

Red Sea
MAX[®] NANO G2 XXL
Complete Plug & Play[®] Open Top Reef System

Installation and Operation Manual

ENG



Extend Your Peace of Mind

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MAX NANO G2 systems come with a standard 3-year warranty*, worldwide. In selected markets, you can register your new system within 90 days of purchase and receive 2 more years of warranty (5y total) for no extra charge! **

* The warranty covers the glass aquarium and the cabinet (where applicable). It is available to original owners only, subject to providing proof of purchase (T&Cs apply).

** The extended warranty is available in Australia, Austria, Belgium, Canada, France, Germany, Ireland, Japan, Netherlands, Poland, Taiwan, UK and USA.

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MAX® NANO G2 XXL Installation & Operation Manual

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Congratulations on your purchase of the Red Sea MAX® NANO G2 XXL complete reef system.

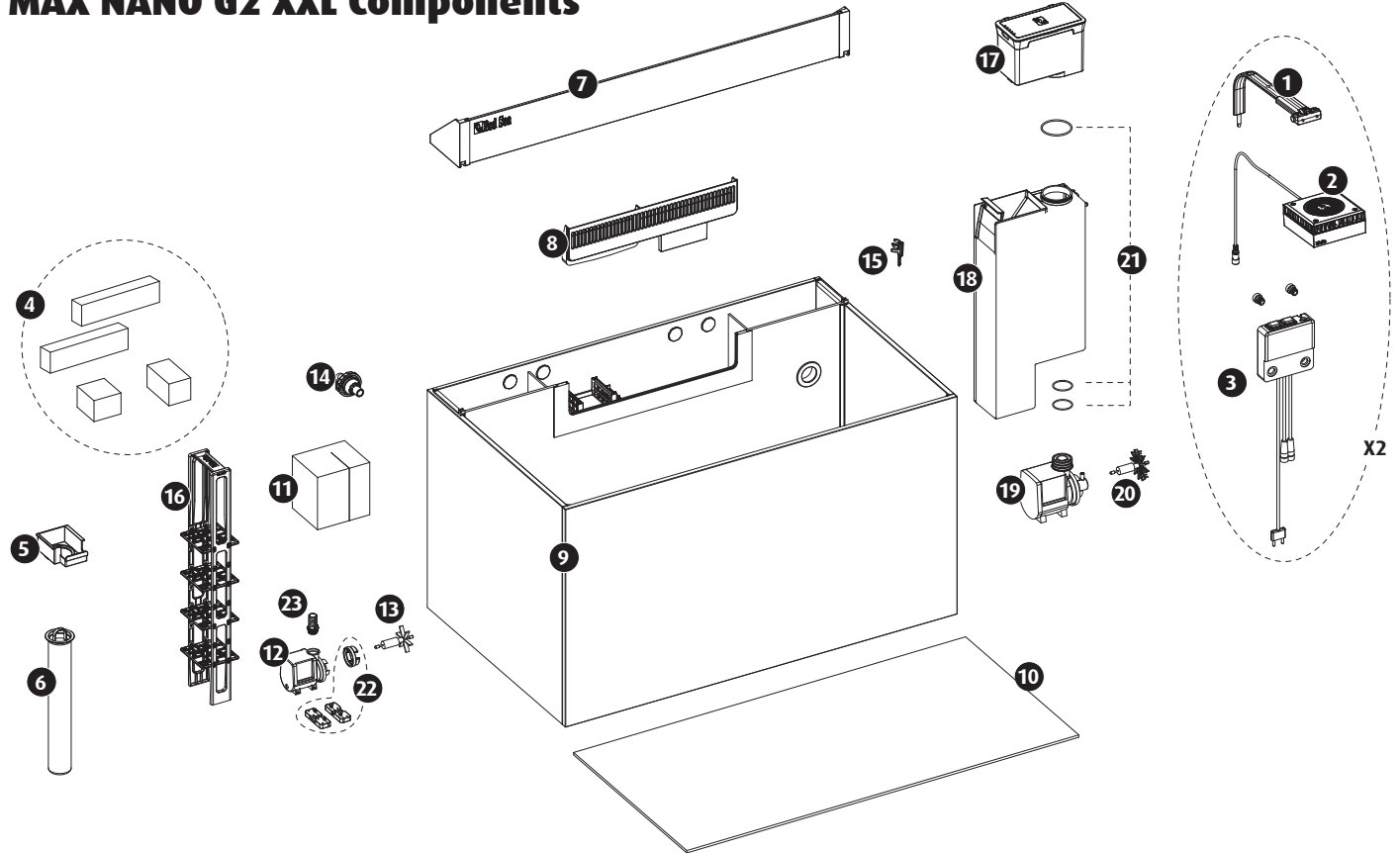
The Red Sea MAX® approach to the coral reef experience is to create an environment that is specifically attuned to the needs of coral and all inhabitants on an artificial reef. In the ocean coral reefs flourish only where specific physical conditions prevail, such as sufficient light, adequate current, stable temperature and water quality.

The Red Sea MAX® system provides the conditions that enable you to keep a thriving, healthy reef in your own home.

We hope that you enjoy your MAX® and wish you happy reefing.

To benefit from product update information and special offers exclusive to registered MAX® owners, please register your MAX® on-line at redseafish.com

MAX NANO G2 XXL Components



	Component	MAX NANO G2 XXL
1	ReefLED 50 Mounting Arm	R40600
2	ReefLED	ReefLED 50
3	Switch box	R40588
4	Skimmer & comb outlet sponges	R40631
5	Filter bag holder	R40623
6	Micron Filter Bag	R40580 (225 micron)
		R40581 (100 micron)
7	Sump Screen	R40627
8	Surface Skimmer Comb	R40628
9	Glass Aquarium	R40629
10	EVA mat	R40633
11	Circulation Pump bubble trap	R40630
12	Circulation Pump	R40608-V2

	Component	MAX NANO G2 XXL
13	Impellor RS Flow	R50402
14	Pump outlet nozzle	R40590
15	ReefATO+ sensor clip	R40621
16	Media Rack	R40503
17	MAX NANO XXL Skimmer cup	R40538
18	MAX NANO XXL Skimmer body	R40634
19	MAX NANO XXL Skimmer Pump	R40632
20	Impellor NANO Skimmer	
21	MAX NANO Skimmer O-Ring Set	R40579
22	Circulation Pump feet & inlet	R40620
23	Circulation Pump hosebarb	R40625

1 Safety

Please read and follow all safety instructions.

DANGER: To avoid possible electric shock, special care should be taken when handling a wet aquarium. For each of the following situations, do not attempt repairs yourself; return the appliance to an authorized service facility for service or discard the appliance.

