



Pacific Sun



AR-PRO

Algae reactor S/M/L

A simple and effective natural nutrient control
method that helps promote a healthy and thriving
reef tank!

Preface

Congratulations on your purchase!

Pacific Sun AR-PRO Algae Reactors are made with the highest quality materials, and made to last!

The Pacific Sun Research and Development team are continually testing, developing and releasing new features, and hence the purpose of this document is to touch on the basics of our product and software.

Details about new features will be updated from time to time, but if you have any questions, please contact us at:

service@pacific-sun.eu

Best regards

Pacific Sun EU

A simple and effective natural nutrient control method that helps promote a healthy and thriving reef tank!

The **AR-Pro Algae reactor** series incorporates a unique design that allows macro algae such as Chaetomorpha to grow with great yields, leading to the effective nutrient export of unwanted nitrates and phosphates.

In addition to nutrient control, the use of **AR-PRO** algae reactor provides other benefits such as the consumption of excess CO₂ and elevation of oxygen levels in the aquarium.

Recommended to be used on a reverse daylight cycle, helping to balance pH swings and create a stable environment for the tank inhabitants.

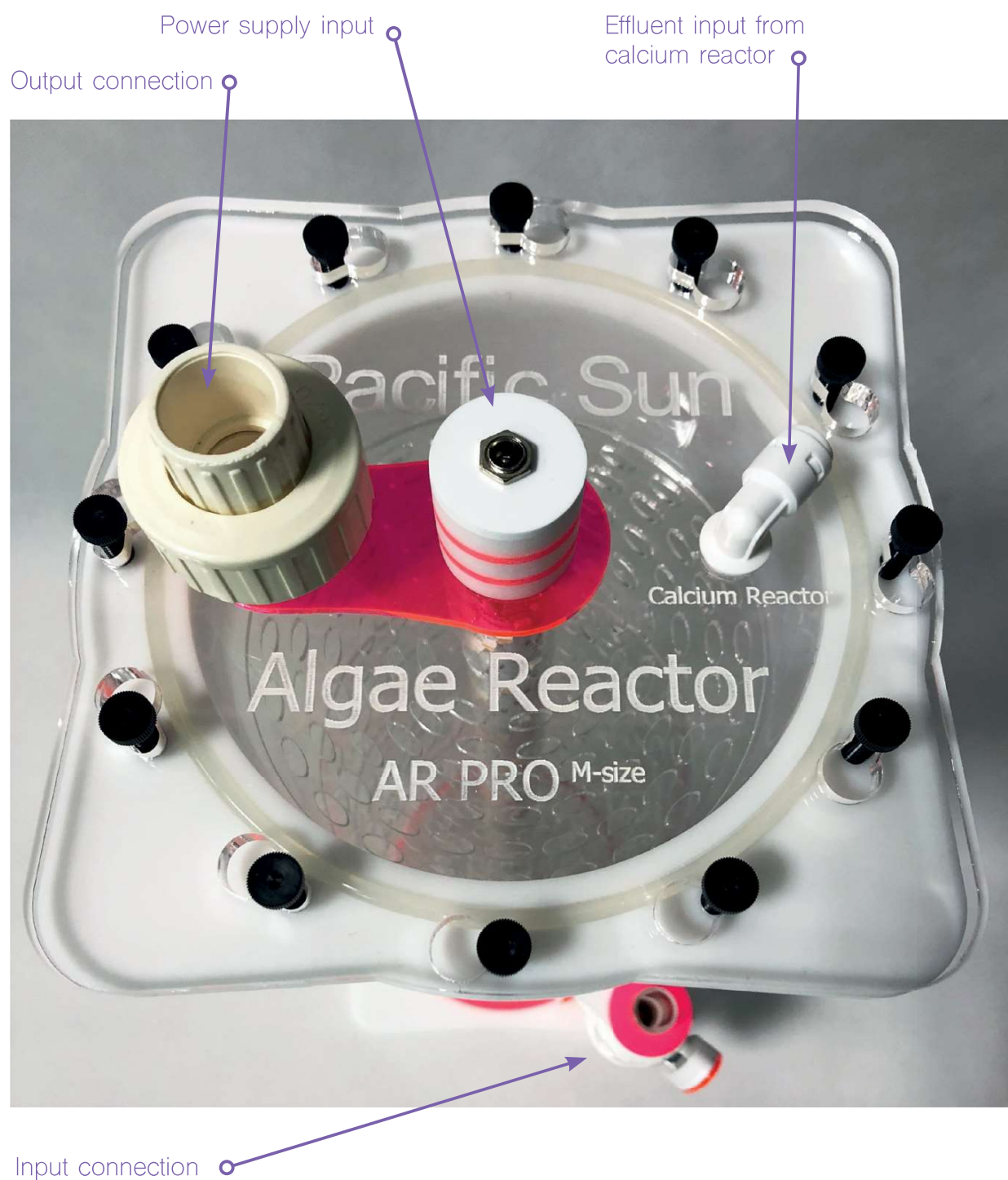


Key factors:

- NO₃ reduction
- PO₄ reduction
- Dissolved Organics reduction
- Carbon dioxide reduction
- Increased Oxygen Levels
- Increase and stabilise pH
- Increased Redox levels
- Improve water quality
- Speed up corals calcification
- Helps create healthy natural conditions for all aquarium inhabitants.
- Replaces other methods of nutrient control such as Carbon Dosing and Bio-Pellets with a natural solution.

Algae reactor schematic.

Below you can find description of all inlets/outlets coming from /to algae reactor.



Output connection

Power supply input

Effluent input from
calcium reactor



Input connection

Adjusting valve

QUICK START GUIDE:

Caution: Please do not run the algae reactor dry! Failure to do so will cause permanent damage.

- 1). Carefully unpack the reactor and all of the contents.
- 2). Plug the power cable into the power supply and the other end into a standard 110–220 volt wall receptacle.
- 3). Connect the power supply to the LED inner segment. Ensure the power supply is away and protected from the water source. Check that all LEDs light properly.
