

# EVOLUTION

## 1

### User Instructions



**Aquatic Nature®**

[www.aquatic-nature.com](http://www.aquatic-nature.com)



fig. 1



fig. 2



fig. 3



fig. 4

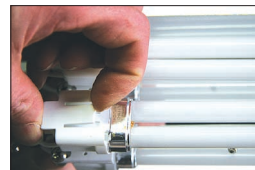


fig. 5



fig. 6



fig. 7



fig. 8



fig. 9



fig. 10



fig. 11

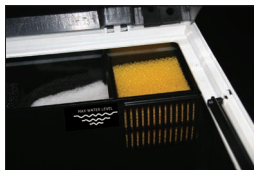


fig. 12



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## Introduction

Congratulations with your purchase of the **Evolution**. The **Evolution** is a functional contemporary nano-aquarium, designed to emulate the individual biotopes as closely as possible. Though this manual is mainly focused on tropical fish, as 90% of fishkeepers have tropical fish, the Evolution is also perfectly adaptable for marine fish, invertebrates, terrarium, shrimps, etc... See our website for more information (section aquariums/ Evolution).

The built-in filter system is very efficient and provides a good function with minimal maintenance. A range of filter materials (**Evo-Mat**), developed for the **Evolution**, ensures a good water quality.

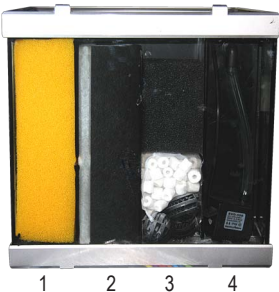
The lighting system offers many possibilities, assuring fish, plants or invertebrates live in a perfectly balanced environment (see chapter 'Lighting'). All safety standards have been applied.

The **Evolution** series has been designed according to a specific concept. The rules of this concept consists of high functionality, minimum maintenance, optimal certainty for man and fish, its different lighting aspects (see 'Lighting'), and a perfect water treatment (see 'Filtration'). The **Evolution** has a trendy design, and is available in different glossy colours. The **Evolution** can be installed in any office, bedroom, kitchen, etc..., with a minimum of requirements. Due to its educational aspect, the **Evolution** is highly recommended for children, and at the same time offering a creative and exciting hobby for the whole family.

The **Evolution** inspires and brings nature to your home. We wish you lots of joy in creating your very own amazing underwater world.

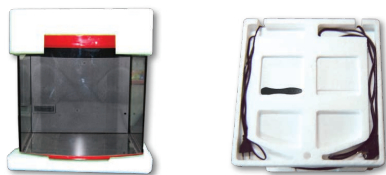
## Contents

- Aquarium **Evolution** : 37 Liters
- Lighting : 2 x PL lamps - 11 watt type **EVOLUX** 6500 K°
- Moonlight lighting 2x blue (2 x 0,5 watt)
- Filter materials: - **EVOFOAM** in filter chamber 1 and 3
  - **EVOMAT-COMBI** fine filtration in chamber 2
  - **BIO-BALL** and **BIO-RING** Small with **EVO-FOAM** in chamber 3
  - Adjustable **EVO POMP 500** l/h with tubing in chamber 4
- Adjustable outlet pipe.
- 1 plastic tool to lift cover from frame (Cover Remover).
- User instructions / Warranty



## Packaging

The **Evolution** is safely packed in styrofoam, consisting of an upper and lower part, preventing the glass breaking and protecting the glossy painting (see picture below). After being checked, the **Evolution** is wrapped in a plastic protection bag. On the upper part of the styrofoam, you will find 2 plugs and a Cover Remover. On the left is the plug for the pump, on the right is the plug for the lighting (see picture below). Carefully, take the aquarium out of the box. Remove the styrofoam and plastic protection bag.



## Placement

*The following chapter has to be read carefully, before placing, decorating or installing the Evolution aquarium.*

Place the **Evolution** in a space avoiding direct sunlight, in order to prevent algae. The aquarium support should carry the weight of the **Evolution** (appr. 50 Kg.). Never place the **Evolution** on electrical appliances like a TV, stereo installation or on furniture with a moist-sensitive surface. Always ensure that the **Evolution** is placed on a flat and stable surface. Make sure that electrical cables (pump and lighting) are positioned in a drip loop (see photo left). Glossy-painted cabinets in 3 colours, especially designed for the **Evolution**, are available from Aquatic Nature.

