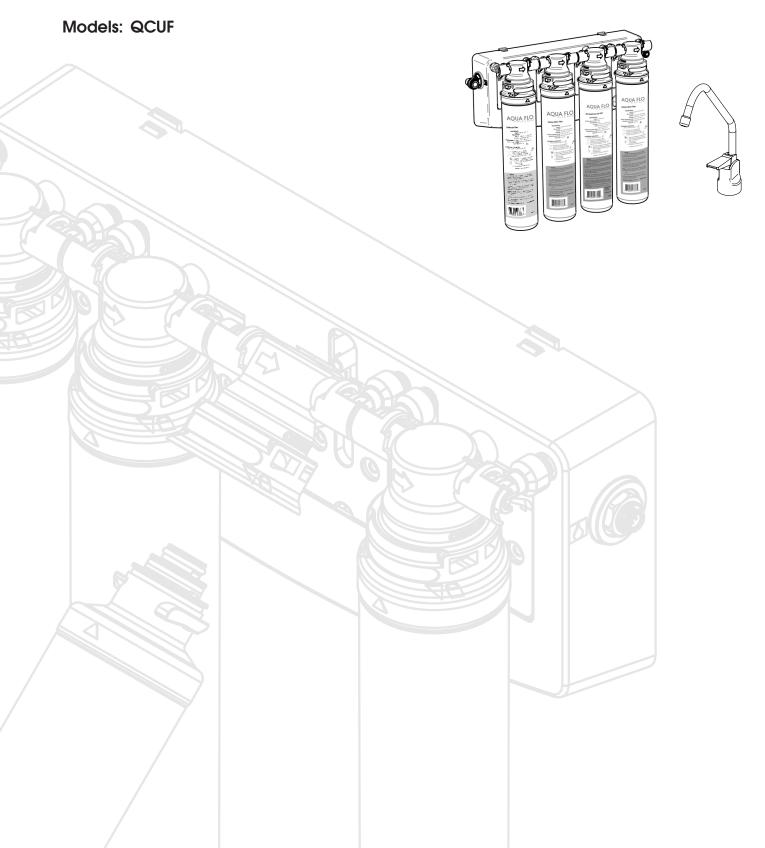


Installation, Operation & Service Instructions with Part List Quick Change Ultrafiltration Drinking Water System



Attention Aqua Flo Platinum® Customer:

This system is intended for use on potable water supplies or disinfected water containing cysts. Do not use where water is microbiologically unsafe or with water of unknown quality. If bacterial contamination is present, a recognized method of water disinfection is required.

Check with your public works department for applicable local plumbing and sanitation codes. Follow your local codes if they differ from the standards used in this manual.

The Aqua Flo Platinum® Quick Change Drinking Water System contains a replaceable ultrafiltration membrane filter which is critical for the effective reduction of Total Dissolved Solids. The filtered water should be tested periodically to verify that the system is performing properly.

Safe Practices

Throughout this manual there are paragraphs set off by special headings.

NOTE: Note is used to emphasize installation, operation or maintenance information which is important, but does not present any hazard. Example:

NOTE: The nipple must extend no more than 1 inch above the cover plate.

Caution!: Caution is used when failure to follow directions could result in damage to equipment or property. Example:



CAUTION! Disassembly while under water pressure can result in flooding.

WARNING!: Warning is used to indicate a hazard which could cause injury or death if ignored. Example:

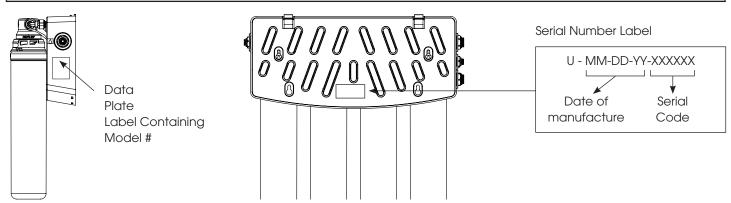


WARNING! Electrical shock hazard! Unplug the unit before removing the timer mechanism or cover plates!

Serial Number

The serial number is located on the rear of the UF manifold housing. Record this number on the warranty page located at the end of this manual.

NOTE: Do not remove or destroy the serial number. It must be referenced on requests for warranty repair or replacement.



This publication is based on information available when approved for printing. Continuing design refinement could cause changes that may not be included in this publication.



