

# Red Sea MAX<sup>®</sup>

Complete Plug & Play<sup>®</sup>  
Coral Reef Systems



## The MAX<sup>®</sup> Concept Complete Plug & Play Coral Reef Aquariums

The Red Sea MAX approach to the coral reef experience is to replicate a natural marine environment as faithfully as possible.

In the ocean coral reefs flourish only where specific physical conditions prevail, such as sufficient light, adequate current, stable temperature and water clarity. The Red Sea MAX provides a system that creates these conditions allowing you to keep a thriving, healthy reef aquarium in your own home.

MAX takes away the worry about retro-fitting equipment, guaranteeing complete compatibility of the coral reef spec components built in to the aquarium, allowing you to focus on enjoying the fish and corals within your own piece of thriving coral reef.

Behind MAX is the reassurance that the entire system has been designed by, and is fully supported by Red Sea, a market-leader in the development of coral reef systems, and accessories.

## Red Sea MAX<sup>®</sup> Creating Reef Conditions in your aquarium

The Red Sea MAX Reef-Spec is the result of years of research into the sustainable growth of all corals including the most delicate "SPS" corals in an artificial reef environment and forms the base specification in the design of all MAX complete coral reef systems.



# Red Sea Max®

## True Reef Specification for a successful reef



### REEF LIGHTING



Light is the primary energy source in all coral reef ecosystems, as it is utilized by photosynthetic organisms that provide up to 85% of the nutrition for most corals. The important parameters for light are the intensity and the spectrum or more specifically the PAR (photosynthetic active radiation).

Light intensity of 1 watt per liter (4 watts per gal) of water is ideal for all reef inhabitants especially when provided by high intensity T5 fluorescent tubes that can be positioned close to the water surface, providing a strong and even light throughout the entire aquarium.

The T5 Reef lighting contained within Red Sea Max aquariums has been designed to provide the ideal intensity, PAR and spectrum for even the most demanding coral species.

The combination of tubes has been carefully selected in order to enhance the natural vibrant colors of your corals and fish.

### REEF FILTRATION



Keeping the reef's delicate creatures in a closed system requires special attention to water quality, by maintaining parameters within the narrow range that supports life. Effective filtration systems are made up of a number of elements, each performing complimentary tasks.

The heart of the Red Sea Max filtration is the protein skimmer which removes the vast majority of the wastes produced by the aquarium inhabitants, as well as thoroughly oxygenating the water. Reef-Spec skimmers supplied within the Max will turn the aquarium water volume 3 times per hour and have a water:air ratio of 3:1.

This skimmer specification sets Max filtration apart from other systems, and is necessary in order to provide the water quality required by delicate SPS corals

### REEF CIRCULATION



Sufficient water movement is crucial for the well being of static coral reef species and helps maintain proper water quality parameters. Water flow provides the corals with the nutrients and minerals (e.g. calcium) necessary for growth as well as flushing away mucus and preventing stagnant areas where decomposing organic matter would otherwise accumulate.

Turbulence of the water surface is necessary to prevent the accumulation of a bio-film that reduces light penetration and efficient gas exchange.

Most corals that are suitable for reef aquariums come from shallow water with calm to moderate currents. A turnover of the total water volume of 10-15 times per hour is ideal, and every Max is supplied with the necessary pumps included, all housed discreetly within the design ensuring the beauty of the aquarium is not compromised.

# Red Sea MAX<sup>®</sup> Series 130/250

Complete Plug & Play<sup>®</sup> closed top, Coral Reef Systems



## Red Sea MAX<sup>®</sup> 130D

The 130 litre (34 gallon)  
all-in-one coral reef system

The 130D allows you to own your own flourishing mini reef. Despite its compact size, the 130D offers uncompromising quality and full reef-specification components, making it truly unique among similar sized systems.

The 130D has been purpose designed to support even the most delicate corals, and is ideal either as a first reef aquarium or for anyone looking to establish a thriving reef in a stylish, compact system.

The reef-spec features allow you to spend time focussing on the beauty of your corals and fish instead of worrying about the equipment.



### Max reef features:



#### 2X55W Power Compact Lamps (total 110W)

provides the 1 w/liter of reef spec lighting required for a coral reef aquarium



#### 400 lph (100 gal) water & 120 lph (32 gph) air flow

gives reef spec performance of 3x/hr flow and 3:1 water to air.