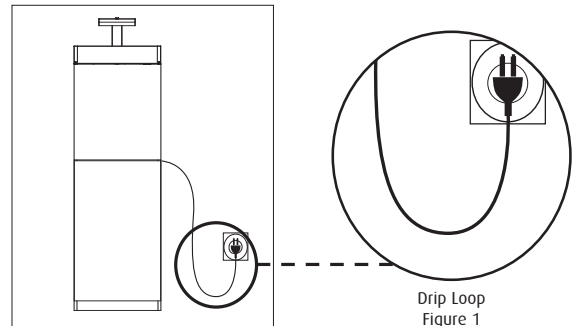
WARNING: To guard against injury, basic safety precautions should be observed, including the following:

- a. Do not operate any appliance if it has a damaged cord or plug, if it is malfunctioning, or if it is dropped or damaged in any manner. If the external cable is damaged, it shall only be replaced by the manufacturer.
- b. To avoid the possibility of the appliance plug or receptacle getting wet, position the aquarium stand and tank to one side of a wall mounted receptacle to prevent water from dripping onto the receptacle or plug. You should create a "drip loop" (Figure 1) for each cord connecting an aquarium appliance to a receptacle. The "drip loop" is that part of the cord below the level of the receptacle, or the connector. Use an extension cord, if necessary, to prevent water traveling along the cord and coming into contact with the receptacle. If the plug or receptacle does get wet, DO NOT unplug the cord. Disconnect the fuse or circuit breaker that supplies power to the appliance. Then unplug the device and examine for presence of water in the receptacle.
- c. To avoid injury, do not contact moving parts.

- d. Always unplug an appliance from an outlet when not in use, before putting on or taking off parts, and before cleaning. Never pull the cord itself to remove the plug from the outlet. Grasp the plug and pull to disconnect.
- e. Do not use an appliance for anything other than its intended use. The use of attachments not recommended or sold by the appliance manufacturer may cause an unsafe condition.
- f. Do not install or store the appliance where it will be exposed to the weather or to temperatures below freezing point.
- g. Make sure an appliance mounted on a tank is securely installed before operating it.

Read and observe all the important notices on the appliance.

NOTE: A cord rated for less amperes or watts than the appliance rating may overheat. Care should be taken to arrange the cord so that it cannot be tripped over or pulled accidentally.



2 Location

The first step in setting up the MAX® NANO G2 is to choose a suitable location.

Electric Supply

Ensure that the electric power supply outlet used for the MAX® NANO G2 XXL is correctly rated for the system (250W), plus whatever additional equipment (such as a heater) you plan on adding. The power supply outlet must be grounded and connected to a circuit protected by a RCD/RCCB (residual current device or residual current circuit breaker) also known as a GFI/GFCI (ground fault circuit interrupter).

Floor

The floor directly below the legs must be level and rated for a static loading of at least 14kg/cm² (200 lbs/square inch).

Room temperature

Site selection is important for correct temperature maintenance. We recommend that you keep the ambient room temperature a comfortable and stable 22°C / 72°F. Avoid placing the tank in front of an air conditioner, heating vents or direct sunlight. A well ventilated room with moderate light is the best place to position the aquarium.

Accessibility

- **Back:** Ensure that there is at least 10cm (4") of clearance behind the MAX® to allow for sufficient air circulation for a chiller and general ease of operation.
- **Sides (Rear):** Ensure that there is sufficient room (approximately 60cm/24") between both sides of the aquarium and any adjacent walls or furniture for access to the rear of the tank. This is required for the regular maintenance of the surface skimmer, protein skimmer, flow pump and filter media as well as installing/removing cables to the Pump Switch-box.

General considerations

Ensure that the area surrounding the aquarium is waterproof and consider moving away anything that water might damage or which may be corroded by salt.

3 Unpacking the MAX® NANO G2 XXL System

Please read this section carefully before proceeding.

1. Remove the protective packaging from around the top of the tank.
2. Remove the components and any packaging materials that are packed inside the aquarium.
3. Open the accessory box and remove all of the parts for later assembly.

Removing the aquarium

With one person positioned at either side of the box, grasp the upper rim of the aquarium and gently lift it out and place on the designated surface.

NOTE: Every precaution has been taken to ensure the safe arrival of the MAX® NANO G2 aquarium system, however before installing a new glass aquarium it is advisable to inspect it for damage or leaks.

Place the aquarium in a suitable location and fill the tank and rear sump to approximately 2.5cm (1") below the top of the glass. Leave the water standing for 15 minutes and inspect for leaks.

Syphon all of the water out before moving.

CAUTION: The aquarium has a bare glass bottom. Before removing the aquarium from the box prepare a smooth, soft, clean flat surface that can hold its weight and place the EVA mat on it.

Approximate weights of Aquarium (empty)

Model	Metric (kg)	Imperial (lb)
MAX NANO G2 XXL	65.2	144

4 Specification

MAX® NANO G2 system main components	MAX® NANO G2 XXL
MAX® NANO G2 type glass aquarium with integral rear sump	200L (53gal)
Rear Sump Protein Skimmer	Max NANO G2 XXL
Circulation pumps	2 x 1550lph (410 gph)
MAX® NANO G2 Cabinet (optional)	Self-assembly
Pump Switch-box	✓
Pump and Skimmer Switch-box	✓
ReefLED® 50	2 x 50W
Filter sponge	1
silencing sponge - skimmer side	1
silencing sponge - mechanical filter side	1
Carbon media with drawstring bag	100g
Rear Sump Screen	✓
Micron Filter Bag	✓
ReefATO+ Ready-Sensor Clip	✓
Circulation Pump bubble trap	X2
Pump outlet nozzle	X2

5 Assembly

Perform the assembly and installation of all of the components in the order described below before adding the water to the system.

NOTE: Left and Right designations in this manual are when looking from the front of the Aquarium.

5.1 Cabinet assembly

WARNING: If you are not experienced in the construction of self assembly furniture, seek suitably qualified assistance.

Detailed instructions for the assembly of the MAX[®] NANO G2 cabinet can be found in the accompanying graphic manual.

The assembly of the cabinet requires the use of a regular crosshead screwdriver. Do not use an electric screwdriver.

Adjustment of the Push-To-Open (PTO) door opening unit.

Pressing the end of the PTO unit by 1.5mm (1/16") will spring the shaft forward by 5cm (2") to the open position.

Pushing the PTO shaft back inside the cabinet will lock it in the closed position.

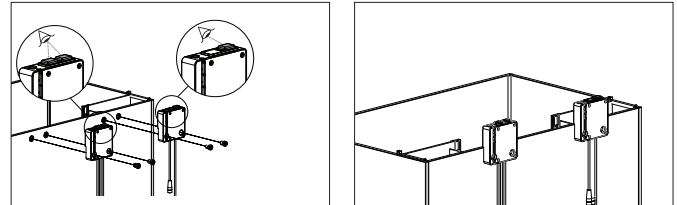
After assembling the cabinet door, make sure that the PTO is in the closed position and allow the soft close hinges to fully close the door. With the door in the closed position press the door in the region of the PTO. The door should spring open. If the door does not spring open adjust the position of the PTO by rotating the front end of the shaft anticlockwise half a turn. Repeat this adjustment until pressing the door causes the PTO to operate.

After assembly, place the cabinet in the desired location.

5.2 Pump Switch-boxes

Align the Pump Switch-box with the holes provided in the rear wall of the aquarium and fix into position with the screws provided. Do not attach the LED mounting arm or module at this time.

NOTE: Do not plug the Switch-box power cable to your power outlet until instructed to do so.



