

# Biofiltration

## System 1000

A complete, compact, plug and play recirculation filtration system [RAS] available in both saltwater and freshwater formats. Ideally suited for research facilities, retail shops, as well as small public aquaria displays and quarantine systems.

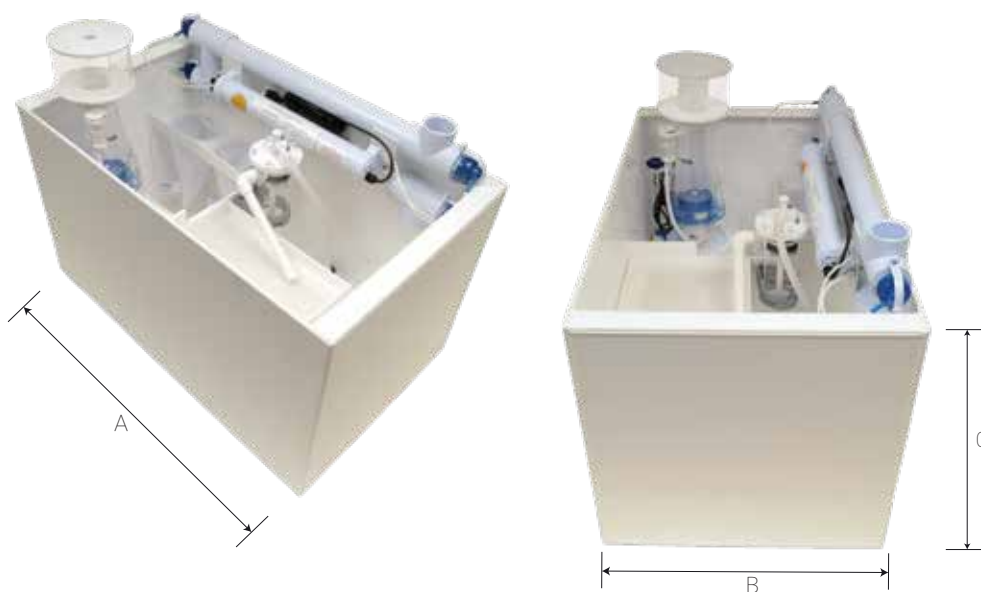
- Small space saving design, suitable for under tank installation [ideal for research facilities requiring multiple replicates, or retail shop fish racks and coral tables].
- Incorporates mechanical and biological filtration, as well as a commercial UV steriliser.
- Saltwater version uses a REEF-Skim Pro, with a variable flow low energy DC pump to enable optimum tuning of skimmer performance.
- 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.
- Simple assembly without the need for any specialist tools.
- Manufactured in the UK.

### Included

- 250 litre pallet reservoir.
- Mechanical Bag Filter unit. Supplied with 200 micron bags.
- REEF-Pump 2000 DC Pump.
- REEF-Filter Bio 1500.
- Re-gassing /Trickle bio-tower complete with 1" TMC Bio-rings.
- REEF-Skim PRO 1500 DC [saltwater version only].
- TMC Commercial UV Steriliser P2-110W.

### Available separately

- Livestock supply pump
- Ozone generator
- Heater
- Pipe and fittings



### Dimensions

- A 1000mm
- B 600mm
- C 650mm

## System 1000

### Typical Filtration Capacity of System 1000 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	2m <sup>3</sup>	<1kg/m <sup>3</sup>	2kg
Retail	Juvenile	Hatchery	1.2m <sup>3</sup>	1-2kg/m <sup>3</sup>	2.4kg
Wholesales	Adult	Broodstock	0.5m <sup>3</sup>	3-5kg/m <sup>3</sup>	2.5kg
	Wet Lab	Nursery	0.4m <sup>3</sup>	6-9kg/m <sup>3</sup>	3.2kg
		Grow out	0.25m <sup>3</sup>	10-20kg/m <sup>3</sup>	5kg
		Shellfish Holding		50kg/m <sup>3</sup>	50kg

These figures are an approximate overview of the filtration capacity of a standard System 1000.

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 this System 1000 is a TMC P2 [2x 55w lamps]

and suitable for the following flow rates:

Max flow @30,000uWsec/cm<sup>2</sup> = 4m<sup>3</sup>/hr

Max flow @15,000uWsec/cm<sup>2</sup> = 8m<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 (kg)	Main Material of Filtration Element Construction	Approx Total Current Draw (A)	Approx Shipping Weight (kg)
7960	FI	System 1000 Marine	1000	2.4	Polypropylene	1.27	On Application
7961	FI	System 1000 Freshwater	1000	2.4	Polypropylene	1.27	On Application



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