#### 1100 lph (292 gph) circulation

delivers the 10X circulation required for coral reef aquarium

Features of the Red Sea MAX 130D include:

- Twin circulation pumps providing 1100lph water flow
- 110w of full reef-spec, timer-controlled lighting, plus Moonlight led's
- Full sized Reef Spec Turbo skimmer providing optimum water quality
- Max Control system with one mains plug and no messy wiring
- High quality purpose-designed cabinet with durable weather resistant polyurethane paint giving an elegant finish.
- Available in Black and Pearl White
- Reefkeeping DVD and full reef care manual to guide you towards achieving the mini reef of your dreams

### MAX 130D Specifications

Dimensions (LxWxH)	610 x 500 x 605 mm (4 x 20 x 23.8")	Lighting- 10,000k	55W	Skimmer max Air flow	120 lph (32 gallon)
Total water volume	130 liters (34 gallons)	Lighting- Actinic	55W	Skimmer foam adjuster	✓
Aquarium volume	110 liters (29 gallons)	Lighting- Blue LED	4	Heater Wattage	150W
Filter volume	20 liters (5 gallons)	Lighting timer	Analogue	Mechanical filter	✓
Glass thickness	8 mm (0.3")	Hood opening	3 positions	Activated Carbon	200g (7 oz)
Cabinet (LxWxH)	610 x 500 x 800 mm (24 x 20 x 32")	Circulation Pumps	2 x 550 lph (2 x 146 gph)	Power centre	5 outlets
Lighting	2 x 55W T5 Power Compact	Skimmer water throughput	400 lph (100 gph)	Water Cooling Fans	✓ (external power supply)



## ■ Red Sea MAX<sup>®</sup> 250

The ultimate 250 litre (66 gallon) all-in-one coral reef system

Red Sea MAX 250 include:

- Twin circulation pumps providing 3600lph water flow
- 234w T5 of full reef-spec, timer-controlled lighting, plus Moonlight led's
- Full sized Reef Spec Turbo skimmer providing optimum water quality
- Max Control system with one mains plug and no messy wiring
- High quality purpose-designed cabinet with durable weather resistant polyurethane paint giving an elegant finish.
- Available in Black and Pearl White
- Reefkeeping DVD and full reef care manual to guide you towards achieving the mini reef of your dreams



### Max reef features:



**6X39W T5 high power lamps (total 234W)** provides the 1 w/liter of reef spec lighting required for a coral reef aquarium



**1000 lph (240 gph) water & 300 lph (80 gph) air flow** gives reef spec performance of 3x/hr flow and 3:1 water to air.



**3600 lph (960 gph) circulation** delivers the 15X circulation required for coral reef aquarium

### MAX 250 Specifications

Dimensions (LxWxH)	960 x 552 x 665 mm (38 x 21 x 26.2")	Lighting- 10,000k	117W	Skimmer max Air flow	300 lph (80 gallon)
Total water volume	250 liters (66 gallons)	Lighting- Actinic	117W	Skimmer foam adjuster	✓
Aquarium volume	227 liters (60 gallons)	Lighting- Blue LED	8	Heater Wattage	200W
Filter volume	23 liters (6 gallons)	Lighting timer	Analogue	Mechanical filter	✓
Glass thickness	10 mm (0.4")	Hood opening	3 positions	Activated Carbon	400g (14 oz)
Cabinet (LxWxH)	960 x 552 x 800 mm (38 x 21 x 32")	Circulation Pumps	1 x 1200 lph & 1 x 2400 lph (320 gph & 640 gph)	Power centre	5 outlets
Lighting	6 x 39W T5 Linear	Skimmer water throughput	1000 lph (240 gph)	Water Cooling Fans	✓ (dual fan unit)

# Red Sea MAX<sup>®</sup> S-Series 400/500/650

Ultimate Full Size Plug & Play<sup>®</sup> Coral Reef Systems



## Fully Featured Reef Aquariums Up to 650 Litres

Owning a thriving piece of coral reef has never been easier than with Red Sea's new MAX S-Series range of aquariums.

Carefully designed to support even the most delicate stony (SPS) corals, the MAX S-Series seamlessly integrates all of the necessary systems and components with contemporary style.

## Total Reefkeeping Solution

The Max S-Series is an innovative plug & play, complete, full size coral reef aquarium system. It is designed to allow you to focus on the beauty and diversity of your own piece of coral reef, rather than worrying about component selection, suitability and compatibility.

Max S-Series aquariums are fully equipped with everything you need including features such as ultra clear glass, reef spec lighting and filtration, customizable fascia and a one-plug control panel.

Choosing the Red Sea MAX S-Series will make reefkeeping easier than ever before.

## Customized systems

Make your Max S unique by choosing from a variety of six modern colours. The cabinet side panels and doors are attached to a marine spec aluminum frame and can be replaced at any time, allowing renovation or a complete colour change on a functioning aquarium. This feature combined with the replaceable trim on the light and aquarium adds an unprecedented level of longevity and flexibility.