5.3 Placing Aquarium

Lifting the glass aquarium onto the cabinet will require 2 people. The top of the cabinet is approximately 86cm (34") from the floor. Ensure that anyone lifting the aquarium is physically suitable for such an operation and has been instructed in the correct methods of lifting heavy objects. Aquarium must be lifted from the bottom.

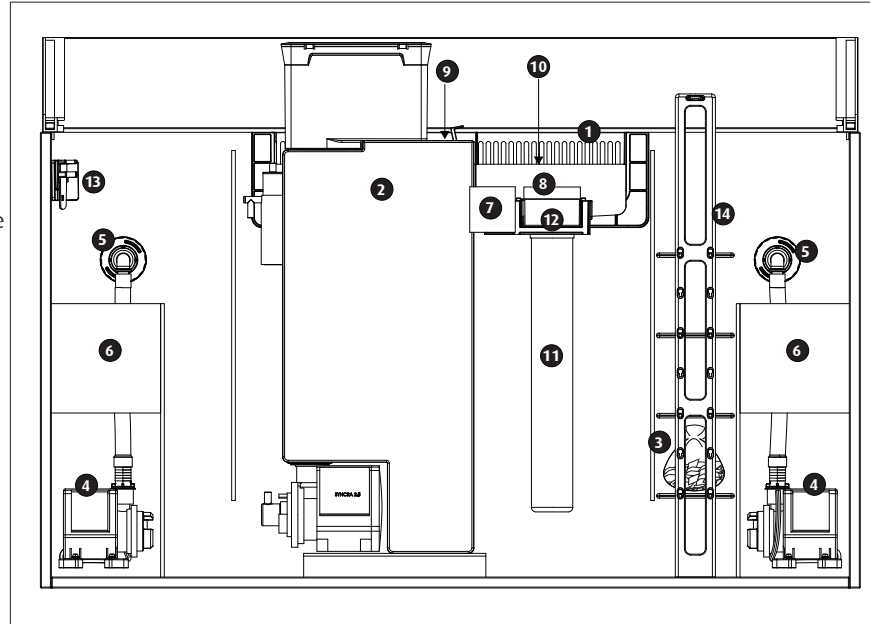
Place the EVA mat on the top of the cabinet or other surface that will be supporting the aquarium. The EVA mat is smaller than the aquarium. Place the glass flush with the back of the mat and 3mm (1/8") from each of the sides.

Before lifting aquarium, place the assembled cabinet in the final operating position (see location above) and set the glass aquarium in position on top. The back and sides of the glass should be flush with the rear and side edges of the top of the cabinet.

Once the aquarium is correctly aligned with the cabinet, check that the cabinet has not moved. If necessary readjust the position of the cabinet.

6 Installation of Rear Sump Components

1. Detachable Surface Skimmer
2. Protein Skimmer
3. Carbon
4. Circulation Pump
5. Pump Outlet Nozzle
6. Bubble trap sponge
7. Skimmer Outlet Sponge
8. Micron Filter Sponge
9. Silencing Sponge - Skimmer Side
10. Silencing Sponge - Mechanical filter side
11. Micron Filter Bag
12. Removeble Micron Filter Bag Holder
13. ReefATO+ Holder
14. Media Rack



MAX® NANO G2 XXL rear sump component assembly diagram

Overview of the MAX[®] NANO G2 filtration and circulation system

The MAX[®] NANO G2 rear sump has a complete multistage filtration system consisting of a REEF-SPEC[®] protein skimmer, activated carbon and mechanical filtration materials.

Water circulation in the aquarium and sump is approximately 10 times the entire water volume per hour with forced flow through the mechanical and chemical filter media while the protein skimmer treats the water at the SPS spec of approximately 3 times per hour.

The water flows from the aquarium to the rear sump via a detachable surface skimmer that directs the organics laden water from the upper surface of the main tank into the rear sump.

From the surface skimmer, approximately 50% of the water is immediately channeled through a micron filter bag before entering the skimmer chamber. If the filter bag is not cleaned frequently enough and becomes blocked, the water will bypass the micron filter without affecting the overall operation of the rear sump.

After the skimmer chamber the water is positively drawn through the REEF-SPEC[®] carbon and the bubble stripping sponge filter by the circulation pump located at the bottom of the sump, that returns the filtered water back to the aquarium through a multidirectional outlet nozzle. When the pumps are running, the water in the aquarium will be maintained at approximately 2.5cm (1") below the rim.

To maintain a constant water height in the system you should add RO water to the rear sump at least once a day. Ideally you should add an ATO system that will do this for you and prevent fluctuations in salinity performance. The rear sump has a mounting bracket for the ReefATO+ level sensor, set at the optimal height.

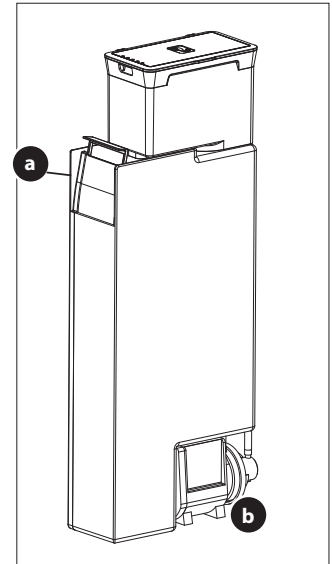
6.1 Protein Skimmer:

The MAX[®] NANO G2 protein skimmer consists of three parts: skimmer body, collection cup and skimmer pump.

Familiarize yourself with the skimmer pump by disassembling and reassembling all of the component parts. Ensure that the impeller chamber cover is correctly positioned and properly secured by the bayonet ring. Before use check that the pump and power cable are not damaged.

Diagram key :

- a. Skim adjuster
- b. Venturi inlet
- c. Air pipe
- d. Small air pipe

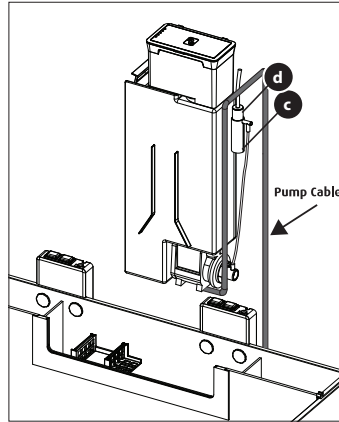


MSK 900 skimmer

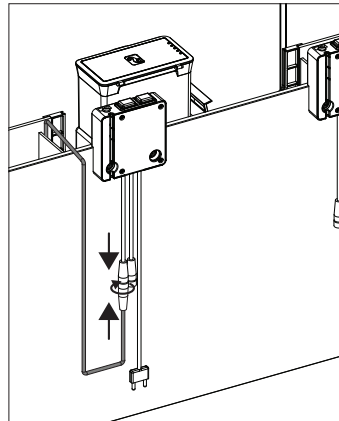
Assemble the skimmer as shown in the diagram.

1. Set the skim adjuster to its lowest position.
2. Connect the air pipe from the venturi inlet of the skimmer pump to the outlet of the silencer.
3. Connect the small air pipe on the inlet of the silencer.

4. An optional air valve is provided for use with the skimmer. Initially do not attach the air valve; it is only to be used if required as described in the operation instructions.
5. Hold the pump cable at the side of the skimmer, as shown in the diagram and slide the skimmer into the skimmer compartment so that the silencer just touches the glass partition.
6. Feed the cable over the back wall and connect to the left hand cable of the Pump Switch Box by tightening the connector nut.



