

SIMPLICITY CHEMICAL REACTOR

Fluidized bed chemical reactor for all sumps

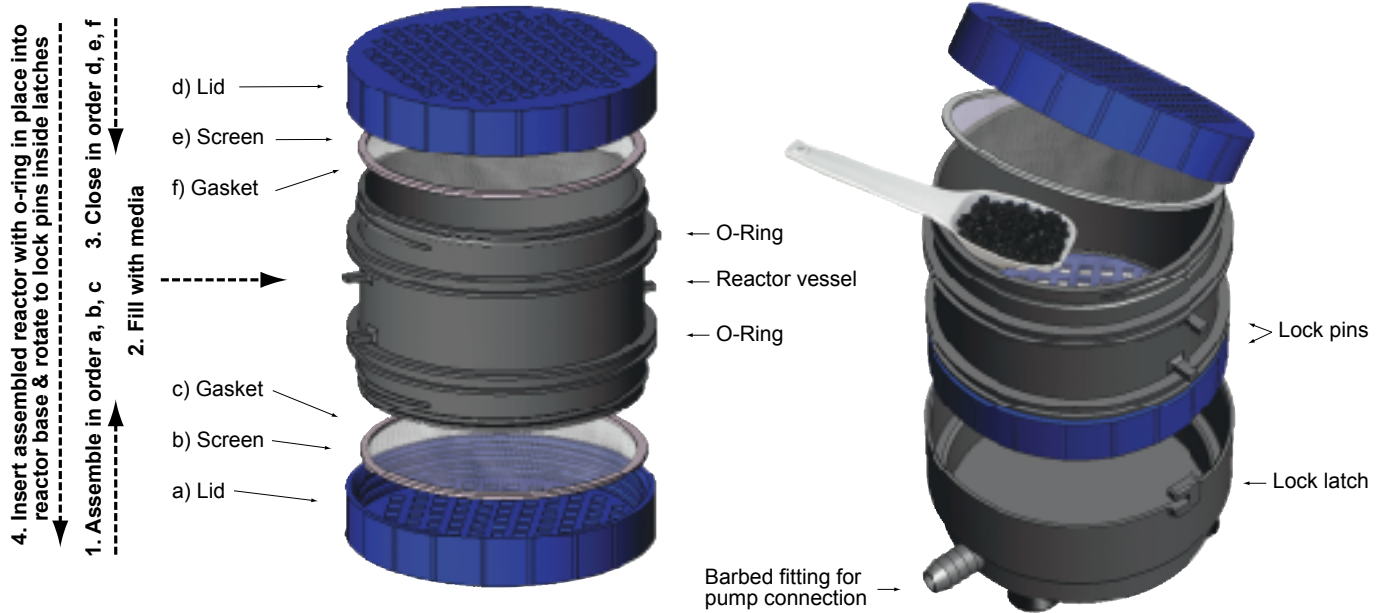
A fluidized bed chemical reactor is the most efficient way to implement chemical filtration. The Simplicity Chemical Reactor is not only super-efficient, it is also the easiest and most user-friendly way of implementing chemical filter media in any sump type filter.

The Simplicity Reactor has been designed to accept any loose filter media. Media that is sold in bags or pouches must be removed from its pouch and poured directly into the reactor. This will ensure bypass free chemical filtration.

The Simplicity Reactor employs 300-micron screens for containing media, making it suitable for even very fine medias such as ion-exchange resins and very small-grained carbons. The symmetrical design of the reactor offers a screen self-cleaning feature. Whenever screen clogs with aquarium debris and the flow rate becomes reduced, removing reactor from base and flipping it 180 degrees restores flow rate.

The Simplicity Chemical Reactor can be operated in two distinct modes: MODE 1 - fluidizes up to 8 oz (225 g) of media at flow rates up to 100 GPH (378 LPH), and MODE 2 - up-flows through up to 16 oz (454 g) of media at flow rates up to 500 GPH (1893 LPH).

Both operational modes are equally efficient and the specific fluidization characteristics are media type and flow rate dependent. In this respect the reactor is self-regulating, continually providing bypass free chemical filtration through a broad range of flow rates. The reactor works equally well whether it is partially exposed or fully submerged; however, it must remain in upright position to work properly.



Assembly

1. Assemble bottom portion of reactor in order: a - b - c (see picture above).
2. Fill reactor chamber from 20% to about 80% of volume with the media of choice.
3. Close top portion of reactor in order: d - e - f (see picture above)
4. Place reactor under the flow of tap or RO water to rinse the media inside.
5. 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 with water.
6. Place reactor onto bottom of sump, gently press down to activate suction cups, and connect pump or powerhead to reactor using a 1/2 inch ID hose.

Media usage chart

Media Type	Recommended usage duration	Recommended frequency of usage
PURA Carbon or equivalent	24 to 48 hrs then dispose	weekly
PURA PhosLock or equivalent	24 to 48 hrs then store for reuse	weekly
PURA Complete or equivalent	24 to 48 hrs then store for reuse	weekly
PURA NitrateLock	12 to 24 hrs then regenerate	weekly

The recommended usage of media is based on actual performance of the various medias in a typical aquarium. Carbon, for example, removes organics that should be then disposed of; leaving carbon for prolonged periods of time in the aquarium allows bacterial action to release the adsorbed organics back into the water. PhosLock resists the release of captured phosphates and can be used in the system for much longer periods of time.

Debris build-up inside reactor can restrict flow. Disassemble reactor regularly to clean screens and/or recharge with fresh media. To avoid media spills, check integrity of 300-micron polyester screens and gaskets before each use. The screens wear out with continuous usage and must be replaced. Reactor parts can be purchased through your local dealer or on-line at www.magnavore.com

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



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