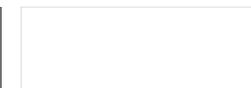
All external surfaces use weather resistant polyurethane paints (similar to those used in the car industry) giving an elegant and durable finish.



Black



Graphite - metallic



Pearl White



Ultra Marine - metallic



Merlot - metallic



Silver - metallic



## Sophisticated Lighting System

The unique MAX S-Series slide & swivel lighting system consists of three individually switched lighting units.

The identical front and rear 4 x T5 units are hinged to the lighting chassis that slides across the top of the aquarium providing total access for all maintenance and reefscaping tasks.

The centre unit has an additional 2 x T5 lights and LED moonlights. Additional configurations for the centre unit will be available in the future. Changeable front and side colour trim panels match the aquarium and cabinet. A dual timer lighting controller is included as part of the complete system controller in the cabinet.



Normal Operation

Feeding and easy maintenance

Tank setup and aquascaping

## Elegance and durability combined

MAX S-Series aquariums are constructed from 12 - 15mm ultra clear (low iron) glass supported by saltwater resistant plastics and a marine spec anodized aluminum frame. Designed for simple home assembly, all of the glueing, sawing and wiring has already been done for you.

The saltwater-resistant colour trim around the top and bottom of the aquarium is long-lasting and can be replaced at any time should a different colour scheme be preferred.



MAX S-400

MAX S-500

MAX S-650

## Total Reef Filtration

The complete reef filtration system starts with the surface skimmer that feeds the water to the in-cabinet sump via a flow-regulated, silent flow downpipe. The filtered water is returned to the aquarium by a main system pump that also supplies water to all of the filtration systems such as the protein skimmer, an optional chiller and/or reactors.

Connection between the aquarium and sump is via standard union connectors so no plumbing is required.

The MAX S-System is supplied with the main system pump, C-Skim 1800 protein skimmer, mechanical and carbon filtration media and all piping including preparation to connect a chiller and auxiliary reactors.

## Integrated Power Centre

The MAX S-Series filtration system follows the one-plug MAX concept and features a power control centre with easy access to 10 individually switched power sockets for all pumps, and other accessories, safety protected with integrated circuit breakers.



# MAX S-Series Specifications

		MAX S Model		
Specification		400	500	650
System water volume	Combined aquarium and sump	400 L (110 gal)	500 L (135 gal)	650 L (175 gal)
Aquarium volume	Display tank with rear circulation pump chamber	350 L (97 gal)	440 L (119 gal)	560 L (150 gal)
Filtration sump volume	Glass sump with preparation for auxiliary reactors or refugium	50 L (13 gal)	60 L (16 gal)	90 L (25 gal)
Aquarium glass thickness	Ultra clear front and side panels	12 mm (1/2")	12 mm (1/2")	15 mm ( 5/8")
Surface skimmer	Built in surface skimmer on full width of aquarium	✓	✓	✓
Lighting system	3 individually operated units on a slide & swivel chassis for easy reefscaping	✓	✓	✓
Lighting – standard configuration	T5 REEF-SPEC fluorescent 5 X 15,000K / 3 X Actinic (22,000K) / 2 X Pink + LED moonlights	390W	540W	800W
Lighting control	2 x timers for staggered on/off	✓	✓	✓
Total circulation l/h (gph)	Sump return + hidden individual 2,150 l/h (570 gph) circulation pumps	7800 (2000)	9500 (2500)	13600 (3600)
Main system pump l/h (gph)	Sump return + feed to skimmer / chiller / reactors	7000 (1850)	7000 (1850)	7000 (1850)
Protein skimmer - C-Skim 1800	800 l/h (210 gph) air flow – 1800 l/h (480 gph) water flow (PSK aspirator)	✓	✓	✓
Integrated power center	10 individually switched sockets for pumps and accessories	✓	✓	✓
Integrated water top up system	Easy-access storage tank with in-sump float valve	22 L (6 gal)	29 L (7.5 gal)	38 L (10 gal)
Mechanical filtration	Low density sponge filter media	✓	✓	✓
Chemical filtration	600g (20 oz.) high grade phosphate-free activated carbon	✓	✓	✓
Cabinet frame	Marine spec anodized aluminum profile	✓	✓	✓
Cabinet external	Weatherproof Polyurethane painted MDF doors & panels	✓	✓	✓
Cabinet Internal	Waterproof sump compartment, dedicated chiller compartment	✓	✓	✓
External dimensions (cm)	Height: 168, Width: 70, Length (according to model):	105 cm	129 cm	161 cm
External dimensions (inch)	Height: 66", Width: 28", Length (according to model):	42"	51"	64"



Manufacturer reserves the right to change the specification without notice



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