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## FORTITUDE V SERIES

### WHOLE HOUSE WATER FILTER

### OWNER'S MANUAL

FOR MODEL NO.

**AS-F110PS**

**AS-F110CB**

**AS-F110SCP**

**AS-F210PSCB**

**AS-F210SCP**

**AS-F120PS**

**AS-F120CB**

**AS-F120SCP**

**AS-F220PSCB**

**AS-F220SCP**





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You can also visit online for system installation tutorial.  
<http://www.aquasureusa.com/support>

# WELCOME

Thank you for choosing Aquasure. Before you start using your Aquasure Fortitude V Series Whole House Water Filter. Please take a few minute to become familiar with the basics.

## Filter replacement

Be Sure to change your Aquasure Filters according to the recommended filter replacement schedule. This help keep your Aquasure Whole House Water System running in top condition.

# INSPECTION & PREPARATION

## I. Be Familiar with the System Before Installation



**IMPORTANT!** Please read the entire manual and become familiar with instructions and parts needed before proceeding with the installation.

### Inspect the System

Please take the system and all the components out of the box. Inspect the system and all the connection fittings carefully, make sure nothing is damaged during shipping. If any part is cracked or broken, please do not proceed with the installation and contact Aquasure or your distributor for an exchange or diagnosis.

### Recommended Tool List for System Installation

- Variable Speed Drill
- Drill Bit
- Bolt Bit
- Adjustment Wrench
- Level Tool
- Teflon Tape
- Pen or Pencil

### Recommended Parts List for System Installation

- 1" Male Thread Adapter X 2
- 1" Shut Off Valve X 3

### System Components Breakdown

Single Housing System

Parts:

- Aquasure High Flow Housing X 1
- AP-FWRENCH Aquasure Fortitude V Series Housing Wrench X 1
- AP-F1BRACKET Aquasure Single Housing Mounting Bracket X 1
- AP-FTOOLS Aquasure Fortitude Series Tool Kit X 1

Dual Housing System

Parts:

- Aquasure High Flow Housing X 1
- Aquasure High Flow Clear Housing X 1
- AP-FWRENCH Aquasure Fortitude V Series Housing Wrench X 1
- AP-F1BRACKET Aquasure Dual Housing Mounting Bracket X 1
- AP-FTOOLS Aquasure Fortitude Series Tool Kit X 1

## SYSTEM FILTERS:

### AS-F120PS / AS-F110PS

- AF-PS30-4520 / AF-PS30-4510 - 30 Micron Pleated Sediment Filter X 1

### AS-120CB / AS-F110CB

- AF-CB5-4520 / AF-CB5-4510 - 5 Micron Carbon Block Water Filter X 1

### AS-120SCP / AS-F110SCP

- AF-SCP-4520 / AF-SCP4510 - Sediment and Carbon Dual Purpose Water Filter X 1

### AS-220PSCB / AS-210PSCB

- AF-PS30-4520 / AF-PS30-4510 - 30 Micron Pleated Sediment Filter X 1
- AF-CB5-4520 / AF-CB5-4510 - 5 Micron Carbon Block Water Filter X 1

### AS-220SCPKDF / AS-210SCPKDF

- AF-SCP-4520 / AF-SCP-4510 - Sediment and Carbon Dual Purpose Water Filter X 1
- AF-KDF-4520 / AF-KDF-4510 - GAC/KDF Bacteria Inhibiting Specialty X 1

## II. System Operation Parameter and Installation checklist



**IMPORTANT!** The following condition for feed water supply must be met or warranty will be void and manufacturer assumes no responsibility for damage to system or property.

### 1. Water Temperature Parameter

- Maximum: 100° F (37.8° C)
- Minimum: 40° F (4.4° C)

### 2. Water Pressure Parameter

- Maximum: 75 PSI (5.98 kg/cm<sup>2</sup>)
- Minimum: 20 PSI (1.41 kg/cm<sup>2</sup>)

### 3. pH Parameter

- Maximum: 10
- Minimum: 5

### 4. Pre-install environment checklist

- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- Filtration system must not be installed at an area where it is exposed to direct sunlight and must be protected against freezing and extreme heat.
- To prevent possible water damage, housing should be replaced every 4 years.

# INSTALLING THE SYSTEM



**IMPORTANT!** Locate and test the main water supply valve to the housing before installing the system. If the main water supply valve fails to shut off the water completely during the test, we recommend contacting your local plumber to fix the valve before begin installing the system.



**WARNING!** If this system is install in a metal (Conductive) plumbing system, i.c. copper or galvanized metal, the plastic components of the system will interrupt the continuity of the plumbing system. As a result, any arrant electricity from improperly grounded appliances downstream or potential galvanic activity in the plumbing system can no longer ground through contiguous metal plumbing. Some homes may have been built in accordance with building codes, which actually encouraged the grounding of electrical appliances through plumbing. A grounded “jumper wire” bridging the equipment and reestablishing the contiguous conductive nature of the plumbing system must be installed prior to your system use.

