pure water's not **magic**
it's **logic**

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PURIFICATION SYSTEMS

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Built in USA

Earth-friendly Company

Printed on 100% post-consumer material

smallBoy®

De-Chlorinator & Sediment Filtration Unit

User Manual

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Description:

This unit is designed to be a stand alone filter for immediate removal of chlorine and sediment from your water. It is rated at up to 99% chlorine removal @ 1 GPM flow and can clean up to 90% 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 is minerals which can only be removed with Reverse Osmosis. Having chlorine and sediment free water is essential to growing healthy plants and maintaining beneficial micro-organisms, bacteria and fungi in your root zone and growing medium. These microbes can not survive in the presence of chlorine. Chlorine free water is also essential for organic compost tea and extraction solution brewing, hydroponics and any bio-organic gardening method.

The smallBoy® unit includes:

- 2 –Stage Sediment and Chlorine Removal Unit with Wall Mount Bracket and 1 Sediment and 1 Green Coconut Carbon Filter
- 5 Feet of Blue 1/4" Feed Tubing & 5 Feet of 1/4" Outlet Tubing
- Garden Hose Connector for the Supply Line
- 1/4" Inline Shut-off Valve
- Filter Wrench

Optional accessories available at your dealer:

- KDF85 catalytic carbon filter for high capacity chlorine, chloramines, iron and heavy metal removal. *Perfect for city or well water users.*
- Under sink feed hookups matched to your plumbing
- Ultra-Violet sterilization post-filter
- Flowmaster™ gallon meter and filter capacity monitor
- Float Valve - *For use when filling reservoir unattended*

Special note on chloramines:

Chloramines are a disinfecting agent that is being added by some cities to the water supply in place of, or in addition to, chlorine. They are a much more stable form of chlorine and do not dissipate from letting the water sit out. They cause the same damage to all living things as does chlorine. Manufacturers of carbon block filters, such as the one that comes standard with the **Small Boy**®, do not make specific claims for chloramines removal. If you are sure your water supply contains chloramines, you can remove the majority of them by upgrading the standard carbon filter to our **KDF85/catalytic carbon filter**. It is a direct replacement and can treat twice as much water as the standard carbon filter. Inquire at your dealer.

Sediment Filter - 5 Micron:

Melt-Blown Technology Ensures High Performance

Melt-blowing technology is used to manufacture all our sediment filters. This process has long been regarded as the leading technology for fabricating sediment filters. Our 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.

Other features include:

- **Thermally bonded fibers will not migrate into water**
- **Broad chemical compatibility**

Melt blown polypropylene cartridges offer a self supporting thermally fused filter media that requires no separate center support tube. No adhesives, binding agents or anti-static agents are used.

Warranty:

A One-Year Warranty comes with each unit against manufacturer's defects. This does not include clogged filters due to lack of regular maintenance or excessive sediment and/or chlorine in water. This warranty also excludes damage to units caused by using the unit outside of the specified parameters. Do not operate unit if incoming pressure exceeds 90 psi or there is problem with water hammer spikes. If unsure of water pressure, check with a pressure gauge available at your dealer or hardware store. Install the optional pressure regulator if inlet pressure is above 90 psi.

Do not contact your dealer or distributor for warranty issues. Contact Hydro-Logic directly.

Tech Support / Contact:

If you have a a particular application or setup question, you can call or email Hydro-Logic:

info@HydroLogicSystems.com

1-888-H2O-LOGIC

(1-888-426-5644)

Visit us on the web at: www.HydroLogicSystems.com

GreenBlock™ FX-CL2 Carbon Block Filter

Filtrex Technologies is proud to be the first carbon block manufacturer to use NSF61listed **greencarbon**™ developed by **Global ECOCARB Pvt Ltd.** This high performance coconut shell carbon is manufactured using a patented process that ***significantly reduces harmful Green House Gas Emissions.***

FX-CL2 greenblock™ are made using high performance coconut shell greencarbon™ having more micro pores compared to other types of carbon and a unique binder system delivering a product with superior adsorption 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. FX-CL2 greenblock™ are ideal for a wide range of POU, POE, commercial and industrial applications.

Features & Benefits:

- **10mm Nominal Filtration**
- **No Release of Carbon Fines**
- **Exceptionally Low Pressure Drop**
- **Manufactured from NSF Std 61 Certified Coconut Shell greencarbon™**
- **Performance Validated by WQA***
- **NSF Certified for Material Safety - Standard 42**
- **Industry Leading Performance at a Competitive Price**

* *FX10CL2 tested by the Water Quality Association for chlorine removal and particulate reduction Class II as per ANSI/NSF Standard 42 protocols.*

The Filtrex Advantage:

- **WQA and NSF Certified**
- **Environmentally Friendly**
- **More Carbon Surface Area**
- **Industry Leading Performance**

Notes:

- Performance claims are based on independent lab results and manufacturer's internal test data
- Actual performance is dependent on influent water quality, flow rates, system design and applications. Your results may vary
- Micron ratings based on 85% or greater removal of a given particle size
- Estimated capacity using 2ppm free chlorine with greater than 90% reduction
- Performance data has not been tested or validated by NSF
- Flush new cartridges until water runs clear prior to use

WARNINGS:

