



Ultra Tech II™

WH-750 & WH-500



INSTALLATION / CARE & USE / WARRANTY

CONGRATULATIONS!

Ultra-Tech Whole House Water Filters provides you and your family with clean, safe water, free from odors, chlorine, heavy metals, lead, mercury, pesticides, herbicides and a host of other chemicals and contaminants. Ultra-Tech Whole House Water Filters also improve your water's clarity and taste. With minimal care, your Ultra Tech Whole House Water Filter will provide you with years of healthy, refreshing, filtered water for your entire household.

COMPONENT LIST

Care and Use Manual

WH - Backwash Bypass Control Valve; and either

WH-750: One (1) WH-750 System; **OR**

WH-500: One (1) WH-500 System

HOOK-UP KIT

(Optional)

1/2", 3/4" or 1" sizes

ITEM	PIECES
1" Union Elbow.....	6
1" Wall Clip	4
1" In-Line Valve	1
1" Union Connector.....	2
1" Male Connector.....	2
1" Pipe (per foot).....	20
Flex Pipe (<i>3/4" and 1" kits only</i>).....	2

OPTIONAL-PREFILTER

(For High Sediment Areas)

See Page 5 for details.

INSTALLATION INSTRUCTIONS:

IMPORTANT ⚠ THIS SYSTEM IS DESIGNED FOR USE WITH POTABLE WATER SOURCES THAT ARE MICROBIO-LOGICALLY OR CHEMICALLY SAFE.

NOTE: OUTDOOR INSTALLATION MAY REQUIRE ADDITIONAL STEPS DEPENDING ON THE LOCAL WEATHER CONDITIONS AND/OR LOCAL ORDINANCES AND REGULATIONS. THE CUSTOMER AND HIS/HER INSTALLER ARE SOLELY RESPONSIBLE FOR INSTALLATION DECISIONS. CARICO RECOMMENDS THAT YOU USE A LICENSED & INSURED PLUMBER FOR INSTALLATION.

IMPORTANT ⚠ DO NOT INSTALL IN AREAS THAT COULD SUBJECT THE UNIT TO FREEZING.

IMPORTANT ⚠ READ AND FOLLOW THESE INSTRUCTIONS. SAVE THIS MANUAL. WARRANTY MAY BECOME INVALID IF A CERTIFIED LICENSED PLUMBER DOES NOT INSTALL THE UNIT.

IMPORTANT ⚠ DO NOT USE JOINT COMPOUND/PIPE DOPE ON ANY THREADED CONNECTIONS - USE TEFLON TAPE.

IMPORTANT ⚠ CUT PLASTIC TUBING STRAIGHT, NOT AT AN ANGLE, TO INSURE A PROPER FIT AND AVOID LEAKS.

WH-750/500 SYSTEM INSTALLATION

WARRANTY MAY BECOME INVALID AND VOID IF A CERTIFIED LICENSED PLUMBER DOES NOT INSTALL THE UNIT.

STEP "A"

1. Locate the main water supply line and determine the point at which you wish to install the unit. Carico recommends that you install the Filter on the main water supply **BEFORE** any faucets or spigots. Note any faucets or spigots prior to the Filter will dispense unfiltered water.
2. Carefully remove your new Ultra Tech Water Filter from shipping carton. Your Filter comes loaded with the filter media. Carico suggests carefully cutting the bottom of the box to avoid lifting the entire filter.
3. Remove black safety cap on top of tank.
4. Open the small box and remove the **BACKWASH BYPASS CONTROL VALVE**.
5. Secure the white basket onto the **BACKWASH BYPASS CONTROL VALVE** by turning clockwise as shown in photo 1.
6. Attach the **BACKWASH BYPASS CONTROL VALVE** to the Tank by lining up the fill tube with the opening in the basket and sliding the Valve onto the top of the tank.
7. Hand tighten the Valve by turning clockwise.

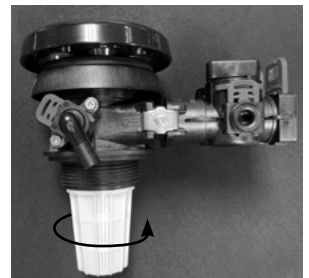


PHOTO 1

STEP "A" (Continued)

8. Attach the stainless steel flex pipe (3/4" or 1") or the 1/2" (if not using the flex pipes, insert the (3/4" or 1") adapters (included in the box with the Valve). Remove the red locking clips on the Valve as shown in photo 2. Slide the flex pipe or adapters all the way into the Valve (photo 3). Replace the clips to lock the flex pipe or adapters in place (photo 4). If the adapter is not fully inserted, the clips will not lock.



