aquasana



EQ-300, EQ-600, and EQ-1000

Whole House Water Filter **Rhino®**

CITY WATER

Owner's Manual



Meet clean, healthy water. Your new Aquasana® whole house Rhino® system was expertly engineered to reduce contaminants, including 97% of chlorine, from the water throughout your entire home.

Enjoy the peace of mind that comes from knowing our award-winning water filter technology is working for you.

EQ-300, EQ-600, and EQ-1000

Whole House Water Filter
Rhino®

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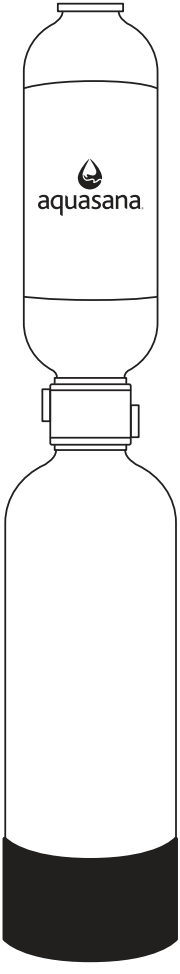
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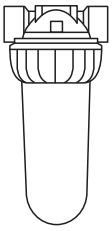
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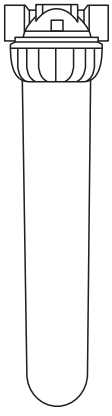
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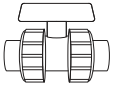
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20" Pre-filter
EQ-1000 and Pro-Kit only)



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(Not included with Pro-Kit)



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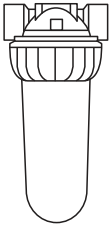


Pre-Filter Support Bracket



Wrench

OPTIONAL UPGRADE
Professional Grade Install Kit



10" Post-Filter



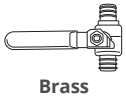
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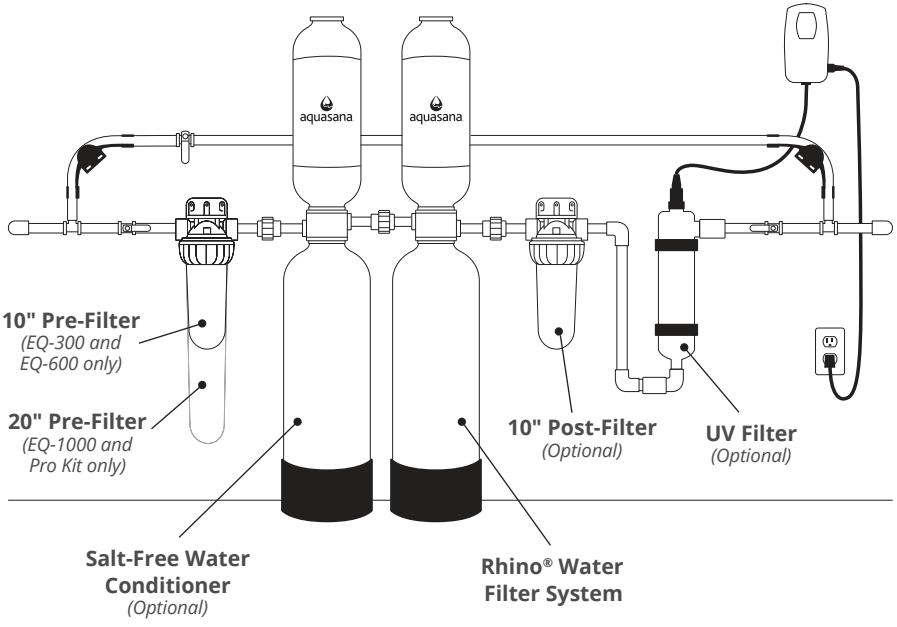
Not NSF Certified

Parts and pieces included with your system will vary depending on your specific order. Please call Customer Service with any questions or concerns **866-662-6885.**

Tools recommended for installation:

- Drill
- Wrench
- Channel locks
- PVC pipe cutter
- NSF approved PVC primer and glue
- NSF certified plumber's tape
- Copper wire & grounding clamps *(if copper pipes are present)*

