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UK
English

EVOLUTION
AQUA
INNOVATION IN WATER

ea^omarine

**INSTALLATION AND INSTRUCTION MANUAL FOR
eaMarine 900 / 600 / 450 Aquariums**



PLEASE READ all of the instruction manual before attempting
to set-up your new eaMarine Aquarium

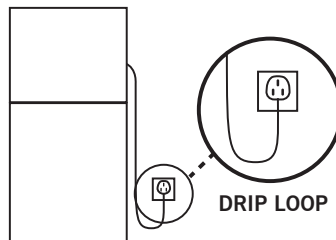
Evolution Aqua Ltd. - Evolution House - Kellet Close - Wigan - Lancashire - United Kingdom - WN5 0LP
t +44 (0) 1942 216554 - f +44 (0) 1942 216562 - e info@evolutionaqua.com - w www.evolutionaqua.com

WARNING: PLEASE READ THE FOLLOWING SAFETY INFORMATION FIRST.

DANGER: To avoid a possible electric shock, ensure all electrical devices are switched off when carrying out maintenance. Take extra care when handling a wet aquarium. Do not attempt repairs yourself; return the appliance to the place of purchase for service or dispose of the appliance.



- To avoid the possibility of the appliance plug or socket getting wet, position the aquarium cabinet and tank to one side of a wall mounted socket to prevent water from dripping onto the socket or plug. You should create a “drip loop” for each cord connecting an aquarium appliance to a socket. The “drip loop” is that part of the cord below the level of the socket, or the connector. Use an extension cord, if necessary, to prevent water travelling along the cord and coming into contact with the socket.



- 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. Hold the plug and pull to disconnect.
- If the plug or socket 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 socket.
- Close supervision is necessary when any appliance is used by or near children.
- 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.
- Do not install or store the appliance where it will be exposed to the weather or to temperatures below freezing point.
- Make sure an appliance mounted on a tank is securely installed before operating it.

Read carefully all the important notices on the appliance and the corresponding instruction manual.

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.

INTRODUCTION

Congratulations on purchasing an Evolution Aqua aquarium. Evolution Aqua are the global leaders in pond and aquarium filtration and innovation, and pioneers of moving filter bed technology for ornamental fish. Building on the success of their award-winning filters and bacterial products Evolution Aqua have designed and manufactured an aquarium suitable for keeping tropical marine fish and invertebrates. An eaMarine aquarium makes marine-keeping not only approachable for beginners but also easy and enjoyable, while at the same time combining the right science, engineering and quality components to cater even for the most seasoned aquarists and aquatic professionals.

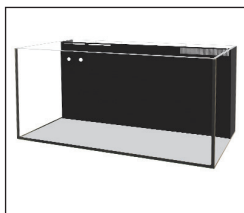
Please read this instruction manual carefully from start to finish before setting up your new eaMarine aquarium.

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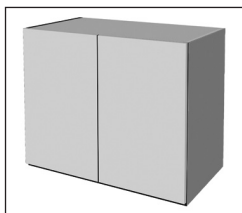
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eaMARINE PARTS LIST

Your eaMarine Aquarium comes complete with the following items:



1) eaAquarium with built-in In Tank Sump System



2) eaCabinet with adjustable feet



3) 2 x Eheim pumps (hose(s) and elbows)



4) EA 200 Micron filter sock(s)



5) K1 Micro® biological filter media



6) Kessil light(s)
IF SUPPLIED



7) Kessil Spectral Controller
IF SUPPLIED



8) Kessil gooseneck
IF SUPPLIED



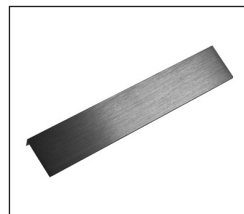
9) Kessil Unit Link cable(s)
IF SUPPLIED



10) PURE Reef Balance (20 Balls)
SEE PAGE 12



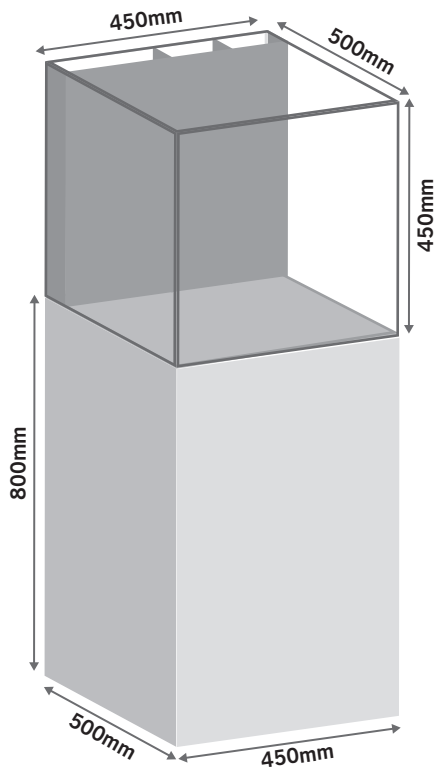
11) 4 x segments of loc-line flexible hose