PHOTO 2

9. Turn off the main water supply. Turn on nearest faucet to the installation location to release the water pressure in the system. Make two cuts (approximately six inches apart) in the main water line at point of installation.



PHOTO 3

10. Position your New Ultra Tech Water Filtration System next to the newly cut main water line. Make sure that the location is flat. Always place the unit on a concrete, brick, cement or other firm foundation. Connect the flexible pipe or the quick connect elbow fitting to the bottom section of the main water line (press down until you feel or hear a "click" then gently pull up to ensure that the fitting is locked in place).



PHOTO 4

11. Complete connecting the incoming water to the left (black) side of the Valve using the tubing and connectors provided in the installation kit.

12. Repeat Steps 10 and 11 to connect the right outlet side of the valve (red handle) to the pipes taking filtered water into the building.

13. Fasten the four wall mount brackets (included in installation box) to the elbow fittings as necessary to secure them to the wall.

14. **Check to make sure that both the red and black valves on the unit are CLOSED. Open the black valve. Fill the unit by SLOWLY turning on the main water supply.**

15. Check for leaks.

16. Allow the unit to fill completely. If the system is leak free, the unit is full when the water stops running. Proceed to the Backwash in Section B. **DO NOT OPEN THE RED VALVE.**

STEP "B"

IMPORTANT ⚠ *After completing the installation, you MUST backwash your new Ultra Tech Whole House System to remove dust.*

IMPORTANT ⚠

BEFORE YOU BEGIN BACKWASH: Always remember these 2 points:

1. Make sure the valve from the tank to the house (**Red Valve**) **remains closed**; and
2. **Slowly** open and close all valves while backwashing. Opening valves quickly can result in large water pressure swings which could cause the system to release carbon fines into your system.

BACKWASH INSTRUCTIONS

1. Turn off the water supply line to filter.
2. Find the faucet nearest the unit and open it to relieve any water pressure in the system. Close the faucet after water stops coming out.
3. Shut off the Black Inlet Valve on the unit.
4. Shut off the Red Bypass valve on the unit.
Keep the Red valve closed until you are finished with the entire backwash process.
5. If the unit is inside, attach one end of a hose to the backwash outlet/hose adapter and place the other end of the hose in the nearest drain.
6. The unit comes with different outlets depending on the hose, if any, you want to use. Remove the red locking clip. Pull out the backwash outlet/hose adapter. Remove the grey flow restrictor. Put in the backwash outlet/hose adapter you wish to use and replace the locking clip.
7. Push the button in the middle of the handle on the head (on top of the Whole House filter)
8. Turn the wheel to "BACKWASH"
9. Open the Black water valve to the unit.
10. **SLOWLY** turn on the main water supply. If you open the water supply valve quickly, the sudden change in pressure could cause small amounts of media to come out of your faucets, toilets or appliances for a period. Water will begin to flow out of the backwash outlet.
Note: if you notice pieces of the media coming out of the faucets, allow the system to rest overnight, then run the faucets until the media no longer comes out.
11. Allow the water to run until the water coming from the tank is clear, typically no more than 20 minutes. Use a white cup or bucket to periodically check the water coming out of the unit.
12. **When the water runs clear, SLOWLY turn off** the water supply. When the water supply is off, turn the wheel on the Valve to "FAST RINSE" position. **SLOWLY** turn on the water supply and allow to run for 5 minutes. Turn off the water supply.
13. Turn the wheel on the Valve to "FILTERING" position
14. Open the RED valve.
15. Go inside of house or building, turn on the faucets, and shower to remove the air from the water lines. **SLOWLY** turn on the water supply. Let run for 20-30 seconds to purge any air from the system.
16. Check for leaks.