If you have added components to your Rhino® Water Filter System, note the correct sequencing below.
(Installation shown below includes Professional Grade Install Kit)



Before installing

- **Lay out system in appropriate configuration. Improper sequence of equipment will affect performance, and could possibly damage your system.**
- **For all installations:** Anticipate the need for additional parts and pieces including but not limited to pex tubing, clamps and mounting screws to install unit properly (available at a local home improvement stores or through your plumbing contractor). Due to the varieties of home design, not all configurations can be addressed in this guide.
- **DO NOT** install this filter where the line pressure may exceed 100 psi. The operating pressure range for this filter is between 20psi – 100psi.
- Install on cold water lines only (40° – 90°F).
- Installation of the filtration system must comply with existing state and local plumbing codes. Aquasana and its manufacturer are not liable for consequential or incidental damages due to improper installation.
- **DO NOT** install the unit on its side. It must be installed upright to maximize contact with media bed.

Read all precautions and installation instructions carefully and completely before installing.

Precautions

- Properly tighten all fittings to ensure a leak-free assembly.
- NSF certified plumber's tape (thread sealing tape) is the only sealer that can be used on threaded fittings. **DO NOT** use pipe dope or PVC primer/glue on threaded fittings. Exposure to these compounds will damage nipples causing leaks.
- Pick an appropriate installation location. Dimensions of systems vary—always allow an estimated minimum of 50" clearance for height of tank, and a minimum of 30" for floor space.
- Unit must be installed in an area where the main water line enters your home, before connecting to the water heater. **DO NOT** install after a water heater or on the hot water line.
- It is recommended your system be installed indoors and out of direct sunlight. Prolonged exposure to light can weaken plastic components, resulting in filter housing failure. If this is not possible and the system is outdoors or in a sunny area, the unit must be protected from both direct sunlight and freezing temperatures.
- If installing on metallic plumbing, two grounding clamps and #4 copper wire are essential for safety.
- Some local codes may require the use of a licensed plumber or certified installer when disrupting a potable water line.
- In areas with high pressure, a pressure relief valve and a water hammer arrestor may be necessary.

Cleaning

The exterior of your filtration system can be cleaned with warm, soapy water. Rinse well with fresh, clean water.

A Pre-Filter is included with your system. Sediment levels vary from one location to another. It is recommended to replace your Pre-Filter every 2 months. If the flow rate has noticeably decreased, replace your filter cartridge sooner.

NOTE: Never use chemical cleaning products on the system's exterior surface as they may damage the housing.

Specifications

This filter system is designed and tested for use with genuine Aquasana parts including replacement filters and all hardware. Use of parts from other manufacturers may result in loss of contaminant reduction performance, system damage or failure. Use of parts from other manufacturers will also void your warranty. Please visit **aquasana.com** for replacement parts.

Model: EQ-300
Replacement tank: EQ-300R

Model: EQ-600
Replacement tank: EQ-600R

Model: EQ-1000
Replacement tank: EQ-1000R

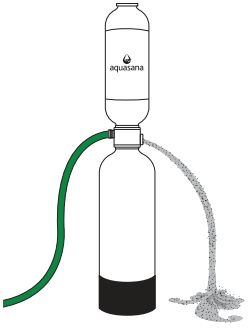
Additional Replacements:

20" Pre-Filter: EQ-304-20
10" Pre Filter: EQ-304
10" Post-Filter: EQ-PFC.35
UV Lamp: AQ-UV-L330C
Salt-Free Conditioner: EQ-AST-WH-R

1 Pre-Condition Rhino Tank

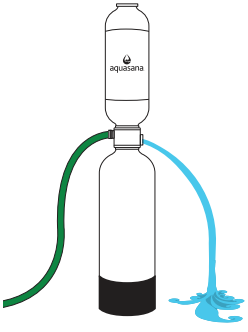
NOTE: It's imperative that this system is flushed properly prior to final installation. The granular carbon used in the bottom tank contains 1-2% by volume of carbon fines that must be flushed out prior to use. Surge flushing is the best method for purging these carbon fines from the media bed.

1. Once out of the box, keep the tank upright at all times as to not apply pressure to divider. Remove shipping caps from inlet and outlet ports. Using supplied adapter, connect a garden hose to the inlet port so the water will flow into the system and out of the outlet port.