11) Handle for cabinet
(eaMarine900 only)

SPECIFICATIONS AND DIMENSIONS

eaMarine450



Supplied with:



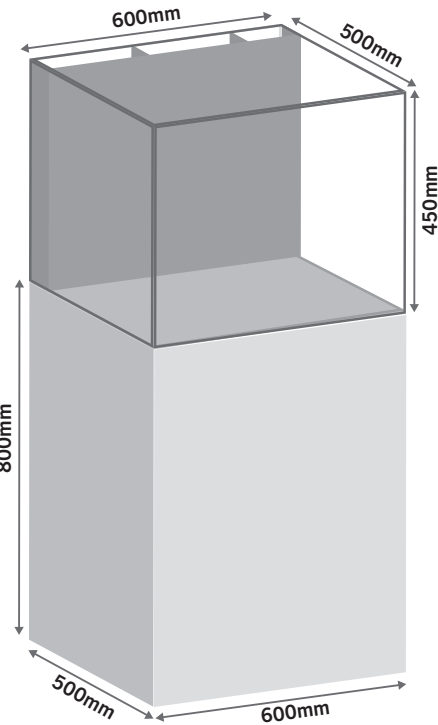
A160WE TUNA BLUE

Qty x 1
(eaMarine450-A160 models only)

SPECIFICATION	eaMarine 450
Aquarium dimensions	450mm (L) x 500mm (W) x 450mm (H)
Aquarium gross volume	101.25 Litres / 22.27 Gallons
Cabinet dimensions	450mm (L) x 500mm (W) x 800mm (H)
Aquarium specification	8mm glass thickness all-round, cerium polished with low-iron front and sides
EHEIM pumps	Qty 2 x EHEIM Compact 600 (600 lph, 11W)
Kessil® LED lighting	Qty x 1 Kessil® A160WE Tuna Blue (40W. 10,000K-Actinic spectrum)
Kessil® Accessories	Spectral Controller, Gooseneck
Filtration included	200 micron mechanical filter sock 1 litre of K1Micro biological filter media

SPECIFICATIONS

eaMarine600



Supplied with:



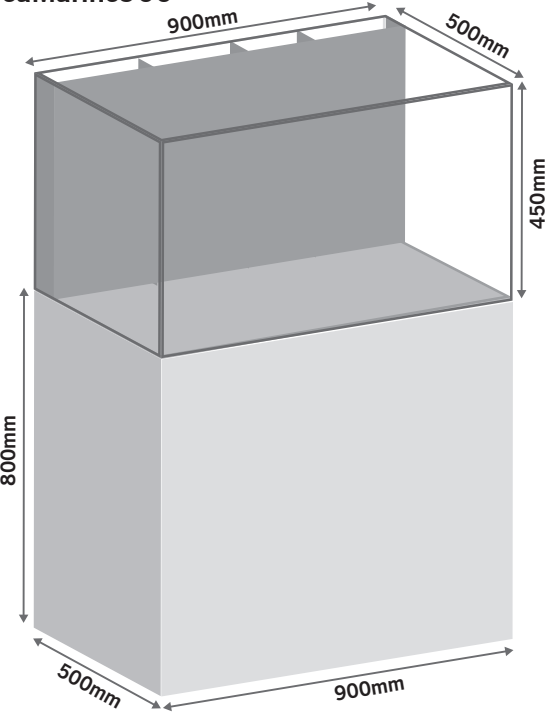
A160WE TUNA BLUE

Qty x 2
(eaMarine600-A160 models only)

SPECIFICATION	eaMarine 600
Aquarium dimensions	600mm (L) x 500mm (W) x 450mm (H)
Aquarium gross volume	135 Litres / 29 Gallons
Cabinet dimensions	600mm (L) x 500mm (W) x 800mm (H)
Aquarium specification	8mm glass thickness all-round, cerium polished with low-iron front and sides
EHEIM pumps	Qty 1 x EHEIM Compact 1000 (1000 lph, 23W) Qty 1 x EHEIM Compact 600 (600 lph, 11W)
Kessil® LED lighting	Qty x 2 Kessil® A160WE Tuna Blue (40W. 10,000K-Actinic spectrum)
Kessil® Accessories	Spectral Controller, Goosenecks, Unit Link Cable
Filtration included	200 micron mechanical filter socks 1 litre of K1Micro biological filter media

SPECIFICATIONS

eaMarine900



Supplied with:



A160WE TUNA BLUE

Qty x 2
(eaMarine900-A160 models only)

Or supplied with:



A360WE TUNA BLUE

Qty x 2
(eaMarine900-A360 models only)

