

# smallBoy<sup>®</sup>

De-Chlorinator & Sediment Filter

## USER MANUAL



HydroLogic<sup>®</sup>  
PURIFICATION SYSTEMS



WISHING WELL

...purely protecting life.

## DESCRIPTION

Don't give your plants unfiltered hose water! This small**Boy** filter unit is rated at up to 99% chlorine removal at 1 GPM flow and cleans up to 99% of the sediment particles above 5 microns. ***This filter is not designed to significantly lower the Parts Per Million (PPM) of your water.*** The majority of the PPM of your tap water are minerals which can only be removed with Reverse Osmosis. Having chlorine and sediment free water is essential for growing healthy plants and maintaining beneficial micro-organisms, bacteria and fungi in your root zone and growing medium. These microbes cannot survive in the presence of chlorine. Chlorine free water is also essential for organic compost tea brewing and any bio-organic gardening method.

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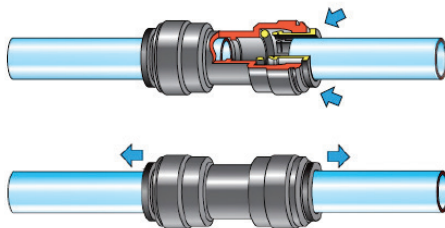
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## PRECAUTIONS

- When first installing the unit and turning the feed water on, do so slowly to allow both filter housings to fill with water completely. When you see filtered water flowing from the outlet tubing you can then turn the feed water on all the way.
- ***When replacing filter cartridges, use filter wrench to remove housing. Do not use the wrench to tighten. Hand-tighten the housings only. Make sure not to over-tighten.***
- ***When replacing carbon filter, discard the first five minutes worth of product water to flush any carbon fines or particles, before using.***
- Do not install where leakage or failure may cause damage to your personal property.
- Protect unit against freezing to prevent cracking of the filter housing and water leakage.
- Do not install unit where incoming pressure may be more than 80 psi or there are excessive water hammer problems. Use HydroLogic's Pressure Regulator (**HL 10070**) available at your dealer.
- Keep out of direct sunlight or high intensity lights. This will degrade the housing and fittings over time. It is best to keep the unit in complete shade or place a cover over the unit for protection. This will keep the unit in better condition for longer.
- Do not drop or place heavy objects on top of unit.
- Replace housings every 3 years.

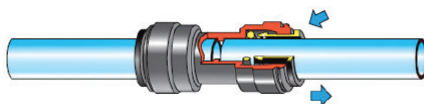
## QUICK CONNECT FITTINGS (QC)

### Connecting QC Fittings:



Push tubing firmly into the fitting, all the way until the tube stops. The collet (gripper) has stainless steel teeth which hold the tube firmly in position while the O-ring provides a leak proof seal. Pull tubing to check for security. If some tube pulls out, then push it all the way in again until it stops. It is good practice to test the system prior to leaving site and/or before use.

### Disconnecting QC Fittings:



Ensure system is depressurized before removing fittings then push in the collet evenly against the face of the fitting. With the collet held in this position the tube can be removed by simply pulling. You can use a collet release tool (**HL 24010**, available from your dealer). The fitting can then be re-used. If the tubing has been removed several times you may see score marks on the ends, and this can lead to leaks. It is best to cut the end off of the tubing with a sharp blade, being careful to cut straight across. Any angle to the cut can cause a leak.

**Link To Instruction Video**  
<https://bit.ly/2RJOqLq>



## smallBoy INCLUDES



1. Main unit
2. 5' of 1/4" feed tubing w/female garden hose connector
3. Sediment filter
4. **Green Coconut Carbon** filter *or* **KDF85/Catalytic Carbon** upgraded filter
5. 5' of 1/4" outlet tubing
6. Shut-off valve
7. Filter wrench

## smallBoy SETUP

1. Main unit
2. Inlet tubing w/female garden hose connector
3. Sediment filter
4. **Green Coconut Carbon** filter *or* **KDF85/Catalytic Carbon** upgraded filter
5. Outlet tubing
6. Shut-off valve



