QuietFlow® Canister Filters

Instructions

200G 100107312, 120V, 60Hz, 0.25A
300G 100107313, 120V, 60Hz, 0.45A
400G 100107314, 120V, 60Hz, 1.32A

For indoor household use only.

Please read these instructions in their entirety before attempting to use this product.

Aqueon® QuietFlow® Canister Filters provide efficient and effective filtration for aquarium set ups.

Model	Canister Filter Description	Gallons Per Hour (gph)	Ideal for Aquariums
100107312	Aqueon® QuietFlow® Canister Filter 200G	200 gph	Up to 55 Gallons
100107313	Aqueon® QuietFlow® Canister Filter 300G	300 gph	Up to 75 Gallons
100107314	Aqueon® QuietFlow® Canister Filter 400G	400 gph	Up to 155 Gallons

A product of Central Aquatics
(Division of Central Garden & Pet Company)
Franklin, WI 53132 888.255.4527

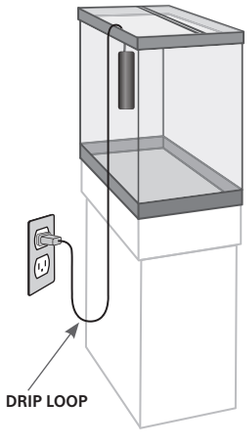
IMPORTANT SAFETY INSTRUCTIONS

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 since water is employed in the use of aquarium equipment. For each of the following situations, do not attempt to repair 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 it from the power source.
   B. Carefully examine the appliance after installation. It should not be plugged in if there is water on the parts not intended to be wet.
   C. 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.
   D. To avoid the possibility of the appliance plug or receptacle getting wet, position aquarium stand and tank to one side of the wall mounted receptacle to prevent water from dripping onto the receptacle or plug. As shown in the figure below, a "drip loop" should be arranged by the user for each cord connecting an aquarium appliance to the receptacle. The "drip loop" is the part of the cord below the level of the receptacle, or the connector if an extension cord is used, to prevent water travel along the cord and coming in contact with the receptacle. If the plug or the receptacles do get wet, DON'T unplug the cord. Disconnect the fuse to the circuit breaker that supplies power to the appliance. Then unplug and examine for the 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 the outlet when not in use, before putting on or taking off parts, and before cleaning. Never yank the cord to pull plug from the 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.

ONLY FOR POLARIZED ATTACHMENT PLUG APPLIANCES

10. If 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

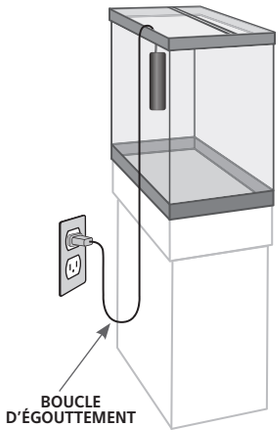
CONSIGNES DE SÉCURITÉ IMPORTANTES

AVERTISSEMENT – Pour protéger contre les blessures, respecter les consignes de sécurité de base, notamment ce qui suit :

LIRE ET RESPECTER TOUTES LES INSTRUCTIONS DE SÉCURITÉ.

DANGER – Pour écarter les risques de décharge électrique, faire preuve de précautions particulières en raison de la présence d'eau dans l'aquarium. Dans chacune des situations ci-dessous, ne pas tenter de réparer soi-même ; renvoyer l'appareil à un centre de réparation agréé ou le mettre au rebut.

1. A. Si l'appareil présente des signes de fuites d'eau anormales, le débrancher immédiatement de la source d'alimentation.
   B. Examiner l'appareil avec soin après son installation. Ne pas le brancher s'il y a de l'eau sur des pièces non destinées à être mouillées.
   C. Ne pas utiliser un appareil s'il a un cordon ou une fiche endommagés, s'il fonctionne mal, s'il est tombé ou s'il a été endommagé d'une quelconque façon.
   D. Pour écarter le risque de mouiller la fiche de l'appareil ou la prise de courant, placer le socle et la cuve de l'aquarium sur le côté par rapport à la prise murale, afin d'éviter que l'eau ne goutte sur la prise ou la fiche. Prévoir une « boucle d'égouttement », illustrée ci-dessous, sur chaque cordon qui raccorde un appareil de l'aquarium à la prise de courant. La « boucle d'égouttement » est la portion de cordon en dessous du niveau de la prise, ou du connecteur si un cordon de rallonge est utilisé, pour empêcher l'eau de s'écouler le long du cordon et de venir au contact de la prise. Si la fiche ou la prise sont mouillées, NE PAS débrancher le cordon. Couper l'électricité au niveau du disjoncteur qui alimente l'appareil. Débrancher ensuite le cordon et voir s'il y a de l'eau dans la prise de courant.



2. Une supervision étroite est nécessaire lors de l'utilisation de tout appareil électrique par des enfants ou à leur proximité.
3. Pour éviter les blessures, ne pas toucher de pièces en mouvement ni de pièces chaudes telles que radiateurs, réflecteurs, ampoules, etc.
4. Toujours débrancher un appareil de la prise de courant lorsqu'il n'est pas utilisé, avant de poser ou d'enlever des pièces et avant de le nettoyer. Ne jamais tirer sur le cordon pour sortir la fiche de la prise. Saisir la fiche et tirer pour débrancher.
5. Ne pas utiliser un appareil à d'autres fins que celles prévues. L'emploi d'accessoires non recommandés ni vendus par le fabricant de l'appareil peut produire une situation dangereuse.
6. Ne pas installer ni entreposer l'appareil dans un endroit exposé aux intempéries ou à des températures inférieures au gel.
7. S'assurer qu'un appareil monté sur un aquarium est solidement installé avant de le mettre en marche.
8. Lire et respecter toutes les consignes importantes figurant sur l'appareil.
9. Si un cordon de rallonge est nécessaire, utiliser un cordon de capacité suffisante. Un cordon prévu pour des intensités (A) ou des puissances (W) inférieures à celles de l'appareil peut surchauffer. Veiller à disposer le cordon de manière à éviter tout risque de trébuchement ou d'arrachement.