OPTIONAL PRE-FILTER SYSTEM COMPONENT LIST

- One (1) Housing containing (1) Head and (1) Sump
- Two (2) Cartridges
- Two (2) Quick Connect Threaded Connectors in 1"
- One (1) Quick Connect Union Connector in 1"
- One (1) Stop Valve (Ball Valve)

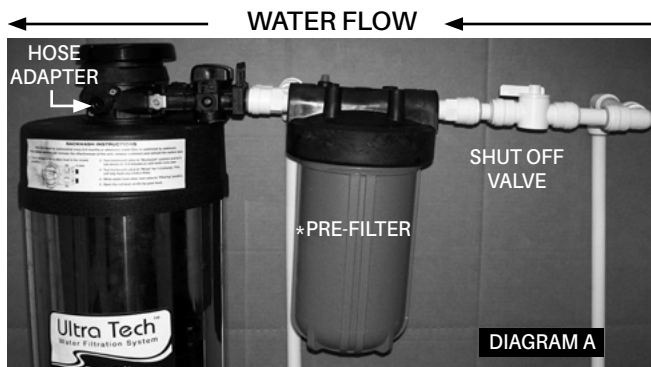
PRE-FILTER SPECIFICATIONS

- Maximum PSI 100 psi
- Micron Rating..... 1 to 10 Microns
- Inlet/Outlet Connections 1"

ONLY FOR USE ON POTABLE WATER SOURCE THAT IS MICROBIOLOGICALLY AND CHEMICALLY SAFE.

PRE-FILTER SYSTEM INSTALLATION:

1. Remove pre-filter and parts from its shipping carton. Check to see that all components are included. (See component list on page 5).
2. Connect the two Quick connect Threaded Connectors to the inlet and outlet sides of the Pre-Filter's Head
3. Unscrew the Pre-Filter's Sump from the Head, insert one of the cartridges after removing its wrapping. Screw Sump back onto the Head making sure that the "O" ring is properly seated to avoid any leaks. Be sure to properly tighten the Sump to the Head.
Note: The head is marked with arrows and the words "IN" and "OUT" to show the flow of water.
4. Connect the incoming water line. Measure the pipe and fittings from the incoming water supply and connect to the in line valve (included in the hookup kit for the whole house) level with the inlet tube on the Backwash Valve. (See diagram "A"). Cut a small piece of pipe and attach the in line valve to the quick connect fitting on the inlet side of the pre filter. Using another small piece of pipe attach the outlet side quick connect fitting of the pre filter to the quick connect union adapter. Attach the union adapter to the inlet tube on the Backwash Valve.
5. Connect the outgoing water line by following steps 1 through 5 in Step "B" of these installation instructions on the outflow side of the head.
Note: When backwash procedure begins, press and hold the red button on top of pre-filter to release any air that may be in the pre filter unit.



*PRE-FILTER IS OPTIONAL

PRE-FILTER CARTRIDGE REPLACEMENT:

1. How often you need to replace the pre-filter cartridge depends on the quality of your water supply. For example, the more sediment or silt you have in your water, the more often you need to change the pre-filter cartridge. Generally, the cartridges will last between 3 and 6 months.
2. Use inline valve to turn off the water supply.
3. Depressurize water line by opening faucet closest to the system.
4. Use the pre-filter wrench provided to unscrew the pre-filter housing sump from the upper assembly using a clockwise motion. If indoor assembly, be prepared to drain excessive water by placing a bucket or large container under the housing.
5. Note position of the black rubber O-ring in the groove of the upper portion of the sump. Always check the o-ring for any rips or tears.
6. Discard used cartridge and wipe out inside of sump. Wipe O-ring clean if needed and lubricate lightly with plumbers silicone or petroleum jelly. Refit O-ring onto groove of the upper portion of the sump.

PRE-FILTER CARTRIDGE REPLACEMENT (Continued):

7. Insert new cartridge into sump and hand-tighten sump onto upper assembly by turning it counter-clockwise and fully tighten.
8. Re-pressurize system by slowly turning on water and check for leaks.

PREFILTER CARTRIDGE REPLACEMENT DATES CHART

Original Installation Date: _____

Important: Always follow replacement instructions detailed in this booklet and enclosed with replacement cartridge kit. Note replacement dates below. Direct any questions about pre-filter to:

Customer Service: Phone: +1-954-973-3900 or by email: custsvc_fl@carico.com at Carico International, Inc., Fax: +1-954-247-8860, www.carico.com

CARTRIDGE REPLACEMENT DATES:

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SAVE THIS PAMPHLET AND INSTRUCTIONS

MEDIA REPLACEMENT:

Based on average use and the absence of unusually high levels of contaminants in your water, the media will last 5 to 6 years for the WH-750 and 4 to 5 years for your WH-500. Contact your Authorized Carico Representative, Distributor or Carico's Customer Service Department to order replacement media.