1. Remove rubber dust plugs from inlet and outlet fittings by pulling them straight out.
2. Begin by hooking the female hose adapter to your outdoor spigot or garden hose.
3. Next, take one of the 5' lengths of the tubing and push one end into the hose adapter and the other end into the "feed" fitting of the filter unit on the right side of the smallBoy.
4. Next, take the other 5' length of tubing and insert that into the "outlet" fitting of the smallBoy.
5. Next, push the shut-off valve into the tubing at the other end of this connector.
6. Before using your smallBoy filter you will need to flush out any carbon fines or particles for 5 minutes with the water going to the drain. After the flush, your unit is ready to use.

# FILTER SPECIFICATIONS

## Sediment Filter—HL 22105

small**Boy** melt-blown sediment filters feature a graded density that uses the entire depth of the filter to trap sediment, translating into high dirt-holding capacity.

- Removes sediment, dirt, iron, dust, sand, rust and silt.
- Effective down to 5 microns.

Filter	HydroLogic Part #	Replacement Schedule (approx)
<b>Sediment Filter</b>	HL 22105	Clean Regularly, Replace Bi-annually

## Coconut Carbon Filter—HL 22110

HydroLogic is proud to introduce the first Carbon Block to meet NSF61 listed Green Carbon standards. This high performance coconut shell carbon is manufactured using a patented process that significantly reduces harmful greenhouse gas emissions.

These carbon blocks are made using coconut shell Green Carbon, which have more micro-pores than other types of carbon and a unique binder system, delivering a product with superior absorption capacity and kinetic dynamics.

This combination of high performance carbon, unique binders, and proprietary manufacturing processes delivers exceptionally low pressure drop, high dirt holding capacity, and excellent contaminant reduction.

- Great for City water
- Up to 99% chlorine removal
- No release of carbon fines
- Exceptionally low pressure drop
- Meets NSF61 standards
- Meets NSF certification for material safety
- Industry leading performance
- Made in the USA

Filter	HydroLogic Part #	Replacement Schedule (approx)
<b>Coconut Carbon Filter</b>	HL 22110	3,000 Gal

## KDF85/Catalytic Carbon Upgraded Filter—HL 22060

HydroLogic only uses the highest grade materials to make our KDF85/Catalytic Carbon upgraded filter for reducing chlorine and sulfur.

- Great for Well Water
- KDF: 0.25 lb copper/zinc media
- Reduces a wide range of contaminants, including heavy metals, chlorine, sulfur and iron
- Carbon has enhanced catalytic capability
- Bacteriostatic qualities do not allow microbes to breed in filter
- Made in the USA

Filter	HydroLogic Part #	Replacement Schedule (approx)
<b>KDF85/Carbon Filter</b>	HL 22060	6,000 Gal

## FILTER SPECIFICATIONS (optional)

### ChloroShield—HL 22021

Protect your roots! Many cities are switching to chloramines as their primary method of disinfection. Chloramines are most commonly formed when ammonia is added to chlorine to treat drinking water, making it harder to remove. While our Green Coconut Carbon filters work great for chlorine, the smaller molecule size of chloramines requires additional filtration to ensure your root-supporting microbes are happy and healthy. This Specialty Carbon Filter ensures up to 100% chloramine removal and optimal root zone health!

- Operating pressure 20–125 psi (1.38–8.62 bar)
- Operating temperature 40°F–125°F (4°C–52°C)
- 1 micron nominal filtration
- Exceptionally low pressure drop
- Proposition 65 compliant
- Meets NSF61 standards
- Industry leading performance
- Wishing Well member
- 3,000 Gallon Capacity
- Made in the USA

Filter	HydroLogic Part #	Replacement Schedule (approx)
ChloroShield Filter	HL 22021	3,000 Gal

**Note:** Use only with microbiologically safe and adequately disinfected water. Do not use with water of any unknown origin or water quality. When in doubt contact HydroLogic to order a water analysis kit.

