

# MAKE & KEEP

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Keep the water surface clean  
by removing the surface film.

## MAKE & KEEP

This section of each issue introduces useful knowledge and product information for creating and maintaining Nature Aquarium or Aqua Terrarium. This time, we explain the new features of VUPPA-II, which is coming out in January 2018, and improvements from the previous model, VUPPA-I. Keep the water surface clean with VUPPA-II.

### Features and improvements of the new VUPPA-II which is simpler and more effective than the previous model.

VUPPA-I is capable of efficiently removing surface film by manually adjusting the water level. It works effectively when the water outflow from the submersible pump is balanced with water inflow into the cleaner. However, when it becomes imbalanced, problems may occur, such as air cavitation of the pump due to the low water level and a performance failure caused by overflow water. Therefore, frequent adjustment of the water level is necessary to maintain the high efficiency of surface film removal. The new VUPPA-II solves this problem by incorporating a float switch. Since this new model automatically optimizes the balance between the amount of water taken in and the amount of outflow, frequent

adjustment is no longer necessary after installation, unlike with VUPPA-I. This new mechanism prevents air cavitation even when the water level in the tank drops due to evaporation. In addition, having a monoblock filter sponge and simplified inner structure, VUPPA-II is easier to clean and maintain than VUPPA-I. Since VUPPA-II's submersible pump has a higher flow rate and filtration efficiency than that of the previous model, VUPPA-II demonstrates outstanding performance in removing the oil filter and can be used as an internal filter for a small size tank. With the new VUPPA-II, you can enjoy beautiful aquascapes in a variety of sizes without surface film.

### VUPPA-II System



VUPPA-II is made of stainless steel, same as VUPPA-I. While the former model has a cylindrical form, the new version has a shape close to a rectangular and a solid design to avoid impairing the aesthetic qualities of aquascapes.

Controlling the operation of the submersible pump with the float switch solves the problem of air cavitation.



ADA NATURE AQUARIUM GOODS  
**VUPPA-II**  
Water surface cleaner

VUPPA-II is the latest model of the water surface cleaner with the same concept as the previous model and some modifications.

### For the creation of more beautiful aquascapes. The background of the development of the water surface cleaner.

The charm of the Nature Aquarium is beautiful aquascapes with thriving aquatic plants. In order to maximize the beauty of Nature Aquarium aquascapes, the designs of tanks and other equipment have been kept simple. However, some of the factors harmful to the aesthetic appeal of aquascapes may arise during the maintenance of aquarium tanks such as algae and surface film. As for algae, the use of physical methods such as scrubbing it off with tools like Pro-Razor and Pro-Brush or biological removal methods including keeping *Caridina multidentata* and *Otocinclus* in the tank

have been used as common practice. However, there was no definitive way to remove surface film. As a result, the water surface cleaner VUPPA-I was developed. Before VUPPA-I, oil films were cleaned by siphoning the film out with a hose at water changes or drawing it into the water stream of Lily Pipe during nighttime aeration. However, neither methods were effective as surface film was easily formed again. VUPPA-I has made it possible to keep the water surface always clean by continuously filtering the oil film along with water through the filter sponge, using a small submersible pump. (VUPPA-I has obtained a patent for its unique mechanism.) VUPPA-II was developed as an improved version of VUPPA-I.