2. Slowly turn faucet on and allow discolored water to flow from outlet into a suitable drainage area. The first few gallons will appear black and cloudy due to carbon fines.

   TIP: You may need to slightly shake the tank to help remove carbon fines.



3. After an initial 15-minute flushing, begin a period of "surge flushing" by turning water supply on for 30 seconds and then off for 30 seconds, repeating cycle for 15 minutes or until initial surge of water is completely clear and free from discoloration and cloudiness.

4. Disconnect the system from the garden hose, be sure the white washers are properly set inside the inlet and outlet ports, and position the system for installation.

2 Select Location

1. Pick an appropriate installation location. Unit must be installed in an area where the main water line enters your home, before connecting to the water heater.

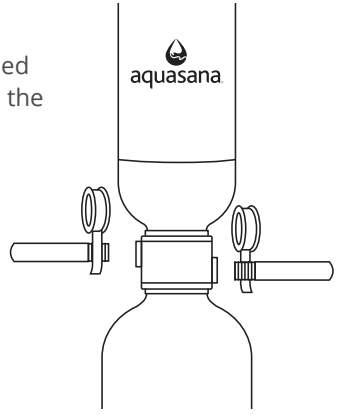
2. Turn off the main water source prior to installation. Drain water from lines to relieve pressure by turning on a faucet inside your home.

NOTE: DO NOT install after the water heater or on the hot water line. Components and installation will vary.

3 Prepare Rhino Tank

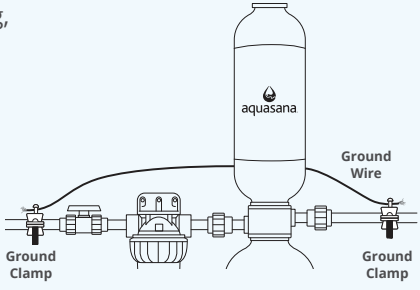
Wrap your pipe nipples with NSF certified plumber's tape. Connect the nipples to the system's inlet and outlet.

NOTE: DO NOT use pipe solvent (dope), as solvents in some types of pipe dope may cause damage to plastic fittings. Do not over-tighten to prevent damage to filter head.



4 COPPER PIPES ONLY *(proceed to Step 5 for PVC Pipes)*

When installing on metallic plumbing, ensure you take the following precautions. Securely install two (2) grounding clamps and a #4 copper wire (not included) across the location where the system will be installed. Tightly clamp at both ends, as shown in the illustration.



⚠WARNING

ELECTRICAL SHOCK HAZARD
Prior to installation on metallic plumbing, securely install two grounding clamps and a #4 copper wire per installation instructions. Failure to follow these instructions can result in death or electric shock.

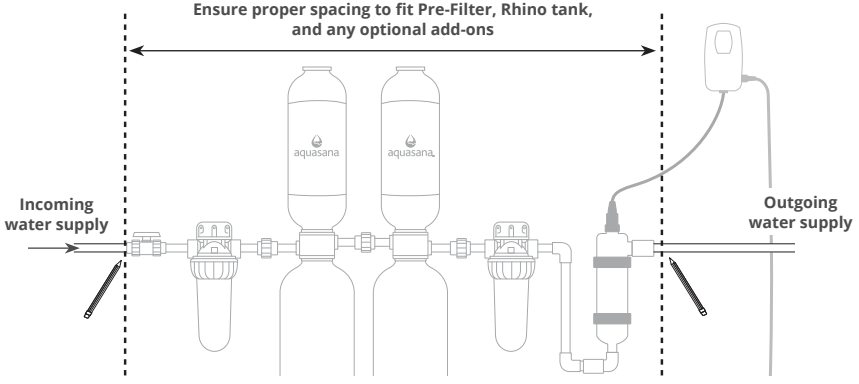
5 Install Shut-off Valve and Ensure Spacing *(Cont. on next page)*

1. Using a pipe cutter, cut into the main water supply line to install the shut-off valve.
2. Loosely fit shut-off valve to calculate proper spacing of components.
3. Measure distance for Pre-Filter, Rhino tank, and optional add-ons (Salt-Free Conditioner, Post-Filter, and UV) and mark pipe accordingly.