SPECIFICATION		eaMarine 900
Aquarium dimensions		900mm (L) x 500mm (W) x 450mm (H)
Aquarium gross volume		202 Litres / 45 Gallons
Cabinet dimensions		900mm (L) x 500mm (W) x 800mm (H)
Aquarium specification		10mm glass thickness all-round, cerium polished with low-iron front and sides
EHEIM pumps		Qty 2 x EHEIM Compact 1000 (1000 lph, 23W)
Kessil® LED lighting		Qty x 2 Kessil® A160WE Tuna Blue (40W. 10,000K-Actinic spectrum)
		OR CAN BE SUPPLIED WITH
		Qty x 2 Kessil® A360WE Tuna Blue (90W. 10,000K-Actinic spectrum)
Kessil® Accessories		Spectral Controller, Gooseneck, Unit Link Cable
Filtration included		200 micron mechanical filter socks 1.8 litres of K1Micro biological filter media

HOW THE AQUARIUM WORKS

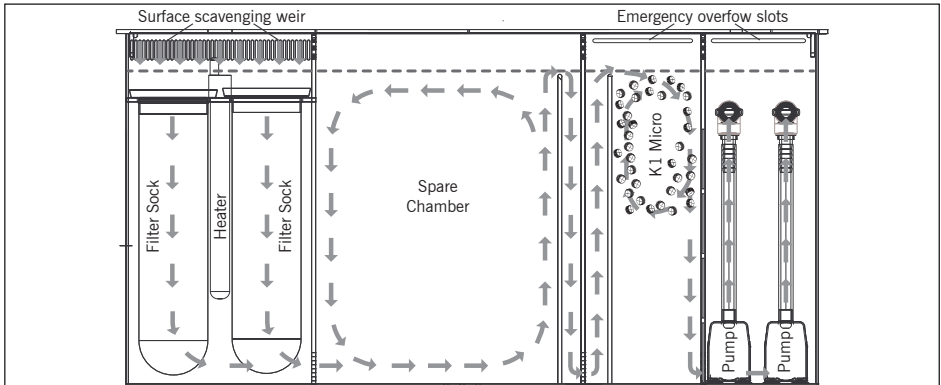


Diagram above shows flow through eaMarine 900 filter system

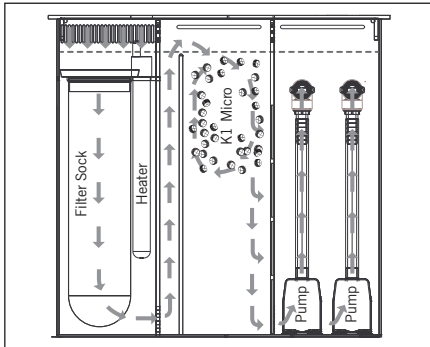


Diagram above shows flow through eaMarine 450 filter system

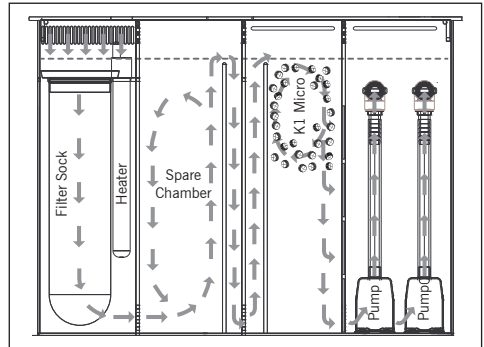


Diagram above shows flow through eaMarine 600 filter system

- Water enters the filter through the surface scavenging weir and solid waste is trapped by the filter socks.
- Mechanically-cleaned water flows through the filter socks and is warmed by the heater (not included).
- Water exits the sock chamber and flows up, through into the moving bed filter chamber. Beneficial bacteria feed on any ammonia in the water, converting it to much less harmful substances. The filter media spins around and around maximising its exposure to the aquarium water in each pass. Biofilm grows on the outer surfaces of the K1 Micro media and old biofilm is sloughed off, making room for more new biofilm growth while sending old biofilm through to the main tank as food for corals. Protected bacteria inside K1 Micro's specially engineered quiet zones aid de-nitrification and provide food and refuge for higher life-forms.
- Water exits the filter chamber and is returned to the main tank via the two return pumps and wide outlet, direction adjustable flare nozzles.

The only regular maintenance required is to clean or replace the filter socks weekly and to top up the pump chamber with RO/DI water to replace water lost through evaporation.

INSTALLATION INSTRUCTIONS

Your eaMarine cabinet comes to you pre-built by skilled tradesmen, so just needs positioning.

PLEASE NOTE: Your finished aquarium should be away from doors and radiators, out of direct sunlight and near to, but not directly over, power sockets.

