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it's **logic**

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PURIFICATION SYSTEMS

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Built in USA

Earth-friendly Company

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TALLBlue™

Merlin-Garden Pro™ Pre-Filter Unit

User Manual

HydroLogic®
PURIFICATION SYSTEMS

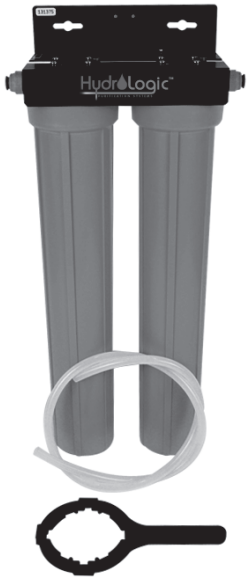
Description:

This unit is designed to be a chlorine and sediment pre-filter for the Merlin-Garden Pro™ RO unit. It should be used when the Merlin-Garden Pro™ is producing more than 20 gallons a day average (140 gallons a week average). This unit has up to 99% chlorine removal capacity @ 2GPM flow and can remove up to 90% of the sediment particles above 5 microns. It is essential to pre-treat the water before it enters the Merlin-Garden Pro™ when using high volumes of water. This will also reduce the frequency of the Merlin-Garden Pro's™ carbon pre-filter changes.

Table of Contents:

The **TALL**Blue™ unit includes:

- 2 –stage Sediment and Chlorine Pre-filter Unit with Wall Mount Bracket, 1 Sediment Filter and 1 Carbon Filter
- 4 Feet of 1/2" Feed Tubing (same as **Merlin-Garden Pro™**)
- Filter Wrench
- Does NOT Include Feed Valve
  - *Comes standard with Merlin-Garden Pro™*



Options available at your dealer:

- Under sink feed hookups matched to your plumbing.
- Chloramines specific carbon filter

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 125psi or there is problem with water hammer spikes. If unsure of water pressure, check with a pressure gauge available at most hardware stores. You should contact your dealer in case of a warranty issue.

Complete and mail Warranty Registration Card.

Tech Support / Contact:

In case your dealer can not help you with a particular application or setup question, you can contact Hydro-Logic via email: **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

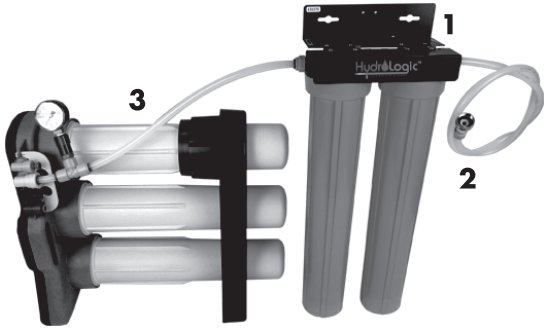
WARNINGS:

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.

TALLBlue™ **Setup:**

Begin by hooking your garden hose to the garden hose adapter included with the **Merlin-Garden Pro™** unit. Then take the 5 ft. length of the1/2" tubing included with your **Tall Blue™** unit and push one end into the hose adapter and the other end into the "feed" port of the filter unit on the right side. Take the 4.5 ft of 1/2" tubing that came with your **Merlin-Garden Pro™** and push this into the "outlet" of the **Tall Blue™**Before hooking the unit up to the **Merlin-Garden Pro™** you will need to flush out any carbon fines or particles from the **Tall Blue™**. Flush for 5 minutes, letting that water go to drain. Then take the open end of the 4 ft. 1/2" line and push it into the Feed Water Fitting on the **Merlin-Garden Pro™**. You are now ready to use your system.



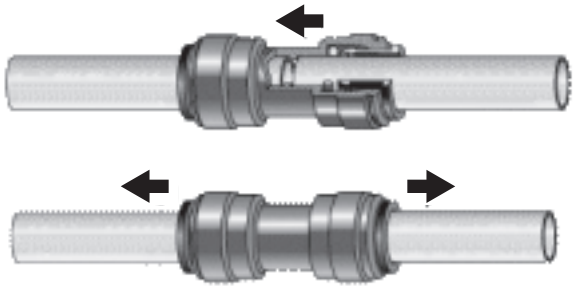
1. Main Unit
2. Inlet Tubing
3. Merlin-Garden Pro™

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 drain, before hooking up the unit to the Merlin-Garden Pro™*
- *Protect unit against freezing to prevent cracking of the filter 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.*
- *Do not install unit where incoming pressure may be more than 125 psi or there is excessive water hammer problems. If unsure, check the pressure with a hose spigot pressure gauge, available at most hardware store.*
- *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.*

Push In/Quick Connect Fittings:

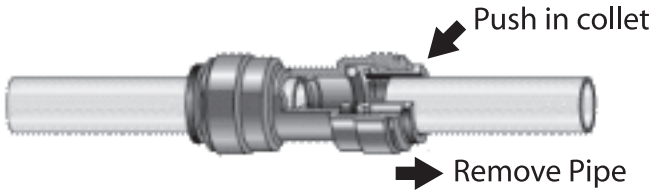
Connecting Push-In Fittings:



Push tube firmly into the fitting, all the way until the tube stops. 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 carbon filter is rated to produce approximately 4,500 gallons of RO water from the **Merlin-Garden Pro™**, or for approximately 6-9 months, whichever comes first. It is recommended to replace both the sediment and carbon filter cartridges at the same time. You will also need to replace the carbon pre-filter that came with the **Merlin-Garden Pro™**. The Flowmaster gallonage meters and filter capacity monitors are available to take the guess work out of this. If you can visibly see dirt in the sediment filter sooner than 6 months or 4,500 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. *An optional chloramines specific carbon filteris available as a replacement.*

Filter Housings:

- **Housing –** *Polypropylene*
- **Cap -** *Reinforced Polypropylene*
- **Button Assembly -** *300-series Stainless Steel, EPDM and Polypropylene*
- **O-Ring -** *Buna-N*
- **Maximum Temperature -** *125°F*
- **Maximum Pressure -** *125 psi*
- **Initial PSI @ GPM -** *1 PSI @ 10 GPM*