WH-750/550 MAIN TANK SPECIFICATIONS

Dimensions 10" Diameter
 WH-750 Overall Height - 53 1/2" Weight - 84 lbs.
 WH-500 Overall Height - 37 1/2" Weight - 57 lbs.
 Inlet/Outlet Connections 1/2", 3/4" or 1"

Min./Max. Operating Pressure	15- 125 psi (103.4-861.9 kPa)
Min./Max. Operating Temperature:	35°-120°F (2°-49°C)
pH Range	4.0 - 11.0
Tank Pressure Tested to	500 psi (3447.37)
System Production: Nominal production when running to atmosphere (i.e., with empty tank) at 77° F and 50 PSI	18.95 gpd (71.73 lpd)
Post Media Chlorine, Taste and Odor capacity:	WH-750: 750,000 gal(2839050 l) WH-500: 500,000 gal(1892700 l)
Service Flow Rates/Peak	8 gpm (30.28 lpm)/13 (49.21)

ONLY FOR USE ON POTABLE WATER SOURCE THAT IS MICROBIOLOGICALLY AND CHEMICALLY SAFE.

NSF CERTIFIED QUICK CONNECT CONNECTORS



PHOTO 1 - UNION ELBOW CONNECTOR

Available in the following sizes:

1/2"
3/4"
1"

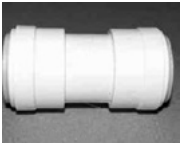


PHOTO 2 - UNION CONNECTOR

Available in the following sizes:

1/2"
3/4"
1"

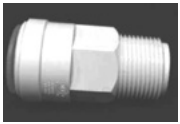


PHOTO 3 - QUICK CONNECT THREADED CONNECTOR

Available in the following sizes:

1/2"
3/4"
1"

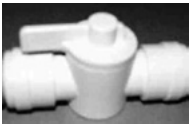


PHOTO 4 - SHUT-OFF VALVE

Available in the following sizes:

1/2"
3/4"
1"

PHOTO 5 - CPVC PIPE

Available in the following sizes:

1/2"
3/4"
1"

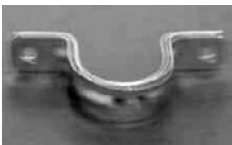


PHOTO 6 - MOUNTING BRACKET (4)

Available in the following sizes:

1/2"
3/4"
1"

1. **LIMITED WARRANTY.** The warranty obligations of Carico International LLC (“Carico”) for this product are limited to the terms set forth below.

- a. **WHAT IS COVERED?** This limited warranty covers defects in materials and workmanship in your product.
- b. **WHAT IS NOT COVERED?** This limited warranty does not cover any damage, deterioration or malfunction resulting from any alteration, modification, improper or unreasonable use or maintenance, misuse, abuse, accident, neglect, exposure to excess moisture, fire, improper packing and shipping (you must present such claims to your shipping company), lightning, power surges, or other acts of nature. This limited warranty does not cover (i) any damage, deterioration or malfunction resulting from any unauthorized tampering or modification of the product; (ii) any repairs attempted by anyone unauthorized by Carico to make such repairs; or (iii) any other cause, which does not relate directly to a defect in materials and/or workmanship of the product.

2. **HOW LONG DOES THIS COVERAGE LAST?**

- i. ALL INSTALLATION KITS: FULL 30-DAY WARRANTY;
- ii. WHOLEHOUSE, IRON/MAG HEADS: 4-YEAR LIMITED WARRANTY
- iii. ULTRA TECH SS500/750 AND IRON/MAG TANKS: 10-YEAR LIMITED WARRANTY

Note: (excludes media and installation kits)

Note: You are responsible for certain shipping charges on claims for orings, fittings, and similar parts

3. **WHO IS COVERED?** Only the original purchaser of the Carico product is covered under Carico’s limited warranty. This limited warranty is not transferable to subsequent purchasers or owners of this product.

4. **WHAT CARICO WILL DO.**

- a. Carico will, at its sole discretion, provide one of the following three remedies to whatever extent Carico, in its sole discretion, deems necessary to satisfy a proper claim under this limited warranty:
 - i. Repair or facilitate the repair of any defective unit or parts within a reasonable period of time, free of any charge for the necessary parts and labor, other than any applicable shipping, handling and processing fees as expressly set forth herein, to complete the repair and restore this product to its proper operating condition. Unless otherwise set forth herein, Carico will also pay the shipping costs necessary to return this product once the repair is complete;
 - ii. Replace the defective product with a direct replacement or with a similar product deemed by Carico, in its sole discretion, to perform substantially the same function as the original product; or
 - iii. Issue a refund of the original purchase price less depreciation determined based on the age of the product at the time remedy is sought under this limited warranty.