Positioning the cabinet

One litre of water weighs one kilogram (1kg) so your furnished aquarium will weigh in excess of 100 kilograms (100kg) when filled. The cabinet must be placed on a strong, level floor and underneath the cabinet you will find four or five adjustable feet which can be twisted in or out to set the height and level of the aquarium. Using a spirit level, adjust all feet until the cabinet is level both left to right and front to back.

Once this is achieved the door should also be level and need no adjustment. If further door adjustment is necessary open the door and either turn in or out the two adjustment screws located on the hinge itself. Make sure that the top of the door does not raise up above the top of the cabinet, as it will then rub on the aquarium above when opened.

Positioning the tank

Your eaMarine aquarium comes supplied with a foam base mat that is pre-fitted. This base mat will protect the underside of the tank from any pressure points.

Using the aquarium without a foam base mat will void the warranty.

Line up the glass aquarium edges with the four cabinet sides when the doors are closed. The front of the aquarium should float over the doors with a small gap underneath to allow the doors to open and close freely.

INSTALLATION INSTRUCTIONS

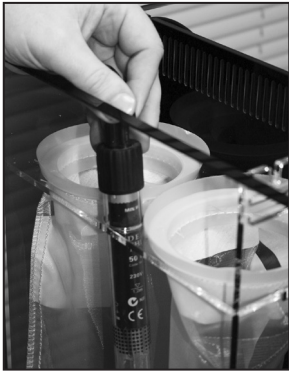
Equipment set up

Your eaMarine aquarium is supplied with socks, pumps, hoses, and flare nozzles pre-installed within the In Tank Sump System.

- STEP 1.** Place the heater-thermostat (not supplied,) into the specially allocated hole in the filter sock chamber at the back of the tank.
- STEP 2.** Remove the cable tie from the Eheim pump cables.
- STEP 3.** Pour the K1 Micro into the filter chamber.
- STEP 4.** Attach the Kessil lights to the goosenecks as shown in the Kessil instructions and connect to the Spectral Controller. Clamp the goosenecks to the rear tank rim, run all power cables down the back into the cabinet and fit the filter lid. Cut-outs have been made in the filter dividers and lid to allow for power cables.
- STEP 5.** Plug all power cables into a multi-socket and circuit breaker for safety (not supplied,) and install a drip loop in the mains power cable before it goes to the mains socket. Do not plug in pumps or heater until the aquarium is filled with water.
- STEP 6.** Fill the aquarium with salt water of the correct temperature and salinity for tropical marine fish and corals. When the water level is near the top, approximately 20mm from the top of the front of the aquarium, water will naturally fall through the surface skimming weir slots by gravity, and start to fill the chamber. Continue filling until water has nearly filled all of the final pump chamber.
- STEP 7.** Plug in the Eheim return pumps and switch them on. Water should now be pumping into the main tank.
- STEP 8.** Watch the water level in the final pump chamber as it should start to drop. Add more water until the operating water level in the final pump chamber is 50mm from the top tank rim.
- STEP 9.** Turn the power to the pumps off to familiarise yourself with how the *In Tank Sump System* works in event of power loss. Water will be sucked back into the main chamber via the flare nozzle outlets and also through the surface scavenging weir. Within a few seconds water level in the final pump chamber will rise to equalise with that of the main tank. Water level in the filter should remain below the emergency overflow slots when power is off. If water can pass through the overflow slots when power is off the tank is over-filled.

INSTALLATION INSTRUCTIONS

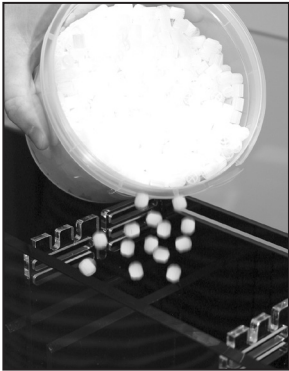
Equipment set up (Illustrated)



STEP 1



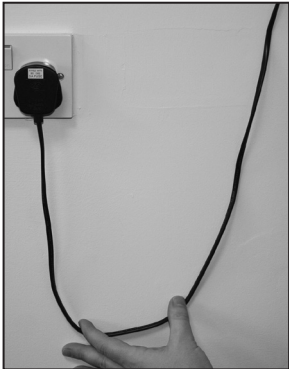
STEP 2



STEP 3



STEP 4



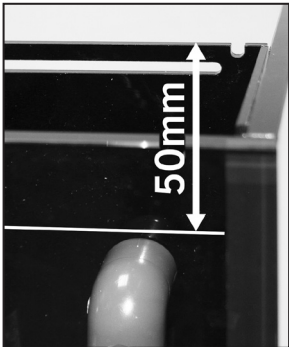
STEP 5



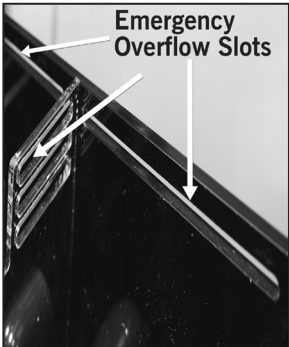
STEP 6



STEP 7



STEP 8



STEP 9

INSTALLATION INSTRUCTIONS

Starting the moving bed

When K1 Micro is dry and brand new it will be very buoyant and will not fluidise properly. This is normal and it may take one week for all the media to properly soak and start to sink lower in the water. When all of the media is fully soaked and the bed is moving properly, at least 90% of the K1 Micro media should be moving and circulating freely in the moving bed at any one time.