NANO G2 skimmer

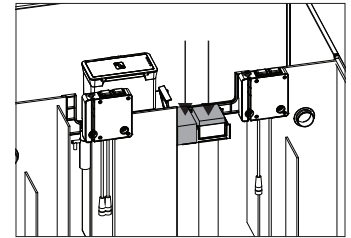
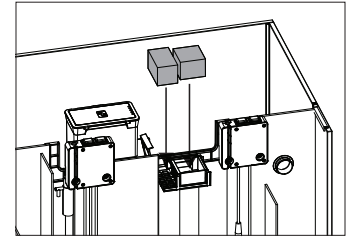


skimmer cable

6.2 Micron Filter:

Check that the Removeable Filter Bag Holder is correctly installed and that the micron filter bag is installed in the Filter Bag Holder.

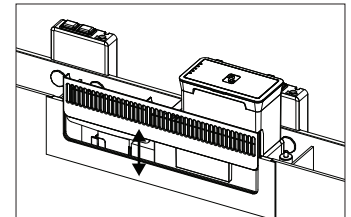
Place the black sponges onto the filter bag holder as shown in the diagram so that the sponge is also touching the side of the skimmer.



filter bag and sponge

6.3 Surface Skimmer:

The removable surface skimmer is supplied assembled in the correct position in the dividing wall between the tank and the rear sump. To remove the surface skimmer simply raise in the upward direction. Note the surface skimmer incorporates a channel that directs the water to the micron filter.



Surface Skimmer/comb

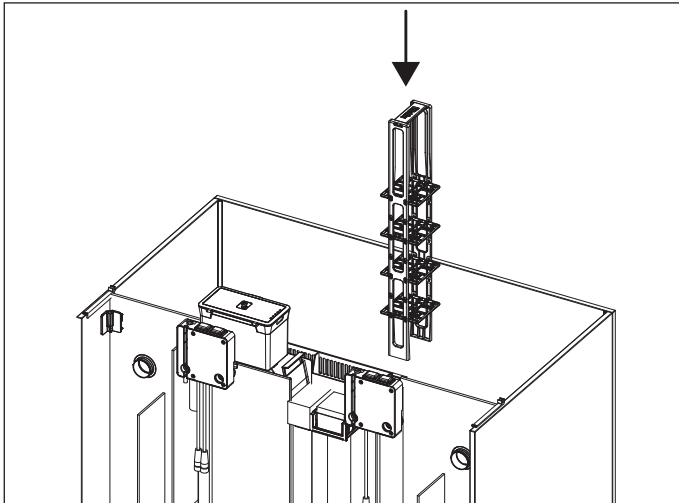
NOTE: The MAX® NANO G2 is supplied with a 225 Micron thin mesh filter bag (#40580). 100 micron fine polishing filter bags (#40581) are available from Red Sea dealers.

6.4 Optional silencing sponges

In the event that there is excessive water noise, silencing sponges can be added to one or both sections at the surface skimmer. To prevent an unwanted build of the particulate matter, this sponge should be rinsed once a week.

Media Rack:

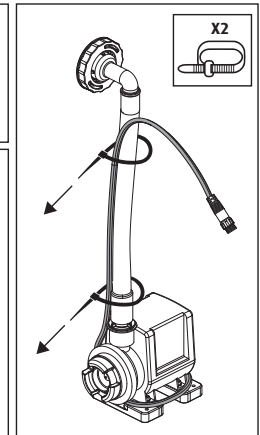
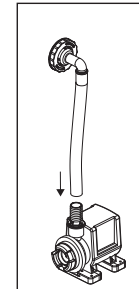
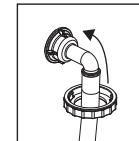
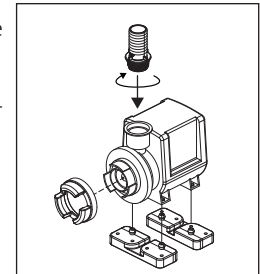
The media rack is supplied pre-assembled and placed in its normal operating position within the media compartment of the rear sump. Familiarize yourself with the media rack by removing and reinserting it to the media compartment.



6.5 Circulation Pumps:

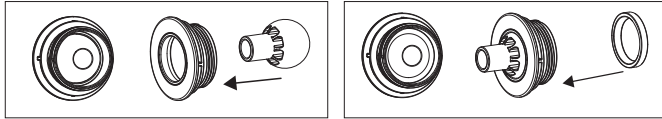
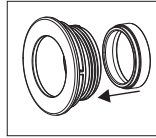
Familiarize yourself with the multidirectional outlet as shown in the drawing. Familiarize yourself with the circulation pump by disassembling and reassembling all of the component parts. Ensure that the impeller chamber cover is correctly positioned and properly secured by the bayonet ring and that the flow valve is in the fully open position. Screw the hose barb provided into the outlet of the pump.

1. Before use, check that the pump and power cable are not damaged.
2. Push the rubber feet inlet on the pump and screw the hose barb into the outlet.
3. Thread the outlet bayonet connector onto the flexible pipe and assemble the flexible pipe to the pump so that the outlet elbow is perpendicular to the pump as shown in the drawing.
4. Wrap the power cable around the pump as shown and attach to the flexible pipe with the cable ties provided.
5. Insert the Eyeball Seat into the Outlet Holder that is

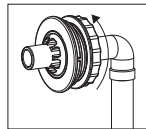
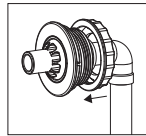


fixed into the glass. This part is a tight fit so that it will not float out during any pump maintenance but can be removed if necessary for cleaning.

6. Insert the Eyeball outlet followed by the seal into the Outlet Holder.

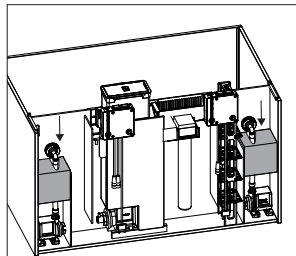


7. Lower the pump into the pump chamber until the Outlet Elbow with the Bayonet connector is opposite the Outlet Holder.
8. Screw the Bayonet to the Holder until firmly in position. Check that the Eyeball is free to rotate but held securely in the desired position. Initially adjust the nozzle to the downward position to prevent splashing when the pump is first switched on.



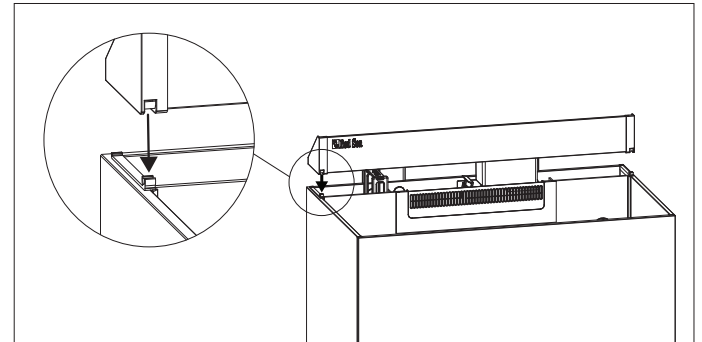
9. Feed the cable over the back wall and connect to the right hand cable of the Pump Switch Box by tightening the connector nut.

