

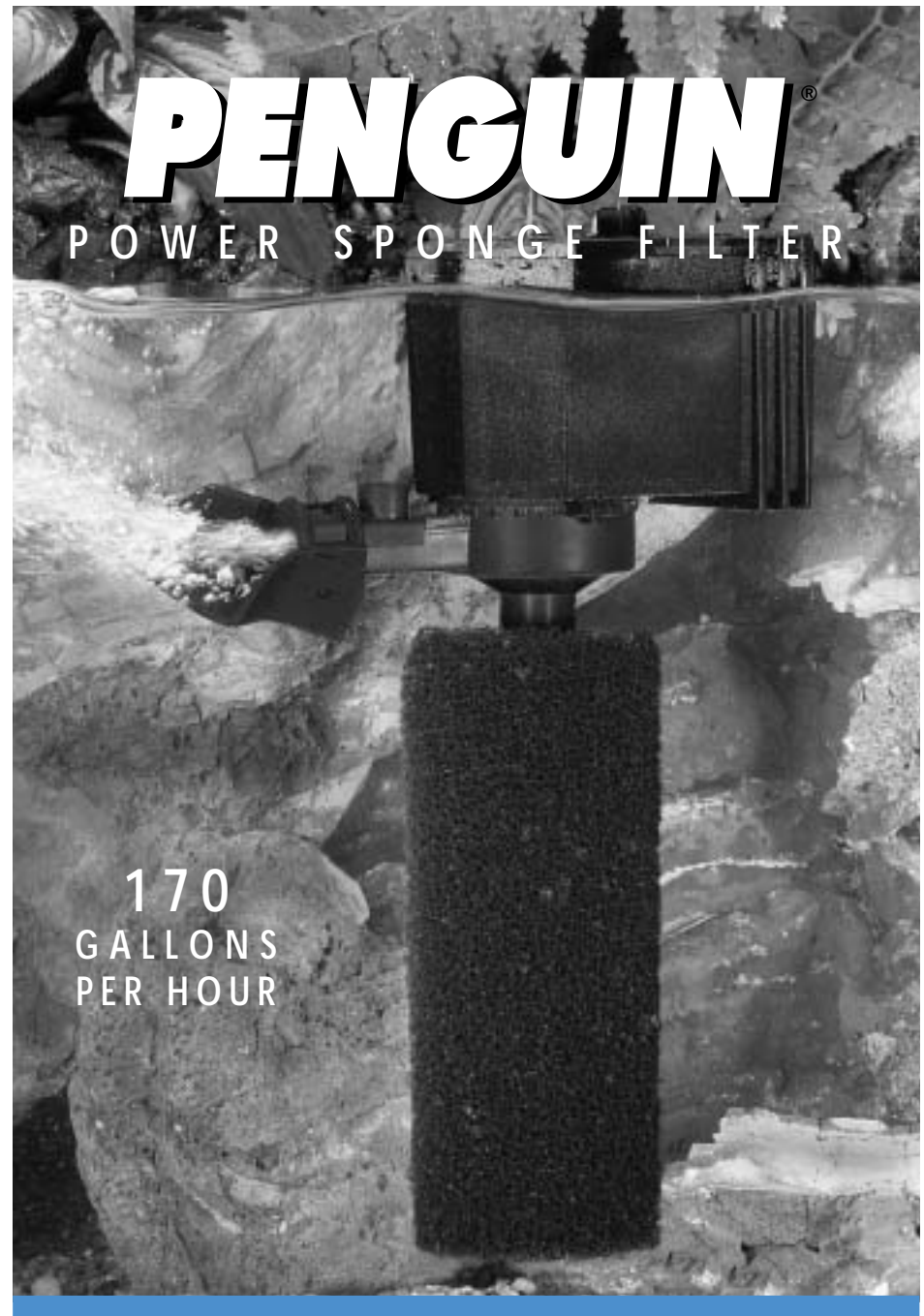


Aquarium Products
Moorpark, CA 93021

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are trademarks of AQUARIA, Inc.