If you're installing additional add-ons make sure to read through those separate installation manuals prior to fully installing your complete system.

5 Install Shut-off Valve and Ensure Spacing *(Cont. from previous page)*

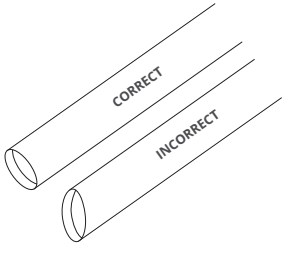
NOTE: DO NOT cut more pipe than necessary. You can cut more pipe later if needed. If you're also installing a Pro-Install Kit or bypass loop, do so at this time.



6 Cut Pipes

Cut pipe along the marked sections from step 5 and clean ends of pipe. Ensure there are no burrs, sharp edges or deep scratches.

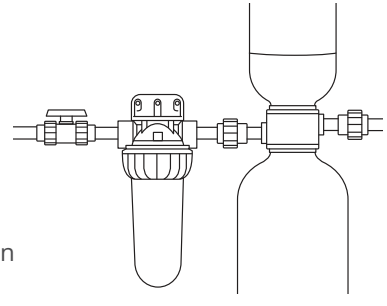
NOTE: Cut tubing as straight as possible with a utility knife, or an appropriate pipe cutter for copper tubing or PVC.



7 Configure System

Fit Rhino tank and additional optional add-ons into the system at this time. Screw Pre-Filter support bracket onto the wall and attach Pre-Filter.

Properly connect system together accordingly (slip fittings, barbed fittings, NSF certified PVC glue, etc.). Ensure all parts are flowing through the "IN" port in the correct direction of water flow.



8 Final System Check

Once installation is complete, allow proper time for glue to dry according to manufacturer instructions. Then, slowly turn water on and inspect for leaks.

After inspecting for leaks, turn on the faucet closest to the installed unit and allow water to run for 5-10 minutes for the final flushing period.

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Performance Data Sheet for the EQ-300 Aquasana Whole House Rhino® Water Filter System

Models	Replacement	Max Operating pressure	Rated capacity	Operating temp. range	Rated flow
EQ-300 / EQ-301	EQ-300R	100 psi	300,000 gallons	40-90° F	7.0 gpm

Manufactured by: Aquasana, Inc. 6310 Midway Road · Haltom City, Texas 76117 · 866-662-6885

Testing Performed under NSF/ANSI Standards 42 for reduction of the substances listed below. The concentration of the indicated substances in water entering the system was reduced to a concentration less than or equal to the permissible limit for water leaving the system, as specified in NSF/ANSI 42.

NSF/ANSI 42	Influent Challenge Chlorine	Pressure drop	Minimum reduction	Overall % reduction	Results
Chlorine Reduction, Free Available	2 mg/L ±10%	10.5 psi	≥50%	>97.1 %	Pass

Data Summary Table

Sample Point	Accumulated Volume (gal)	Dynamic Pressure (psi)	Chlorine, Free Available (mg/L)		Flow Rate (gpm)
	Effluent 1	Influent	Influent	Effluent 1	Effluent 1
Startup	150	62	1.9	ND (0.05)	7.2
10%	30,000	62	2.1	0.07	7.1
20%	60,000	62	2.0	ND (0.05)	7.1
30%	90,000	62	1.9	ND (0.05)	7.1
40%	120,000	62	2.1	ND (0.05)	7.2
50%	150,000	62	2.0	ND (0.05)	7.1
60%	180,000	61	1.8	ND (0.05)	7.0
70%	210,000	62	2.1	ND (0.05)	7.1
80%	240,000	61	2.0	ND (0.05)	7.1
90%	270,000	60	2.0	ND (0.05)	7.1
100%	300,000	61	2.1	0.11	7.0

NSF

System Tested and Certified by NSF International against NSF/ANSI Standard 42 for the reduction of Chlorine Taste and Odor.

For use with municipally treated water only. Do not use with water that is microbiologically unsafe or of unknown water quality without adequate disinfection before or after the system.

- All contaminants reduced by this filter are listed.
- Not all contaminants listed may be present in your water.
- Does not remove all contaminants that may be present in tap water.

Filter is only to be used with cold water.