10. With the circulation pump secured in position, push the black filter sponge into the pump chamber so that the slit in the sponge is in line with the flexible pipe.



6.6 Sump Screen:

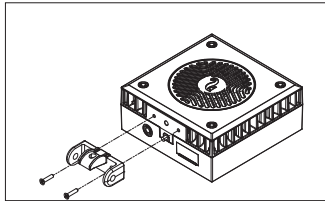
Position the sump screen above the front wall of the rear sump. Align the hinges above the clips on the top of the side walls and push firmly into position. Push the rear of the sump screen until it clicks into position. To rotate, pull the top of the screen forward until the screen lays flat on the top of the tank.



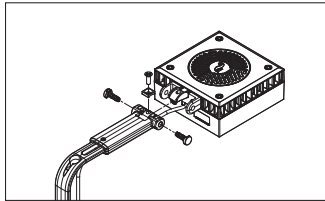
7 Installation of LED Modules

The ReefLED® 50 for the MAX® NANO G2 is attached to the mounting arm by a swivel joint. The mounting arm is attached to the aquarium by the hole provided for it in the top of the Pump Switch-box. The complete LED assembly can be rotated from side to side for ease of aquascaping and maintenance of the rear sump, specifically when removing the skimmer.

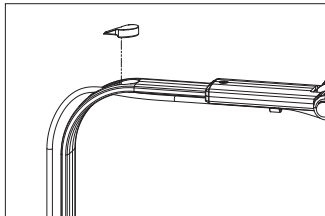
1. Using the M3 screws provided, attach the swivel connector as shown in the diagram



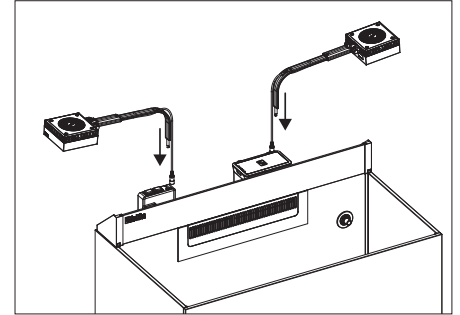
2. Push the swivel connector on the ReefLED onto the arm extension. Insert the connector pins to both sides and push until firmly in position. Screw the fixing screw into the top of the connector until the ReefLED is secure.



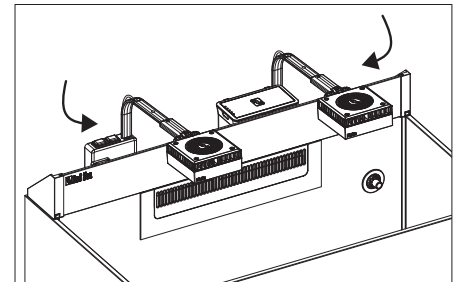
3. Thread the cable through the hole in the bend of the mounting arm and push the cable-hole plug into position.



4. To attach the LED mounting arm to the switchbox hold it so that the pin at the bottom of the arm is over the hole in the switchbox and the LED unit is facing sideways as shown in the diagram. Place the cable over the back of the aquarium.



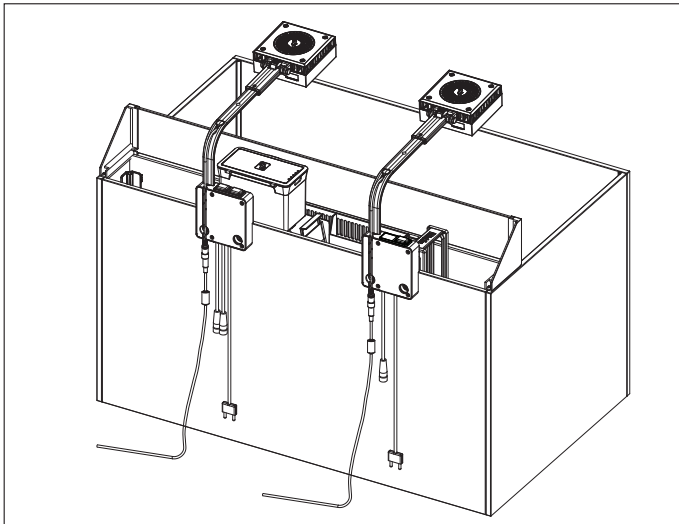
5. Lower the pin into the hole and when the flat part on the arm is resting on the Pump Switch Box, rotate the arm to the forward position.



Thread the cable through the recess provided in the back of the Pump Switch Box. Un-tighten the fixing screw on the top of the swivel connector. Adjust the position of the ReefLED until it is parallel with the top of the aquarium and re-tighten the fixing screw.

Find a suitable safe place to locate the power supply, such as in the cabinet.

Connect the DC connector from the LED unit to the power supply but do not plug the power supply into the wall outlet until you are ready to set up the LED unit.

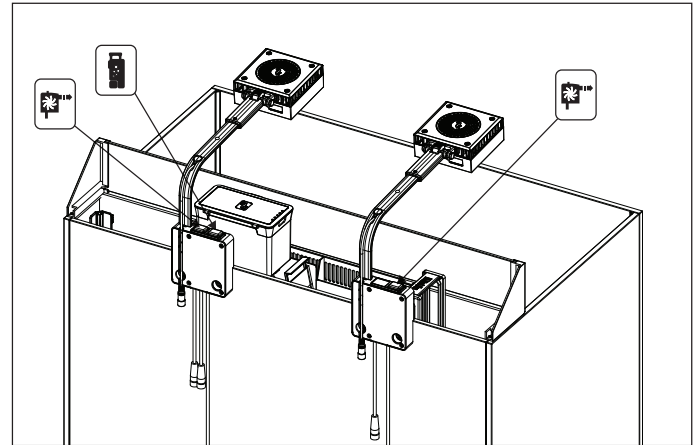


8 Operation of Pump Switch-box

The Pump Switch-box is designed to provide easy on/off control of the circulation and skimmer pumps during routine activities such as feeding or maintenance.

Ensure that the switches are in the off position and plug the power cable to the wall outlet. Do not switch the pumps on until both pumps are fully submerged in water.

The cable connectors are designed to prevent any ingress of water when used in the designed manner. The connectors are not waterproof and must not be immersed in water.



9 LED Set up and programming

To set up and program the ReefLED[®] 50 follow the instructions provided with the LED module:

Programming guidelines:

Photoperiod: Day/moonlight

The day photoperiod should be between 8 – 12 hours with no more than about 9 hours at maximum intensity. Corals and fish must have daily periods of darkness. Moonlight should be limited to a maximum period of about 4 hours.

Acclimation

To prevent photo-inhibition due to the high intensity of LED lights, an acclimation period is recommended for new systems or when introducing new corals.

Acclimation will vary for different kinds of corals however it is recommended to allow a period of 8 weeks for new set-ups.

During the acclimation period look for signs of photo stress and photo-inhibition such as:

- Whitening/Bleaching of the upper section of the tissue (the lower section will continue to show pigments and zooxanthellae).
- Polyps retraction.
- Gas bubbles inside the soft tissue.

