



*The Protector™ Series*  
Softener / Carbon Water Filtration



FS-2



FS-3

INSTALLATION AND OPERATING  
MANUAL

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Lara Distributing assumes no responsibility for water damage due to leaks. It is the user's responsibility to determine that the system is leak-free.

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## ONE YEAR LIMITED PARTS WARRANTY

Effective on products purchased after March 10, 2005.

Lara Distributing warrants the product to the original owner only to be free of defects in material and workmanship for a period of one year from the date of receipt. Lara's liability under this warranty shall be limited to repairing or replacing at Lara Distributing's option, without charge, F.O.B. Lara Distributing's factory, any product of Lara Distributing's manufacture. Lara Distributing will not be liable for any cost of removal, installation, transportation or any other charges which may arise in connection with a warranty claim. Products which are sold but not manufactured by Lara Distributing are subject to the warranty provided by the manufacturer of said products and not by Lara Distributing's warranty. Lara Distributing will not be liable for damage or wear to products caused by abnormal operating conditions, accident, abuse, misuse, unauthorized alteration or repair or, if the product was not installed in accordance with manufacture's printed installation and operating conditions, or damage caused by hot water, freezing, flood, fire or acts of God.

Lara Distributing will not be responsible for any consequential damages arising from installation or use of the product, including any water or mold damage due to flooding which may occur due to malfunction or faulty installation, including, but not limited to failure by installer to over- or under-tighten fittings, housings, and/or push-style fittings, or improper installation of push-style fittings. Consumable items such as pre filters and membranes are not covered under the warranty.

The disposable filters and cartridges are not covered under the warranty.

To obtain service under this warranty, the defective system or components must be returned to Lara Distributing with proof of purchase, installation date, failure date and supporting installation data. Any defective product to be returned to the factory must be sent freight prepaid; documentation supporting the warranty claim and a Return Goods Authorization (RGA) number must be included. Lara Distributing will not be liable for shipping damages due to the improper packaging of the returned equipment and all returned goods must also have adequate insurance coverage and a tracking number.

Lara Distributing will not pay for loss or damage caused directly or indirectly by the presence, growth, proliferation, spread or any activity of "fungus", wet or dry rot or bacteria. Such loss or damage is excluded regardless of any other cause or event that contributes concurrently or in any sequence to the loss. We will not pay for loss or damage caused by or resulting from continuous or repeated seepage or leakage of water, or the presence or condensation of humidity, moisture or vapor, that occurs over a period of 14 days or more. "Fungus" and "fungi" mean any type or form of fungus or Mycota or any by-product or type of infestation produced by such fungus or Mycota, including but not limited to, mold, mildew, mycotoxins, spores, scents or any biogenic aerosols.

Lara Distributing will not be liable for any incidental or consequential damages, losses or expenses arising from installation, use, or any other causes. There are no expressed or implied warranties, including merchantability or fitness for a particular purpose, which extend beyond those warranties described or referred to above.

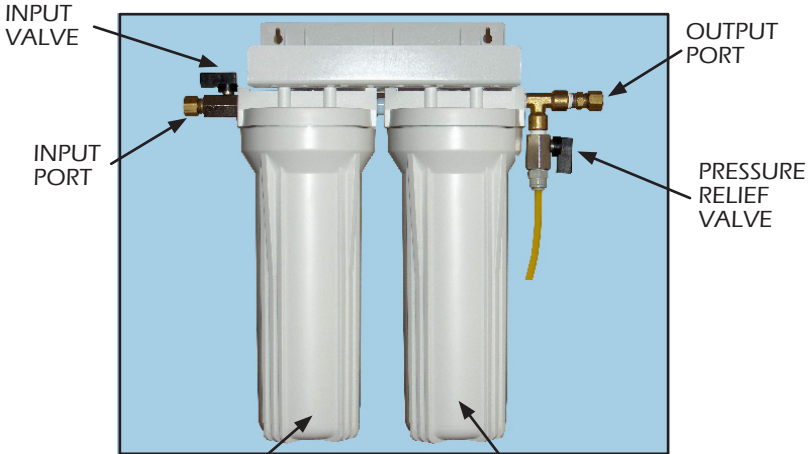
**\* The one year limited parts warranty does not apply to consumable items, including but not limited to, filters and cartridges unless specifically stated above**



