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Reef System Advanced Manual

Reef System Advanced have been designed to replace the calcium reactor and to obtain a complete reintegration of all the useful elements for the growth of a healthy reef.
This special system is suitable for users of all levels, from beginner to expert, depending on the mode of use. The system is universal and can be applied to all management systems, bare bottom, probiotic (bacterial reproduction), DSB, with or without refugium, etc.
The complete system allows to replenish all the following elements:
Calcium, Carbonates, Magnesium, Potassium, Boron, Strontium, Sulfur, Iodine, Fluorine, Lithium, Zinc, Molybdenum, Manganese, Bromine and other trace elements.

Thanks to the liquid formulation, Reef System Advanced is easier to use, allows a better ion balance and has a greater buffer capacity than the traditional system.
Depending on the mode of use and the products used, the system is addressed to users with different levels of experience:

Simple:	Intermediate:	Expert:	Super Expert:
I	*I*	*I*	*I*
II	*II*	*II*	*II*
(*III*, Macro, Micro optional)	(*III*, Macro, Micro optional)	*III*	*III*
		Macro	Macro
		Micro	Micro
no software	yes software	yes software	yes software, ICP

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Useful information for all levels of use:

- It is possible to dilute the products but the dosages must be corrected accordingly.
- Do not mix the products together unless otherwise specified in the instructions.
- Keep the products at a temperature above 20°C, in particular *II*. Lower temperatures can cause precipitation which can be solved bringing the product to a higher temperature and mixing.

Description of the products

I:	Calcium
II:	Carbonates
III:	Magnesium
Micro:	Micro elements and trace elements useful for coloring
Macro:	Macro elements useful for growth

All products are obtained through the use of raw materials with pharmaceutical grade purity.

Compatible

To be used alone

Compatible

Mode of use: Simple

The simple use method involves the use of only the two *I* and *II* products. The use of *III,* Micro and Macro is optional. The system is mainly used to replace the calcium reactor.
The dosage can be done either by hand or using dosing pumps.

The simplified dosage involves starting with standard dosages and then measuring calcium and carbonates. If the values are stable, the dosages do not need to be changed. If the values are lowered, the dose should be increased. On the contrary, if they rise, the dose must be reduced.

Measure Ca and KH and write down the values.
Dosage:
I: 1 ml per 100 liters
II: 1 ml per 100 liters
After a few days, measure again Ca and KH. Increase or decrease the dose depending on the result obtained. Measure Ca and KH at regular intervals and adjust the dose until the parameters remain stable. The consumption of Ca and KH may vary according to population and period, it is advisable to keep the Ca and KH values also monitored later.
Optional:
III: Dosage a quarter (1/4) the amount of CA 1
Micro e Macro can be used according to instructions, 25 ml every 5 liters of non diluted product.

Water changes:
We recommend measuring salinity from time to time. If you find a salinity higher than normal, remove a little of salt water and replace it with osmosis water to restore the right salinity.
Perform regular water changes as usual.

Mode of use: Intermediate

The intermediate method requires the use of only the two *I* and *II* products. The use of *III*, Micro and Macro is optional. The system is mainly used to replace the calcium reactor.
The dosage can be done either by hand or usign dosing pumps.

The intermediate dosage foresees the use of the software on the Oceanlife website to determine precisely the quantity of the products.
The program calculates both the quantity in ml of product and the total time of the dosing pump, if the flow rate of the pump has been inserted.
If the dosage exceeds 5 ml of non diluted product per 100 liters, we suggest to split the dosage in several times throughout the day, up to a maximum of 5 ml per 100 liters per dosage.

Step 1 (first dosage):
Measure Ca and KH and write down the values.
Do not dose anything for a few days remembering the number of passed days. If the tank has a high consumption of Ca and KH, we recommend waiting a maximum of 2 or 3 days. Perform the Ca and KH tests again. Enter the values in the appropriate spaces within the calculation program (zero in current dosage) and click on the "calculate" button. The system will determine the quantity of products to be used to maintain the values at the desired level and the quantity of specific products to restore the initial Ca and KH values.
Optional:
Perform the same procedure for magnesium and calculate the *III* with the help of the software.
Micro e Macro can be used according to instructions, 25 ml every 5 liters of non diluted product.

Step 2 (possible dose adjustments):
Keep a record of the previous values of Ca and KH. After some time, measure the Ca and KH values again. If these differ from the previous ones, insert again all the values in the appropriate spaces in the software, together with the current dosage of the products. By clicking on "calculate", the program will calculate the new dosage to be replaced to the previous one.

Water changes:
We recommend measuring salinity from time to time. If you find a salinity higher than normal, remove a little of salt water and replace it with osmosis water to restore the right salinity.
Perform regular water changes as usual.

Mode of use: Expert

The expert method requires the use of *I*, *II*, *III*, Micro and Macro. It is a complete replenishment system for all the useful elements.
It is advisable to dose the products using dosing pumps.

The expert dosage foresees the use of the software on the Oceanlife website to determine precisely the quantity of the products.
The program calculates both the quantity in ml of product and the total time of the dosing pump, if the flow rate of the pump has been inserted.
If the dosage exceeds 5 ml of non diluted product per 100 liters, we suggest to split the dosage in several times throughout the day, up to a maximum of 5 ml per 100 liters per dosage.

Step 1 (first dosage):
Measure Ca, KH and Mg and write down the values.
Do not dose anything for a few days remembering the number of passed days. If the tank has a high consumption of Ca and KH, we recommend waiting a maximum of 2 or 3 days. Perform the Ca, KH and Mg tests again. Enter the values in the appropriate spaces within the calculation program (zero in current dosage) and click on the "calculate" button. The system will determine the quantity of products to be used to maintain the values at the desired level and the quantity of specific products to restore the initial Ca, KH and Mg values.
Micro and Macro can be used according to instructions, 25 ml every 5 liters of non diluted product.

Step 2 (possible dose adjustments):
Keep a record of the previous values of Ca, KH and Mg. After some time, measure the Ca, KH and Mg values again. If these differ from the previous ones, insert again all the values in the appropriate spaces in the software, together with the current dosage of the products. By clicking on "calculate", the program will calculate the new dosage to be replaced to the previous one.

Water changes:
We recommend measuring salinity from time to time. If you find a salinity higher than normal, remove a little of salt water and replace it with osmosis water to restore the right salinity.
Perform regular water changes as usual.

Mode of use: Super Expert

The expert method requires the use of *I*, *II*, *III*, Micro and Macro. It is a complete replenishment system for all the useful elements.
It is advisable to dose the products using dosing pumps.

The super expert dosage is formally the same as the expert dosage but in addition it involves the measurement at regular intervals of the parameters through the ICP Aquatic Lab measuring system that allows to evaluate the concentration of all the individual elements that make up the water.
Once the analyzes have been obtained, the report will provide instructions to rebalance the system, if necessary, in each of its parameters.