**Note:** although not required, but we highly recommend installing a bypass before the system install to help ensure there's no downtime for water usage during repairs or replacement of systems. See **Diagram A** for Bypass installation

Diagram A

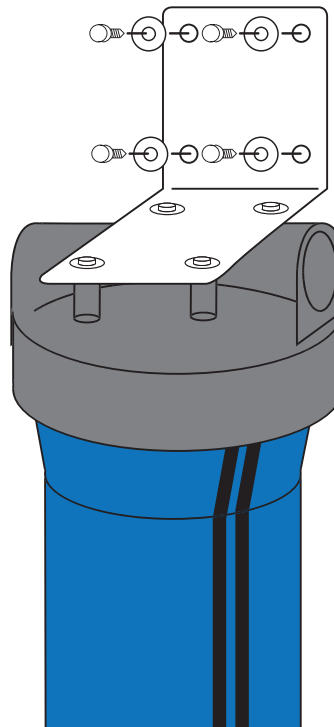


## STEP 1. Shutting off the Main Water Supply Valve

1. Locate the main water supply valve of the house and turn off completely by turning the shut-off handle clockwise.
2. Test to see if the water is completely shut off by turning on the faucet in the cold water position. If the cold water cannot be shut off, please contact your local plumber to fix the valve before begin installing the system.

## STEP 2. Mounting the System

1. Position the system on the wall at the desired mounting location with minimum of 6 in ground clearance from the floor to the base of the system.
2. Using a pen or pencil and mark the mounting hole on the back of the bracket onto the wall.  
**Note:** Please make sure the bracket mount is leveled using a leveling tool to ensure evenly distributed stress on the bracket. Make sure the mounting point is position on a stud to properly secure the bracket.
3. Mount the system onto the wall using the provided Lag Bolt and Washer.



### STEP 3. Attaching the Water Supply Pipe

1. Wrap the 1" male threaded fittings (Not Included) with 5 to 6 wraps of Teflon tape.
2. Attached the 1" male threaded fitting from the incoming supply plumbing to the **IN** port and **OUT** port of the system.

### STEP 4. Installing the Filter

1. Unwrapped the filter and place it inside the housing and make sure the housing is centering on the stand pipe.
2. Screw on the housing with the filter inside and screw onto the corresponding head by turning it counterclockwise using the supplied housing wrench.

**Note:** Make sure the o-ring is inside the housing and do not over tightening the housing.

### STEP 5. System Startup



**WARNING!** Immediately shut off the main water supply valve if there are leaks. Check the leak area and see if there's a loose connection or if more Teflon tape is needed to prevent leaks from happening.

1. Turn on the main water supply valve fully by turning it counterclockwise.
2. Check for leaks
3. Turn on the nearest faucet and let the water run for 10 minutes to release any trapped air bubble or carbon fine if a carbon filter is installed.

# CONGRATULATION!

Your system is ready to use. Please document the filter installation time and replace the filter in the suggested replacement time.



# SYSTEM MAINTENANCE

**Note:** Depending on usage and water quality, you might have to change your filters every 4 - 8 month or 6 - 12 months. It is recommend to change your Stage 1 filter at least every 4 - 6 month for areas with bad water quality.

## STEP 1. Shutting off the Supply Water

**Caution!** Before working on any system maintenance, prepare clean cloth or microfiber towel to wipe off excess water that might spill during the filter replacement or system maintenance.

1. Turn the main water supply valve completely off by rotating it clockwise.
2. Turn on the nearest faucet to release any excess water and pressure that is built up inside the pipe.

## STEP 2. Removing the Filter Housing

1. Press the red pressure relief button on the top of the housing cap to relief any pressure built up inside the system.
2. Using the housing wrench and turning it to the left to loosen
3. Discard the old filter and clean the inside of housing and cap with warm water.

**Caution!** Do not use any chemical to wash the housing.

## STEP 3. Install the New Filter

1. Unwrapped the filter and place it inside the housing and make sure the housing is centering on the stand pipe.
2. Check the o-ring for cracks or damage. Replace o-ring if it is damaged.
3. Screw on the housing with filter inside to the corresponding head by turning it from left to right using the supplied housing wrench.

**Note:** Make sure the o-ring is inside the housing and do not over tightening the housing.

## STEP 4. System Startup

1. Turn on the main water supply valve fully by turning it counterclockwise
2. Check for leaks
3. Turn on the nearest faucet and let the water run for 10 minutes to release any trapped air bubble or carbon fine if a carbon filter is installed.