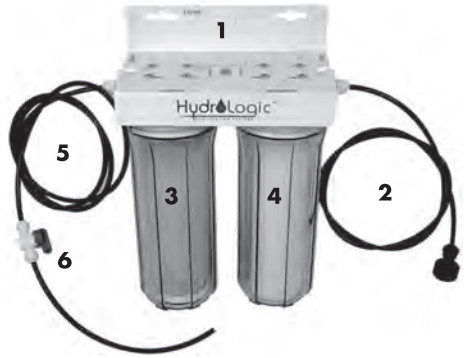
Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

Limited Liability: Filtrex Technologies makes no warranties of any kind, expressed or implied, statutory or otherwise and expressly disclaims all warranties of every kind, concerning the product, including, without limitation, warranties of merchantability and fitness for a particular purpose, except that this product should be capable of performing as described in this product's data sheet. Filtrex Technologies obligation shall be limited solely to the refund of the purchase price or replacement of the product proven defective, is Filtrex Technologies sole discretion. Determination of suitability of this product for uses and applications contemplated by Buyer shall be the sole responsibility of Buyer. Use of this product constitutes Buyer's acceptance of this Limited Liability.

smallBoy® **Setup:**

1. Main unit
2. Inlet tubing with garden hose connector
3. Green coconut carbon filter
4. Sediment filter
5. Outlet tubing
6. Shut-off valve

NOTE: *A 1 GPM flow restrictor is built into the brass connecting fitting between the two housings*



1) **Remove rubber dust plugs from inlet and outlet fittings!**
2) Begin by hooking the hose adapter included with the unit to your garden hose or spigot.
3) Then take the 5 ft. length of the 1/4" tubing and push one end into the hose adapter and the other end into the "feed" port of the filter unit on the right side.
4) Push the 5 ft. of 1/4" tubing into the "outlet" port of the filter on the left side. Decide where you want to install the inline shut off valve and cut the outlet tubing at that point. Simply push the two lengths of tubing into the shut off valve and you are ready to go.
5) Before using the unit you will need to flush out any carbon fines and particulates for 5 minutes, letting this go to drain.

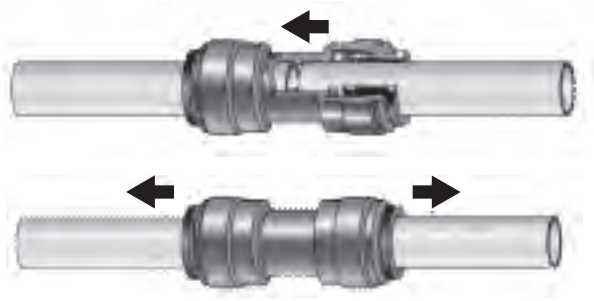
You are now ready to use your unit

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. Flush the carbon fines and any particles out of the unit for at least 5 minutes, letting this go to waste, before using the filtered product water.*
- *Do not install the unit where the incoming pressure may be more than 90 psi or there is excessive water hammer problems. If unsure, check the pressure with a hose spigot pressure gauge, available at hardware stores. If your inlet pressure is more than 90 psi, install a pressure regulator, available at your dealer or hardware store.*
- *Protect unit against freezing to prevent cracking of the filter housing and water leakage.*
- *Keep out of direct sun light or high intensity lights. This will degrade the housing and fittings over time.*
- *Do not drop or place heavy objects on top of unit.*
- **When replacing filter cartridges use filter wrench to remove housing. Do not use the wrench to tighten. Hand tighten the housings only. Take care not to over tighten.**
- *Do not install where leakage or failure may cause damage may cause damage to personal property.*

Push In/Quick Connect Fittings:

Connecting Push-In Fittings:



Push tube firmly into the fitting, all the way to tube stop. The collet (gripper) has stainless steel teeth which hold the pipe firmly in position whilst the 'O' Ring provides a permanent leak proof seal. Pull tubing to check for security. If some tube pulls out, then push all the way in again until it stops.

It is good practice to test the system prior to leaving site and/or before use.

Dis-connecting Push-In Fittings:

Ensure system is depressurized before removing fittings. 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 (available from your dealer) or small crescent wrench. The fitting can then be re-used. If the tube has been removed several times you may see score marks on the ends. This can lead to leaks so cut the end off the tubing totally square with a sharp blade using care.

Filter Changes:

The green carbon filter is rated to produce approximately 3,000 gallons of treated water, or approximately 6-9 months, whichever comes first. This is based on 1 Gallons Per Minute (GPM) flow rate and source water at 1 PPM chlorine. The sediment filter replace-ment schedule is based on how dirty your source water is. It is recommended to replace both filter cartridges at the same time. If you can visibly see dirt in the sediment filter sooner than 6 months or 3,000 gallons, this indicates high levels of sediment in your incoming water and this filter should be changed more often than the carbon. Replacements are available at your dealer.

Filter Housings:

- **Housing –** *Styrene Acrylonitrile*
- **Cap -** *Reinforced Polypropylene*
- **O-Ring -** *Buna-N*
- **Maximum Temperature -** *125°F*
- **Maximum Pressure -** *90 psi*

WARNING:

Clear housing can not handle the same pressure as opaque housing. Most household water pressure is lower than 90 psi, which is the maximum recommended psi for clear housing. If unsure of water pressure, check with a pressure gauge available at most hardware stores, or through your dealer.