

# GENESIS | ROCv™

## AUTOMATIC REPLENISHMENT MODULE

### INSTALLATION AND USE



Congratulations on your purchase of the GENESIS | ROCv™ Automatic Replenishment Module! Please take a few moments to read and follow these installation instructions so you can fully enjoy your new system right out of the box. If you have any questions at all, please visit us at [www.GenesisReefSystems.com](http://www.GenesisReefSystems.com), or email us at [Support@GenesisReefSystems.com](mailto:Support@GenesisReefSystems.com). We are always happy to hear from our customers!

The following items have been shipped with your system:

- (1) ROCv™ Module
- (1) Dual Level Sensor Harness
- (2) Level Sensor Shrouds
- (1) Level Sensor Vertical Member
- (2) Suction Cups
- (2) Mounting Screws

NOTE: The ROCv™ must be used with the Genesis STORM™ Specialized Top Off System (sold separately).

## Installation

1. Find suitable mounting location
  - The ROCv™ Module is designed to be mounted between your supply line and your reverse osmosis filter. It must have a minimum pressure of 5 psi on the inlet side of the valve to work properly, and it can handle an operating pressure of 145 psi. If your supply pressure is higher than 145 psi, please install a pressure reducer between the ROCv™ Module and your supply line. It is unlikely that your supply pressure exceeds 145 psi, but if you are unsure please seek the advice of a licensed plumber or contact your water provider.
  - The inlet and outlet fittings swivel 360° for optimal routing of the tubing.
  - Your ROCv™ Module should be located in a dry location protected from accidental splashes. It can be mounted in any orientation, but we strongly recommend securely mounting it in the orientation shown in the illustration on the front page of this manual, and creating a drip loop with the power cord.
  - The power cord is approximately 6 feet in length, and level sensor cables are approximately 8 feet in length. Ensure that the power cord will reach your STORM™ Control Module before permanently mounting the module.
2. Mount the ROCv™ Module
  - Ensure no electrical wires or plumbing reside behind or within the mounting area. Be very careful when drilling or driving screws into a blind mounting location!
  - Using the supplied template as a guide, mark and drill two pilot holes as indicated. Note that a line drawn between the centerpoints of the two holes must be perfectly vertical.
  - Insert wall anchors if necessary, following all directions provided with the anchors.
  - Position the ROCv™ Module and drive the mounting screws into the holes or anchors until snug.
3. Mount the Level Sensors
  - The Level Sensor Shrouds are designed such that they can be used in many different configurations.
    - Level Sensors can be installed inside, above, or below the shrouds
    - The Shroud Cover can be inserted onto the rear of the Shroud to create a hanger that is adjustable for tank lip widths as narrow as 1/2" or as wide as 2-1/4"
    - The shrouds can be left open or can be closed to prevent critters or water turbulence from affecting the sensors' performance
    - The shrouds will slide onto and secure themselves on any standard 1/2" PVC pipe, allowing them to be positioned at any height
    - The shrouds can be hung from one another using the T-shaped tabs and slots on the sides, allowing multiple sensors to be positioned on a single vertical member at slightly different heights.
    - Level Sensor wires can be dressed through the vertical member or PVC pipe to give a clean look to your installation
  - Installing the Operation Level Sensors into the Shrouds
    - Install one Level Sensor inside each shroud by loosening the plastic nuts on the sensors and sliding the sensors into the wide notches in the shrouds
    - Remove any packing foam or tape from the Level Sensors
    - Place the Shroud Covers onto the Shrouds to protect the Level Sensors from turbulence if desired
    - Install Suction Cups onto the lower Shroud if desired
  - Placement of the Sensors (we recommend utilizing the existing hanger assembly already used with your STORM™ Top Off System)
    - Affix the shroud containing the "ROCv™ Max" sensor to the side of the top STORM™ shroud on the top off bin, slightly below the STORM's™ Failsafe Level Sensor if present. The cord on the sensor should come out of the top of the shroud. Alternately, the "ROCv™ Max" Sensor's shroud can be slid onto the vertical member and placed at any height below the hanger shroud.
    - Affix the shroud containing the "ROCv™ Min" sensor to the side of the bottom shroud, slightly above the STORM's™ "Top Off Bin" sensor. The cord on the sensor should come out of the top of the shroud.
    - You can also create a separate hanger assembly using the supplied Mount Vertical Member, placing the "ROCv™ Max" sensor in the hanger shroud or hanging below it.
4. Connect the water supply and reverse osmosis filter
  - **IMPORTANT:** ALWAYS FOLLOW LOCAL PLUMBING CODES WHEN CONNECTING TO OR USING EXISTING PLUMBING. UNLAWFUL OR IMPROPER CONNECTION OR USE CAN RESULT IN PROPERTY DAMAGE, HEALTH RISKS, AND ENVIRONMENTAL RISKS. IF YOU ARE UNCOMFORTABLE OR UNQUALIFIED WITH THIS TASK, SEEK THE ADVICE AND SERVICE OF A QUALIFIED, LICENSED PLUMBER. GENESIS REEF SYSTEMS, LLC CANNOT BE HELD LIABLE FOR ANY DAMAGES DIRECTLY OR INDIRECTLY RESULTING FROM