PURE Reef Balance

K1 Micro can be seeded with beneficial bacteria on day one by adding Evolution Aqua's PURE Reef Balance live bacteria balls, included with your aquarium.

The balls can be dropped straight into the filter chamber along with the K1 Micro media, getting to work straight away coating the media with a live bio-film and speeding up the maturation time of the media, while helping it to sink and fluidise better in the first week.

K1 Micro

Evolution Aqua has selected the optimum amount of K1 Micro media for each of its marine aquariums based on tank volume, filter chamber size and flow rates through the filter. The specially designed filter uses the flow-through of water to move the K1 Micro media and tumble it within the filter chamber. Slower flow of water from less powerful pumps will cause less fluidisation of the media.

PLEASE NOTE: Adding more K1 Micro than is recommended (1 litre per 100 litres of gross tank volume,) may cause the moving bed to stop.

The optimum movement of the moving bed is based on the calculated flow rates through the filter by the supplied pumps for each model of tank, plus the operating water level of the final pump chamber.

User's discretion is advised to experiment with the water level in the final pump chamber verses the fluidisation of the moving bed, until a happy medium between filter bed flow, water level, and quiet filter-running is reached.

EA recommend a final pump chamber water level of 50mm from the top of the tank rim at all times. The purchase of a good quality automatic top-up device is advised in order to optimise the K1 Micro moving bed fluidisation while also providing stable salinity for the aquarium's livestock. Once you are happy that the filter is running as it should the tank can be furnished in the normal way.

CLEANING INSTRUCTIONS

Relative lack of filter cleaning is one of the beauties of the eaMarine aquarium range and the K1 Micro Method moving bed filter. The 200 Micron mechanical filter socks will remove all large, solid particles from the water as it passes through them and collect debris inside.

Cleaning the filter socks

- Remove the sock from the filter chamber (the filter can be left running,)
- Clean the sock in vigorously running water, rubbing the fabric to dislodge any trapped dirt.
- Turn the sock inside out for the best possible clean.

Maintaining the filter socks

Evolution Aqua pride themselves on the easy cleaning of their specially selected filter socks, but over time the socks will start to clog more regularly and when that happens it is time to throw away the old sock and replace with new. No beneficial bacteria will be lost as the moving bed filter and its biofilm will still be completely untouched and intact. Replacement filter socks are available through all Evolution Aqua dealers.

Cleaning mulm and debris

Mulm and debris can be wiped off the inlet slots of the surface scavenging weir using a sponge, scourer or cloth.

The Eheim pumps may need half-yearly cleaning to remove mulm build-up. Detach from the flexible hoses and clean the pump's impellor as instructed by Eheim, in their accompanying instructions.

Cleaning the glass

Clean the inner aquarium glass with a marine safe algae scrubbing pad, available from all aquatic stores.

Be careful not to get any substrates like coral sand in the fibres of the algae pad as this will scratch the glass.

IMPORTANT: NEVER ATTEMPT TO CLEAN THE AQUARIUM WITH A SHARP, BLADE-LIKE OBJECT AS THIS MAY DAMAGE THE SILICONE BOND AND INVALIDATE THE WARRANTY.

IMPORTANT: IF ANY WATER IS SPILLED ONTO THE CABINET ALWAYS ENSURE THAT IT IS WIPED OFF AND DRIED IMMEDIATELY. FAILURE TO DO SO WILL INVALIDATE THE WARRANTY. DO NOT ALLOW ANY AMOUNT OF WATER TO COLLECT ON ANY PART OF THE CABINET.

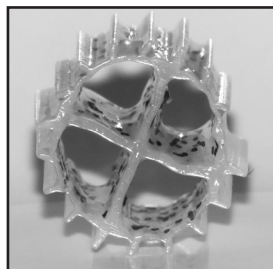
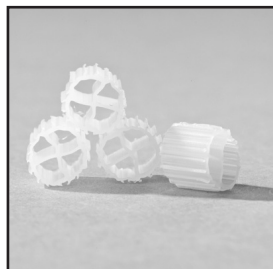
ABOUT THE REVOLUTIONARY K1 MICRO MARINE FILTRATION METHOD

The world's coral reefs are wonders of the natural world, but they occur only in certain circumstances, where levels of sunlight, water chemistry and water clarity are just right. The waters in which corals grow are described as "nutrient poor" meaning that they are naturally very low in pollutants like nitrates and phosphates, which would otherwise fuel algae growth, turning the water green, and smothering the corals.

