



# Filtration

BEST

## Sump + Protein Skimmer + UV Sterilizer + Ozonizer + Refugium

**Ultraviolet (UV) Sterilizers** -- Ultraviolet Sterilization is a proven, dependable, and effective method for controlling and eradicating algae spores, bacteria, and protozoa (i.e.: ich) present in the water column.

- Extremely beneficial in destroying disease-causing pathogens.

**Ozonizers** -- Ozone is a very reactive form of oxygen that can destroy an enormous variety of liquid waste materials and toxins.

- Highly effective method of maintaining a clean and stable environment for plants and animals.

**Refugiums** -- An area inside the sump, or a separate tank that is lighted containing a deep sand bed and macroalgae used to filter the water.

- Can also be used as a safe house for growing foods or acclimating livestock.

BETTER

## Sump + Protein Skimmer

A Sump and a protein skimmer is the preferred combination for marine aquariums, providing mechanical, biological, and chemical filtration.

- A necessity for reef aquariums
- Easy to maintain and clean
- Requires few or no consumables
- Removes both solid and liquified waste

GOOD

## Power Filters, Canister Filters, & Under Gravel Filters

**Power Filters** -- Power filters are easy to use hang on filters that sit on the rim of your tank. Water is drawn into the filter, then pumped through the filter media, overflowing back into the tank.

**Canister Filters** -- Canister filters and inline filters have much larger capacity than power filters. Water is siphoned from the tank down to the canister filter. Once the water travels through the filter media, it is then pumped back up to the tank.

**Under Gravel Filters** -- Under Gravel Filters pull water and waste through the gravel for biological filtration. The remaining waste is removed by siphoning the gravel during water changes. (not recommended)



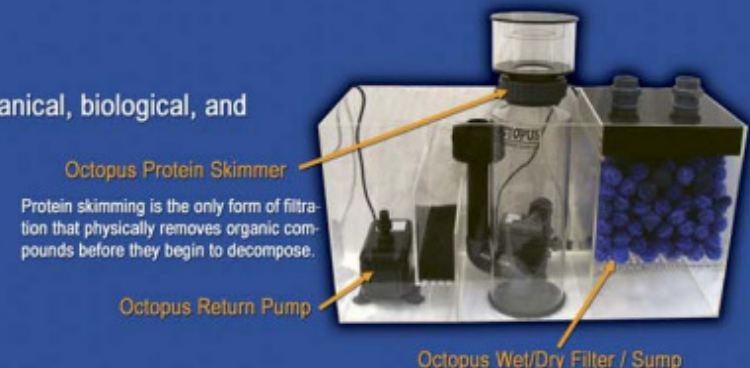
Coralife UV Sterilizer



Red Sea Ozonizer



Inside a Refugium  
Macroalgae  
Crustaceans  
Deep Sand Bed



Octopus Protein Skimmer

Protein skimming is the only form of filtration that physically removes organic compounds before they begin to decompose.

Octopus Return Pump

Octopus Wet/Dry Filter / Sump



Emperor Power Filter



Rean Filstar Canister Filter