WARNING! If incorrectly installed, operated or maintained, this product can cause severe injury. Those who install, operate, or maintain this product should be trained in its proper use, warned of its dangers, and should read the entire manual before attempting to install, operate or maintain this product.

Installation, Operation & Service Instructions with Part List

Quick Change Ultrafiltration Drinking Water System

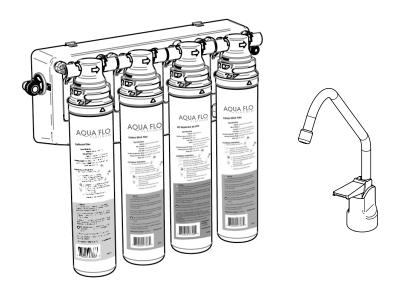


Table of Contents	Page
Specifications and Performance Data Sheet	
Suggested Installation Equipment	5
Overview of the Aqua Flo Platinum® Quick Change UF System's Components	6
Package Contents	
Preparation	8
Installation	
Step 1 Select Component Installation Locations	
Step 2 Faucet Installation	
Step 3 Install Adapter Valve on Water Supply	
Step 4 Install Filter System Assembly	
Step 5 Start Up	
Service and Maintenance	16
Parts Breakdown	
Troubleshooting	19
Warranty Information	

Specifications and Performance Data Sheet

Model #	Part #	Stage 1	Stage 2	Stage 3	Stage 4	Faucet
QCUF	1340201-60	Sediment Filter	Sediment Filter	Ultrafiltration Membrane	Activated Carbon Filter	Chrome or Standard

Daily Production Rate L/day (G/day) . . . 2725.5 (720)

 Efficiency Rating.
 100%

 Recovery Rating
 100%

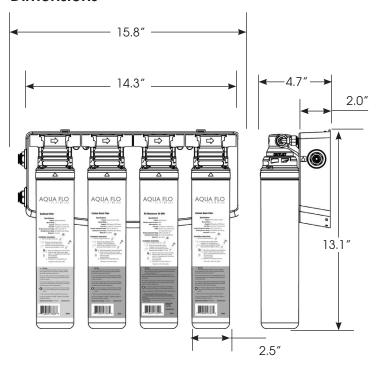
Typical System Flow Sequence Sediment Filter → Sediment Filter → Ultrafiltration Membrane →

Activated Carbon Postfilter → Dispensing Faucet

Ultrafiltration Membrane (Stage 3) 0.2 Micron Ultrafine Filtration

Polishing Filter (Stage 4) Granular Activated Carbon or Carbon Block

Dimensions



Recommended Influent Water Characteristic			
Pressure	40 - 100 psi		
Temperature	40 - 77 °F		
рН	5 - 10		
Chlorine ²	0 - 3 ppm (0 - 3 mg/L)		
Chloramine	0 - 3 ppm (0 - 3 mg/L)		
Turbidity	0 - 10 NTU		
Hardness ³	0 - 10 gpg		
Iron	0 - 1 ppm (0 - 1 mg/L)		
Bacterial Quality	Potable		

NOTES

- A softener is strongly recommended for water over 10 gpg hard. Installing a system without a softener on water with hardness higher than 10 gpg will reduce the life of the membrane.
- 2. Additional information on factors that affect UF performance can be found in the "Performance & Technical Information" section.

