

## TWINSTAR NANO

Powerful inhibition of green algae and plant growth promotion.







## STERILIZER FOR PLANTED TANK

Widely tested and recognized by professional aquascapers



A white, oval-shaped aquarium CO2 diffuser is mounted on the left side of the frame. It is releasing a fine, steady stream of small white bubbles that rise through the water. The background is a dense, vibrant green aquarium planted with various types of artificial and natural-looking plants. Several small, colorful fish are swimming throughout the tank, including some with orange and black stripes and others with blue and red accents. The lighting is bright, creating a clear view of the bubbles and the lush vegetation.

The safest way to inhibit green algae  
without a harmful effect on both plants and fishes.



## TWINSTAR EFFECT

### THAT'S WHY YOU NEED TO USE TWINSTAR TO INHIBIT ALGAE.

TWINSTAR inhibits green algae effectively without a harmful influence on the aquarium ecological harmful influence on the aquarium's ecological environment, and keeps it clean by eliminating spores from the initial propagation. TWINSTAR has no harmful effect on plants, fish and aerobic bacteria as it does not generate any toxic substance.

### NOW, BEGINNERS CAN CREATE A BEAUTIFUL AND HEALTHY PLANTED AQUARIUM.

We do a lot of hard work to inhibit green algae. We need to change the water to remove the excess of nutrients at the beginning, sometimes we control the amount of light too.

Then, when it is not sufficient, we also add some Yamato shrimps and fish, to consume algae. However it might be difficult to put Yamato shrimps at the beginning, when the plants have not placed their roots on the soil.

How to manage these difficulties efficiently and effectively can tell the difference between beginners and pro aquarists. Also how to control the excess of nutrients in aquariums is the difference between beginners and pro aquarists, and consequently, that will be one of the important factors to make the aquarium beautiful and healthy.

### WHY DO ALGAE APPEAR IN THE AQUARIUM?

The causes of algae are non-absorbent excessive light, nourishment(nitrogen, phosphorus, etc.) and carbon dioxide.

Despite the evolution process of a green algae being preliminary compared to the evolution process of plants, they both have a lot in common. A lot of algae can be generated, particularly in a planted aquarium, because the required elements to the growth of both algae and plants are similar.







### **IF YOUR AQUARIUM IS NEWLY SET UP, YOU WILL BE ABLE TO SEE TWINSTAR'S EFFECT ON PLANT GROWTH PROMOTION.**

TWINSTAR promotes an increase on the growth of plants, of up to 50% at the most. By inhibiting algae from the beginning and making the water crystal clear, plants will have a bigger amount of light on their surface. Also it activates microelements in the water that are very useful to the plants nourishment.

### **WHY DO PLANTS GROW WELL AND FASTER WITH TWINSTAR?**

Nitrogen, phosphorus and potassium are fully provided from the soil in new set ups, but the microelements rapidly begin to deplete. To grow plants quickly and healthily in an aquarium, all nutrients should be provided in the right proportions. TWINSTAR increases insufficient microelements and promotes the rapid growth of plants by removing blocked lights by algae.

### **TWINSTAR CREATES AN OPTIMAL ENVIRONMENT IN AN AQUARIUM.**

The consumption of excess nutrients takes place when plants growth is promoted, which is effective to inhibit green algae. Healthy plants supply a lot of oxygen. Plentiful dissolved oxygen highly increases the density of aerobic bacteria to create an optimal environment in an aquarium.



## GREEN ALGAE INHIBITION AND COMPARISON TEST



Not TWINSTAR installed



TWINSTAR installed





**NANO<sup>+</sup>**

**TWINSTAR NANO PLUS. 50-250 LITERS  
THE BIGGEST CAPACITY**

THREE MODES | THE REACTOR MODEL : M9



## TWINSTAR NANO. 50-180 LITERS

TWO MODES | THE REACTOR MODEL : M7







## TWINSTAR M3 | M5. 30-100 LITERS

M3 : ONE MODE | THE REACTOR MODEL : M5

M5 : TWO MODES | THE REACTOR MODEL : M5



# TWINSTAR PERFORMANCE

## INHIBIT

7

Types of green algae

The national fisheries Research Institute certified TWINSTAR's sterilizein effect for thread, algae, spot algae, brown algae and so on.