In the event of any of the above symptoms immediately reduce the Acclimation intensity by 20% for about 4 weeks and thereafter increase by 5% per week until maximum intensity is reached.

When introducing new corals to already acclimated systems, start by positioning them at the lower levels of the aquarium and gradually raising them to their desired position over a period of several weeks. Keep watching for signs of photo inhibition/stress and if necessary return an affected coral to lower levels for recuperation.

10 Initial Fill

Follow the mixing instructions for mixing your artificial sea water. It is advisable to place any substrate or live rocks in the tank before adding the water as this will significantly affect the overall volume of water required.

Add the seawater to the main tank, rear sump and directly into the skimmer (to prevent it floating instead of filling with water) until the water is at the level of the circulation pump outlet nozzles. Turn on the skimmer pump and circulation pump and add more water to the system until the water level in the rear sump is approximately 10cm (4") below the rim of the aquarium.

NOTE: If you have mixed your saltwater for the initial fill inside the aquarium wait until the salt is fully dissolved and that the water has reached the desired salinity and temperature before trying to set the final water level.

11 Operation of the Protein Skimmer

Adjustment of the skimmer will be necessary from time to time due to the constant changes in density and organic material in the water.

The consistency of the foam produced by the protein skimmer is controlled by raising and lowering the Skim Adjuster.

The foam will be formed in the upper part of the skimmer body and will build and climb up the neck of the collection cup. Set the position of the Skim Adjuster so that the water level in the skimmer body is approximately at the base of the neck.

If the foam is too dry or it starts to accumulate lower in the neck, gradually raise the Skim Adjuster until the desired foam consistency is achieved. If the foam is too wet, lower the Skim Adjuster.

Over-Skimming

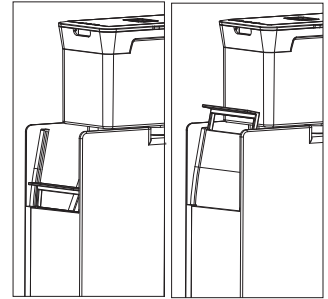
An uncontrollable flow of aerated water into the collection cup. In the event of over-skimming the excess water will flow back into the sump from the overflow slot located at the top of the collection cup.

To control the over-skimming make sure that the Skim Adjuster is set in its lowest position, add the air valve to the top of the air inlet pipe and reduce the air intake until the foam stabilizes. Continue controlling the skimmer by adjusting the air intake. When the skimmer is stable with the air valve fully open, remove the valve and control the skimmer with the Skim Adjuster.

New Skimmers or Set-ups

Skimmers only produce foam if the water contains the proteins that bind to the surface of the air bubbles and give the bubbles the structural rigidity they need to ascend the neck of the skimmer and settle in the collection cup. In a new aquarium set-up the bio-load is low and the amount of proteins is negligible.

New skimmers sometimes need a short break-in period of a few days before they begin to function efficiently. Over-skimming is common while harmless chemical residues that affect the surface tension of the water are neutralized.



Feeding and Supplementing

Skimmers are very susceptible to the effect of surface active compounds such as foods and supplements that are added regularly to the aquarium. Such materials can significantly affect the foam production and in some cases cause over-skimming. Immediately before adding such materials switch the skimmer off and leave off for 30 minutes or however long it takes until the skimmer will return to its normal foaming action without repositioning the Skim Adjuster.

Collection Cup

Monitor the amount of skimmate that accumulates in the collection cup and empty the cup on a regular basis. When emptying the cup, clean the inside of the neck by rinsing it with water, as the build-up of skimmate in the neck will adversely affect the skimmer performance. If you wash the cup with detergent make sure to rinse it thoroughly before returning it to the skimmer.

12 General Aquarium Maintenance

The long-term success and health of the inhabitants of your MAX® aquarium depends on you. Proper planning makes reef care easier to manage and quicker to perform. This will leave you more time for the real goal: enjoying your aquarium. Care of the tank should follow a regular, logical pattern. Divide the tasks into daily, weekly and monthly procedures, including equipment checks, feeding, water parameter testing and adjustments.

You may find it helpful to make a systematic checklist of care activities and keep a log of the activities performed. Your log does not need to be complicated; you will need to track the following:

- The tank's parameters – pH, salinity, temperature, etc.
- The general appearance of the tank and individual species.
- Equipment changes – when you changed light tubes or replaced heaters, etc.
- Replacement of carbon or other filter media.
- Information specific to each animal – when they were added, moved or removed, their approximate size, any signs of stress or ill health etc.

Water levels

Check the water level in the Rear Sump on a daily basis and add fresh water as required to compensate for any evaporation. It is recommended to ad an automatic top-up system like the ReefATO+ to matintain a constant salinity water volume. If the water in the aquarium is too high check that the surface skimmer is not blocked.

Surface Skimmer

Remove and clean the surface skimmer at least once a week to allow proper water flow and stable water level differentiation between the aquarium and the rear sump. Periodically soak in a weak acidic solution (vinegar, citric acid) until any calcium carbonate deposits have dissolved. Wash thoroughly before returning to the aquarium.

Protein skimmer

Check the foam production in the collection cup and reposition the Skim Adjuster or air flow as required to maintain a stable dry foam. Empty and clean the neck of the collection cup as required.

Pumps

Check that the circulation pump is working well and pointed in the right direction. If you notice any regression in currents, check the pump and the outlet nozzle for any obstructions (snails, crabs, carbon chips, etc.).

To ensure proper function of skimmer and circulation pump they should be cleaned on a regular basis.

To clean the pumps:

NOTE: Aquariums with higher levels of Calcium and Alkalinity will require more frequent maintenance.

- Switch the pump off at the Switch Box and disconnect the cable. and remove it from the aquarium.
- Remove the impeller housing and take out the impeller.
- Clean all of the parts, impeller housing, impeller and the impeller chamber of the motor by wiping with a soft cloth or brush. To remove calcium carbonate deposits soak the parts in a weak acidic solution (vinegar, citric acid) until deposits have dissolved.
- Rinse all parts thoroughly, reassemble the pump, ensuring that all pipes are connected securely and return to the aquarium before reconnecting the power cable to the electric supply.

NOTE: If the pump makes mechanical noise after cleaning, replace the impeller. The impeller is a wear item and may need to be replaced periodically.

Water temperature control

For optimum conditions a reef aquarium should be maintained at a stable water temperature in the range of 24-28°C / 76-82°F (the stability of the temperature being more important than the exact value). Slightly higher temperatures can be tolerated for short periods of time as long as the change in temperature is steady and not sudden. Monitor the temperature at least twice a day, looking for dramatic fluctuations.

Avoid temperature differences of more than 2°C / 7°F during the day. During season changes and when heating or cooling the house, monitor the tank temperature more frequently.