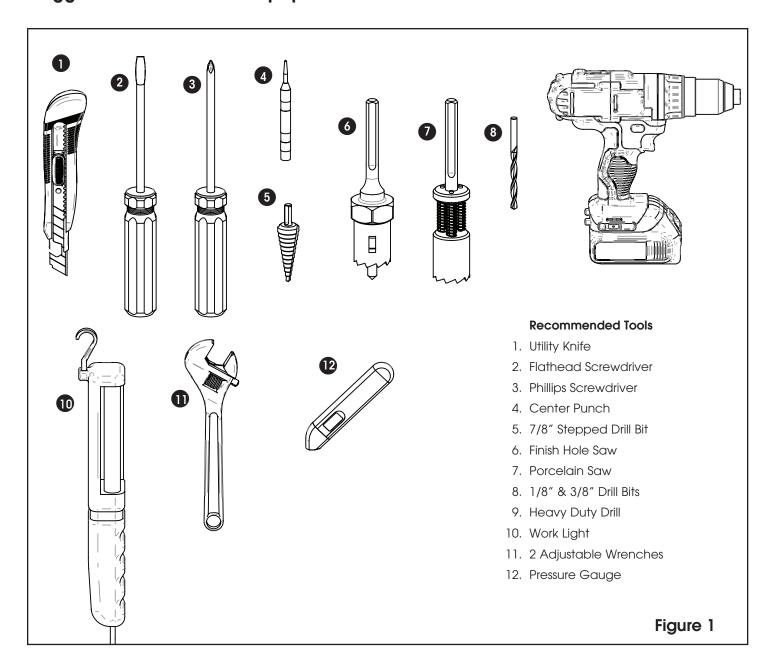
Table 1

Filter Cartridge Specifications

	Part #	Purpose	Micron Rating	Capacity	Flow Rate	Working Tempera- ture Range	Working Pressure Range	Rated Life*	STAGE
Sediment Filter	41407001	Sediment Reduction	5	2000 gallons (7570 liters)	0.5 gal/min (1.9 liters/ min)	4-38° C (40-100° F)	207-689 kPa (30-100 psi)	6 Months	1
Carbon Block Filter	41407002	Chlorine Taste and Odor	5	2000 gallons (7570 liters)	0.5 gal/min (1.9 liters/ min)	4-38° C (40-100° F)	207-689 kPa (30-100 psi)	6 Months	2 or 4
Carbon Block Filter - 50 Micron	41407006	Chlorine Taste and Odor	50	2000 gallons (7570 liters)	0.5 gal/min (1.9 liters/ min)	4-38° C (40-100° F)	207-689 kPa (30-100 psi)	6 Months	2
GAC Carbon Filter	41407004	Polishing - Taste and Odor	-	2000 gallons (7570 liters)	0.5 gal/min (1.9 liters/ min)	4-38° C (40-100° F)	207-689 kPa (30-100 psi)	6 to 12 Months	4
pH Booster Filter Cartridge	41407007	Raise pH of water and removal of chlorine, taste and odor	-	750 gallons (2835 liters)	0.5 gal/min (1.9 liters/ min)	4-38° C (40-100° F)	207-689 kPa (30-100 psi)	6 to 12 Months	4
UF (Hollow Fiber) Membrane	41407005	Ultra Fine Filtration	0.2	2000 gallons (7570 liters)	0.5 gal/min (1.9 liters/ min)	4-38° C (40-100° F)	207-689 kPa (30-100 psi)	12 Months	3
Carbon Block – 1 Mic Filter	41407009	Chlorine Taste and Odor, Particulate Reduction	1	750 gallons (2835 liters)	0.5 gal/min (1.9 liters/ min)	4-38° C (40-100° F)	207-689 kPa (30-100 psi)	6 to 12 Months	2 or 4
Scale Reduction	41407010	Scale Reduction	-	2000 gallons (7570 liters)	0.5 gal/min (1.9 liters/ min)	4-38° C (40-100° F)	207-689 kPa (30-100 psi)	6 Months	1 or 2

^{*} The performance and life of an ultrafiltration membrane or filter element is highly dependent upon pressure, temperature and water quality.

Suggested Installation Equipment



Overview of the Aqua Flo Platinum® Quick Change UF System's

Components

Manifold Assembly

The manifold assembly serves as the functional hub of the Aqua Flo Platinum® system by directing the flow through each of the system's main components.

2 Sediment Prefilters

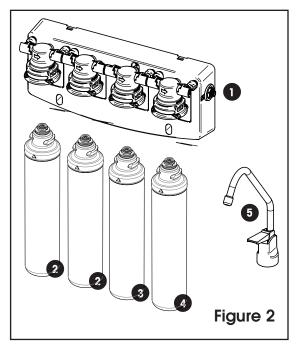
The sediment prefilters screen out particulate material, such as dirt, sand, or rust, which may clog the ultrafiltration membrane.

3 Ultrafiltration Membrane

The Ultrafiltration Membrane (3) mechanically removes microscopic impurities. It consists of a semipermeable membrane wound around a perforated tube. Product water diffuses through the membrane while impurities become trapped in the membrane.

The UF membrane featured in the Aqua Flo Platinum® system offers exceptional contaminant adsorption, application versatility, and long life.

The sediment prefilters must be maintained properly to prevent clogging and premature failure of the UF membrane.