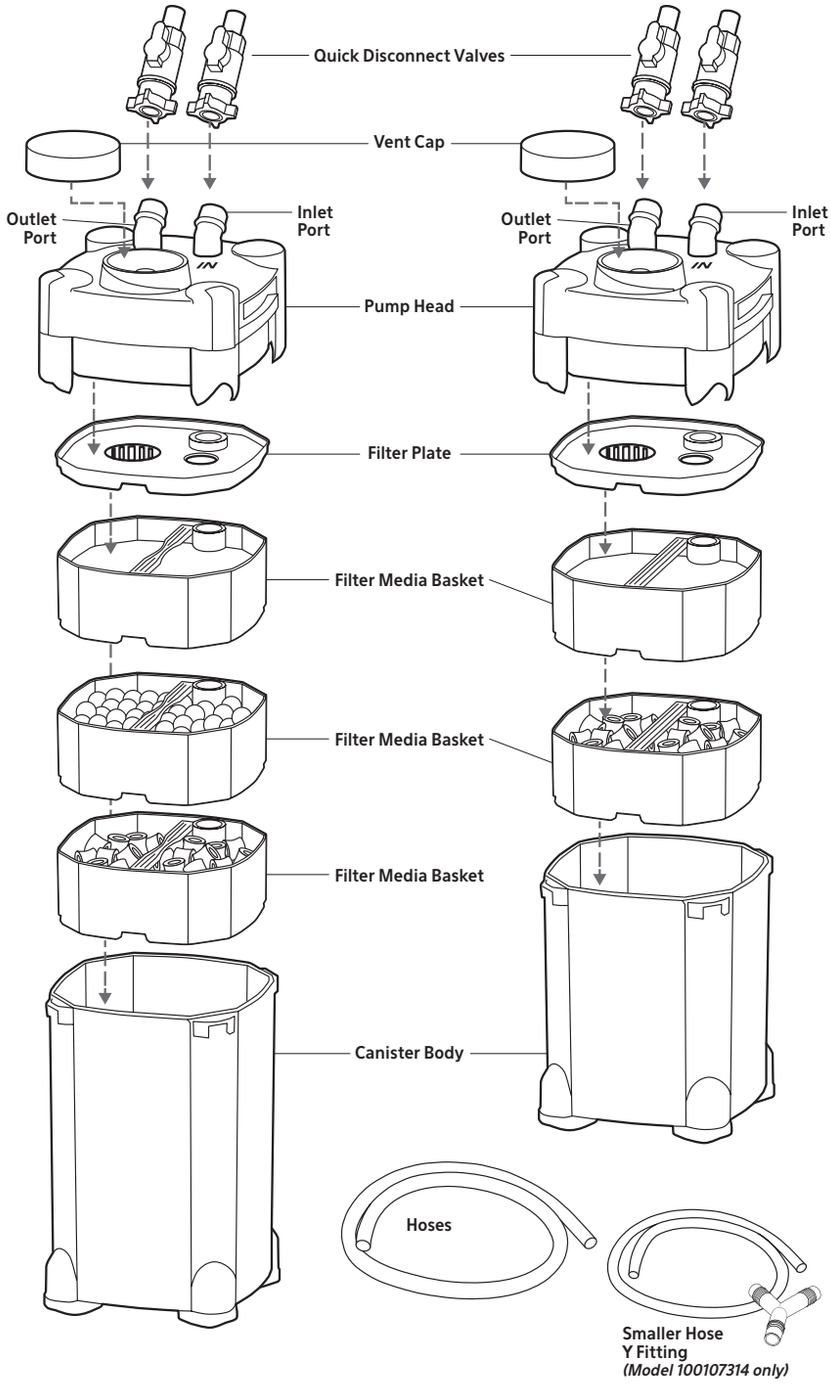
APPAREILS À FICHE POLARISÉE SEULEMENT

10. Si cet appareil comporte une fiche polarisée (une lame plus large que l'autre) par mesure de sécurité, cette fiche ne peut être branchée dans une prise polarisée que dans un sens. Si la fiche ne rentre pas complètement dans la prise, retourner la fiche. Si elle ne rentre toujours pas, contacter un électricien qualifié. Ne jamais utiliser avec un cordon de rallonge si la fiche ne s'enfonce par complètement. Ne pas tenter de contourner ce dispositif de sécurité.

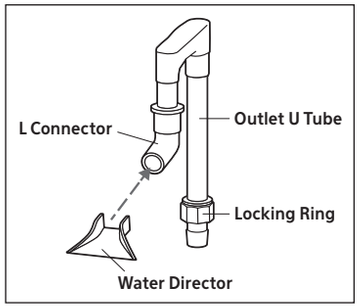
CONSERVER CES INSTRUCTIONS

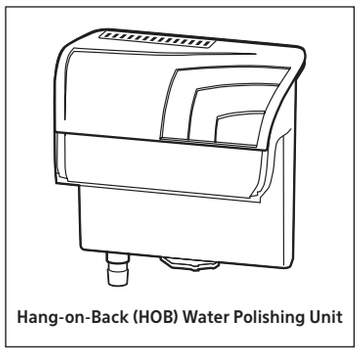
Parts Diagrams

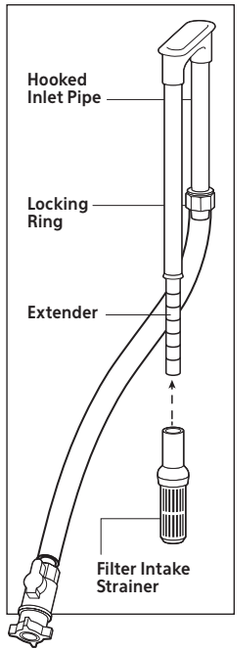
Model 100107312 - 200G
Model 100107314 - 400G