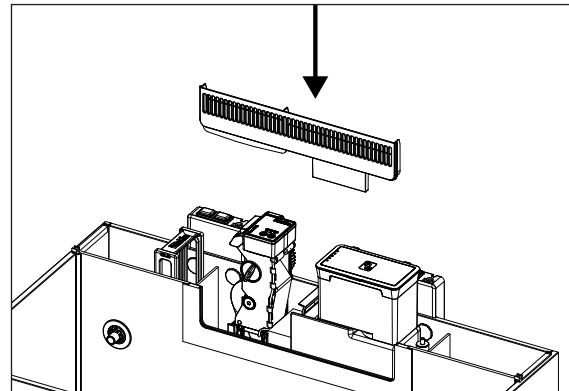
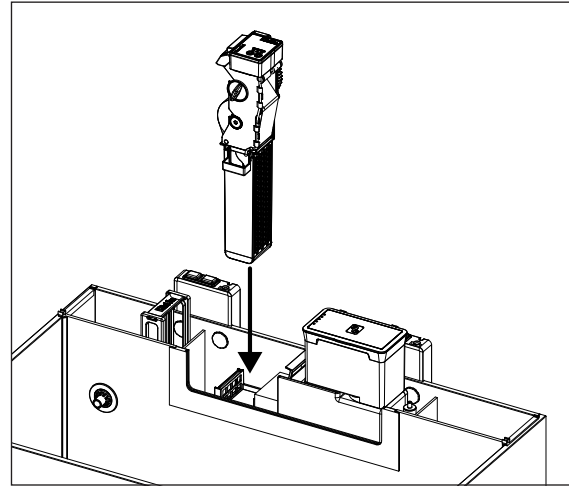
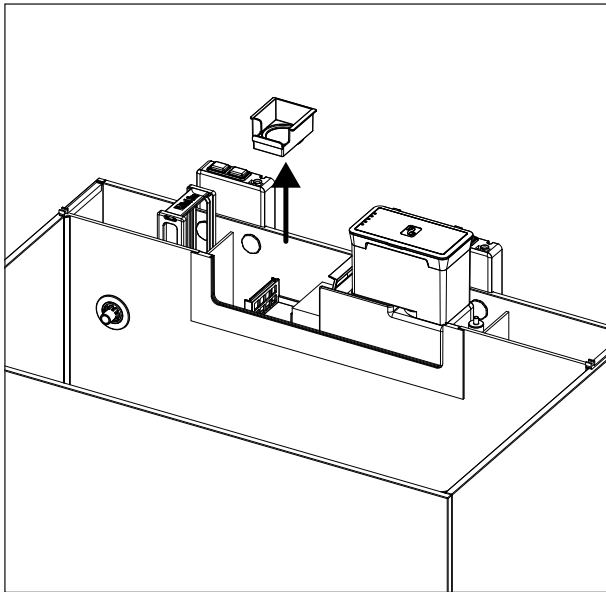
Change the carbon filter

Replace the active carbon filter every two months.

13 Adding Optional Devices

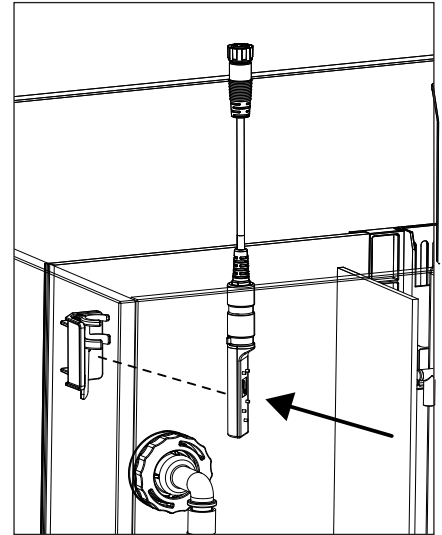
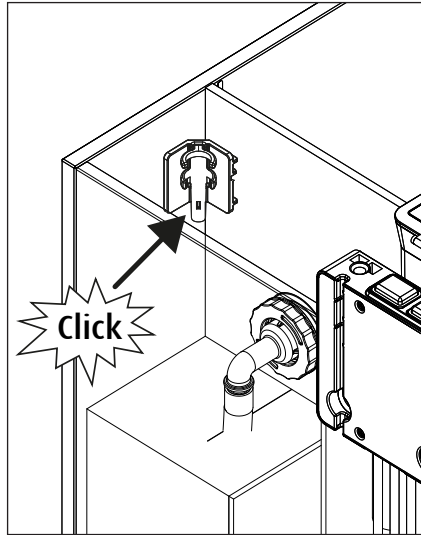
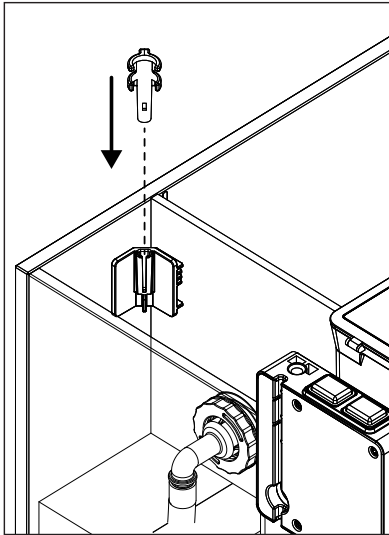
NanoMat

Remove the filter bag holder and follow the installation instructions provided with the NanoMat.



ReefATO+

Install the ReefATO+ sensor in the holder as shown.
follow the instructions provided with the ReefATO+
to complete the installation.



14 Trouble shooting

Q. My set up is new and the skimmer doesn't seem to be skimming.

A. Check that the salinity of the water is within the correct range for reef aquariums. If the setup is new or if you have just cleaned your skimmer, rinse thoroughly with water and return to the sump. The skimmer should start foaming within a few days. Skimmers react to changes in water density and other harmless chemical residue from the production process. While this is safe for your aquarium, it will impede the skimmer's efficiency for a couple of days. Remember that your skimmer will work only if the water contains proteins, as these proteins bind to the surface of the air bubbles and give the bubbles the structural rigidity they need to ascend the neck of the skimmer and settle in the collection cup.

Q. My skimmer is new and is producing a lot of weak, watery foam (over-skimming).

A. Production of an excessive amount of weak, watery foam – also referred to as over-skimming indicates the presence of chemical substances that need to be removed by the skimmer. Lower the position of the Skim Adjuster as necessary to reduce the water level in the skimmer neck and if necessary reduce the air flow by adding the air valve to the air inlet and restrict the air flow until you get a stable foam production. It may take a few days for the skimmer to remove all of the chemicals.

Q. My set up is not new and skimmer isn't producing foam or it is too dry and builds on the neck.

A. During a new set-up the bio-load is low and the amount of organics is negligible. If your MAX® is fully stocked, increase the height of the skimmer shutter as necessary and open the air valve. Check the water level in the rear filtration chamber and raise it to the optimal line. If you still get light foam production inspect for blockage in the airline or skimmer inlet.

