



# Installation Guide

Full House Water Softener & Filtration System

**MODEL# AQFS220 / AQFS220L**



# WELCOME

Thank you for purchasing the AQUIOS™ Full House Water Softener & Filtration System.

We are proud to provide you with a salt-free full house water treatment system that utilizes proven commercial technology and performance in a sleek, compact design. Your new system will ensure that sediment, chlorine and other undesirable chemicals are removed from your water\*, that calcium, manganese and other minerals found in hard water do not build up on your fixtures and pipes, while providing clean, pure and healthy water to you and your family.

Unlike salt-based systems, the minerals that make water “hard” are not removed. Instead, AQUIOS™ utilizes a commercial technology that ensures that these minerals do not accumulate or build up on faucets, water heaters, shower heads, internal pipes or any other device that utilizes your existing water source. You will feel a difference in “water feel”, but not one that is “slippery” as is commonly found with salt water softeners.

The AQUIOS™ Water Treatment System is a revolutionary approach to water treatment and conditioning. It combines carbon block filtration with commercial grade water conditioning to deliver a full house, all in one solution. Our unique design ensures virtually no pressure loss or reduction in water flow rate and requires absolutely no programming, electricity or maintenance.

Now that's simple.....



# IMPORTANT

## Read All Instructions Before Installation

It is recommended that a plumbing professional perform the installation of your Aquios™ system. Damage resulting from improper or incorrect installation is not covered under the manufacturer warranty.

Remove all packaging material, bubble wrap and plastic shrink wrapping from the housing and cartridge before installation.

The maximum PSI rating is 100 (6.8 Bar). The recommended pressure setting is 80 PSI (5.6 bar). Install a pressure regulator before the Filter Housing inflow if water pressure may exceed the maximum PSI rating

System **MUST** be installed vertically.

Verify that the inlet port is connected to your water inflow line and the outlet port is connected to your outflow water line.

System **MUST** be installed to the **COLD WATER LINE**.

Inlet and outlet ports can split or break if over-tightened. **DO NOT OVERTIGHTEN.**

Ensure that the O-Ring is properly set within the housing.

Place the Aquios™ cartridge in cool water for 15 minutes prior to inserting into system.

## QUESTIONS?

Call Us Toll Free @ 888-475-0343

# Installation Guide

## Getting Started

### What's Included

Your Aquios™ system is a complete system. The parts included are:

- (1) Housing head with built in bypass / shut off valve
- (1) Housing collar
- (1) O-ring
- (1) White sump
- (1) 3/4" Stainless steel U-bracket
- (1) Softener/Filtration cartridge
- (1) Collar wrench
- (3) #10 x 1-1/2" screws
- (3) 1/4" Anchors
- (1) Installation manual
- (1) Cartridge specification sheet



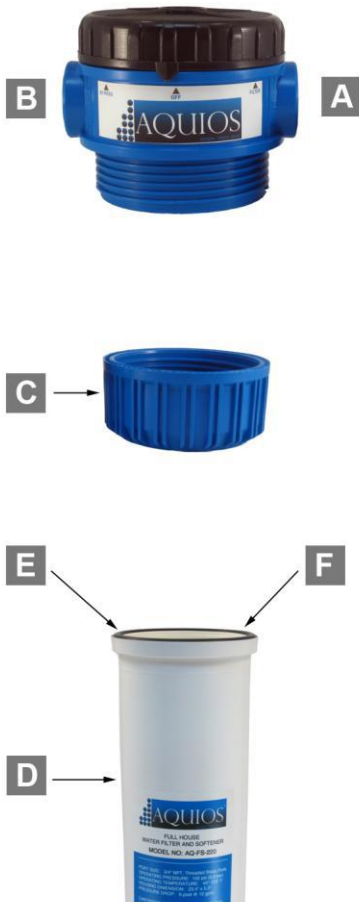
### What You Will Need

Installation of your Aquios™ system will require some or all of the following:

- Teflon tape
- Hacksaw
- 3/4" PVC threaded fittings
- 3/4" PVC pipe
- Plumber's primer and glue
- Wrench

\* Compressions fittings and PEX tubing can be used instead of PVC

## Knowing Your System



### (1) The “Valve-In-Head”

The Aquios™ system utilizes a unique “Valve-in-Head” design that allows for water to continue flowing to your home when changing the condition cartridge. The head has an inlet **A** and outlet **B** that will need to be connected to your water supply. The standard Aquios™ unit comes with 3/4” port size. To shut off water to the system, turn the black portion of the head clockwise to the OFF position. To bypass the system, simply turn the black portion of the head counter clockwise to the BY-PASS position. To condition and filter your water, the valve should be turned to the ON positions.

### (2) Collar

The collar **C** is a threaded component that connects the system head to the gasketed sump. The included collar wrench is used to loosen and tighten the collar when replacing the cartridge.

### (3) Sump

The sump **D** holds your conditioning/ filtration cartridge. It contains a rubber O-ring **E** that must be set properly in the recessed channel **F**

## Putting It All Together

### (1) Shut off the water at the meter

To install your Aquios™ system, you **MUST** shut off the water from the meter. To do this, locate your water meter, use a channel lock wrench, and turn the valve to the off position.

### (2) Attach the U-bracket

Attach the included U-bracket horizontally to the wall studs with the provided screws. If studs do not align with the installation position, then utilize the included anchors. If attaching the U-bracket to masonry or cement siding, additional fittings may be required (not included). Ensure that the U-bracket is a minimum of 36" from the ground level.

### (3) Remove the housing head from the housing body

Detach the blue collar from the housing head and body by utilizing the included wrench. Turn the wrench counterclockwise.

### (4) Attach the fittings to Inlet and Outlet ports

Attach the appropriate threaded nipple (not included) securely into the inlet and outlet ports on each side of the Valve-In-Head. Use Teflon tape (not included) on threads. **IMPORTANT:** Be sure to properly attach the water line inflow to the inlet port and the water line outflow to the outlet port as marked on the system. Turn the Valve-In-Head to the other side if necessary.

### (5) Attach Valve-In-Head to wall

Insert the nipples in the housing head through the sides of the U-bracket. System **MUST** be vertical.

## Putting It All Together

### (6) Make water line connections

Securely connect water supply line inlet and outlet nipples to housing head. This connection will probably require that you cut into your main water supply. It is highly recommended that you utilize a professional plumber to perform this connection.

### (7) Place softener/filtration cartridge in sump

Set cartridge into sump. Align the cartridge O-ring with the sump housing adaptor at bottom of the sump.

### (8) Check O-ring

Check that the rubber O-ring is properly seated in the sump channel.

### (9) Attach sump to housing body

Securely tighten the sump to the housing head by attaching the blue collar. Insert the collar from the bottom of the sump and attach to the threaded portion of the housing head. Using the provided wrench, turn clockwise. **DO NOT OVERTIGHTEN.**

### (10) Turn on water supply

Check for leaks once water supply is turned on. If leaks occur, check to ensure that housing body is firmly attached to the housing head. If leaks persist, repeat steps 8 through 10. If leaks still occur, contact Aquos Customer Service for assistance.

# Technical Specifications

## Technical Specifications

### AQ-FS-220 System

System dimensions: 23.4" x 5.3"

Port size: 3/4" NPT, threaded brass ports

Head design: In-head-valve with internal bypass and shut-off function

Operating pressure: 100 PSI (6.9 bar)

Operating temperature: 40°-115°F

Pressure drop: 6 PSID @ 12 GPM

### RCFS220 Cartridge

Cartridge dimensions: 20" x 2.5"

Filtration rating: 5 Micron

Filtration medium: Carbon block

Cartridge rating: ~40,000 gallons

Chlorine reduction: 12,000 @ 2 gpm

Flow rate: 2 GPM @ 2 PSI drop

NSF 42 tested and certified

High absorption rate and capacity

Low pressure drop







simply brilliant,  
brilliantly simple



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