

# SIMPLICITY UV-CATALYTIC REACTOR

## UV energized chemical reactor for all sumps

This state-of-the-art chemical reactor employs a permanent titanium-dioxide catalyst to break down organic aquarium waste and a special blend of reef grade carbon and ferric-hydroxide-oxide to remove this waste out of the aquarium.

The photo catalytic reaction utilizes none-germicidal UV light to generate hydroxyl and super oxide radicals on the surface of the catalytic cell. These radicals break down complex organic molecules oxidizing them into carbon dioxide, water and mineral acids. The Simplicity Reactor Media scavenges the broken down waste, as well as phosphates, silicates, and other waste byproducts. When using the Simplicity UV-Catalytic Reactor and the Simplicity Reactor Media according to instructions, no other use of chemical filter media will be necessary to achieve total nutrient control. The use of this reactor without Simplicity Reactor Media or with media left in tank for way too long is not recommended as the remnants of broken organic waste can get into the aquarium and harm sensitive organisms.

The Simplicity UV-Catalytic Reactor requires very little flow rate to operate at peak efficiency. Any flow rate between 25 and 200 GPH will sufficiently power this reactor. To achieve this flow rate a power head rated up to 500 GPH can be used.

### Warning & safety guidelines

Do not point the UV-emitting energizing cell at your eyes. Prolonged exposure to UV light can cause damage to eyes and skin. Keep out of reach of children!

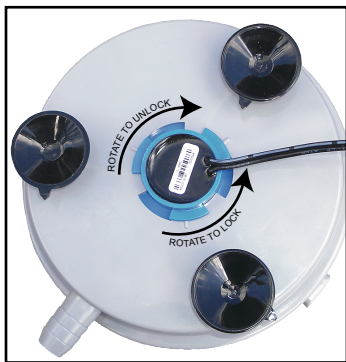
When setting up the UV-Catalytic Reactor, make sure that quick disconnect stays out of water and on the upward side of the anti-drip loop that you must form between the sump and quick disconnect. Also make sure that the loop bottom hangs below the level of the receptacle.

Always unplug transformer from the receptacle before servicing the reactor.

The national code requires that a GFCI be utilized in the branch circuit which supplies electrical power to the electrical aquarium devices. Do not deviate from the Safety Guidelines.

### Assembly

1. Unpack the transformer and cables;
2. Fill reactor chamber with a full 16 oz jar of Simplicity Reactor Media and rinse lightly under running water before screwing on the top screen and lid;
3. Place reactor onto base with the locking pins positioned just in front of latches. Applying gentle downward force and slight rotation engage lock pins into lock latches. To ease insertion into or removal of reactor from base outside of sump, lubricate the o-ring slightly with petroleum jelly or food grade silicone lubricant;
4. Place reactor onto the cleaned bottom of sump, gently press down to activate suction cups, and connect pump or powerhead using a 1/2 inch ID hose;
5. Connect cables from the reactor and transformer and plug the transformer into wall receptacle.



### Simplicity Reactor Media Replacement

**Aquarium size**  
Less than 90 Gal  
90 to 180 Gal  
Greater than 180 Gal

**Recommended usage duration**  
two to three weeks  
two weeks  
one week

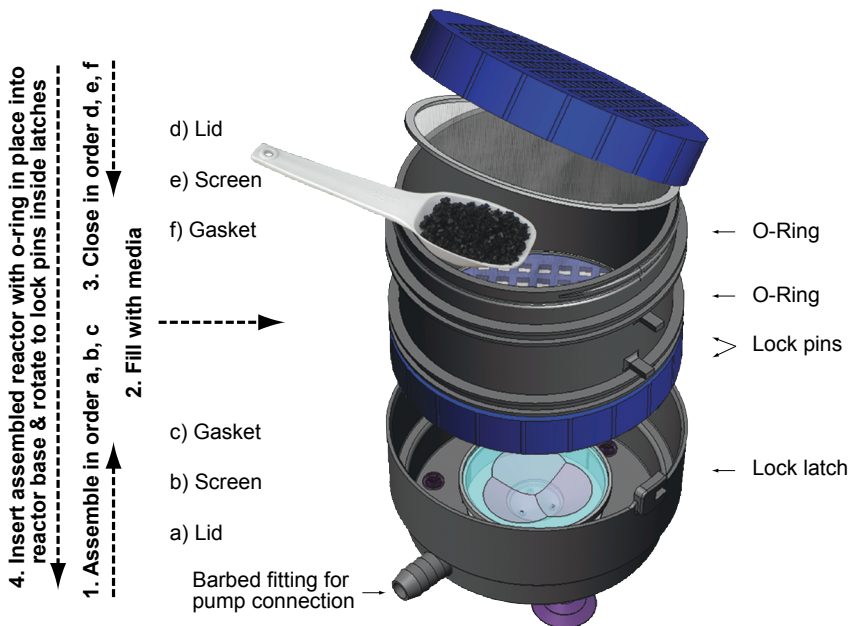
The recommended usage of media is based on a heavily stocked aquarium. A lightly stocked aquarium can extend the replacement interval. However, keep in mind that prolonged exposure of reactor media to bacterial action can lead to the re-release of adsorbed wastes negating the beneficial actions of the reactor and media.

### Cleaning

The catalytic cell should get cleaned with every media replacement or every two weeks, whichever comes first. Use a piece of foam to gently remove any film from the inside surface of the glass catalytic cell and the lens of the energizer unit. If necessary disconnect the catalytic cell as shown at left.

### WARRANTY

Magnavore Company, LLC warrants to the original purchaser that this product, when shipped in its original container, will be free from defective workmanship and materials, and agrees to replace the defective product or part thereof with a new or remanufactured equivalent at no charge for parts and labor for the time period of one year from the date of purchase. To exercise your warranty rights, or obtain replacement parts and/or components contact your local retailer, or visit us on-line at [www.magnavore.com](http://www.magnavore.com)



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