- 4). Connect feed pump to the bottom inlet of the reactor. Use flexible or hard plumbing piping for inlet and outlet of the reactor.
- 5). Open the reactor and pull out the inner segment, then place small clumps of algae on each layer.
- 6). Carefully place the inner segment back inside reactor, and secure lid by twisting and tightening the screws.
- 7). Use a controller or timer to run the reactor on a reverse daylight schedule. For best results the reactor should be turned on 1h before the main display lights go on and remain on 1h after display lights are turned off.
- 8). Turn on the flow to the reactor and check for any leaks.
- 9). If you are using calcium reactor – connect effluent tubing(output from calcium reactor) to proper port on **AIR-PRO** Algae reactor. It will help remove the rest of carbon dioxide from effluent and increase pH in final effluent(also overallly in main tank/aquarium). If calcium reactor is not used – valve on Calcium port should be completely closed.
- 10). Remember about inspecting your reactor every week or two and removing some fast growin algea. To much them inside will block flow and decrease reactor efficiency.

Specifications:

AR-PRO S

System Size: 100–500L

Recommended Flow Rate: 600–1000L/H

Body Material: High Quality Cast Acrylic

Dimensions: 150x150x450 mm

Hose Inlet/Outlet: 20 mm

Flow Pattern: Bottom Up

Light Type: Green Plant grow leds

Power consumption: 18,8W

Placement: AR-PRO reactors are made from reef safe materials which allows placement of the reactor inside or outside of the sump.

AR-PRO M

System Size: 500–1000L

Recommended Flow Rate: 1000–1500L/H

Body Material: High Quality Cast Acrylic

Dimensions: 190x190x550 mm

Hose Inlet/Outlet: 20 mm

Flow Pattern: Bottom Up

Light Type: Green Plant grow leds

Power consumption: 23,5W

Placement: AR-PRO reactors are made from reef safe materials which allows placement of the reactor inside or outside of the sump.

AR-PRO L

System Size: 1000–2000L

Recommended Flow Rate: 1500–2000L/H

Body Material: High Quality Cast Acrylic

Dimensions: 250x250x550 mm

Hose Inlet/Outlet: 20 mm

Flow Pattern: Bottom Up

Light Type: Green Plant grow leds

Power consumption: 25,8W

Placement: AR-PRO reactors are made from reef safe materials which allows placement of the reactor inside or outside of the sump.



Pacific Sun

If you need technical support:
please contact with service@pacific-sun.eu!

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