



Precision Marine Systems

Congratulations on the purchase of a state of the art kalkreactor manufactured by Precision Marine Systems. READ ALL INSTRUCTIONS and complete the warranty card and return within ten (10) days to benefit from the one (1) year limited warranty.

Kalkeactor KR620 Instructions

General

Kalkwasser when first mixed has a pH of around 12 and a very high calcium content. Unfortunately, in conventional kalkwasser drippers, the kalk reacts with atmospheric CO₂ and precipitates out into calcium carbonate which is inert. The side effect of this is, by the time your kalk is done dripping, it's not nearly as potent as when you began. This is where your new Precision Marine Kalkreactor comes in. The unit is sealed to keep CO₂ from reacting with your kalkwasser, so that saturated kalkwasser liquid is constantly dosed into your aquarium.

Note: We have found that not all calcium hydroxide powders are created equal. Some are more coarse than others. This can cause premature pump impeller corrosion and/or pump failure. At this writing, it has been said that the Kent brand is of better quality than others, but the choice is up to you.

Water Feed

Method #1

In addition to your Precision Marine Kalkreactor, you will need a dosing pump or feed method, and a timer (preferably digital). Dosing pumps that can be set for a drip rate to match your evaporation work quite well. Water Feed

Method #2

The other method is to gravity feed the reactor with a container of r.o. water located above the kalkreactor and reservoir. You will need to use a float valve in your reservoir. Simply connect the 1/4" polyethylene tubing from the r.o. container to the kalkreactor, then to the float valve. As water evaporates from your system, the float valve will maintain a constant water level in your reservoir using the r.o. water through your kalkreactor.

Use and Setup

1. Mix up a kalkwasser slurry using no more than 2 cups of kalkwasser powder mixed with just enough r.o. water that you can pour it through a funnel.
2. Open the port on the top of the unit.
3. Place a funnel in the open port on the top of the unit, and pour the kalkwasser slurry in. How much you add to the unit is up to you, but 2 inches of powder at the bottom after it settles out is plenty.
4. Fill the reactor to within an inch of the top with r.o. water. Close the port on the lid. Hook tubing from the dosing pump (or r.o. vessel) to the input connector (the connector with the line that goes to the bottom of the reactor). This way your fresh r.o. is added right at the level of the kalkwasser powder to insure saturation.
5. Connect tubing from the output of the reactor and run it to your sump and secure it in some manner so that it can drip into the water (or to your float valve).
6. Now that everything is hooked up, you need to set your timer to run the circulating pump. The pump will need to be turned on 3 to 4 times per day for 10 minutes to circulate the kalkwasser powder inside the reactor to ensure saturation of the liquid. It is not recommended or desirable to run this circulation pump continuously. Now that all connections are made and the timer is set, plug in the reactor pump to the timer, and start up your dosing pump. The reactor will now finish filling and begin dosing saturated kalkwasser into your aquarium.

Maintenance

Cleaning your kalkreactor is done simply by rinsing all components in warm freshwater. Take care when removing the water pump by twisting and aligning the two tabs on the pump volute and body. The impeller pulls right out and should be cleaned thoroughly. If cleaning intervals are too long, the impeller may need to be soaked in straight vinegar overnight. Clean your reactor monthly.

Please be advised – This Kalkreactor is NOT designed to work with line pressure generated from a reverse osmosis unit.



Systems

Precision Marine Systems

1144 Pride Drive
New Braunfels, TX 78132

830-626-2401
830-626-2402
www.precisionmarine.com

Limited Warranty

Precision Marine Systems, Inc. warrants this product against leakage due to defective sealant and workmanship defects as follows:

For a period of one (1) year from the date of purchase, Precision Marine Systems, Inc., will at its option either replace or repair the defective product when used and installed within the guidelines of the instructions. After this one (1) year period, you must pay for all repair charges. All repairs must be performed by Precision Marine Systems.

Drilling holes anywhere in the filter or in any other way altering the filter after the original manufacture by Precision Marine Systems, Inc. at their home offices in New Braunfels, Texas will void all warranties. This warranty does not cover any damage due to accident, misuse, abuse, negligence, or your failure to follow FILTER INSTALLATION INSTRUCTIONS.

To be effective, warranty card must be signed by purchaser and dealer and mailed along with a copy of the original sales receipt to the address listed above within ten (10) days of purchase. We suggest that you retain the dealers dated bill of sale as evidence of the date of purchase.

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THIS WARRANTY CARD MUST BE SIGNED BY BOTH THE PURCHASER AND DEALER AND MAILED ALONG WITH A COPY OF THE ORIGINAL SALES RECEIPT WITHIN TEN (10) DAYS OF PURCHASE.

BUYER'S NAME _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

STORE NAME: _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

FILTER TYPE/MODEL _____ DATE PURCHASED _____

I HAVE THOROUGHLY READ AND UNDERSTAND THE ABOVE WARRANTY AND FILTER INSTALLATION INSTRUCTIONS.

CUSTOMER'S SIGNATURE: _____

DEALER'S SIGNATURE: _____