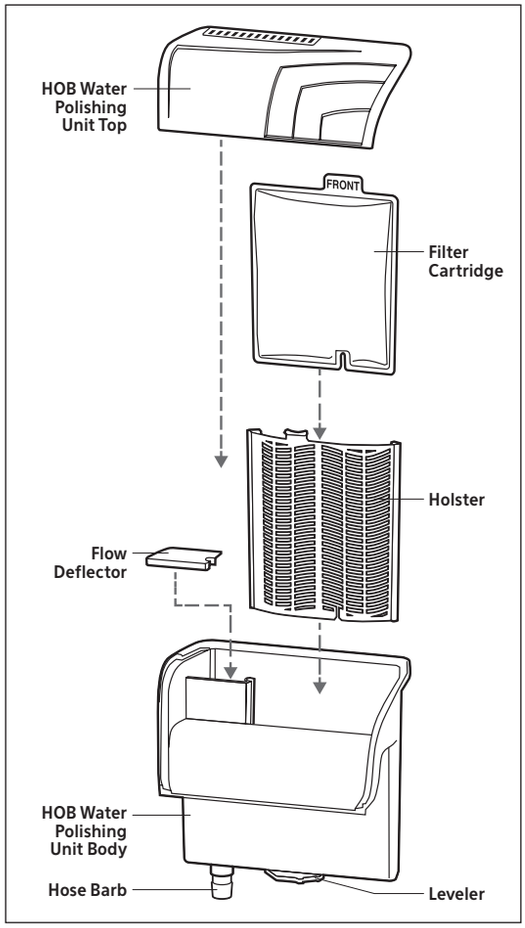


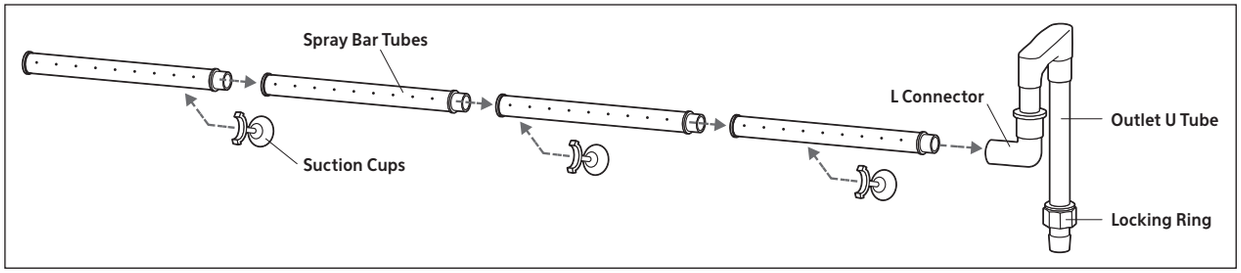
Model 100107313 - 300G




Hang-on-Back (HOB) Water Polishing Unit





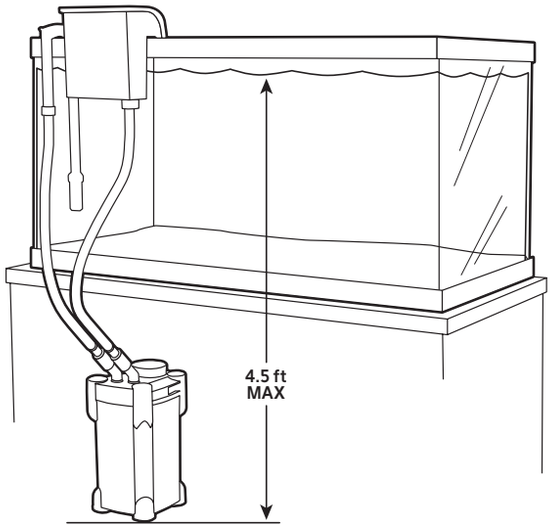


Instructions

Important Setup Requirements

NOTE: This canister is gravity fed; for it to function properly, please follow setup requirements.

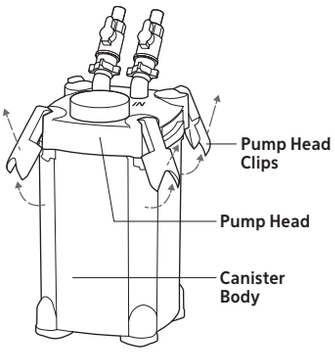
- Canister must not be more than 4.5 feet below the aquarium water level.
- Do not install canister filter above the aquarium water level.
- The water line should never be more than 8 inches below the frame of the aquarium.
- Hosing should be straight to allow for easy water flow. Hosing should not have twists or major bends.



Arranging Media

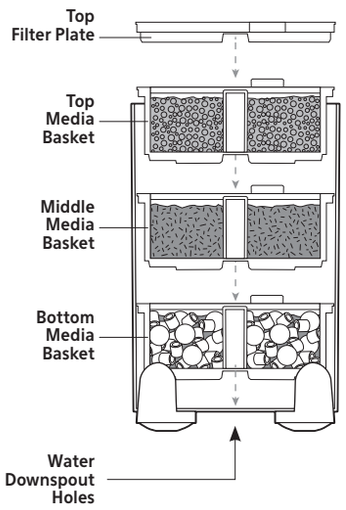
NOTE: Media is individually prepacked in the **Filter Media Baskets** located within the **Canister Body**. The media needs to be removed from packaging, rinsed under cold water and deposited directly into the **Filter Media Baskets**. Follow these steps.

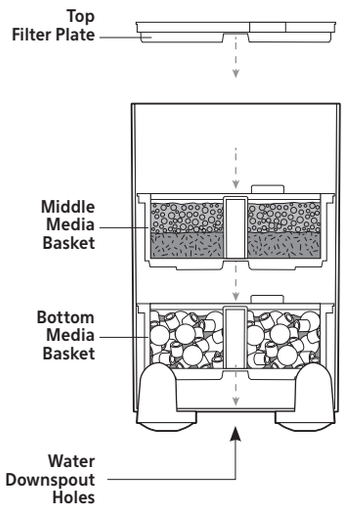
1. Unlock all 4 **Pump Head Clips** and pull **Pump Head** upward to remove from **Canister Body**.
2. Remove **Top Filter Plate**; doing this will grant access to the **Filter Media Baskets**. Make note of the order in which the baskets are placed.
3. Reach into the **Canister Body** to remove media by lifting up on the center handle. Empty the contents of each media into their respective basket. In most cases, each basket will hold only one type of media.
4. Return **Filter Media Baskets** to **Canister Body**. Make sure the basket handles are completely lowered and the water downspout holes are aligned. This will ensure baskets stack properly within the canister.
5. Return **Filter Plate** to top of the **Filter Media Baskets** aligning the holes.
6. Return **Pump Head** into place. It should align with holes in the **Top Filter Plate**.
7. Lock all 4 **Pump Head Clips**.

