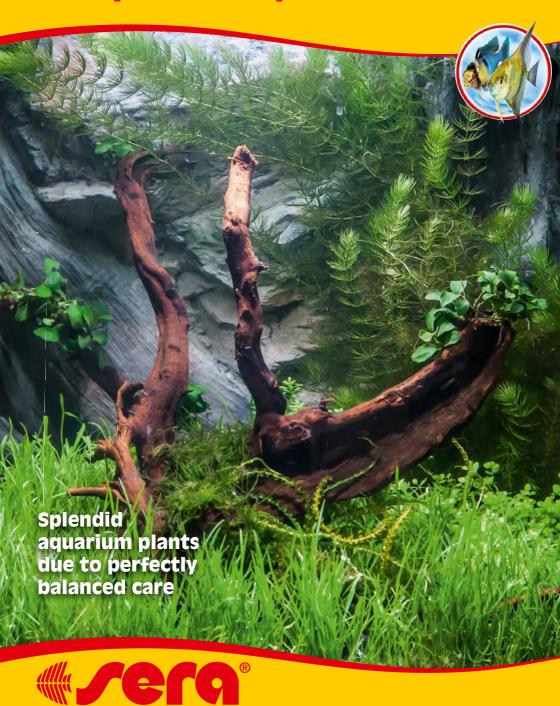
# Systemic plant care



# sera plant care

The balanced complete system for individual and effective plant care

### **Basic fertilizers**

#### sera florena

for aquatic plants that take up nutrients mainly through the leaves

#### sera florenette

for aquatic plants that take up nutrients mainly through the roots

### Systemic fertilizers

#### sera flore 1 carbo

the alternative carbon source

# sera flore 2 ferro

extra iron for plants with high consumption

### sera flore 3 vital

rare nutrients for better stamina

### sera flore 4 plant

main nutrients for plant aquariums

The innovative **sera** plant care system optimally fulfills the requirements of the aquarium plants. The balanced system, consisting of two basic fertilizers and four systemic fertilizers, allows precise, uncomplicated and flexible plant supply without unnecessarily polluting the water.

- excellently tolerated by invertebrates
- √ does not contain 
  phosphate nor nitrate\*
- √ natural algae prevention
- √ scientifically tested



\*except macro nutrient fertilizer sera flore 4 plant



# **Technical equipment, accessories and bottom ground**

The **sera** complete range for all aspects of aquarium plant care allows creating best conditions for healthy, splendid aquatic plants in an easy and balanced way.



Ideal light conditions for full photosynthesis performance by innovative, energy saving LED technology.

Stable water parameters and splendid plant growth by improved water flow through the bottom ground due to a continuous temperature gradient.



The durable, stainless steel maintenance tools sera flore tool S and sera flore tool P make design and plant maintenance measures a pleasure.

The functional **sera** bottom ground products ensure ideal preconditions for firm root growth, optimized bottom aeration without rot zones, an improved bottom filter activity as well as a lasting basic supply with important nutrients.



# **Nutrients**

Besides light, plants also require a number of inorganic nutrients. Aquatic plants either take them up directly from the water via their leaves, or they withdraw them from the bottom via their roots. Healthy growth requires all essential nutrients being available in sufficient amounts. The most common deficiencies are caused by insufficient supply of carbon, nitrate, phosphate, potassium, iron or magnesium (regular control using the **sera** water test kits).

Insufficient supply can either occur if the original water is low in these substances, or by consumption, or because the substance is not present in water lastingly and stable (as is the case with iron). If the plants, for instance, look pale, become blotched or grow poorly this is most probably due to insufficient nutrient supply. However, the environmental conditions (such as pH value, lighting, temperature) should be checked, and the possibility of a disease (e.g. fungi and viruses) must be taken into account.

sera developed the innovative sera plant care system for a continuous nutrient supply and, accordingly optimal growth conditions. Its flexibly useable balanced components allow the effective supply of the plants with all required nutrients in optimal bioavailability without unnecessary pollution by excess nutrients.



Carbon deficiency is one of the most common reasons for insufficient growth of aquatic plants. The sera flore CO<sub>2</sub> fertilization system ensures safe and intense supply!

Advice: You can obtain data about the special requirements of single plant species from your specialized retailer or from literature. Nutrient requirements generally increase with plant density, carbon dioxide supply and lighting intensity/strength.





Systemic fertilizers

The **sera** systemic fertilizers close specific maintenance gaps. For the tailor-made supply even of very fastidious aquarium plants.



The alternative carbon source

### sera flore 1 carbo

Carbon deficiency is likely the most common growth limiting factor for aquatic plants. sera flore 1 carbo, a liquid fertilizer with carbon sources easily accessible for plants, provides an uncomplicated, reasonably priced alternative or addition to the  ${\rm CO}_2$  fertilization system.

**Application:** daily fertilizer for the growth supporting carbon supply



# **Systemic fertilizers**



Rare nutrients for more stamina

### sera flore 3 vital

Aquarium water is often lacking in trace elements and vital substances. The liquid daily fertilizer **sera flore 3 vital** reliably closes these dangerous supply gaps. The aquatic plants continuously supplied with essential, valuable micro nutrients and vitamins in an appropriate dosage become healthier, stronger and more beautiful. Their stamina is lastingly increased.

Application: vital substance fertilizer for strengthening stamina









### **Basic fertilizers**

#### sera florena

for aquatic plants that take up nutrients mainly through the leaves

#### sera florenette

for aquatic plants that take up nutrients mainly through the roots

## **Systemic fertilizers**

# sera flore 1 carbo

the alternative carbon source

### sera flore 3 vital

rare nutrients for better stamina

# sera flore 2 ferro

extra iron for plants with high consumption

# sera flore 4 plant

main nutrients for plant aquariums

Printed in Germany

**rera** GmbH • D 52518 Heinsberg • Germany