# LIMITED PRODUCT WARRANTY

## **Scope:**

Aquasure takes pride in selling a superb line of products, including this whole house water filter ("Product"). As such, Aquasure expressly warrants to the original purchaser that, for a period of one (1) year from the date of purchase, the product will be reasonably free of defects in materials and workmanship. Within that one (1) year period from the original purchase, Aquasure will, at its option, repair or replace the Product without charge, or refund the cost of the product, if the Product fails or does not perform as warranted solely due to a manufacturing defect within the warranty period, subject to the limitations and exclusions set forth in this Limited Product Warranty. This Limited Product warranty only applies when the Product is used, stored, handled, fabricated and/or installed in the manner recommended by Aquasure in the Installation Instruction & Owner's Manual ("Manual").

## **Repair or Replacement:**

Repair or replacement during this one (1) year warranty shall include reasonable labor charges necessary to repair or replace the defective product, but shall not include freight charges or any other local labor charges from third parties other than Aquasure, unless Aquasure expressly approves such charges in writing. During the entire one (1) year warranty, Aquasure obligation to repair or replace shall further be limited to repair or replacement with the styles, models, products, colors, etc. of the Product that are available at the time of the repair or replacement, and shall be limited to the repair or replacement of only the specific Product that fails due to a manufacturing defect. Any repaired or replaced product shall also remain subject to the original one (1) year warranty from the date of the original purchase, and any repair or replacement shall not extend the original warranty period in any manner or start a new warranty period.

## **Conditions of Validity of this Limited Product Warranty:**

Even though the Product has extremely high endurance for operating conditions such as pH, maximum TDS, temperature, and optimum water pressure, THIS LIMITED PRODUCT WARRANTY SHALL ONLY BE VALID IF: The replaceable filters are changed and maintained on a regular basis as directed in the Manual. Moreover, depending on local water input water quality, regular maintenance may need to be increased.

## **Non-Covered Defects:**

THIS LIMITED PRODUCT WARRANTY DOES NOT COVER DEFECTS CAUSED BY:

1. Improper storage, installation, maintenance, handling, use and/or alterations of the Product, including, but not limited to, noncompliance with the installation, maintenance and standard operation conditions stated in the Manual and this Limited Product Warranty.
2. Unreasonable use, unintended use, or misuse of the Product for something other than its intended purpose as a whole house water filter.
3. Use of replacement parts, filters or other accessories that are not sold or manufactured by Aquasure for use with this particular Product.
4. Damage not resulting from manufacturing defects that occur while the Product is in the original purchaser's possession.
5. Installation of the Product with known or visible manufacturing defects at the time of installation.
6. Damage caused by freezing, flood, fire or Act of God.

### **Condition that render this limited product warranty void**

THIS LIMITED PRODUCT WARRANTY SHALL BE VOID IF:

1. The Product is not operated in compliance with normal municipal water conditions for which the particular model of this Product is intended.
2. The person seeking to invoke the warranty is not the original purchaser. That is, this Limited Product Warranty only extends to original purchasers.
3. The product is purchased used. That is, this Limited Product Warranty only covers new products.
4. The Product is purchased from someone other than Aquasure or one of Aquasure's authorized dealers. This is because, unless the Product was sold by Aquasure or one of its authorized dealers, Aquasure cannot verify or guarantee the integrity or authenticity of the Product.

### **General Conditions**

The warranties set forth herein are the only warranties made by Aquasure in connection with the product. Aquasure cannot and does not make any implied or express warranties with respect to the product, and disclaims all other warranties, including, but not limited to, any warranty of merchantability or fitness for a particular purpose. Products sold by Aquasure are sold only to the specifications specifically set forth by Aquasure in writing. Other than the limited product warranty set forth herein, Aquasure makes no other warranties, express or implied. Aquasure's sole obligation under this warranty shall be repair or replacement of a non-conforming product or parts of the product, or at the option of Aquasure, return of the product and a refund of the purchase price. Buyer assumes all risk whatsoever as to the result of the use of the product purchased, whether used singularly or in combination with any other products or substances.

No claim by the buyer/owner of any kind, including claims for indemnification, shall be greater in amount than the purchase price of the products in respect to which damages are claimed. In no event shall Aquasure be liable to buyer/owner in tort, contract or otherwise, for any special, indirect, incidental, consequential, reliance, statutory, special, punitive or exemplary damages, including, but not limited to, lost profits, loss of use, loss of time, inconvenience, damage to goodwill or reputation, or loss of data, even if advised of the possibility of such damages or such damages could have been reasonably foreseen, in connection with, arising out of, or as a result of, the sale, delivery, servicing, use or loss of use of the products sold hereunder, or for any liability of buyer to any third party with respect thereto.

### **Obtaining Warranty Coverage or General Inquiries**

If coverage is available, you may obtain coverage under this Limited Product Warranty by providing Aquasure with proof of original purchase, and that you are the original purchaser. For service under this Limited Product Warranty, you must notify Aquasure by phone at 1-800-661-0680, by email at support@aquasureusa.com, or in writing at 12403 Central Ave., Chino, CA 91710-2604. In making the claim, please provide your name, address, phone number, a description of the product involved, and an explanation of the defect.