Do not, under any circumstance, move the **Evolution** when it is filled with water! This inevitably leads to pressure on the glass, and could result in broken glass. Warranty never applies in the case of broken glass. Clean the aquarium with normal tapwater, never use detergents. Important : we do not recommend the use of an airpump, as the **Evolution** works perfect without an airpump.



① **FertiPlant A.B.F.**  
with Dekoline 'Panthera'



② **Ferti-Stick** in  
combination with  
Dekoline 'Maya'



③ **Ferti-Soil**  
'Black'

## Setup - Soil

1. **Fertiplant A.B.F.** is used as an underlayer. It's a long-term soil fertilizer for fast and slow growing aquarium plants. This fertilization soil contains different elements, which are slowly released when needed by the plants. **Fertiplant A.B.F.** contains laterite, lignite, baraclay as well as trace elements. Stimulates the root growth and the micro-fauna. Stabilizes the pH and is nitrate and phosphate-free. **Fertiplant A.B.F.** also prevents the formation of algae.

When using a **Fertiplant ABF** layer, a **Dekoline** layer is applied on top of it. The amount of **Dekoline** is dependant on the desired height and the depth of the layer. **Dekoline** is available in bags of 5 kg and comes in more than 35 different colours (see our website [www.aquatic-nature.com](http://www.aquatic-nature.com) for examples). With **Dekoline** you can decorate your **Evolution** according to your personal taste and creativity. Colour brings your aquarium to life... **Dekoline** quartz is completely harmless and provides, due to its macro-porous structure, the roots of the plants with attachment points, improving their growth. Rinsing the **Dekoline** is recommended, although it's not necessary. The **Dekoline** layer must not be higher than the slot on the pump chamber. This slot prevents the pump from running dry.

2. **Ferti Sticks First Aid.** The sticks are a compressed and complete fertilizer. They are used in combination with **Dekoline**, and are just pushed into the gravel. One stick for every 5 cm<sup>2</sup>. Further application: during the stagnation of the plant growth. Visible result within one week.

3. **Ferti-Soil**, a complete soil as well as decoration. **Ferti-Soil** has a lifespan of approx. 3 years. It supplies the aquarium root plants with all the necessary nutrients. Due to its porous structure, **Ferti-Soil** offers excellent anchoring for the plant roots, slowly releasing nutrients, assimilated by plants. Its special structure also stimulates the micro-fauna and has at the same time a filtering effect. **Ferti-Soil** stabilizes the pH value between 6 and 7 and reduces KH. It is therefore extremely suitable for keeping shrimps or fish from soft water biotopes. **Ferti-Soil** can be put immediately in the aquarium and doesn't have to be washed beforehand.



## Water

Now fill up the **Evolution** for 3/4 with tapwater. Add **Aqua-San** to protect the fish against any potentially harmful components in the water. It neutralizes chlor and heavy metals. Protects upper skin (epidermus) and avoids stress reaction.

**Aqua-San** should be used at every water change.



To accelerate the biological cycle, and at the same time prevent the formation of nitrite ( $\text{NO}_2$ ) and ammonia/ammonium ( $\text{NH}_4$ ), both are very harmful for fish, so we recommend a weekly addition of **Bio-bacter 2 in 1** from Aquatic Nature. **Bio-bacter 2 in 1** offers an optimal solution to supply your aquarium with active bacteria, thus removing organic pollutants. The double chamber bottle contains the bacteria and their necessary nutrients. This ensures that a working bacteria population is always present, thus removing toxic nitrite ( $\text{NO}_2$ ) and ammonia/ammonium ( $\text{NH}_4$ ).



**Decorations** : Carefully place your selected decorations and plants. For beautiful artificial decorations, Aquatic Nature offers a formidable range - see backside of leaflet and our website (see section decorations). This tremendous and unique choice of decorations are perfect for the Evolution, as well as any other type and size of aquarium. They are  $\text{CO}_2$  and UV resistant.

