

# Biofiltration

## System 10000 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.

- Space saving design incorporating mechanical, biological and UV filtration, as well as a high-performance venturi driven protein skimmer.
- Double reservoir design for effective treatment of return water through the protein skimmer, 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
- PSW5500 Compact Protein Skimmer complete with AV75 venturi/supply pump and internal and external wash kits
- 880W Twin 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 2800mm
- B 3100mm
- C 750mm

## System 10000 Marine

### Typical Filtration Capacity of System 10000 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	40m <sup>3</sup>	<1kg/m <sup>3</sup>	40kg
Retail	Juvenile	Hatchery	24m <sup>3</sup>	1-2kg/m <sup>3</sup>	48kg
Wholesale	Adult	Broodstock	10m <sup>3</sup>	3-5kg/m <sup>3</sup>	50kg
	Wet Lab	Nursery	8m <sup>3</sup>	6-9kg/m <sup>3</sup>	64kg
		Grow out	5m <sup>3</sup>	10-20kg/m <sup>3</sup>	100kg
		Shellfish Holding		50kg/m <sup>3</sup>	1000kg

These figures are an approximate overview of the filtration capacity of a standard System 10000.

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°C : 20% > 10°C : 30% >6°C : 40%]

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

Max flow @30,000uWsec/cm<sup>2</sup> = 32m<sup>3</sup>/hr

Max flow @15,000uWsec/cm<sup>2</sup> = 64m<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)
7979	FI	System 10000P Marine	10000	50-100	Polypropylene	10.27	1500

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



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