

**WARNING**



***Buyer/User Assumes All  
Responsibility For Safety And  
Proper Use Not In Accordance With  
The Directions And Safety Labels.***

# Rio®

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## 110 HANG ON BACK WET/DRY FILTER WITH QUAD ACTION

### WARNING AND SAFEGUARDS

**Before installing Rio 110 Hang on Back filtration system, read and follow all warnings and safeguards and to guard against injury, basic safety precautions need to be observed.**

*This product may contain chemicals known to the state of California to cause cancer and or birth defects or other reproductive harm. Wash your hand after handling this product.*

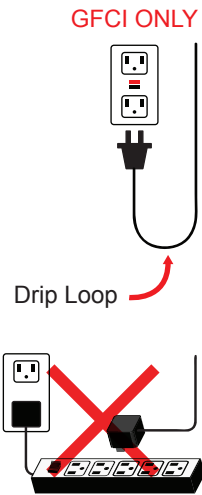
*It is your sole responsibilities to verify that the plug and the receptacle are clean and free of moisture and salt build up at all times.*

*The receptacle must be free of water, salt, calcium, magnesium and dust. Failure to do so can cause fire, damage to property, permanent damage to the product and personal injury not limited to loss of life.*

*Do not plug into extension cord/power strip.*

*A drip loop must be used when plugging all electrical aquarium devices. A drip loop is that part of the cord hanging below the receptacle.*

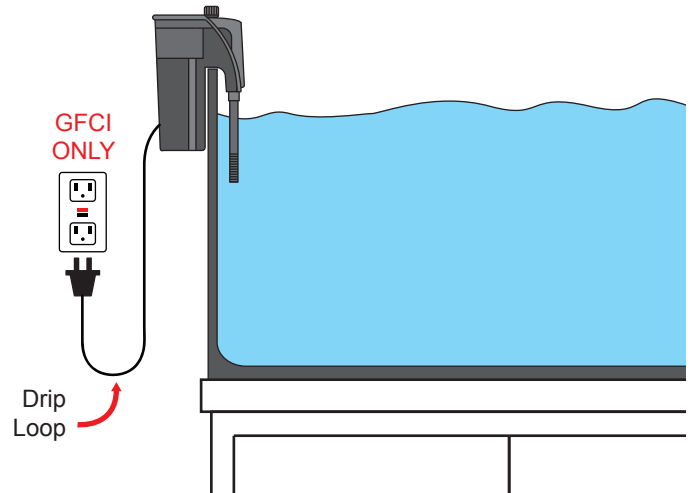
*The national code requires that a GFCI (Ground fault circuit interrupter) be used in the branch circuit supplying all power to water pumps and electrical aquarium equipment. If you do not have a GFCI, have an electrician install one prior to operating any aquarium component.*



- Read and follow all warning and instructions.
- If the filter is to fall into the water or is sitting in water do not reach it. Unplug the filter first then retrieve and/or remove.
- Do not operate if any of the electrical cords are damaged.
- Always unplug all electrical devices prior to working on the aquarium and/or filter.
- Never yank or pull the cord from the electrical outlet.
- Only use the filter for it intended use.
- Do not use soaps or detergents to clean the filter.
- Do not operate the filter without water.
- All components are intended for indoor use only.

### INSTALLATION

1. Place the filter on the aquarium
2. Use the filter cartridge from the plastic bag.
3. Removed the filter cartridge from the plastic bag.
4. Replace rain tray, biological media and drip plate.
5. Fill the filter with water.
6. Plug the filter into a GFCI electrical outlet using a drip loop.
7. Place the filter cover on the filter.
8. Verify that there are not any leaks.



### MAINTENANCE

**To insure a properly operating filter, the filter should be changed at least once a month. More frequent filter changes may be needed depending on the aquariums biological load.**

1. Unplug the filter from the electrical outlet.
2. Drain water from the filter.
3. Remove the rain tray, biological media and drip plate.
  - a. Rinse the biological media with a small amount of aquarium water. Failure to use aquarium water will cause the beneficial nitrifying bacteria to die.
  - b. Rinse and clean both the drip plate and the rain tray. Verify that all the holes are free of debris.
4. Remove the Filter Cartridge and remove the Foam Biological Media. Rinse the biological media with a small amount of aquarium water. Failure to use aquarium water will cause the beneficial nitrifying bacteria to die.
5. Replace the Foam Biological Media into the new Filter Cartridge. Insert into the filter.
6. Replace the Rain Tray. Biological Media and Drip Plate.
7. To maintain the motor:
  - a. Remove the intake tube and clean well with a small bottle brush.
  - b. Remove the impeller well cover.
  - c. Remove the impeller and clean all slime debris.
  - d. With a small bottle brush clean the inside of the impeller well and rinse with fresh water.
  - e. Place the impeller into the motor housing.
  - f. Replace the impeller well cover.
  - g. Replace the intake tube.
8. Now follow directions for installation.

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