Penguin Power Heads are listed by Underwriters Laboratories and Canadian Standard Association to ensure that they meet stringent U.S. and Canadian safety requirements.



OWNER'S MANUAL

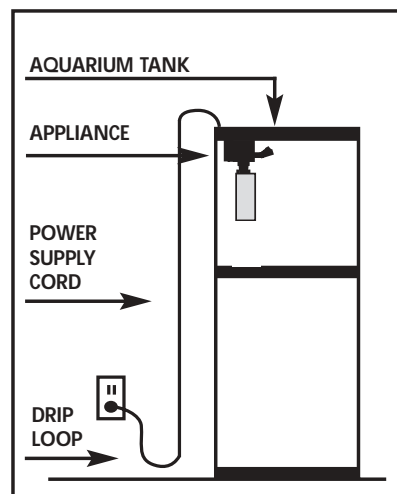
IMPORTANT SAFEGUARDS

WARNING: To guard against injury, basic safety precautions should be observed, including the following.

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

DANGER: To avoid possible electric shock, special care should be taken in the use of aquarium equipment. For each of the following situations, do not attempt repairs yourself. Return the appliance to an authorized service facility for service or discard the appliance.

1. A. If the appliance shows any sign of abnormal water leakage, immediately unplug from the power source.
B. Do not operate any appliance if it has a damaged cord or plug, or if it is malfunctioning or if it is dropped or damaged in any manner.
C. To avoid the possibility of the appliance plug or receptacle getting wet, position aquarium stand and tank to one side of a wall mounted receptacle to prevent water from dripping onto the receptacle or plug. A "drip loop", shown in the figure at right, should be arranged by the user for each cord connecting an aquarium appliance to a receptacle. The "drip loop" is that part of the cord below the level of the receptacle or the connector, if an extension cord is used, to prevent water from traveling along the cord and coming in contact with the receptacle. If the plug or receptacle does get wet, DON'T unplug the cord. Disconnect the fuse or circuit breaker that supplies power to



the appliance. Then unplug and examine for presence of water in the receptacle.

2. Close supervision is necessary when any appliance is used by or near children.
3. To avoid injury, do not contact moving parts or hot parts such as heaters, reflectors, lamp bulbs, etc.
4. Always unplug an appliance from an outlet when not in use, before putting on or taking off parts, and before cleaning. Never yank cord to pull plug from outlet. Grasp the plug and pull to disconnect.
5. Do not use an appliance for other than intended use. The use of attachments not recommended or sold by the appliance manufacturer may cause an unsafe condition.
6. Do not install or store the appliance where it will be exposed to the weather or to temperatures below freezing.
7. Make sure an appliance mounted on a tank is securely installed before operating it.
8. Read and observe all the important notices on the appliance.
9. If an extension cord is necessary, a cord with a proper rating should be used. A cord rated for less amperes or watts than the appliance rating may overheat. Care should be taken to arrange the cord so that it will not be tripped over or pulled.
10. This appliance has a polarized plug (one blade is wider than the other). As a safety feature, this plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician. Never use with an extension cord unless plug can be fully inserted. Do not attempt to defeat this safety feature.

SAVE THESE INSTRUCTIONS

PENGUIN POWER SPONGE FILTER

Heavy waste loads associated with Turtle and Amphibian habitats require more power and greater filtration efficiency than a conventional air pump or low-flow submersible aquarium filter can provide.

Traps Dirt Like No Others

Compact and performance-tested, the Penguin Power Sponge Filter has the capacity and the "muscle" to handle tough jobs with ease. It delivers constant, powerful water flow...at an unmatched rate of 170 GPH. It's open-cell sponge efficiently traps and filters heavy waste. It also provides vital biological filtration. And the reusable sponge slides off easily for cleaning or replacement.

Safe. Silent. Reliable.

The Penguin Power Sponge Filter is U/L and CSA listed. Its epoxy-sealed, moisture-proof motor and electrical components ensure safe operation. The high performance energizer ensures silent operation and is impervious to water. The adjustable flow diffuser directs water current in any direction to ensure maximum circulation and surface agitation. And...because its so compact, the Penguin Power Sponge Filter can be concealed behind rocks, plants or coral to create unique waterfall effects.

