,000uWsec/cm² = 64m³/hr

Larger/smaller UVS can be supplied to suit the flow rate/turnover rate required.

Code	Grp	Product	Optimum system volume at application level 3 [L]	Optimum BioMass at application level 3 for Tropical species	Main Material of Filtration Element Construction	Approx Total Current Draw [A]	Approx Shipping Weight [kg]
7973	FI	System 10000P Freshwater	10000	50-100	Polypropylene	7.72	1200

- Freshwater and Marine versions available
- Smaller and larger complete filtration systems available, as well as fully customised solutions



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