

# Biofiltration

## System 5000 MBBR Marine & Freshwater

A complete, compact, plug and play recirculation filtration system [RAS] for use in saltwater and freshwater applications.

Ideally suited for hatcheries, research facilities, retail shops, shellfish holding systems, as well as public aquaria displays and quarantine systems.

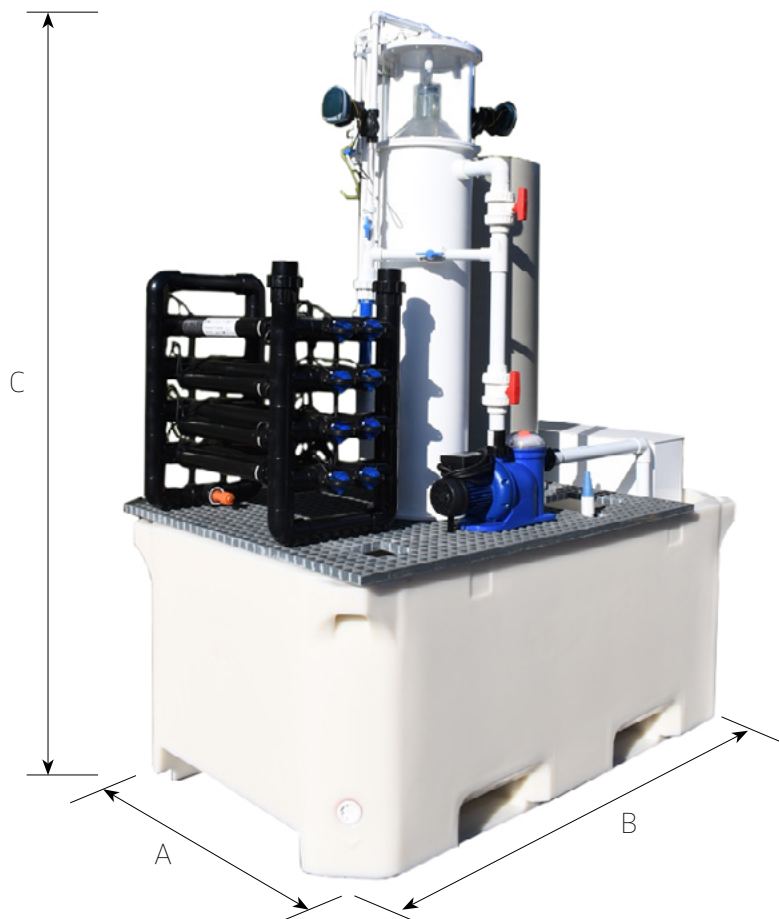
- Small space saving design incorporating mechanical, moving bed bio-reactor [MBBR] biological and UV filtration, as well as a high-performance venturi driven protein skimmer
- New energy saving design, with the entire filtration system being run off a single pump
- Water flow to the livestock tanks 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:**

- 1400L Pallet reservoir [Alternative 1000L reservoir]
- Mechanical bag filter unit supplied with 4 x 100 micron filter bags
- MBBR built into the reservoir with 300L of media
- LA120 Air Pump
- PSW5300P Protein Skimmer
- Titan P8 UV Steriliser 440w
- AG8 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**

	1000l	1400l
<b>A</b>	1200mm	1200mm
<b>B</b>	1500mm	2000mm
<b>C</b>	2500mm	2500mm

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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
Ornamentals	Research	Aquaculture			
Display	Larval	Incubation	20m <sup>3</sup>	<1Kg/m <sup>3</sup>	20Kg
Retails	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 19C the capacity decreases by 10%. [ $>14C : 20\% > 10C : 30\% > 6C : 40\%$ ]

\* 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	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]
T7959	System 5000 MBBR	5000	25-50	Polypropylene	1.2	250

- Smaller and larger complete filtration systems available, as well as fully customised solutions.



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