Filter usage must comply with all state and local laws.

Testing was performed under standard laboratory conditions, actual performance may vary.

Systems certified for cyst reduction may be used on disinfected waters that may contain filterable cysts.

See owner's manual for general installation conditions and needs plus manufacturer's limited warranty.

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Performance Data Sheet for the EQ-600 Aquasana Whole House Rhino® Water Filter System					
Models	**Replacement**	**Max Operating pressure**	**Rated capacity**	**Operating temp. range**	**Rated flow**
EQ-600	EQ-600R	100 psi	600,000 gallons	40-90° F	7.0 gpm
Manufactured by: Aquasana, Inc. 6310 Midway Road · Haltom City, Texas 76117 · 866-662-6885					

Testing Performed under NSF/ANSI Standards 42 for reduction of the substances listed below. The concentration of the indicated substances in water entering the system was reduced to a concentration less than or equal to the permissible limit for water leaving the system, as specified in NSF/ANSI 42.

NSF/ANSI 42	Influent Challenge Chlorine	Minimum reduction	Overall % reduction	Results
Chlorine Reduction, Free Available	2 mg/L ±10%	≥50%	>96.9 %	Pass

Data Summary Table

Sample Point	Accumulated Volume (gal)	Dynamic Pressure (psi)	Chlorine, Free Available (mg/L)		Flow Rate (gpm)
	Effluent 1	Influent	Influent	Effluent 1	Effluent 1
Startup	150	61	2.2 ND (0.05)	ND (0.05)	7.1
10%	60,000	61	2.2 ND (0.05)	ND (0.05)	7.0
20%	120,000	60	1.9 ND (0.05)	ND (0.05)	7.0
30%	180,000	60	2.2 ND (0.05)	ND (0.05)	7.0
40%	240,000	60	2.1 ND (0.05)	ND (0.05)	7.0
50%	300,000	60	2.1 0.05	0.05	7.0
60%	360,000	61	2.1 ND (0.05)	NtD (0.05)	7.1
70%	420,000	60	2.2 0.09	0.09	7.1
80%	480,000	61	1.9 ND (0.05)	ND (0.05)	7.1
90%	540,000	61	2.0 ND (0.05)	ND (0.05)	6.9
100%	600,000	61	2.0 0.18	0.18	7.1

NSF

System Teste d and Certified by NSF International against NSF/ANSI Standard 42 for the reduction of Chlorine Taste and Odor.

For use with municipally treated water only. Do not use with water that is microbiologically unsafe or of unknown water quality without adequate disinfection before or after the system.

- All contaminants reduced by this filter are listed.
- Not all contaminants listed may be present in your water.
- Does not remove all contaminants that may be present in tap water.

Filter is only to be used with cold water.

Filter usage must comply with all state and local laws.

Testing was performed under standard laboratory conditions, actual performance may vary.

Systems certified for cyst reduction may be used on disinfected waters that may contain filterable cysts.

See owner's manual for general installation conditions and needs plus manufacturer's limited warranty.

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Performance Data Sheet for the EQ-1000 Aquasana Whole House Rhino® Water Filter System

Models	Replacement	Max Operating pressure	Rated capacity	Operating temp. range	Rated flow
EQ-1000	EQ-1000R	100 psi	1,000,000 gallons	40-90° F	7.0 gpm

Manufactured by: Aquasana, Inc. 6310 Midway Road · Haltom City, Texas 76117 · 866-662-6885

This system has been independently tested according to NSF/ANSI 42 for reduction of the substances listed below. The concentration of the indicated substances in water entering the system was reduced to a concentration less than or equal to the permissible limit for water leaving the system, as specified in NSF/ANSI 42.