## FILTER REPLACEMENT SCHEDULE

Filter	HydroLogic Part #	Replacement Schedule (approx)
Sediment Filter	HL 22105	Clean regularly, change bi-annually
Coconut Carbon Filter	HL 22110	3,000 gallons of purified water
<b style="color: #003366;">ChloroShield</b> Carbon Filter for 100% chloramine removal	HL 22021	3,000 gallons of purified water
KDF85/Catalytic Carbon Filter, great for Well Water	HL 22060	6,000 gallons of purified water



**HL 22105**



**HL 22110**



**HL 22021**



**HL 22060**



## OPTIONAL ACCESSORIES



**Float Valve ¼" HL 27015**

This float valve has a ¼" Quick Connect fitting for adjustable water levels. It can be mounted vertically or horizontally. It works great with the **stealthRO** and **smallBoy** or any other filter system with ¼" tubing. No more floods!

### **ChloroShield Upgrade Filter HL 22021**

100% chloramine and chlorine removal at 1 GPM. Great for City Water sources.



**stealthRO<sub>150</sub> Conversion Kit HL 33011**

This kit allows you to upgrade your **smallBoy** de-chlorinator and sediment filter into a **stealthRO<sub>150</sub>** unit. Installation is very simple.



**KDF85/Catalytic Carbon Upgrade Filter HL 22060**

Doubles the performance of standard green carbon filters. Reduces chlorine, iron, sulfur and heavy metals. Great for Well Water. Bacteriostatic qualities do not allow microbes to breed in filter.

### **Leak Detector & Shut Off Valve ¼" HL 19022**

Installs on inlet line. If there is a leak anywhere in the system and water reaches the pad on the bottom of the leak protector, the valve shuts off all incoming water preventing further damage from the leak.





## OPTIONAL ACCESSORIES, cont.



### **Flowmaster ¼" HL 19015**

Gallonge and filter capacity monitor. Operates at flow rates between 0.1-1.0 GPM. Accurately tracks the number of gallons of filtered water produced and alerts you when it's time to change your filters. Also shows real time flow rates, and displays in gallons or liters.

### **Algae Block Sleeve HL 26009**

Easy-to-install, removable filter cover. The reversible blue and black neoprene helps keep the system free of damaging algae growth by preventing light from entering the filter's clear housing. Can be easily pulled down to check condition of filter.



### **Pressure Regulator HL 10070**

For high inlet pressure. Limits pressure to below 85 psi. Simply connect onto the source/inlet line.

### **Ultraviolet Sterilizer Kit 1GPM HL 35011**

Ultraviolet Sterilizer add-on provides up to 100% protection against bacteria, viruses, cysts and pathogens. Ensures the safest water. Great for Well or City Water sources.



## WARRANTY

**Do not bring unit back to the dealer, contact HydroLogic directly for questions and warranty issues. We can quickly assist you by phone.**

**A one-year warranty against manufacturer's defects comes with each unit.** *These defects must be noted and photographed upon receiving the merchandise or when the box is opened. For other issues that may arise throughout the lifetime of the product, please contact HydroLogic directly for technical support.*

**This does not include clogged or damaged filters or membranes due to lack of regular maintenance or excessive sediment, chlorine, chloramines, iron, silica, manganese, sulfur or PPM in the source water.** This warranty also excludes damage caused by using the unit outside of the specified operating parameters. Do not operate unit if incoming pressure exceeds 80 psi or there is problem with water hammer or pressure spikes.

The manufacturer believes the information and data contained herein to be accurate and useful. The information and data are offered in good faith, but without guarantee, as conditions and methods of use of products are beyond the manufacturer's control. The manufacturer assumes no liability for results obtained or damages incurred through the application of the presented information and data. It is the user's responsibility to determine the suitability of the products for the user's specific end uses.

**Tech Support Contact:**  
**techsupport@hydrologicsystems.com**  
**1-888-426-5644**

**Visit us on the web at: [www.hydrologicsystems.com](http://www.hydrologicsystems.com). There are a variety of videos under the resources tab.**

**WARNING: USING NON-HYDROLOGIC  
REPLACEMENT FILTERS OR MEMBRANES WILL  
VOID THE WARRANTY**





# smallBoy<sup>®</sup>

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