4 Activated Carbon Polishing Filter

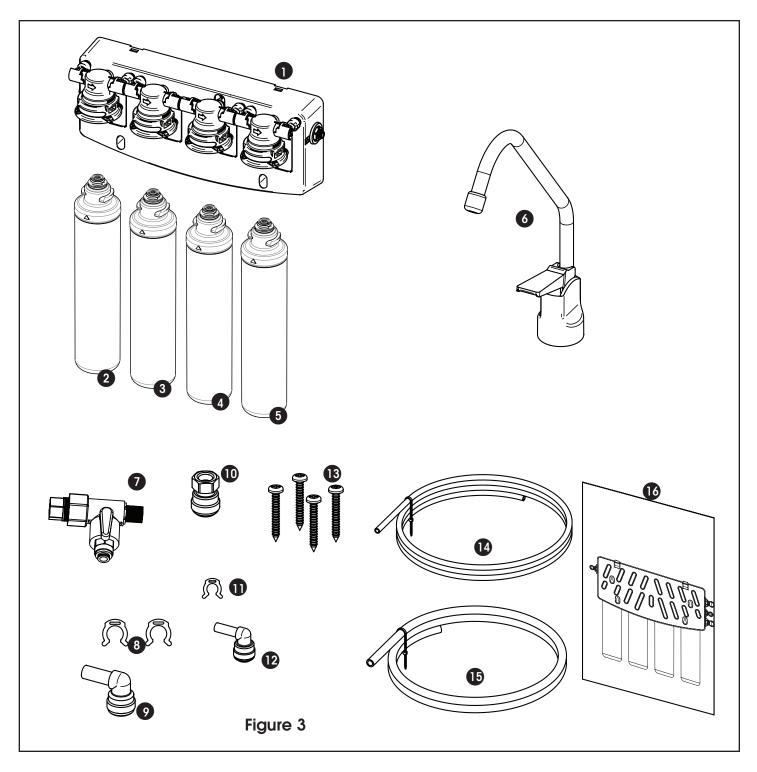
The activated carbon polishing filter (4) adsorbs any residual tastes and odors just before the water is delivered through the faucet.

Dispenser Faucet

The Aqua Flo Platinum® faucet (5) allows the product water to be drawn from the system with a simple rotation of the handle.

NOTE: Cleanliness is essential in the Preparation procedure. Be sure to wash your hands thoroughly before handling filters. The use of surgical gloves is strongly recommended.

Package Contents



- 1. UF Manifold with Flow Control
- 2. Sediment Filter
- 3. Sediment Filter
- 4. Ultrafilter Membrane
- 5. Carbon Block Filter
- 6. Faucet and Hardware

- 7. Inlet Valve 1/2 x1/2,1/4
- 8. Locking Clip (3/8")
- 9. 3/8" Elbow
- 10. Faucet Adapter
- 11. Locking Clip (1/4")
- 12. 1/4" Elbow

- 13. 4X #10 Phillips Self Tapping Screws
- 14. 1/4" Tubing (4 ft. White)
- 15. 3/8" Tubing (4 ft. Blue)
- 16. Installation Template Sheet 11X17

Product Information

This manual covers the technical aspects of Aqua Flo Platinum® Quick Change drinking water systems. It is important to read this manual thoroughly so that you can properly apply, install, and service these systems.

The substances reduced by this system are not necessarily in the customer's untreated water.

Warranty

A limited warranty is extended to the original end user from WaterGroup. This warranty is printed on the back cover of the Owner's Guide.

Application Guidelines

The Aqua Flo Platinum® system is designed for use on potable water supplies meeting the guidelines outlined in Table 1. The system should be installed on a home's cold water line. The flushing stream should discharge through an approved siphon break. Installation of this system must comply with state and local laws and regulations.

Package Content

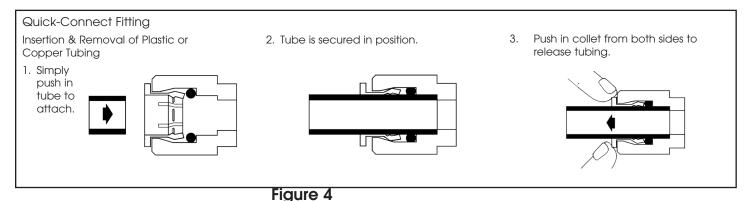
The Aqua Flo Platinum® system is shipped from the factory in carton:

NOTE: The filter elements are shipped in their own sealed packaging. This will help to simplify preparation of the system and to maximize the shelf life of the UF membrane element.