NSF/ANSI 42	Influent Challenge Chlorine	Pressure drop	Minimum reduction	Overall % reduction	Results
Chlorine Reduction, Free Available	2.02 mg/L ±10%	10.5 psi	≥50%	>97.4 %	Pass

Data Summary Table

Sample Point	Accumulated Volume (gal)	Dynamic Pressure (psi)	Chlorine, Free Available (mg/L)		% Reduction of this sample
			Influent	Effluent 1	
Startup	10	60	2.04	ND (<0.01)	99.51%
6%	60,000	60	2.09	ND (<0.01)	99.52%
12%	120,000	60	2.09	ND (<0.01)	99.52%
18%	180,000	60	2.07	ND (<0.01)	99.52%
24%	240,000	60	1.93	ND (<0.01)	99.52%
30%	300,000	60	1.91	ND (<0.01)	99.52%
36%	360,000	60	2.02	ND (<0.01)	99.48%
42%	420,000	60	1.82	ND (<0.01)	99.45%
48%	480,000	60	1.89	ND (<0.01)	99.47%
50%	500,000	60	2.00	ND (0.02)	99.00%
54%	540,000	60	1.95	0.09	97.73%
60%	600,000	60	2.07	0.05	97.58%
66%	660,000	60	1.84	0.08	95.65%
72%	720,000	60	1.84	0.08	99.54%
78%	780,000	60	1.93	0.06	96.89%
84%	840,000	60	2.19	ND (<0.02)	98.62%
90%	900,000	60	2.08	0.06	97.12%
96%	960,000	60	2.11	0.15	91.94%
100%	1,000,000	60	2.09	0.15	92.82%

Independent testing was performed under standard laboratory conditions, actual performance may vary. All data reported is associated with quality control that met method, EPA, NSF/ANSI or internal laboratory specification.

For use with municipally treated water only. Do not use with water that is microbiologically unsafe or of unknown water quality without adequate disinfection before or after the system.

- All contaminants reduced by this filter are listed.
- Not all contaminants listed may be present in your water.
- Does not remove all contaminants that may be present in tap water.

Filter is only to be used with cold water.

Filter usage must comply with all state and local laws.

Testing was performed under standard laboratory conditions, actual performance may vary.

Systems certified for cyst reduction may be used on disinfected waters that may contain filterable cysts.

See owner's manual for general installation conditions and needs plus manufacturer's limited warranty.

RHINO® WATER FILTER LIMITED WARRANTY

Who is covered

AQUASANA AND ITS SUPPLIERS, (herein collectively referred to as “Manufacturer”) warrants to the owner of the home where the water filter is initially installed (hereinafter “Owner”). The warranty is restricted to the water filter used in a single-family residence in the United States of America and is void if moved from the original installation location.

What is covered

This Warranty covers defects in materials or workmanship during the limited warranty period of your of your Aquasana Rhino Whole House Filtration System including sub-components purchased with original system (may or may not include pre-filter, post-filter, and fittings), except as provided below. The water filter is warranted only when it is installed, operated and maintained in accordance with the instructions accompanying the water filter found on Aquasana.com. A water filter should be installed in such a manner that, if the tank or any connection thereto should leak, the resulting flow of water will not cause damage to the area in which it is installed. For detailed instructions read the manual accompanying the water filter and review drawings in the manual.

For how long

This warranty runs for months specified in chart below from the date of purchase by a consumer (herinafter "Warranty Period"). No warranty coverage will be provided if the claimant is unable to provide proof of purchase. Water conditions and use rates may limit the functional lifespan of your filter. This Limited Warranty does not extend to the full estimated life span of the filter.

What Aquasana will do

1. If necessary, the Manufacturer will provide a replacement that fulfills the remaining estimated lifespan/capacity (see chart) of your original purchase and send it to you with installation instructions. If industry standards, product improvements or product obsolescence prohibit Manufacturer from furnishing an identical model replacement water filter under this warranty, the Owner will be furnished with a new water filter of comparable remaining capacity and functionality; however, the Owner will be charged for the additional value of the item(s) which Manufacturer has incorporated in the replacement water filter.

RHINO SYSTEM WARRANTY COVERAGE	
Model	**Lifespan/Capacity**
EQ-300	3 Years / 300,000 Gallons
EQ-600	6 Years / 600,000 Gallons
EQ-1000	10 Years / 1,000,000 Gallons
Installation Kit *(includes pre-filter, post-filter, and fittings purchased with original system)*	1 Year

This warranty does not include the UV FIlter. See full warranty information for the UV Filter in the original UV manual.

2. Component Part – If any component part proves to Manufacturer's satisfaction to be defective in material or workmanship within the warranty period listed on the data plate label, the Manufacturer will furnish the Owner with a replacement for the defective part(s).