CONNECTION TO OR USE OF EXISTING PLUMBING. WHEN CONNECTING TO OR USING EXISTING PLUMBING YOU ARE DOING SO AT YOUR OWN RISK.

- Don't forget to turn off the water supply to your reverse osmosis filter before proceeding!
- Cut or remove the  $\varnothing$ .250 OD tubing that supplies water to your reverse osmosis filter.
- Inspect the ends of the cut tubing to ensure that the cuts are straight there are no sharp edges that could damage the seals on the ROCv's™ fittings. If necessary, trim to make straight and remove any sharp edges.
- Insert the end of the tubing from your water supply into the fitting on the right side of your ROCv™ Module until it bottoms out, then pull back lightly to ensure a secure connection.
- Insert the end of the tubing going to your reverse osmosis filter into the fitting on the left side of your ROCv™ Module until it bottoms out, then pull back lightly to ensure a secure connection.
- Make sure that the water will flow in the direction shown by the arrow on the front of the ROCv™ Module.
- Before plugging your ROCv™ Module into the STORM™ Control Module, SLOWLY turn the water supply back on and carefully check for any leaks. If you detect a leak, immediately turn off your water supply and determine where the leak is coming from. To remove the tubing, push the grey ring inward toward the fitting and simultaneously pull the tubing to remove it. Inspect and repair the tubing end if necessary, and look into the fitting to make sure the seal is seated properly against the walls of the fitting. Reinsert the tubing, recheck the flow direction, and again slowly turn the water supply back on. If the leak persists or is coming from within the ROCv™ housing, please contact our customer service department immediately for a replacement.

#### 5. Connect the Components

**NOTE:** ALL WIRES SHOULD HAVE A DRIP LOOP TO PREVENT WATER FROM ENTERING THE STORM™ AND ROCv™ MODULES

- Plug the Dual Level Sensor Harness into the lower right 6-position connector on the STORM™ Control Module (as you are viewing the back side of the Control Module).
- Plug the ROCv™ Module into the AUXILIARY outlet on the STORM™ Control Module.

### **Operation**

Set up your STORM™ to operate your ROCv™ by simply depressing and holding the AUXILIARY MODE button on the STORM™ Control Module for three seconds. That's it – you're ready to go! If at any time you want to manually turn off the ROCv™ Module, simply press and release the AUXILIARY MODE button.

The ROCv™ will allow water to flow to your reverse osmosis filter once the water level in the top off bin drops to the "ROCv™ Min" sensor. It will continue to allow water to flow until the water level reaches the "ROCv™ Max" sensor.

Please note that your STORM™ device monitors the signals for the "ROCv™ Max" sensor even when the AUXILIARY MODE is not set to "ROCv™." Therefore, if your top off bin is full and you set the STORM™ auxiliary mode to "ON," the peripheral device plugged into the AUXILIARY outlet on the STORM™ will not operate. This is a safety precaution to prevent overfilling the top off bin if the AUXILIARY MODE is inadvertently left in the "ON" state.