Versatile, too!

Plus, it's perfect as a reverse flow power head for super-efficient undergravel filtration, delivering oxygenated water to even the deepest layers of the gravel bed.

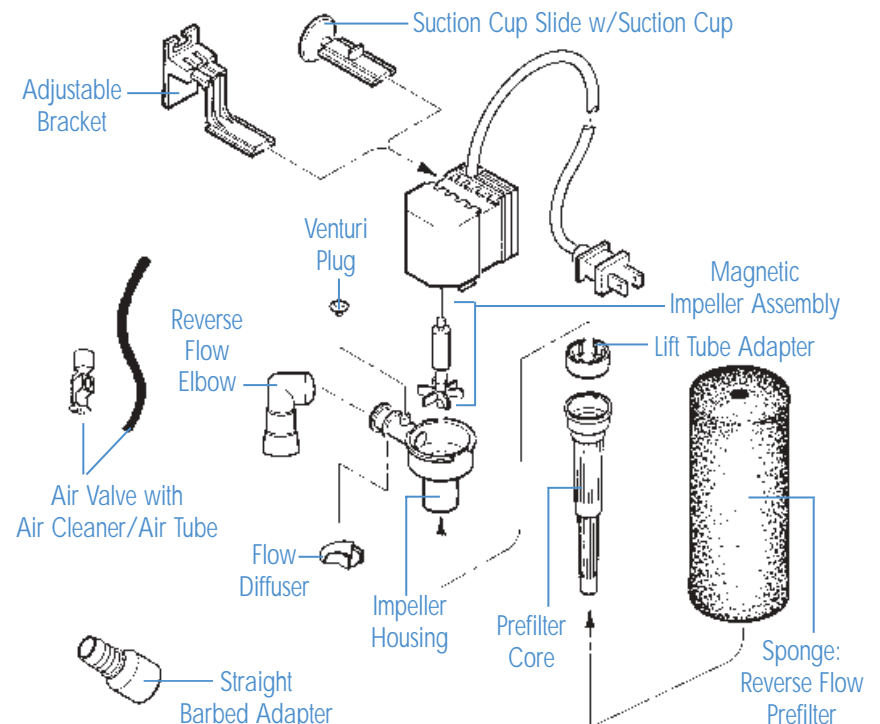
Customer Service Information

If parts are unavailable from store where Power Sponge Filter was purchased, call our Customer Service Department at (800) 322-1266, Monday - Friday from 8AM - 5PM (Pacific Time). Please have your manual and MasterCard or VISA ready when ordering.

PARTS IDENTIFICATION

Penguin Power Sponge Filter - 660R

Description	Part #
Air Valve with Air Cleaner/Air Tube	PR1270
Adjustable Bracket	PR1271
Impeller/Magnet Assembly	PR1282
Flow Diffuser	PR1274
Lift Tube Adapter/Strainer	PR1269
Suction Cup Slide with Suction Cup	PR1277
Impeller Housing	PR1278
Sponge: Reverse Flow Prefilter	PR1280
Core and adapter	PR1281
Venturi Plug (pkg. 2)	PR1283
Straight Barbed Adapter	PR2025



ASSEMBLY/OPERATION

The following section outlines the setup procedure for the Penguin Power Sponge Filter, Model 660R. Instructions for reverse flow installation are on page 8.

NOTE: Most parts are preassembled and do not require disassembly prior to installation. We recommend that you read the Maintenance section that follows (pg. 9) to familiarize yourself with the overall operation of your Penguin Power Sponge Filter.