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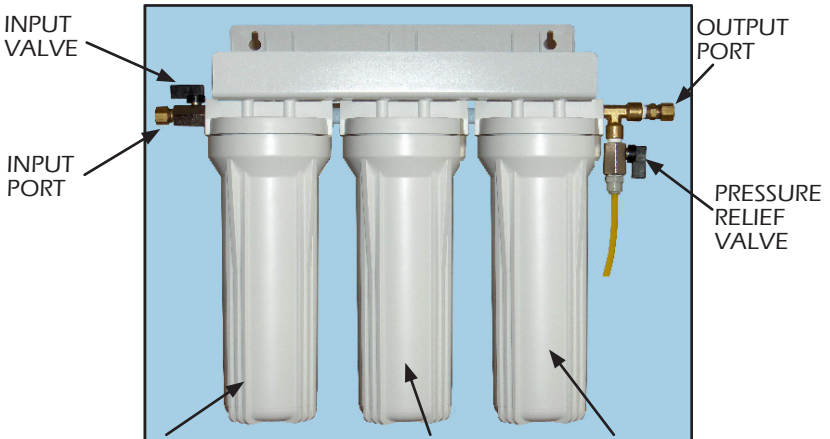
## FS-2



SOFTENER CARTRIDGE  
(DI-WS-10)  
Or for filtration only Add  
5.0 micron Carbon Block  
(CF-5.0-10)

5.0 micron  
CARBON BLOCK  
(CF-5.0-10)

## FS-3



SOFTENER CARTRIDGE  
(DI-WS-10) Or for filtration  
only Sub Carbon Block

SOFTENER CARTRIDGE  
(DI-WS-10) Or for filtration  
only sub Carbon Block

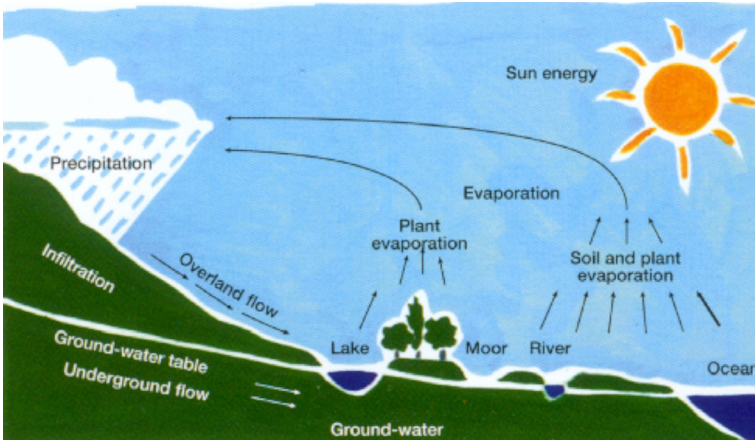
5.0 micron  
CARBON BLOCK  
(CF-5.0-10)

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## WHAT IS HARD WATER

Hard water is water that contains dissolved chalk, lime and other minerals collected through the ground. Rainwater is naturally soft, but as it percolates through chalk and limestone it dissolves and collects these minerals. The hardness level in your water depends on your water source (river or ground water) and where the location of the main water supply is. The minerals contained in the hard water settle out as an unsightly deposit of hardness scale whenever the water is heated, or when cold standing water evaporates.



## WHAT IS SOFTENED WATER

To fully soften water, the minerals (calcium and magnesium) which cause hardness must be removed. These minerals are removed by ion-exchange. A domestic ion-exchange water softener is the only process specifically designed to completely remove hardness. The softened water will gradually remove existing scale from pipe work, espresso machines, bathroom fittings and heating elements.