In the aquarium we must also strive for very pure, very clean saltwater with the right chemical parameters if we are to succeed with corals, as they have evolved over millions of years to fill one particular oceanic niche and will not survive outside of those very exacting parameters.

How nutrients are dealt with is the key to success with corals in the aquarium. Traditionally success has been found with various different methods of nutrient export or conversion, but the experts at Evolution Aqua have found another way to deal with excess nutrients from fish waste, while producing some surprising benefits at the same time.

Evolution Aqua developed the moving bed filter for ornamental ponds in 2002 and it went on to change the way people filter their ponds forever. Further research and development revealed that the unique moving bed filter produced much lower than expected nitrate curves while also revealing huge numbers of higher life-forms living within each segment of the protected surface area K1 biological media. Microscopic inspection revealed that Evolution Aqua filters were not only doing the job of a normal filter and more, they were harnessing nature to help filter water for them, by providing a suitable home for nitrifying bacteria (ammonia and nitrite converting,) de-nitrifying bacteria (nitrate converting,) and rotifers, which themselves were filtering water and cleaning up waste.



Trials on saltwater revealed even more impressive results. By moving the filter bed with water in marine systems (corals don't like air bubbles!) levels of de-nitrification were increased, greatly benefitting the organisms living in the tank. Furthermore, just like in the pond filters higher life forms like worms and copepods were also taking up residence inside the protected surface area of K1 Micro media, which in turn were all doing their bit to filter water and consume waste. In mature reef aquaria filtered by K1 Micro, a veritable underwater safari of tiny creatures reside in each segment of filter media, becoming a refugium on a microscopic scale, and when zoo plankton numbers are high enough those creatures then overspill into the main aquarium, themselves becoming food for fish, corals and filter feeders.

By harnessing the power of nature eaMarine aquariums and the K1 Micro Method can not only filter water and produce the low nutrient levels which corals need, they also become part of the complex food web themselves by running a phytoplankton and bacteria friendly system which goes on to benefit the aquarium as a whole, by closely replicating nature.

NO PROTEIN SKIMMER NECESSARY!

Through extensive in-house trials Evolution Aqua have found that the K1 Micro Method works best without a protein skimmer as then the bacteria and phytoplankton that the organisms need are not removed.

Protein skimmers can of course be ran alongside the K1 Micro Method in a hybrid Berlin method, although it is not necessary, and will change the dynamic of the moving filter bed and the food chain of the microscopic creatures which live within it.

The K1 Micro method can be used in conjunction with algae refugiums, deep sand beds, plenums, live rock, live sand or natural seawater, and will benefit from the introduction of tiny beneficial organisms and natural micro-fauna that they may bring to new aquariums, as these can then transfer to the moving bed media, speeding up maturation and natural filtration processes. Regular addition of marine specific bacteria like Evolution Aqua's Reef Balance is also beneficial, both to this and other marine filtration methods.

HOW TO GET THE BEST FROM YOUR EA AQUARIUM

eaMarine aquariums are made of the highest quality components in order to combine the maximum functionality and enjoyment of owning one. To get the best from an eaMarine aquarium you must also ensure the following:

1. PURE WATER – The aquarium should be filled, topped-up and water changed using only the finest source water, ideally purified via reverse osmosis and de-ionisation to remove nitrates, phosphates, silicates (all of which cause nuisance algae,) and Total Dissolved Solids (TDS). Monitor source water regularly to ensure that the above parameters are as close to zero as possible.

2. SALT – Evolution Aqua recommend that a good brand of premium reef quality marine salt is used in order to provide the right balance of water chemistry and trace elements. Mix new saltwater thoroughly for 24 hours before use and monitor temperature and salinity using a seawater specific refractometer.

3. PHOSPHATE – Phosphate is a major cause of nuisance algae in the marine aquarium and high levels can also retard growth of corals and coralline algae. Evolution Aqua recommend that a method of phosphate control is used at all times, ideally using a reactor for maximum effectiveness.

4. EVAPORATION – Water loss through evaporation is the enemy of saltwater aquariums as pure water is evaporated off and pollutants, and most importantly salt, are left behind to build up to dangerous levels. Every eaMarine aquarium must be regularly topped up with RO or DI water to prevent the pump chamber inside the filter from running dry, and to keep the moving bed functioning as it should. A high quality automatic top up device is recommended to keep water level and salinity at an optimum and stable level at all times.
DO NOT LET YOUR FILTER CHAMBER RUN DRY!

