

# Biofiltration

## System 5000 Marine

A complete, compact, plug and play recirculation filtration system (RAS) for use in saltwater applications. Ideally suited for hatcheries, research facilities, retail shops, shellfish holding systems, as well as public aquaria displays and quarantine systems.

- Small space saving design incorporating mechanical, biological and UV filtration, as well as a high-performance venturi driven protein skimmer.
- 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
- PSW 5300 Protein Skimmer incl. internal and external wash kits
- 440W UV Steriliser
- AV150 Filtration pump

### Available separately

- Livestock supply pump
- Automatic wash down kits for the Protein Skimmer
- Ozone Generator with Redox Controller
- Ozone Monitor
- Heater with digital thermostat
- UV Bypass
- Additional pressurised mechanical filtration
- Additional reservoir
- Pipe and fittings



### Dimensions

- A 2500mm
- B 1000mm
- C 1200mm
- D 750mm

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

Comparable livestock holding applications			Total tank volume*	Stocking density	Maximum stocking capacity
<b>Ornamentals</b>	<b>Research</b>	<b>Aquaculture</b>			
Display	Larval	Incubation	20m <sup>3</sup>	<1kg/m <sup>3</sup>	20kg
Retail	Juvenile	Hatchery	12m <sup>3</sup>	1-2kg/m <sup>3</sup>	24kg
Wholesale	Adult	Broodstock	5m <sup>3</sup>	3-5kg/m <sup>3</sup>	25kg
	Wet Lab	Nursery	4m <sup>3</sup>	6-9kg/m <sup>3</sup>	32kg
		Grow out	2.5m <sup>3</sup>	10-20kg/m <sup>3</sup>	50kg
		Shellfish Holding		50kg/m <sup>3</sup>	500kg

These figures are an approximate overview of the filtration capacity of a standard System 5000.

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 is a TMC P8 440W Unit (8x 55w lamps)

and suitable for the following flow rates:

Max flow @30,000uWsec/cm<sup>2</sup> = 16m<sup>3</sup>/hr

Max flow @15,000uWsec/cm<sup>2</sup> = 32m<sup>3</sup>/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]
7952	FI	System 5000P Marine	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.



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