Step 1. Install Adjustable Diffuser

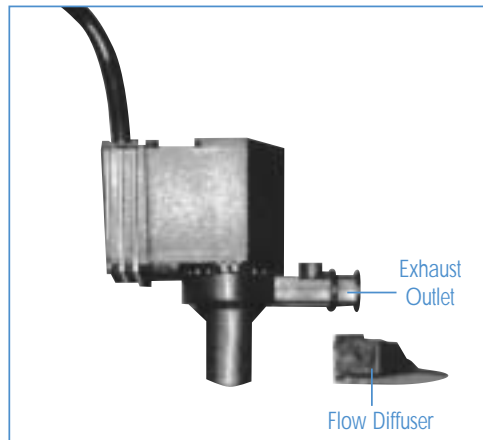


FIGURE 1

Snap rotating **Flow Diffuser** onto outside of Power Head **Exhaust Outlet** (FIGURE 1).

NOTE: To create a unique waterfall effect, replace Adjustable Diffuser with Straight Barbed Adapter (included). Fit length of 1/2" tubing over barbed end. This will direct water flow to any desired location within aquarium.

Step 2. Install Adjustable Bracket

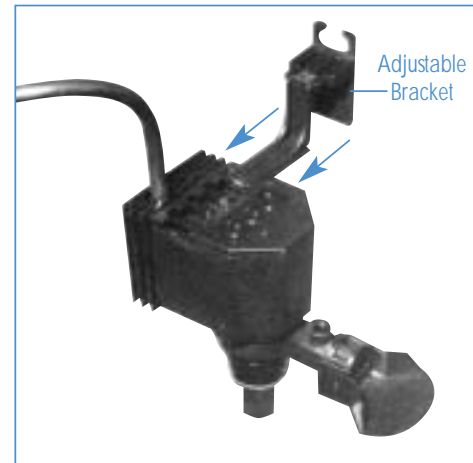


FIGURE 2

Slide **Adjustable Bracket** into channel on top of Power Head (fits from either side to accommodate right or left mounting). (FIGURE 2).

Step 3. Assemble Sponge Prefilter



FIGURE 3

Slide **Sponge Prefilter** completely over **Sponge Prefilter Core**. Making sure **Adapter** is installed in Prefilter Core, press Core and Sponge over the bottom of the **Impeller Housing**.

Step 4. Install Power Sponge Filter

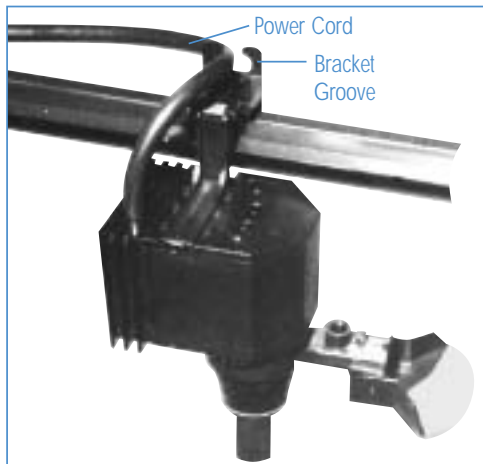


FIGURE 4

For maximum aeration and circulation, position Power Sponge Filter so exhaust flow slightly breaks water surface. Position Power Cord snugly in **Bracket Groove**. (FIGURE 4).

NOTE: When considering height allowance, keep in mind that Impeller Housing and Diffuser must be completely submerged to operate properly.

Step 5. Install Air Control Valve and Tube

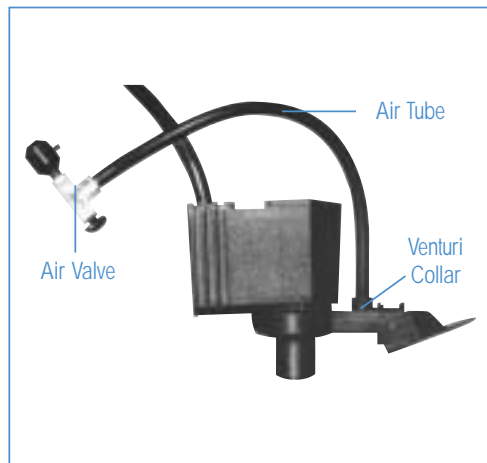


FIGURE 5

Push **Air Control Valve** onto one end of **Air Tube** and press other end firmly into **Venturi Collar**. Press assembled Air Tube into Bracket Groove (on Adjustable Bracket only) alongside Power Cord. (FIGURE 5).