Q. My skimmer is not new and is over-skimming after feeding and/or supplementing.

A. See Feeding and Supplementing in chapter 12 (page 18).

Q. The water level in the aquarium is too high.

A. Check the surface skimmer comb for restrictions such as algae or snails and clean the comb as instructed above.

Q. A pumps has stopped working or is making mechanical noise.

A. Disassemble and clean the pump as instructed above.

Q. The circulation pump is injecting micro-bubbles into the aquarium.

A. Make sure that you have added freshwater to compensate for evaporation and that the water level in all compartments of the rear sump is correct and that there are no blockages in the surface skimmer or in filter media preventing the pumps from being fully submerged. A low level of micro-bubbles in marine aquariums is normal and should be expected. Intense skimming is the secret of great water quality, as it both removes organic waste before it can break down AND maintains a high redox level. This is achieved by super-saturating the water with air, i.e. dissolving more gas into the water than is normal for the given temperature and pressure. Once the super-saturated water leaves the skimmer, it “relaxes” and releases the extra gas in the form of micro-bubbles. In the MAX® NANO G2 the pumps are located near the bottom of the rear sump and are pre-filtered by a sponge that should prevent any air bubbles from reaching the pump inlet. There may be a buildup of air trapped inside the sponge. Remove the sponge, rinse and return it to the sump. You might be getting micro-bubbles if you are using tap water with water conditioners or natural seawater. Many conditioners, some synthetic salt formulae and impurities found in natural seawater increase the surface tension of the water and cause a small proportion of the bubbles to escape out of the

skimmer chamber and flow out through the pumps. We strongly recommend NOT using tap water. If you are using tap water DO NOT add conditioners or de-chlorinators.

Allow the water to settle for 24 hours to let the chlorine evaporate naturally before introducing to the aquarium.

15 Warranty

Red Sea Aquarium Products Limited Warranty.

Thank you for purchasing a Red Sea Aquarium System consisting of an aquarium, pump, pipework, and cabinet (hereinafter “the Aquarium System”).

This limited warranty does not cover any additional Red Sea products such as the ReefLED50, or any other component that may be supplied with the Max Nano G2 Aquarium System or any products purchased together with the Aquarium System, all such additional products are provided with their own individual warranty.

Red Sea Aquatics (UK) Ltd. (hereinafter “Red Sea”) warrants the Aquarium System against manufacturer’s defects in material and workmanship for 36 months from the date on which the Aquarium System was originally purchased by the original purchaser (hereinafter “the Original Purchase Date”), as further detailed below.

The warranty provided by Red Sea is NOT TRANSFERABLE AND IS LIMITED TO THE ORIGINAL PURCHASER. If the Aquarium System is eligible under this warranty, Red Sea will either repair the Aquarium System free of charge (not including shipping costs) with new or refurbished parts or replace the Aquarium System with a new or refurbished Aquarium System at Red Sea’s sole discretion.

This limited warranty DOES NOT COVER normal wear and tear, or items that have a limited natural life or are consumable, such as, but not limited to impellers, sponges, filter socks, and “O” rings. It also DOES NOT COVER damage which occurs in shipment and/or failures or defects resulting from use outside normal conditions and/or natural disasters, accidents, power line surges, neglect, improper installation, operation or maintenance, and/or servicing of the Aquarium System or tampering with the Aquarium System by anyone other than an authorized Red Sea service center, or failure to use or assemble the Aquarium System in accordance with any instructions provided (in the Aquarium System manual or otherwise including on Red Sea’s website) or the technical and/or safety standards of the country in which the Aquarium System is used. Additionally, any modification of the Aquarium System other than by an authorized Red Sea service center will invalidate this warranty.

In order to effect this warranty, please contact your local service center. For your convenience, details of authorized service centers can be found on Red Sea’s website. Proof of purchase will be required before warranty performance is rendered.

The sole and exclusive remedy against Red Sea shall be for the repair or replacement of the Aquarium System as provided above. NO OTHER REMEDY (including but not limited to, incidental or consequential damages or damages for lost profits, lost sales, or any other incidental or consequential loss or damage) shall be provided under this warranty. Some jurisdictions do not allow the exclusion of incidental or consequential damage, so the above limitation may not apply to you. To the full extent allowed by applicable law, in no event shall Red Sea be liable for any loss or damage to aquatic life, and/or damage to other property and/or individuals (including but not limited to the original purchaser) resulting from the use of the Aquarium System or arising out of any breach of this warranty. All implied warranties (including but not limited to the warranty of merchantability of the Aquarium System or that the Aquarium System is fit for a particular purpose) are excluded to the full extent allowed by applicable law, and to the extent that they may not be excluded, are limited for the duration of the applicable warranty period set forth above. Some jurisdictions do not allow limitations on how long an implied warranty or condition lasts, so this limitation may not apply to you. The express warranties made in this limited warranty are the sole and exclusive warranties provided to the original purchaser and may not be altered, enlarged, or changed by any distributor, dealer, or other person, whatsoever.

SPECIAL TERMS APPLICABLE TO THE ORIGINAL PURCHASER’S OPTION TO OBTAIN AN EXTENDED 24-MONTH WARRANTY.

The original purchaser and only the ORIGINAL PURCHASER may obtain an extended warranty (hereinafter “the Extended Warranty”) covering the structural integrity of the glass aquarium and cabinet (but not on any other components of the Aquarium System or other products provided with or purchased together with the Aquarium System) without charge, by registering the Aquarium System

within 90 days of the Original Purchase Date on Red Sea's website at www.redseafish.com and uploading the proof of purchase.

By registering the Aquarium System and exercising the option to obtain the Extended Warranty, you acknowledge that you have carefully read and understood the terms and conditions that apply to the Extended Warranty, which are set forth below, and that you fully agree to such terms and conditions.

TERMS AND CONDITIONS OF EXTENDED WARRANTY

The Extended Warranty is NOT TRANSFERABLE AND IS LIMITED TO THE ORIGINAL PURCHASER.

The Extended Warranty is available only for MAX NANO G2 purchased in one of the following countries: Australia, Austria, Belgium, Canada, France, Germany, Ireland, Japan, Netherlands, Poland, Taiwan, UK and USA.

The Extended Warranty may only be obtained within 90 days from the Original Purchase Date.

The Extended Warranty shall apply for the duration of a consecutive 24-month period commencing on the expiry date of the 36 months from the Original Purchase Date.

The Extended Warranty only covers the structural integrity of the glass aquarium and cabinet (hereinafter "the Covered Components").

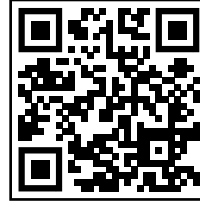
If the Covered Components are eligible to be serviced under the Extended Warranty, Red Sea will either repair the Covered Components free of charge (not including shipping costs) with new or refurbished parts or replace the Covered Components with new or refurbished Covered Components, as Red Sea may determine in its sole discretion.

This Extended Warranty DOES NOT COVER normal wear and tear, or items that have a limited natural life or are consumable, such as, but not limited to; "O" rings. This Extended Warranty also DOES NOT COVER damage which occurs in shipment and/or failures or defects resulting from use outside normal conditions and/or natural disasters, accidents, power line surges, neglect, improper installation, operation or maintenance and/or servicing of the Covered Components or tampering with the Covered Components by anyone other than an authorized Red Sea service center, or failure to use or assemble the Covered Components in accordance with any instructions provided (in the Aquarium System manual or otherwise including on Red Sea's website) or the technical and/or safety standards of the country in which the Aquarium System is used. Additionally, any modification of the Covered Components other than by an authorized Red Sea service center will invalidate the Extended Warranty.

Except as specifically modified herein the terms and conditions of the Red Sea warranty provided upon the original purchase of the Aquarium System shall also apply to the Extended Warranty.

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