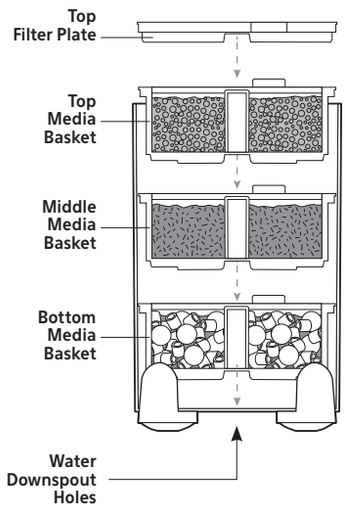


Note: for optimal filtration effectiveness it is best to arrange the media as follows:

	100107312 (200gph)	100107313 (300gph)	100107314 (400gph)
Top Media Basket	Foam pad	Foam pad and carbon	Foam pad
Middle Media Basket	Activated carbon	*Not applicable*	Activated carbon
Bottom Media Basket	Bio-Ceramic Rings and Bio-Balls	Bio-Ceramic Rings and Bio-Balls	Bio-Ceramic Rings and Bio-Balls







Connect INTAKE Mechanism

1. Connect one of the long flexible tubes to the **Hooked Inlet Pipe**. Push tube as far up as possible to help provide a secure seal. Then twist **Locking Ring** to securely fasten hose to **Inlet Pipe**.
2. Connect **Filter Intake Strainer** to opposite end of the **Hooked Inlet Pipe**.
3. Place **Hooked Inlet Pipe** mechanism on the rim of the aquarium. The **Filter Intake Strainer** should rest towards the center to bottom of the aquarium.

   NOTE: If needed, the **Inlet Pipe** can be extended to accomodate the depth of your aquarium. Simply pull **Filter Intake Strainer** to extend.
5. Attach the other end of the flexible tube to one of the **Quick Disconnect Valves**. Push tube as far up as possible to help provide a secure seal. Then twist **Locking Ring** to securely fasten tube to **Quick Disconnect Valve**. **(Figure 1)**
6. Attach **Quick Disconnect Valve** assembly to the threaded inlet port on the **Pump Head** labeled "IN". Make sure the **Quick Disconnect Valve** is fully threaded onto the pump head.

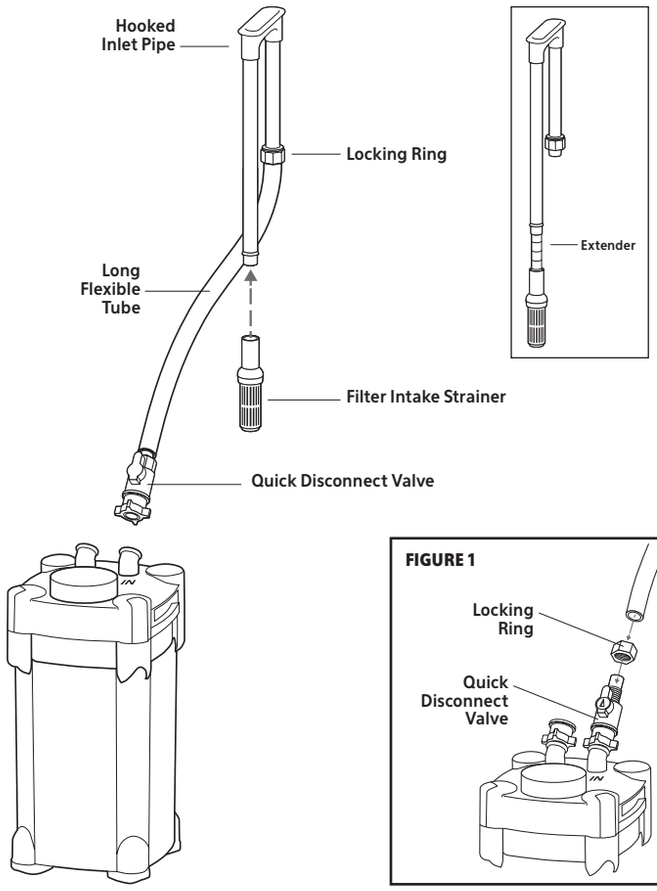


FIGURE 1

Connect OUTPUT Mechanism

Aqueon® QuietFlow® Canister Filters feature three options for returning the water to the aquarium.

1. **Connecting Hang-on-Back (HOB) Water Polishing Unit to OUTPUT**
   a. Connect the other long flexible tube to the hose barb on the bottom of the **Water Polishing Unit**(s). Push tube as far up as possible to help provide a seal. Secure with **Locking Ring**.