NOTE: If no air is desired, do not install Air Tube. Cover hole with enclosed **Venturi Plug**. Failure to plug hole will present a danger to fish.

Step 6. Plug In Unit

Use a standard 115 volt polarized receptacle. Do not force plug into a non-polarized receptacle. Adapters are available at your local hardware store.

CAUTION: Do not allow a Power Sponge Filter to operate out of the water at any time.

Step 7. Optimize Flow

Pivot Exhaust Outlet from side to side and adjust Flow Diffuser. Fine tune air flow by adjusting Air Control Valve. Clockwise for less air, counterclockwise for more air.

Set Diffuser to agitate surface of water. Never point diffuser directly up. If water evaporates and tank water level drops, water could be pumped out of the aquarium (FIGURE 6).

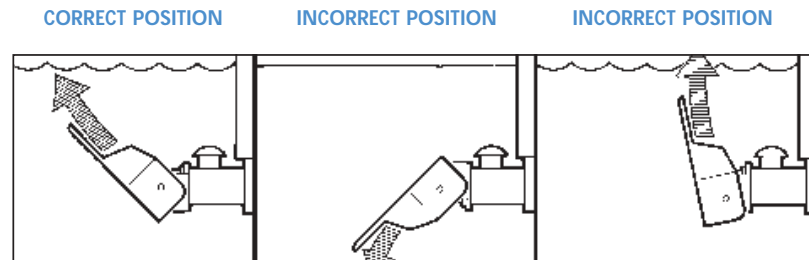
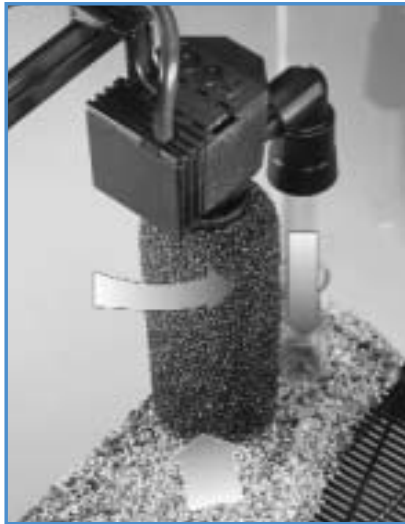


FIGURE 6

REVERSE FLOW INSTALLATION



In reverse flow operation, oxygenated, prefiltered water is pumped *down* the UGF Lift Tube beneath the filter plate and *up* through the deepest layers of gravel.

- Step 1:** Connect bottom of the **Reverse Flow Elbow** to top of Undergravel Filter Lift Tube. Either Adjustable Bracket or **Suction Cup with Slide** should be used to further stabilize unit.
- Step 2:** Slide **Sponge Prefilter** completely over **Sponge Prefilter Core**.
- Step 3:** Making sure Adapter is installed in Prefilter Core, press Core and Sponge over bottom of Impeller Housing.
- Step 4:** Slide **Reverse Flow Elbow** over Exhaust Outlet.
- Step 5:** Install **Venturi Plug**.

NOTE: Failure to use Venturi Plug can cause water to be forced vertically out the air inlet when back pressure is present.

Surface agitation is not provided during reverse flow. Depending on the nature of your particular aquarium system, agitation may be required for proper oxygenation.

MAINTENANCE

CAUTION: Unplug unit before performing maintenance. **Never** use soap, detergents or any non-recommended cleaning agents around an aquarium. **Always** rinse parts with cold water after cleaning.

Basic aquarium maintenance includes monthly 25% water changes and gravel cleaning, as well as regular media changes (2-4 weeks, minimum). To ensure optimum performance, we recommend the following complete maintenance procedure for the Penguin Power Sponge at least every four weeks.