**Plants** : a very important aspect. Healthy plants provide oxygen and are able to absorb undesired phosphates and nitrates, and therefore indispensable for healthy fishkeeping. When buying waterplants, be selective in your choice, buy only aquatic waterplants. Your specialized dealer will help you with your choice. For more details, we advise finding more information either on the internet or in specialized books. Nevertheless, here are some tips :

- When buying pot plants, remove the rockwool and cut the roots. Plants should have 1,5 - 2 cm length of roots. This enables plants a fast anchoring of their roots.
- Stemplants, if cutted, should have a minimum length of 10 cm.
- Do not use hands or fingers to cut stems or roots of aquatic plants, they will be damaged and stagnated in their growth.



Aquatic Nature developed a full range of Aqua-Gardening tools, enabling you to create a perfect aquatic landscape, without harming your valuable aquatic plants.

## Fertilization = Healthy plants

Besides a plant soil, plants need extra fertilization. Aquatic Nature offers a range of 3 specific plant fertilizers :

### Slow Growing Plants

require **Aqua-Plant Basic**

*Crypto's*



*Anubias*



*Microsorium's*



### Fast Growing Plants

require **Aqua-Plant Plus**

*Hottonia - Rotala's*



*Rotala Macrantha*



*Nymphaea's*



### Daily Fertilizer for ALL plants - **Aqua-Plant 24 + Activator**



For optimum aquarium plant keeping, the addition of  $\text{CO}_2$  is highly recommended. For more information, see our website, section  $\text{CO}_2$ .

$\text{CO}_2$  systems - 3 types :

- $\text{CO}_2$  Junior Kit (Art. n° 02 740)
- $\text{CO}_2$  Standard Kit (Art. n° 02 750)
- $\text{CO}_2$  Professional Kit (Art. n° 02 775)



# Lighting

The **Evolux** lighting consists of 2 PL 11 watt lamps, type **Evolux** 6500 K°, covering a wide range of needs. We advise the following lighting shedule, to ensure an optimal plant-rhythm, a biological eco-system as well preventing the formation of algae :

Week 1 - both lamps 6 hours a day.      Week 2 - both lamps 7 hours a day.      Week 3 - both lamps 8 hours a day.

After this introduction period, plants will be well rooted and their chlorophyll assimilation will reach its zenith. The lighting period can be extended, depending on the type of waterplants, fish, or in the case of a marine aquarium, the invertebrates.

A full range of lamps with their specific luminal spectrum has been developed, enabling you to nurture any diversity of plants and fish nature offers.



example combination for marine tank  
- front light Evolux White 10.000 K°  
- back light Evolux Blue



example combination for livebears  
- front light Evolux White 6500 K°  
- back light Evolux Red-White

Evolux Type	Advised for
White 6500 K° (art. n° 02 116)	plants, tropical fish, terrarium
White 10.000 K° (art. n° 02 121)	fast growing plants, marine
Red 8000 K° (art. n° 02 118)	goldfish
Red-White 8000 - 6500 K° (art. n° 02 120)	livebears, tetra's
Blue 30.000 K° (art. n° 02 117)	hard corals
Blue-White 30.000 - 10.000 K° (art. n° 02 119)	marine fish, soft corals

**Tip :** Lamps lose their density. The **Evolux** 6500 kelvin (standard equipped) must therefore be replaced every 12 months. This results in better conditions for plants and fish. Contact your specialized dealer for more information. **Caution :** when replacing the **Evolux** lamp(s), the plug(s) have to be removed from the wall socket.

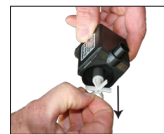
**Replacing the lamps :** to remove the cover, use the Cover Remover tool. Place it between the joints (**fig. 1**). The Cover Remover is designed especially to fit between the 2 moveble connections on the backside of the aquarium. Lift the cover slightly, and put some pressure on the Cover Remover (**fig. 2**). Repeat this action on the other joint. Put the cover on a blanket or towel, thus avoiding scratches. Take a cross-head screwdriver and remove the transparent ABS cover (**fig. 3**). 2 silicone rings are placed over the metal lampholders, remove them (**fig. 4**). Slightly lift the lip of the lampholder, and remove the lamp(s) (**fig. 5**). After replacing the lamps, proceed in reverse order. To put the cover back in its place, press the back of the Cover Remover tool against the joint(s) (**fig. 6**), and push the cover back in its place with a little pressure (**fig. 7**).