Preparation

Tubing Connectors

The Aqua Flo Platinum® system features reliable and convenient push-to-connect tubing connectors. Tubing is easily connected and disconnected from these fittings as follows.



Connect:

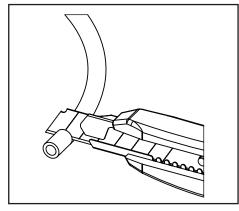
Cut the tubing squarely with a sharp knife. Be careful not to crush the tubing. To avoid leaks, make sure the tubing end is smooth and free of burrs and abrasions. Lubricate the end of the tube with water or a light coat of silicone and push the tube end firmly into the fitting. You should feel it push past the O-ring. Avoid bending the tubing sharply away from the fitting.

Disconnect:

Hold the collar against the fitting body and pull the tube from the fitting.

In the unlikely event that the connection leaks, remove and recut the tubing. Check the inside of the fitting for debris or O-ring damage. Reconnect.

Push-to-connect tubing connectors grip the outside diameter of the tube. To help assure a reliable connection, it is important to use high quality tubing with a consistent outside diameter.



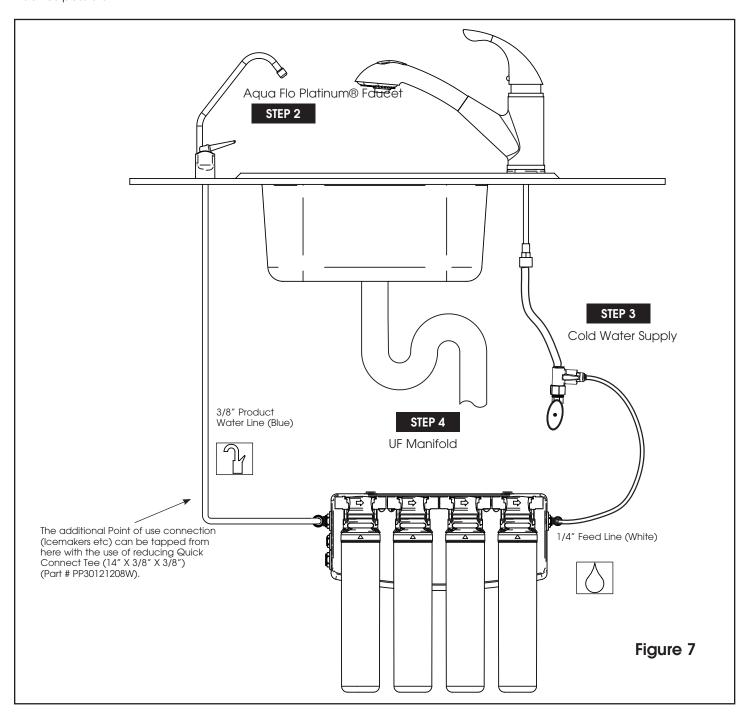
1. Cut tube squarely with a sharp knife.

Installation

The exact placement of the components will vary by installation. Although shown beneath a sink, it may be installed in a basement, crawl space, or in an adjacent cabinet. Regardless of where the system is installed, the flow sequence described by (figure 7) must be observed.

The Aqua Flo Platinum® drinking water system is designed to be mounted near a sink for easy access to cold water and drain lines. Lengths of 1/4-inch and 3/8-inch OD plastic tubing will be required to make this installation.

Evaluate the installation site to determine the easiest path for the plumbing to follow. Take care to make the installation as neat as possible.



The following steps will enable you to install the system quickly and orderly. Some variation may be necessary depending on the installation. See page 4 for a check list of tools and materials.

Typical installations follow this sequence:

- 1. Select Component Installation Locations
- 2. Faucet Installation
- 3. Install Adapter Valve on Water Supply
- 4. Install Filter System Assembly
- 5. Start-Up

Step 1 - Select Component Installation Locations

- **Dispenser Faucet** The faucet is designed to be mounted on the rear lip of the sink. It may be installed in an existing sprayer attachment hole or in a hole drilled at the time of installation. It may also be mounted to an adjacent counter top. It should be positioned so that water is dispensed over the sink. A 7/8" diameter hole is required.
- Important considerations:
 - Access to the bottom (undersink) of the faucet is required for attachment of product water line.
 - There should be no undersink obstructions which would prevent smooth tubing runs to the drain connection, or UF module assembly.
- **Filter System Assembly** The filter system assembly is designed to be mounted on any rigid vertical surface such as a cabinet sidewall, sheetrock in exposed stud. It should be positioned such that there is access to an inlet water source and drain. The installation should also allow convenient access for servicing.
- **Inlet Water Supply Connection** Once a location is chosen for installation of the filter system assembly, select a nearby cold water line to provide the water source for the system.