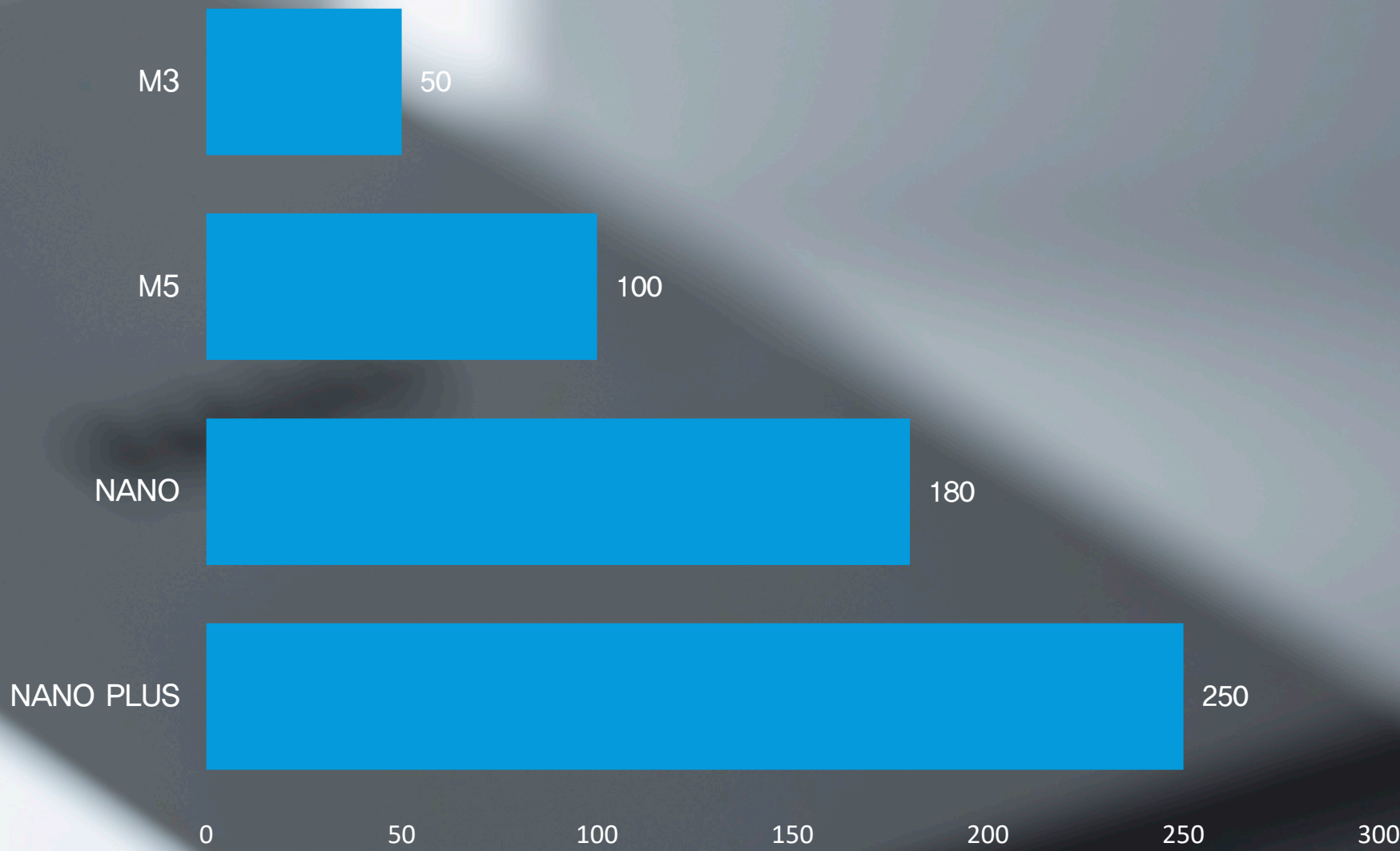
## MAXIMUM

45%

Plants growth promotion effect

We confirmed that when TWINSTAR is set, rotala indica, glossos tigma's growth speed are maximum 50% faster than normal condition.

Capacity(Liters)





A Twinstar Nano aquarium light fixture is shown in a close-up, angled view. The fixture is white and has a circular light head. A fine spray of white particles, likely a cleaning or disinfecting agent, is being emitted from the light head, creating a misty effect. The background is a blurred aquarium scene with green algae growing on dark, jagged rocks. The lighting is bright, highlighting the texture of the algae and the spray of particles.

## TWINSTAR NANO

The easiest way to inhibit algae.



# TWINSTAR

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