3. Return of Defective Water Filter and Component Parts – Manufacturer reserves the right to examine the alleged defect in the water filter or component part(s), and it will be the Owner's obligation to return the water filter and/or component part(s) to the Manufacturer at the Manufacturers request.

   a. When returning a water filter, it must include all component parts.

   b. When returning component part(s), they must be individually tagged and identified with the water filter's model number, date of purchase, and date of installation.

What is not covered

1. This warranty does not cover filter cartridges and any systems that were not installed in compliance with the instructions or that have been abused or operated incorrectly.

2. The Limited Warranty stated herein is in lieu of any and all warranties, express or implied (whether written or oral), including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose.

3. Manufacturer shall not be liable for any incidental, consequential, special, or contingent damages or expenses, arising, directly or indirectly, from any defect in the water filter or the use of the water filter.

4. Manufacturer shall not be liable for any water damage arising, directly or indirectly, from any defect in the water filter or component part(s) or from its use.

5. Manufacturer shall not be liable for any damage or product failures caused by any of the following:

   - The water filter or any of its component parts have been subject to misuse, alteration, neglect or accident.
   - The water filter has not been installed in accordance with the applicable local plumbing and/or building code(s) and/or regulations or in their absence.
   - The water filter is not installed, operated and maintained in accordance with the printed Manufacturer's instructions, including if the water filter has any additional aftermarket equipment introduced into the sealed system not approved by the manufacturer.
   - The water filter is exposed to highly corrosive conditions.
   - The water filter is not continuously supplied with potable water.
   - The water filter is not operated within the factory calibrated temperature limits.
   - The water filter is removed from its original installation location.
   - The water filter is installed in direct sunlight or exposed to freezing temperatures.
   - The water filter or any of its component parts fail due to iron or sediment build-up.

- Clogging due to purchaser's failure to replace the Pre-Filter cartridge.
- Damage caused by fire, flood or acts of God.
- Damage caused by over-pressurization in the water line.

6. This warranty does not cover damage caused by the use of parts that are not genuine Aquasana parts. This includes, but is not limited to replacement filters, faucets, and/or diverter valves.

7. Except when specifically prohibited by the applicable state law, the Owner, and not the Manufacturer, shall be liable for and shall pay for all charges for labor or other expenses incurred in the removal, repair or replacement of the water filter or any component part(s) claimed to be defective or any expense incurred to remedy any defect in the product. Such charges may include, but are not necessarily limited to:

   a. All freight, shipping, handling and delivery costs of forwarding a new water filter or replacement part(s) to the owner.

   b. All costs necessary or incidental in removing the defective water filter or component part(s) and installing a new water filter or component part(s).

   c. Any material required to complete, and/or permits required for, installation of a new water filter or replacement part(s), and

   d. All costs necessary or incidental in returning the water filter or component part(s) to a location designated by the manufacturer.

How to get service

To receive service under this Warranty, you must contact Aquasana (A. O. Smith Water Treatment (North America), Inc.) at 1-866-662-6885 or warranty@aquasana.com within the Warranty Period to describe the problem to a customer service representative who will verify that the product is under warranty and determine whether a part or the system will be replaced and whether you must send back the unit. You will be required to provide proof of purchase and proof of proper installation.

water for life®

Replace your filters on time, without worry — auto-delivered to you, for less.

It's important to change your filters using genuine Aquasana replacements for continued water filtration and optimum system performance. This is why we offer our no contract, auto-ship filter replacement program called Water for Life®.



Free Shipping

Replacements shipped directly to you, right when you need them, at no extra cost.



Discount Replacements

Lock in a 15% discount on filters to ensure you always get the best price.



Extended Warranty

Our performance promise to you – free replacement parts, just in case.



No Contract

Replacing your filters is serious – but your commitment doesn't have to be.

CONTACT US TO LEARN MORE



866-662-6885



waterforlife@aquasana.com

aquasana

LOVE IT?

Please let us know with a review on Aquasana or your retailer's website.



NEED HELP?

Give us a call at 866-662-6885 and tell us what's going on.

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866.662.6885 USA
877.332.7873 Canada
www.aquasana.com

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