NOTE: Follow all local plumbing codes when connecting to service water.

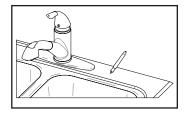
Step 2 - Faucet Installation

To simplify its access and installation, we suggest you install the faucet on the rear lip of the sink. It should be evenly positioned with the sink faucet and spray attachment. Should the spray faucet hole not be available for the installation, the sink must be drilled.

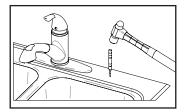
NOTE: It is recommended retaining the services of a professional counter top craft person when a hole is needed in granite or other specialty counter top materials.

Sink Drilling Instructions

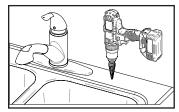
Stainless Steel Sink



1. Select and mark the proper faucet location.



Center punch hole to provide a starting point for your drill.



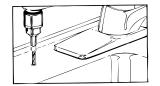
3. Drill a 7/8" hole in the sink using a stepped 7/8" drill bit. If no stepped bit is available, start by drilling a 1/4" hole. Using this hole as a starting point progressively drill larger holes. Increase drill size by 1/8" until you reach a 7/8" hole.

Porcelain Enamel Sink

Follow these basic guidelines when drilling a porcelain sink:

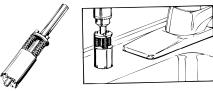
Pilot Drill





Penetrate the porcelain to the base material.

Spring Loaded Porcelain Saw



Protect the surrounding porcelain material.

Finish Hole Saw





One proven tool is the Relton porcelain cutter kit when used with a slow speed drill (300-400 rpm).

- Drill a pilot hole through the porcelain and base material with the carbide tip drill.
- Build a putty dam around the drill area. Add enough water to lubricate cutters and reduce cutting noise.
- Insert the porcelain cutter into the drill. Place the drill tip in the pilot hole. Check for free movement.
- Apply light pressure to the cutter tool and start the drill motor at low speed (300-400 rpm). When the initial cut has
 been made in the porcelain, speed may be increased. After a complete ring has been cut through the porcelain,
 change over to the metal cutter. Avoid contacting the outer rim of cut porcelain when drilling.

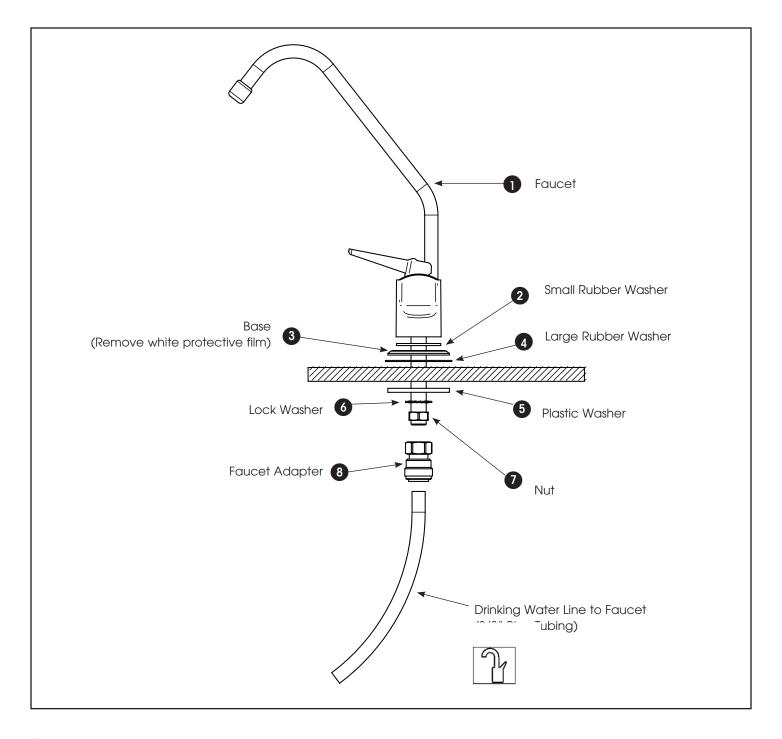


CAUTION! Avoid high drill speed during penetration of porcelain. A single speed drill can be used at a slow speed by switching it on and off quickly.