Softened water provides real cost savings in service, maintenance and replacement of expensive equipment by gradually removing existing scale from pipe work, espresso machines, and heating elements.

## WHAT DOES THE SYSTEM DO?

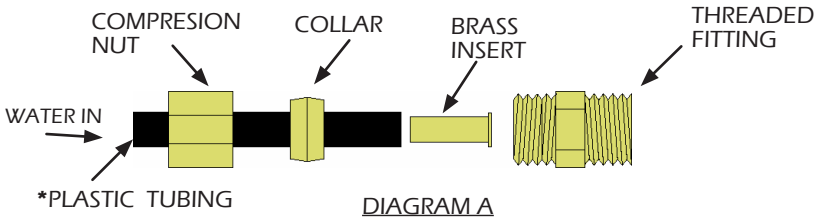
Lara Distributing's Protector™ Series Systems are used to soften hard water, therefore reducing costly maintenance. This series of systems employ a specially formulated, proprietary high capacity 10 inch softening cartridge(s) having a capacity of approximately 900 grains of hardness removal for each softener cartridge. These systems also include a 5 micron carbon block filter to remove sediment, chlorine, bad taste, and odors. Combined, these elements produce the best protection for your espresso machines.

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## INSTALLATION

1. Mount system using the two (or three) mounting holes that allow the bracket to hang from screws or bolts.
2. Connect water to be filtered and softened to the left (input) side of the unit as shown in DIAGRAM A.



**\*IF COPPER TUBING IS USED, NO BRASS INSERT IS REQUIRED.\***

3. Connect the fittings on the right side (output) of the unit to the brewing equipment as shown in DIAGRAM A.
4. Remove Carbon Block Filter from its housing and screw the empty housing back on. (the wrench is only for difficult removal and not for tightening the housings.) Housings should seal with hand tightening. If they do not seal, remove and check the O-ring for debris or damage.
5. Turn pressure relief valve to the OPEN position. (knob parallel to valve body)
6. Turn input valve to the OPEN position.
7. Bleed air and water from unit via yellow waste line on right side of the system. The yellow line should be placed in a small container or bucket to catch the waste. Bleed until no air is emitted and the water is clear.
8. Turn input valve to the CLOSED position. (knob perpendicular to valve body.)
9. Reinstall Carbon Block Filter into far right housing.
10. Repeat steps 5-8.
11. Place date sticker on unit to indicate when the system was installed and/or serviced.
12. Turn pressure relief valve to the CLOSED position.
13. Turn input valve to the OPEN position.

**Check the system to ensure that all fittings are tight and leak-free before leaving the system unattended.**

## FILTER REPLACEMENT

1. Turn input valve to the CLOSED position.
2. Turn pressure relief valve to the OPEN position.
3. Bleed water from unit via yellow waste line on right side of system. The yellow line should be placed in a small container or bucket for waste water. Bleed until pressure is removed, and no water is coming from unit.
4. Remove the filter housings by hand (wrench is only for difficult removal and not for tightening housings.) Housings should seal with hand tightening. If they do not seal, remove and check the O-ring for debris or damage.
5. Replace filters with the proper cartridges as shown on pages 6-7
6. When replacing softener cartridges and carbon filters, follow steps 4-10 in page 4.
7. Place date sticker on unit to indicate when the filters were replaced
8. THIS COMPLETES THE REPLACEMENT OF THE FILTERS.

**Check the system to ensure that all fittings are tight and leak-free before leaving the system unattended.**

## TROUBLESHOOTING GUIDE

Cause	Replace pre-filters
How do I know when to replace Softener Cartridge(s)?	Use a Hardness test kit
How do I know when to replace Carbon Filter?	Replace Carbon Block Filter the same time you replace the Softener Cartridge(s)