

Marine Recirculating Aquaculture System



Recirculating Aquaculture System 1,000 (264 US Gal)

A compact plug and play, 1,000L operating capacity, Recirculating Aquaculture System (RAS) for use in marine applications with a highly efficient UV system. The system has been designed with Tropical Marine Systems and has been modified to suit our Hatchery-in-a-Box product.

System 1000L Components

- 1 x 1,400L (3,698 US Gal) pallet reservoir, insulated core and skid-mounted
- 1 x mechanical bag filter unit. Supplied with 70 micron filter bags
- Fluidised sand filter complete with 20 kg of oolitic coral sand
- 2 x re-gassing/trickling bio-towers complete with 1" TMC Bio-Rings
- Compact protein skimmer with an ozone-ready venturi
- 1 x 440W titanium ultra-violet (UV) steriliser

Features

- Energy efficient with the system driven off a single pump
- Space saving modular design, with all components fitting within our containerised hatchery in a box
- The filtration system incorporates mechanical and biological filtration, a highly efficient venturi driven protein skimmer, photo-catalytically enhanced UV system and a titanium 3Kw heater with digital thermostat
- Manufactured in the UK using high quality polypropylene, PVC and acrylic components, suitable for marine applications
- Easy to assemble
- Recirculation rate of 36 tank volumes per day (a rate of 1.5 X the system column per hour), providing increased biofiltration, greater nitrification (bacterial contact) and reduced ammonia levels

System 1000L Components (continued)

- Filtration pump
- Heater (3Kw) with digital thermostat

*Includes all associated filtration pipe work, valves and fittings. Supply pump, pipe work to and drainage from livestock tanks is not included but are available separately and specified to your exact requirements

Available separately

- Titanium heater/chiller unit with digital thermostat
- Livestock/Bio supply pump
- Additional pressurised mechanical filtration to 1-10 micron
- Air blower (100L/hour)
- Ozone generator with redox controller and monitor (to verify your ORP levels)
- Customisable monitoring and alarming system with a range of water quality sensors and alarming options

Dimensions

- System 1,000: 2,100 mm (H) x 1,990 mm (L) x 1,170 mm (W) and 870 mm (height to top of sump/reservoir)
- System 500: 2,100mm (H) x 1,200 mm (L) x 1,000 mm (W) and 785 mm (height to top of sump/reservoir)

Product Number	Group	Product	Optimum system volume (L)	Main material of filtration equipment	Approx. Total Current Draw (A)	Approx. Shipping Weight (kg)
MR00002	Syst	1000 L Marine RAS	1000	Polypropylene	19.2	316
MR00001	Syst	500L Marine RAS	500	Polypropylene	19.2	194

Three phase systems and systems suitable for other power ratings and voltages including 110V are also available on request.

The 500L system comes with one re-gassing/trickling bio-tower and 14kg of filter sand.