## Maintenance

### Pump

Do not run the pump when the aquarium is empty !

If the water current of the pump is too powerful, you can easily set the pump, located in the left part, to a lower setting (**see photo right**). First remove the plug from the socket. Remove the tube form the pump and take it out of it's compartment. If required set the adjuster on the front of the pump to a plus or minus setting. Put the pump back in its position and attach the tubing to the pump. Restart the pump. From time to time, the pump needs to be cleaned as small particals can disrupt the function of the pump (**see photo's below**).



## Filtration

Filter materials get dirty, and have to be replaced according to the amount of fish and distributed food. The colour indicating **Evo-Foam** is situated in the first filter chamber behind the overflow (**fig. 8**). The **Evo-Foam** serves as pre-filter and as a support for bacteria's. It has to be rinsed regularly, normally once every fortnight. The **Evo-Foam** has to be replaced every 6 months. Attention : Plant debris has to be removed periodically, especially after trimming the plants (**fig. 9**).

In the 2nd filter chamber you will find the **Evo-Mat Combi** fine filtration (**fig. 10**). Clean it once a week and replace it every 3 months. If you have a large amount of fish in the aquarium, this may have to be done more regularly.

In the 3rd filter chamber are the **Bio-Balls**. These should be rinsed once a year, yet never replaced as they act as a bacterial carrier. Besides **Bio-Balls**, there are **Bio-Ring Small** and **Evo-Foam**. Both have to be replaced every 6 months. Tip : do not clean all the filter chambers at the same time, as it could disrupt the balance of the bacterial population.

In case of a high concentration of nitrate, phosphate or ammonia, Aquatic Nature has specific filter materials solving each problem. For more information about our filter materials, see our website section filtration.

Replacing the filter materials is easy. Open the cover. On top of the frame, left and right are two supports, holding the cover in an open position (**fig. 11**). This enables you to remove the filter materials easily with both hands.



**EVO NH<sub>3</sub>**

art. nr.  
02111

**EVO-MAT  
Combi**

art. nr.  
02112

**EVO-MAT  
Crystal  
Clear**

art. nr.  
02113

**EVO NO<sub>3</sub>  
Nitrate  
Remover**

art. nr.  
02108

**EVO PO<sub>4</sub>  
Phosphate  
Remover**

art. nr.  
02109

**EVO-FOAM**

art. nr.  
02110

For security reasons, the **Evolution** has a safety overflow, to ensure a certain distance between the water and the lighting. This overflow is situated in the back on the right side. The water will therefore never get higher than the maximum water level, as indicated with the sticker next to the overflow (**fig. 12**).

## Warranty

The **Evolution** from AQUATIC NATURE is covered by a 12 month warranty against material or production faults. Inadequate or wrong use will cancel this warranty.

This warranty is only valid under following conditions :

- Repair is no longer possible.
- The power cord and plug should not be cut off.
- Breakage of glass is not covered by the warranty.
- Proof of purchase will be required for your warranty on this product. This proof must be included with the damaged product.

This warranty covers only the damage of this product and is maximum limited to the exchange of this product. We are under no circumstances responsible for any damage, due to wrong use or negligence of the user.

*Evolution - Inspired by nature*

## Chart for the maintenance of your Evolution aquarium

	<i>Need</i> <i>Aqua-San</i>	<i>Need</i> <i>Bio-Bacter</i> <i>2 in 1</i>	<i>Changing</i> <i>Evo-Mat</i> <i>Combi</i>	<i>Cleaning or</i> <i>Changing</i> <i>Bio-Ring S</i> <i>Small</i>	<i>Changing</i> <i>Evo-Foam</i>	<i>Cleaning</i> <i>Evo Pump</i>	<i>Changing</i> <i>Evolux</i> <i>Lamps</i>	<i>Changing</i> <i>Ferti-Soil</i>
1 x Week 10 % water change	●	●						
3 x months			●			●		
6 x months				●	●			
1 x Year							●	
3 x Years								●