5. WATER FLOW – eaMarine aquariums come with powerful water flow straight out of the box but some corals need even more extreme flow conditions from the addition of specially designed marine flow pumps. If catering for demanding sps corals or other types which need stronger water flow additional flow pumps and flow control devices should be added to the main display area of the aquarium. Cut-outs for additional flow pump cables have been provided in the built-in filter box.

6. TEMPERATURE – High temperatures can be more the enemy of the marine aquarium than low temperatures, with excessively high water temperatures being famous the world over for causing coral “bleaching” events, where huge areas of coral reef die off. eaMarine aquariums do not come supplied with a heater so invest wisely in a model known for its accuracy and safety shut-off capabilities or better still invest in an aquarium chiller which will control temperature and kick-in when water temperatures rise.

HOW TO GET THE BEST FROM YOUR EA AQUARIUM

7. CHEMISTRY – Seawater is made up of over 80 individual elements including Sodium Chloride. Each element and trace element play a vital part in keeping corals alive and must be at the correct levels at all times in the aquarium if the owner is to succeed in replicating a natural coral reef and not only keeping corals alive, but allowing them to feed and grow.

High sensitivity test kits are essential to regularly monitor water parameters and these should include pH, KH, Calcium, Magnesium as well as those for nitrate and phosphate. Advanced reef keepers may utilise many more test kits and in conjunction with buffering solutions, additives and water changes, stable chemistry will be maintained.

Tip: *to take accurate measurements you must first ensure that the salinity is correct.*

WARRANTY

Evolution Aqua warrants your product against defects in materials and workmanship for a period of 12 months, valid from the date of original purchase and will repair this product free of charge (**not including shipping costs**) with new / rebuilt parts.

The guarantee **DOES NOT APPLY** in case of improper use, negligence, lack of maintenance or accidental damage to the aquarium or cabinet. Damage to the aquarium glass is not included in the warranty.

The pre-condition for the warranty is that the stipulated set-up routine is observed. In the event that a problem develops with this product during or after the warranty period, contact the retailer from whom you originally purchased the item from. The retailer will then liaise with Evolution Aqua Ltd to organise for the warranty procedure to be undertaken.

The warranty is extended only to the original purchaser.

Proof of date of purchase will be required before any warranty work can be carried out.

This warranty only covers failures due to defects in materials or workmanship which occur during normal use. It does not cover damage which occurs in shipment or failures which result from misuse, abuse, neglect, improper installation, operation, mishandling, misapplication, alteration, modification or service by anyone other than an authorised Evolution Aqua dealer.

The cabinet is not waterproof and it is important to ensure that any water that is spilled onto the cabinet is wiped off and dried immediately. Failure to do so will invalidate the warranty. Do not allow any amount of water to collect on any part of the cabinet.

Evolution Aqua shall not be liable for incidental or consequential damages resulting from the use of this product, or arising out of any breach of this warranty. All express and implied warranties, including the warranties of saleability and fitness for particular purpose, are limited to the applicable warranty period set forth above.

The installation and use of your product outside of our recommendations as printed in this manual may also void the warranty.

These statements do not affect the statutory rights of the consumer.

WARRANTY CARD



eamarine WARRANTY CARD

WARRANTY PROVISIONS

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**REGISTER YOUR 1 YEAR WARRANTY COVER,
COMPLETE THE FORM ON THE REVERSE OF THIS PAGE
OR GO TO www.evolutionaqua.com
AND COMPLETE ONLINE.**

**REGISTER YOUR 1 YEAR WARRANTY COVER,
COMPLETE THIS FORM & SEND IT TO US TODAY.**

Your eaMarine aquarium comes with a 1 year warranty (valid from date of purchase). To register your warranty simply complete the information below and return this form to us by post, email or fax.

Complete this form, cut it out and return it using one of the following methods:



Post this in an envelope to:
**Evolution House,
Kellet Close, Wigan,
Lancashire, United Kingdom,
WN5 0LP**



Scan and email this form to:
marketing@evolutionaqua.com



Fax a copy of this form to:
+44 (0) 1942 216562

Your Name: _____

Your Address: _____

Postcode: _____

Country: _____

Tel N°: _____

Mobile N°: _____

Email: _____

Purchased From: _____

Date of Purchase: / /

Model of eaMarine: _____

Colour of cabinet: _____

I have read and accept the terms and conditions listed in the warranty card, and understand the obligations of the Customer under this warranty.

