

Biofiltration

System 5000 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.

- Small space saving design incorporating mechanical, biological and UV filtration, as well as an in line media reactor [suitable for use with media such as carbon].
- New energy saving design, with the entire filtration system being run off a single pump.
- Water flow to the livestock tanks supplied via a 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 reservoir.
- Can be re-assembled in a matter of hours without any specialist tools.
- Manufactured in the UK.

Included

605 litre pallet reservoir
 Mechanical bag filter unit supplied with 100 micron filter bags
 FST 5200 Fluidised Sand Filter
 TBT 5300 Re-gassing/Trickling Bio-Tower
 In-Line Media Reactor
 440W UV Steriliser
 AV75 Filtration pump

Available separately

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



Dimensions

- A 2350mm
- B 1000mm
- C 1200mm
- D 750mm

System 5000 Freshwater

Typical Filtration Capacity of System 5000 Freshwater Marine at 26°C

Comparable livestock holding applications			Total tank volume*	Stocking density	Maximum stocking capacity
Ornamentals	Research	Aquaculture			
Display	Larval	Incubation	20m ³	<1kg/m ³	20kg
Retail		Hatchery	12m ³	1-2kg/m ³	24kg
Wholesale	Adult	Broodstock	5m ³	3-5kg/m ³	25kg
	Wet Lab	Nursery	4m ³	6-9kg/m ³	32kg
		Grow out	2.5m ³	10-20kg/m ³	50kg

These figures are an approximate overview of the filtration capacity of a standard System 5000 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 5000 Freshwater is a P8 440W Unit (8x 55w lamps) and suitable for the following flow rates:

Max flow @30,000uWsec/cm² = 16m³/hr

Max flow @15,000uWsec/cm² = 32m³/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]
7962	FI	System 5000P Freshwater	5000	25-50	Polypropylene	3.72	On Application

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



UK
Solesbridge Lane
Chorleywood
Hertfordshire
WD3 5SX
London

Call +44 01923 284151

Iberia
Rua Cidade de Paris 6
Parque Industrial do Arneiro
2660-456 São Julião do Tojal
Portugal

Call +351 219 739 140

biosystems-tmc.co.uk

info@biosystems-tmc.co.uk