See your STORM™ Specialized Top Off and Replenishment Module's Installation and Use Manual for additional information regarding the use and operation of the ROCv™ Module.

## Troubleshooting

Your ROCv™ is designed to provide years of reliable service. The following table describes some typical symptoms, reasons, and solutions to situations that you may encounter. If you still have difficulty or questions about your ROCv™ system, please call our customer service line or email our customer care representatives for further assistance at [Support@GenesisReefSystems.com](mailto:Support@GenesisReefSystems.com). Please have your system's serial number available when you call and provide it with any correspondence so we may better help you. The serial number can be found on the back of the ROCv™ Module.

Symptom	Possible Reason	Solution
The ROCv™ Module does not supply water to the reverse osmosis filter, even though the STORM™ Control Module indicates that the ROCv™ valve is open	1. No Power	1. Ensure ROCv™ Module is firmly plugged into AUXILIARY outlet on STORM™ Control Module.
The water level in the top off bin has dropped below the "ROCv™ Max" sensor, but the ROCv™ is not allowing water to flow to the reverse osmosis filter	1. This is normal operation	1. The ROCv™ will not allow water to flow until the water has dropped to the "ROCv™ Min" sensor, and then it will fill the top off bin back up to the "ROCv™ Max" sensor.
The water level in the top off bin has dropped below the "ROCv™ Min" sensor, but the ROCv™ is not allowing water to flow to the reverse osmosis filter.	1. The STORM's™ AUXILIARY MODE is not set to "ROCv™" 2. ROCv™ not plugged in 3. Water is not being supplied to ROCv™ 4. Faulty Level Sensor or Level Sensor not plugged in	1. Press and hold the AUX button for three seconds to set the AUXILIARY MODE to "ROCv™" 2. Ensure ROCv™ Module is firmly plugged into AUXILIARY outlet on STORM™ Control Module. 3. Make sure that the shut-off valve from the water supply is open. 4. Check connections and manually slide float along sensor shaft; if no change, replace Level Sensor
The water level in the top off bin is higher than the "ROCv™ Max" sensor, but the ROCv™ is still allowing water to flow into the bin.	1. Faulty Level Sensor or Level Sensor not plugged in	2. Check connections and manually slide float along sensor shaft; if no change, replace Level Sensor
The water level in the top off bin is at the "ROCv™ Max" sensor, but the ROCv™ won't allow additional water to be added even though the STORM™ auxiliary mode is set to "ON"	1. This is normal operation to prevent potentially overflowing the top off bin	1. The STORM™ monitors the "ROCv™ Max" sensor regardless of what auxiliary mode the STORM™ is set to. This prevents a potential overflow if the auxiliary mode is inadvertently left in the "ON" state.

**Product Use** Many factors beyond Genesis Reef Systems' control and uniquely within the user's knowledge and control can affect the use and performance of a Genesis Reef Systems product in a particular application. Given the variety of factors that can affect the use and performance of a Genesis Reef Systems product, the user is solely responsible for evaluating the Genesis Reef Systems product and determining whether it is fit for a particular purpose and suitable for the user's method of application.

**Limited Warranty** Genesis Reef Systems warrants for 6 months from the date of purchase that Genesis Reef Systems products will be free of defects in material and manufacture. Genesis Reef Systems makes no other warranties, express or implied, including but not limited to, any implied warranty of merchantability or fitness for a particular purpose. This limited warranty does not cover damage resulting from use or misuse of a Genesis Reef Systems product, workmanship in application, or application or storage not in accordance with Genesis Reef Systems recommended procedures. This warranty does not apply to products not directly manufactured by Genesis Reef Systems or consumable items that may degrade as part of normal use.

**Limitation of Remedies and Liability** If the Genesis Reef Systems product is proved to be defective within the warranty period stated above the exclusive remedy, at Genesis Reef Systems' option, shall be to refund the purchase price of or to repair or replace the defective Genesis Reef Systems product. Genesis Reef Systems shall not otherwise be liable for loss or damages, whether direct, indirect, special, incidental, or consequential, regardless of legal theory asserted, including negligence, warranty, or strict liability.

ROCV™

# System Layout