   NOTE: For Model 100107314 you will need to do this twice with the two shorter pieces of tubing. Secure by pushing hose over barbed ends of **Y Fitting**. **(Figure 2)**

   b. Place the **Water Polishing Unit**(s) on the back rim of aquarium tank. Be sure the sloped front of the unit is facing forward towards the center of the tank. This ensures that water will be returned back into the aquarium.

   c. Remove large filter cartridge(s) from plastic bag(s), rinse under cold water and insert into **Water Polishing Unit**(s).

   d. Connect the other end of the flexible tube to the hose barb on the **Quick Disconnect Valve**. Push tube as far up as possible to help provide a secure seal. Then twist **Locking Ring** to securely fasten tube to **Quick Disconnect Valve**. **(Figure 3)**

   e. Attach **Quick Disconnect Valve** assembly to the threaded outlet port on the **Pump Head** labeled "OUT". Make sure the **Quick Disconnect Valve** is fully threaded onto the **Pump Head**. **(Figure 3)**

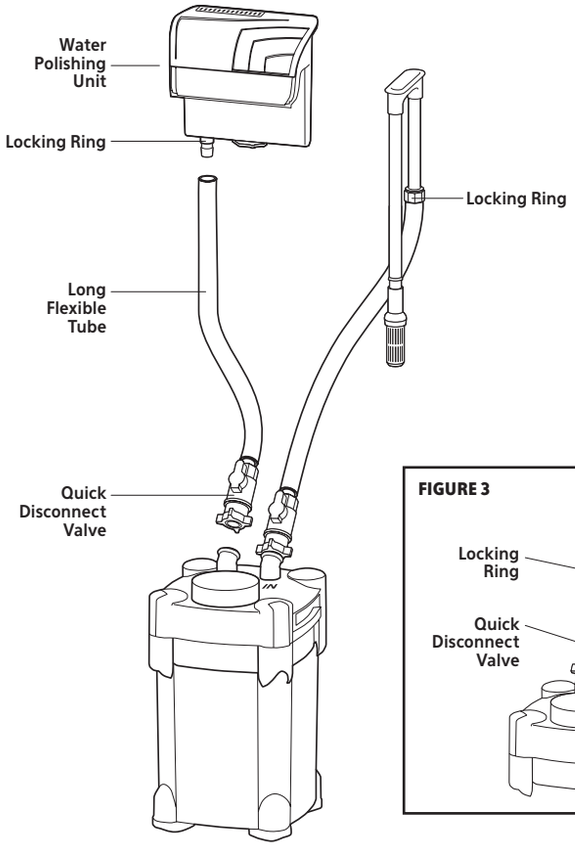


FIGURE 2

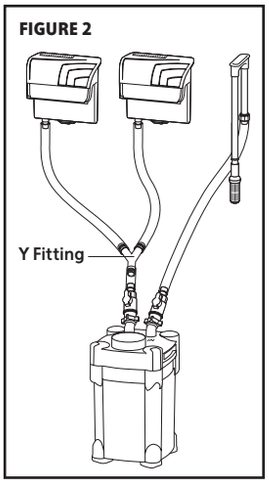
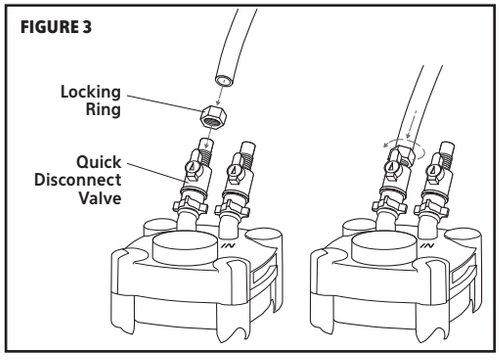


FIGURE 3



2. **Connecting Spray Bar to OUTPUT**
   a. Connect flexible tube to the **Outlet U Tube**. Secure hose by twisting **Locking Ring** over the end of the hose, securely fastening onto hose.
   b. Connect **L Connector** to opposite end of **Outlet U Tube**. Then hook the **Outlet U Tube** onto the edge of the aquarium so the **L Connector** is located within the interior of the aquarium.
   c. Locate and connect **Spray Bar Tubes**. To connect, align connection points and snap together. **(Figure 4)**
   d. Connect **Spray Bar** to **L Connector**.
   e. Snap **Suction Cups** to the **Spray Bar**, spacing them evenly to help distribute weight throughout the length of the **Spray Bar**.
   f. Connect the other end of the flexible tube to the hose barb on the **Quick Disconnect Valve**. Push tube as far up as possible to help provide a secure seal. Then twist **Locking Ring** to securely fasten tube to **Quick Disconnect Valve**. **(Figure 5)**
   g. Attach **Quick Disconnect Valve** assembly to the threaded outlet port on the **Pump Head** labeled "OUT". Make sure the **Quick Disconnect Valve** is fully threaded onto the **Pump Head**. **(Figure 5)**