Signature: _____ Date: / /

Evolution Aqua Ltd. may contact you in the future with product updates or offers, which may be of interest to you.
If you do not wish to receive this information please tick this box. ☐

SPARE PARTS LIST

The following components are available to buy from all Evolution Aqua stockists:

PARTS	EA EVOLUTION AQUA CODE
EA 100 Micron filter sock	PBN-100-4
EA 200 Micron filter sock	PBN-200-4
K1 Micro	K1MICRO1L
Kessil A160WE Tuna Blue	KSA160WE-TB
Kessil A360WE Tuna Blue	KSA360WE-TB
Kessil A360NE Tuna Blue	KSA360NE-TB
Kessil Spectral Controller	KSASC01
Kessil Gooseneck	KSAGN01
Kessil 90 Gooseneck Adaptor	KSAGNA090
Kessil Control Cable Type 1	KSACB01
Kessil Control Cable Type 2	KSACB02
Kessil A360CE Control Extension Cable	KSACB03
Kessil Unit Link Cable	KSACB04
PURE Reef Balance	PRB60

TROUBLESHOOTING

Moving bed not moving

- Ensure that both Eheim return pumps are plugged in, switched on and working normally.
- When media is brand new it will not move as it should until fully saturated, which can take a week or more of continuous running in saltwater in newly set- up aquariums.
- Ensure that the water level is at its optimal running height in the final pump chamber inside the filter. Too low and the media will stop.
- Add PURE Reef Balance to help speed up the maturation process of the moving bed.

Water overflowing from sock chamber

- The sock(s) is blocked and needs cleaning thoroughly or replacing with new. Socks are most likely to block and overflow after periods of heavy feeding with particulate foods. eaMarine aquariums are tested to safely overflow into the next chamber in the event of total blockage.

Pumps blowing bubbles into main aquarium and being noisy

Check that the water level in the final chamber is at optimal running height and that the pumps are totally submerged in water while running. Air bubbles are a sure sign of pumps dragging in atmospheric air when running in water which is too shallow. Top up filter chamber to right height and make sure pumps are clean and have clear / unobstructed inlet screens.

Excessive filter chamber noise

The water level in the filter chamber and final pump chamber are too low and the water is cascading down onto the moving bed media and splashing as it lands on it, instead of quietly flowing through it. Top up the final pump chamber.

No water flow in main tank

Eheim return pumps may be switched off at mains or may have stopped due to blockage or lack of cleaning. Clean pumps and check fuses. Refer to Eheim instructions supplied when system was first purchased.

CONTACT DETAILS

Your first point of contact for enquiries regarding your aquarium should always be the retailer from whom you purchased the aquarium. Make a note of their details below:

PLACE OF PURCHASE CONTACT DETAILS

EVOLUTION AQUA CONTACT DETAILS

Evolution Aqua Ltd

Evolution House, Kellet Close
Wigan, Lancashire,
United Kingdom
WN5 0LP

t: +44 (0) 1942 216554

f: +44 (0) 1942 216562

e: info@evolutionaqua.com

w: www.evolutionaqua.com

DISPOSAL OF YOUR OLD PRODUCT

Your product is designed and manufactured with high quality material and components, which can be recycled and reused. When this crossed-out wheeled bin symbol is attached to a product, it means the product is covered by the European Directive 2002/96/EC. Please contact your local authority about correct disposal for electrical and electronic equipment. Our WEE Registration Number is WEE/FE1471RR.



Please act according to your local rules and do not dispose of your old products with your normal household waste. The correct disposal of your old product will help prevent potential negative consequences for the environment and human health.

eaMarine900 (tick) <input type="checkbox"/>	eaMarine600 (tick) <input type="checkbox"/>	eaMarine450 (tick) <input type="checkbox"/>
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SILICONE COLOUR (tick):	Black <input type="checkbox"/> Clear <input type="checkbox"/>
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CABINET COLOUR write:	
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PARTS	eaMarine 900 QTY	eaMarine 600 QTY	eaMarine 450 QTY	QTY PICKED
Aquarium with built-in In Tank Sump System	1	1	1	
Aquarium “cheeks” colour	2	2	2	
Eheim Compact 600 Pump	N/A	1	2	
Eheim Compact 1000 Pump	2	1	N/A	
EA 200 Micron filter sock	2	1	1	
K1 Micro	1.8L	1L	1L	
Kessil A160WE Tuna Blue (If supplied)	2	2	1	
Kessil A360WE Tuna Blue (If supplied)	2	N/A	N/A	
Kessil A360NE Tuna Blue (If supplied)	2	N/A	N/A	
Kessil Spectral Controller (If supplied)	1	1	1	
Kessil Gooseneck (If supplied)	2	2	1	
Kessil Unit Link Cable (If supplied)	1	1	N/A	
PURE Reef Balance (20 Balls)	1	1	1	
Loc-line flexible hose segment	4	4	4	
Cabinet door handle	2	N/A	N/A	

CHECKLIST	CHECKED BY
All component parts included / checked as above	
Aquarium glass thoroughly inspected	
Aquarium / filter / pump(s)* water tested and checked	
Flare nozzles / pump hoses / filter sock(s) / loc-line / foam mat installed	

*Due to water testing, some residual water may be left in the pump.

SIGNED	DATE