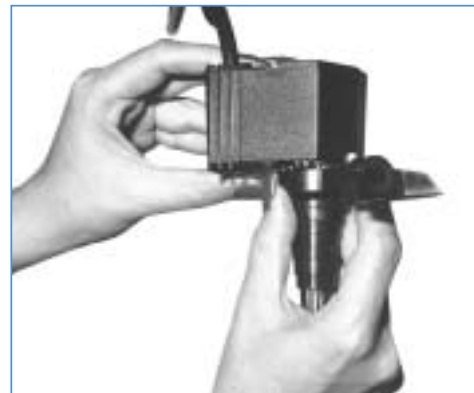


FIGURE 7

1. Unplug Power Sponge. Slip unit up and off aquarium frame. Rotate Exhaust Outlet (FIGURE 7) and gently uncouple Impeller Housing from power unit (FIGURE 8).

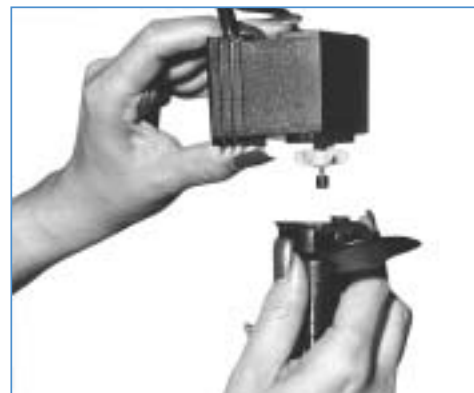


FIGURE 8

2. Using a clean cloth and/or Marineland Flexi-Brush, clean Magnetic Impeller, Intake Strainer and Impeller Cavity. DO NOT use soap. Rinse with cold water.

NOTE: *Magnetic Impeller Assembly is not designed to be taken apart. Attempts to do so may result in malfunction. If Magnetic Impeller Assembly does not rotate freely when clean and in good condition, a replacement should be installed (see Customer Service, pg. 2).*

3. Reinstall Magnetic Impeller Assembly, Impeller Housing and Intake Strainer. Readjust Flow Diffuser and Air Valve as necessary.

Clean Sponge Prefilter Monthly

Gently squeeze Sponge in bucket of removed tank water (during water change). Never use soap, extremely hot or extremely cold water. Replace Sponge if any damage is evident. When reinstalling, always make sure slots in Core are completely covered by Sponge to prevent bypass.

MAINTENANCE LOG

Clean equipment works best. Record the maintenance performed and the date below. Regular care keeps your unit operating at peak efficiency.

MAINTENANCE	DATE	MAINTENANCE	DATE

TROUBLESHOOTING GUIDELINES

Symptom	Comments/Solution
<i>If unit fails to pump water...</i>	<p><i>Make certain</i> outlet has power and is functioning properly by first unplugging electrical cord momentarily, then reconnecting to power source.</p> <p><i>Check</i> to see that Impeller Housing is properly attached to power unit and is aligned correctly.</p> <p><i>Remove</i> Impeller Housing and make sure Impeller Assembly is free to rotate. A particle of carbon or gravel may be interfering.</p>
<i>If unit fails to aerate...</i>	<p><i>Make certain</i> that unit (especially Impeller Cavity) is completely clean.</p> <p><i>Turn</i> Air Valve knob counterclockwise to ensure that Air Valve is open.</p> <p><i>Check</i> to make sure that Air Cleaner on Air Valve is clean and dry. If not, replace with small amount of household cotton.</p>
<i>If Impeller shows excessive wear...</i>	<p><i>Check</i> to see that unit is not ingesting fine grit or gravel. Gravel bed should be Siphon Kleened regularly.</p> <p>Make certain water flowing through unit is prefiltered by either Marineland Sponge Prefilter or undergravel filter lift tube.</p>

Limited Warranty

Within one year from the date of original purchase, Marineland Aquarium Products will repair or replace, at its option, any Penguin Power Head which is deemed defective in workmanship or materials.

Please return the unit, together with proof of date of purchase, to your Marineland dealer or send unit (postage paid) to:

Marineland Aquarium Products

6100 Condor Drive
Moorpark, CA 93021

Damage or injuries resulting from negligence or misuse are not covered by this warranty. This warranty gives you specific legal rights. You may also have other rights which vary from state to state.