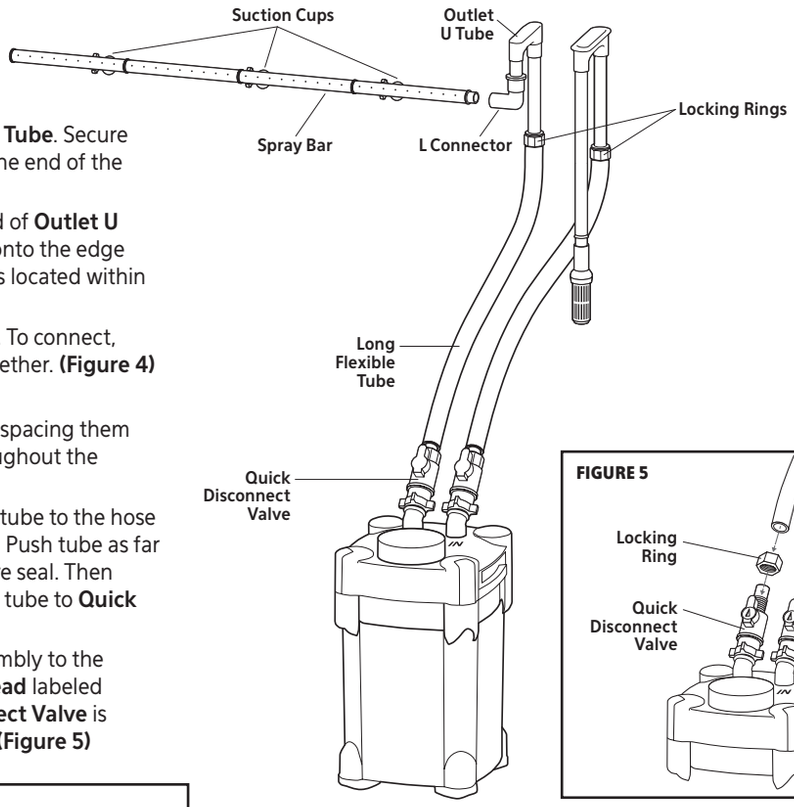


FIGURE 5

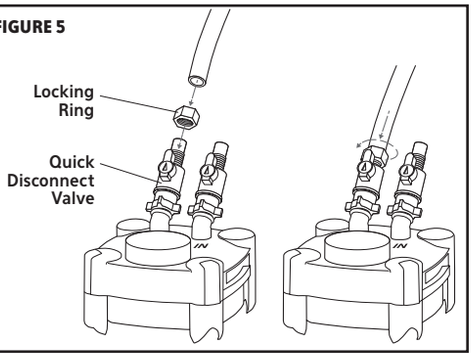
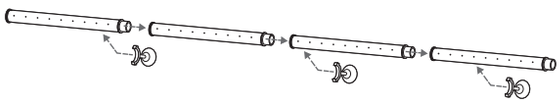


FIGURE 4



3. **Connecting to Water Director OUTPUT**
   a. Connect flexible tube to the **Outlet U Tube**. Secure hose by twisting **Locking Ring** over the end of the hose, securely fastening onto hose.
   b. Connect **L Connector** to opposite end of **Outlet U Tube**. Then hook the **Outlet U Tube** onto the edge of the aquarium, so the **L Connector** is located within the interior of the aquarium.
   c. Fasten **Water Director** to the open end of **L Connector**.
   f. Connect the other end of the flexible tube to the hose barb on the **Quick Disconnect Valve**. Push tube as far up as possible to help provide a secure seal. Then twist **Locking Ring** to securely fasten tube to **Quick Disconnect Valve**. **(Figure 6)**
   g. Attach **Quick Disconnect Valve** assembly to the threaded outlet port on the **Pump Head** labeled "OUT". Make sure the **Quick Disconnect Valve** is fully threaded onto the **Pump Head**. **(Figure 6)**

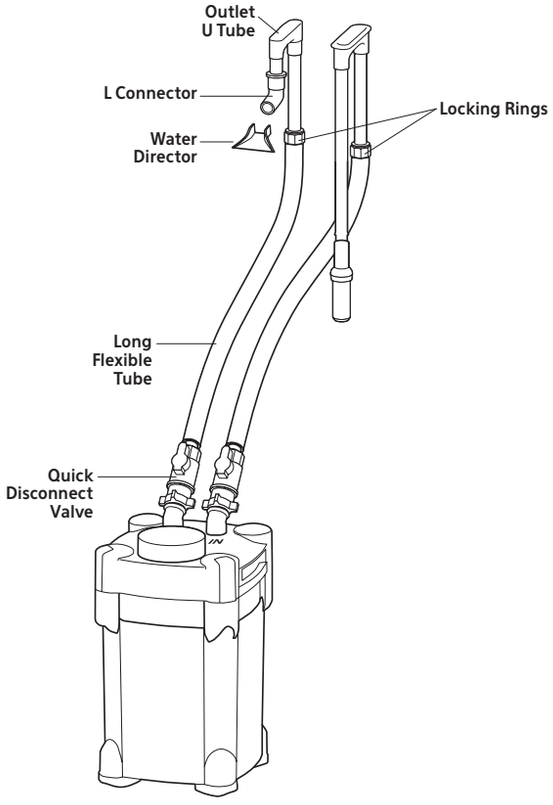
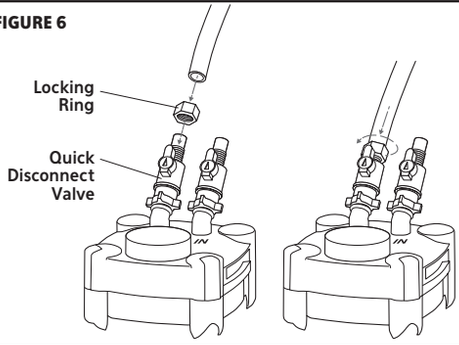


FIGURE 6



Priming Canister

In order for the filter to function properly the air must be evacuated from the system. This process is called priming. There are several ways to prime an Aqueon® QuietFlow® Canister Filter depending on how it is being setup. To expedite priming of a partially filled canister, fill unit up to the top media basket prior to attaching **Pump Head**.

Priming Canister Filter with the HOB Water Polishing Unit attached

1. Remove lid from **Water Polishing Unit**, then slowly pour water directly into the **Housing**. The amount of water poured into the HOB **Housing** will vary depending on the size of the canister filter. Be sure both **Quick Disconnect Valves** are in the open position. Continue filling the HOB **Housing** until water will no longer flow into the canister.
2. Fill aquarium the rest of the way with water.
3. Plug the motor in. Water should pump out of the **Water Polishing Unit**. Slowly at first, increasing in flow as the remaining air is evacuated from the canister. You will hear a distinctive gurgling sound until the air is completely evacuated from the system.
4. If no water is flowing out of the **Water Polishing Unit**, unplug the canister filter and wait 10 seconds. Loosen the **Vent Cap** located on top of the **Pump Head** and allow air trapped in the top of the **Pump Head** to escape. Quickly replace the **Vent Cap** once water starts to come out of the vent funnel **(Figure 7)**. Plug motor back in.