5. **WHAT CARICO WILL NOT DO UNDER THIS LIMITED WARRANTY?**

- a. If you elect to return any product to Carico or the authorized Distributor from which it was purchased or any other party authorized to repair Carico products, you must insure the product during shipment, with said insurance and shipping charges prepaid by you. If this product is returned uninsured, you assume all risks of loss or damage during shipment.
- b. Carico is not responsible for any costs related to the removal or re-installation of any product.
- c. Carico is not responsible for any costs related to installation of setting up of any product, or any adjustment a product.

6. **HOW TO OBTAIN A REMEDY UNDER THIS LIMITED WARRANTY.**

- a. To obtain a remedy under this limited warranty, you must first contact either Carico or the authorized distributor from whom you purchased the product. To pursue any remedy under this limited warranty, you must possess an original, dated contract or receipt as proof of purchase from an authorized Carico distributor.
- b. Do not return this product to Carico under this limited warranty without first obtaining a return authorization number (“RMA”). You can obtain an RMA only from Carico’s

Customer Service Department (in the US call 1-800-440-1434 or email at CustSvc_FL@Carico.com).

- c. If Carico decides that you need to return it directly to Carico, make sure that you properly pack the product, preferably in the original carton, for shipping.
- d. Carico will refuse any cartons not bearing a return authorization number from Carico's Customer Service Department (1-800-440-41434 in the US) or email at custsvc_fl@carico.com.

7. LIMITATION OF LIABILITY. THE MAXIMUM LIABILITY OF CARICO UNDER THIS LIMITED WARRANTY SHALL NOT EXCEED THE ACTUAL PURCHASE PRICE PAID FOR THE PRODUCT. TO THE MAXIMUM EXTENT PERMITTED BY LAW, CARICO IS NOT RESPONSIBLE FOR DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY BREACH OF WARRANTY OR CONDITION, OR UNDER ANY OTHER LEGAL THEORY. Some countries, districts or states do not allow the exclusion or limitation of relief, special, incidental, consequential or indirect damages, or the limitation of liability to specified amounts, so the above limitations or exclusions may not apply to you.

8. EXCLUSIVE REMEDY. TO THE MAXIMUM EXTENT PERMITTED BY LAW, THIS LIMITED WARRANTY AND THE REMEDIES SET FORTH ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, REMEDIES AND CONDITIONS, WHETHER ORAL OR WRITTEN, EXPRESS OR IMPLIED. TO THE MAXIMUM EXTENT PERMITTED BY LAW, CARICO SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IF CARICO CANNOT LAWFULLY DISCLAIM OR EXCLUDE IMPLIED WARRANTIES UNDER APPLICABLE LAW, THEN ALL IMPLIED WARRANTIES COVERING THIS PRODUCT, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL APPLY TO THIS PRODUCT AS PROVIDED UNDER APPLICABLE LAW. IF ANY PRODUCT TO WHICH THIS LIMITED WARRANTY APPLIES IS A "CONSUMER PRODUCT" UNDER THE MAGNUSON-MOSS WARRANTY ACT (15 U.S.C.A. §2301, ET SEQ.) OR OTHER APPLICABLE LAW, THE FOREGOING DISCLAIMER OF IMPLIED WARRANTIES SHALL NOT APPLY TO YOU, AND ALL IMPLIED WARRANTIES ON THIS PRODUCT, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR THE PARTICULAR PURPOSE, SHALL APPLY AS PROVIDED UNDER APPLICABLE LAW.

9. FULL LIFETIME HAZARD WARRANTY. If your Carico product is destroyed by fire, flood, storm, earthquake, misuse, neglect, accident, malfunction, or altered in any such way that its performance is affected, Carico will replace your product for one half (1/2) of the current retail purchase price plus Shipping.

10. OTHER CONDITIONS.

- a. This limited warranty gives you specific legal rights, and you may have other rights which vary from country to country or state to state. This limited warranty is void if (i) the label bearing the serial number of this product is removed or defaced, (ii) this product is not purchased from Carico or an authorized Carico distributor; or (iii) the product was altered. If you are unsure whether a seller is an authorized Carico distributor, contact Carico Customer Service at CustSvc_FL@Carico.com.
- b. International Shipments may incur additional shipping charges.
- c. All funds are in US currency.
- d. Any fees mentioned in this warranty are subject to change without notice and you will pay the fees in effect at the time you make your claim.

***Carico thanks you for purchasing a Carico product.
We hope it will give you years of satisfaction.***