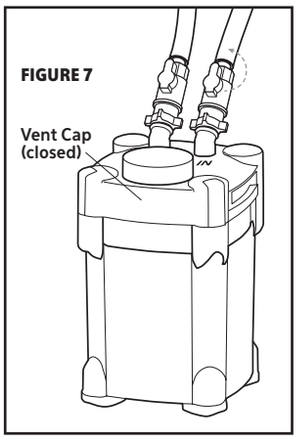
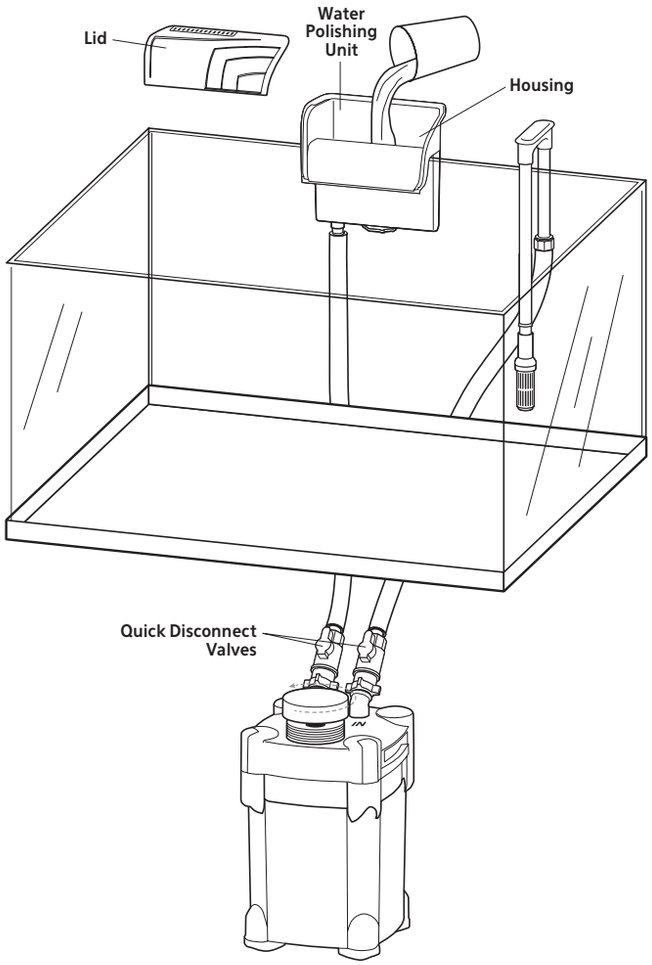


FIGURE 7



Priming Canister Filter when using Spray Bar or Water Director

1. With both **Quick Disconnect Valves** closed, remove **Vent Cap** from the top of **Pump Head**. Slowly pour water into **Canister Filter** through hole in the center of the **Fill Funnel**. The amount of water poured into the **Pump Head** will vary as needed. **(Figure 8)**
2. Replace **Vent Cap** when no more water will flow into the canister. Open the "OUT" **Quick Disconnect Valve** first if using the HOB **Water Polishing Unit**(s). If there is any water in the line it should flow down into the canister and purge out air in the canister. **(Figure 9)**
3. Make sure **Vent Cap** is securely tightened, then open the "IN" **Quick Disconnect Valve**. **(Figure 10)**
4. Plug motor in. Water should begin to flow out of the water outlet. Slowly at first, increasing as air is purged out of the system. If water does not begin flowing immediately, unplug the motor, wait a few seconds for air to rise, then remove the **Vent Cap** and vent air or add more water as necessary. Replace the **Vent Cap** and plug motor back in. *Repeat purging process as needed.*

When the canister has been primed the first time, it will not be necessary to repeat the processes above to prime again after regular filter maintenance. Simply close the **Quick Disconnect Valves** before disconnecting the canister for maintenance and the siphon will be maintained in the inlet line. After cleaning the canister and reconnecting to the lines, open the **Quick Disconnect Valve** on the "IN" side first and loosen the **Vent Cap** . Allow the canister to refill with water from the aquarium. Once filled, replace the **Vent Cap** and then open the **Quick Disconnect Valve** on the "OUT" side before plugging the motor in. Canister will resume normal function.

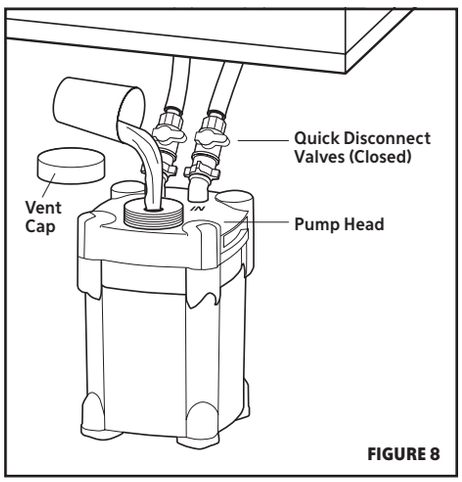


FIGURE 8

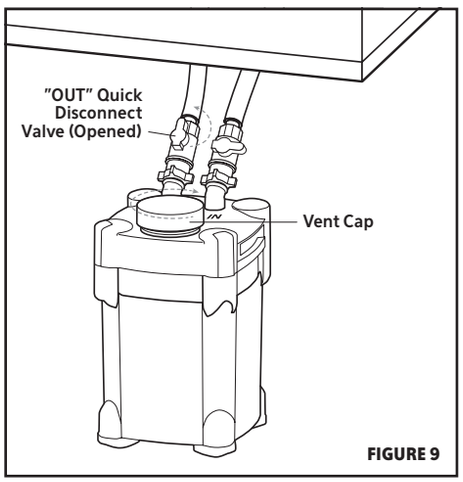


FIGURE 9

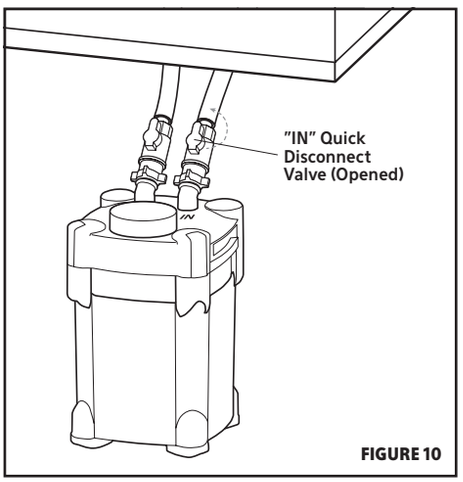


FIGURE 10

Maintenance

Changing/Cleaning HOB Water Polishing Unit
(Uses Large Aqueon® Filter Cartridge[s])

1. Remove lid from HOB Water Polishing Unit.
2. Pull cartridge and holster out of unit. Tilt sideways to allow water to drain.
3. If not too dirty, cartridge and holster can be rinsed under tap water to dislodge trapped dirt and debris.
4. If cartridge cannot be cleaned thoroughly or is more than 3 weeks old it should be replaced with a new cartridge.
5. Insert cleaned/new cartridge into holster. Be sure the FRONT marking on the cartridge is facing the holster and the notch in the bottom of the cartridge and holster are aligned.
6. Insert the cleaned/new cartridge and holster back into the unit and replace the cover.
7. Cartridge should be cleaned or replaced when water begins to bypass over the top of the cartridge.

Changing/Cleaning Canister Media.

1. Unplug unit from power supply.
2. Close both the "IN" and "OUT" Quick Disconnect Valves. Separate valves from Pump Head by unscrewing the Locking Rings.
3. Take filter to sink or outdoors for cleaning.
4. Tilt filter over to allow some water to drain out of the water inlets/outlets. You don't have to empty it completely.
5. Remove the media baskets one at a time. Dump out old activated carbon in a garbage can.
6. Rinse the Bio-Ceramic Rings, the foam or any biological media to remove trapped debris.
7. Replace carbon with or any other desired type of chemical filter media.
8. Reinsert baskets back into the canister. Be sure to align downdraft holes with each basket.

Cleaning the Motor Unit and intake strainer.

1. Remove the impeller well cover.
2. Remove impeller and wipe down with a paper towel.
3. Replace impeller and impeller well cover.
4. Remove any debris trapped on the strainer by cleaning under a tap or hose.
5. Thoroughly clean inside of impeller well to remove any buildup. Excess build up can cause the motor to heat up.

Trouble Shooting

If Canister Filter does not prime...

1. Check to make sure that both Quick Disconnect Valves are open.
2. Check to make sure the downdraft holes in the filter baskets are all aligned.
3. Check to make sure that all tubing connections are secure.
4. Check to make sure that all air is purged out of the lines according to the priming instructions.

If Canister Filter is leaking...

1. Check to make sure all hose connections are locked on and tight.
2. Check to make sure the Vent Cap is in the locked position.
3. Check that there is not any dirt or debris between the top of the canister body and the sealing gasket on the underside of the Pump Head. Clean periodically and apply silicone grease to keep the gasket supple and smooth.
4. Check to make sure the difference in height from the top of the aquarium to the top of the canister filter is less than 6'. There is a maximum amount of pressure that the canister clips and sealing gasket can hold. If the differential between the canister top and top of aquarium is too high, water will leak out of the sealing gasket when the motor is shut off.

Helpful Hobbyist Hints:

1. There are many different ways and different media that can be used inside a canister filter. None of these are wrong and often are entirely up to the personal preference of the hobbyist. The recommended arrangement described in these instructions places the coarsest media at the bottom (upstream) of the canister with the media becoming finer and finer as you move from upstream to downstream. The finest media is in the HOB polisher which can be accessed and cleaned without shutting down the canister. This arrangement traps the particulate debris in multiple layers from largest to smallest. This is the most ideal way to reduce maintenance on the canister and will function efficiently biologically and chemically as any other method. Another popular method is to put the finest mechanical media upstream (bottom) with the biological and chemical media downstream. This will theoretically keep the biological and chemical media from getting clogged with debris. However, this will also trap all debris on a single layer vs. multiple layers and will require more frequent cleaning of the canister.
2. Many hobbyists will recommend cleaning the media only in non-chlorinated aquarium water vs. chlorinated tap water. There is nothing wrong with this other than you lose water pressure which makes cleaning more difficult. Cleaning the media with chlorinated tap water will kill off some of the beneficial bacteria in the biological filter. However, the surfaces within an established aquarium are so heavily colonized with beneficial bacteria, that even a completely sterilized canister filter will recolonize with beneficial bacteria within hours and any effect on water quality will be negligible if at all.
3. If using a spray bar, it is important to keep the holes in the spray bar clean to maximize water flow. Use a bottle or filter brush to periodically clean the holes in the spray bar out. To provide the most dissolved oxygen in the aquarium, the spray bar or outlet return should be placed near the water surface so that water coming out of the canister can exchange gases at the surface.
4. Flexible vinyl tubing becomes hard with time. Eventually the sections that expand out over the hose barbs develop "memory" and may not seal tightly again if removed from the hose barb. If necessary, the tubing may need to be trimmed to remove the sections with memory and insert the hose barbs into a new section without memory. Soaking the tubing in hot water can soften it and make inserting the hose barbs into new and old tubing easier.

12 MONTH LIMITED WARRANTY

WHAT THE WARRANTY COVERS:
Central Aquatics (Company) warrants this product (see Exclusions below) to the original purchaser against defective material and workmanship that occurs during normal use for 12 months from the date of original purchase. Company will, at Company's option, either repair or replace same without charge (but no cash refunds will be made).

EXCLUSIONS:

1. Damage resulting from accident, misuse, abuse, lack of reasonable care, subjecting the product to any but the specified electrical service, other than normal and ordinary use of the product, subjecting the product to abnormal working conditions or any other failure not resulting from defects in materials or workmanship.
2. Damage resulting from modification, tampering with or attempted repair by anyone other than the Company.
3. Transfer of product to someone other than the original consumer purchaser.

FOR WARRANTY OR TECHNICAL SERVICE:

1. Contact the Company by mail or telephone: Central Aquatics, 5401 West Oakwood Park Drive, Franklin, WI 53132; Telephone: (888) 255-4527 to obtain a return authorization number.
   NOTE: Be sure to provide contact information when requesting return authorization number.
2. Deliver, mail or ship the product, together with a copy of the original bill of sale, to: Central Aquatics, 5401 West Oakwood Park Drive, Franklin, WI 53132

You must pay any postage, shipping charges, insurance costs and other expenses to return the product to Central Aquatics, Franklin, WI 53132. However, if the necessary repairs are covered by the warranty, Company will pay the return shipping charges to any destination within the United States or Canada.

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