- Use a slow speed and light pressure to cut away the porcelain.
- Stop when you reach the metal under the porcelain. Remove the cutter and clean the porcelain chips from the surface. Continue cutting through the metal.

NOTE: Ceramic tile counters should be treated like porcelain when penetrating the surface, then treated as metal to complete the hole with carbide drills. Formica countertops can be drilled with a high-speed wood drill.

Standard Faucet



Standard Faucet Installation

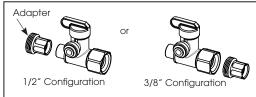
- 1. Remove white protective film from faucet base. Install faucet body, small rubber washer, metal base, and large rubber washer above sink (items 1-4).
- 2. Install plastic washer, lock washer and nut (items 5-7) onto faucet stem below sink and tighten. Be sure to properly align the faucet.
- 3. Install the faucet adapter (item 8). Connect the 3/8" blue tubing to the faucet adapter.

NOTE: Make certain that the tubing is all the way into the fitting; once inserted pull lightly to make sure it is locked in place.

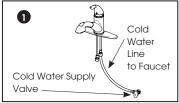
Step 3a - Install Adapter Valve on Water Supply (Part # ASVPP5LF)



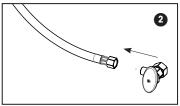
CAUTION! The Adapter valve should be connected to cold water supply only. Connection to hot water supply will damage the system and will void all warranty

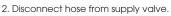


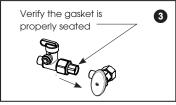
Before installing the adapter valve onto the supply line, install the adapter as needed. The conversion adapter can be threaded to either side of the valve to allow the valve to fit both 1/2" and 3/8" supply lines.



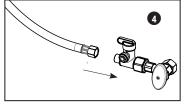
1. Shut off water at supply valve.



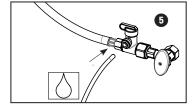




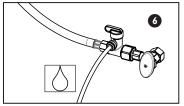
3. Install adapter valve on supply valve.



4. Connect riser hose to adapter valve.

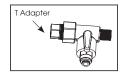


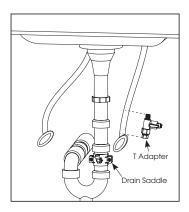
Insert tubing into quick connect fitting on valve.

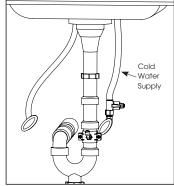


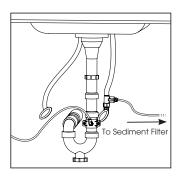
6. Open the cold water supply valve and check for leaks.

Step 3b - Install T Adapter Valve on Water Supply (Part # 60010643)



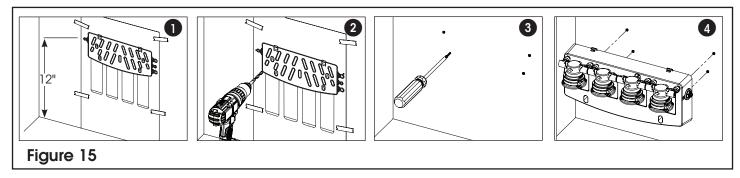






Step 4 - Install Filter System Assembly

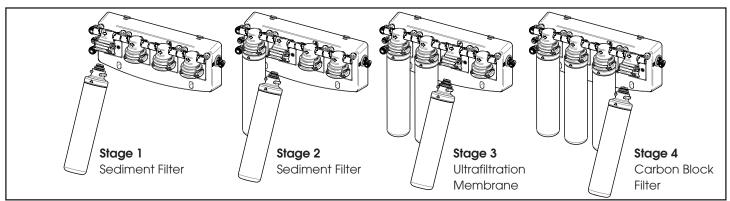
The mounting bracket contains four mounting slots. The holes are sized to accept #10 round head wood screws (supplied). Some types of surfaces such as particle board or drywall, may require the use of plastic screw anchors or toggle bolts to provide adequate support for the unit.



- 1. Tape the paper template included with this unit to the wall with the base of the template on the bottom of the cabinet (or higher). Be sure to leave adequate space (8 1/2" or more from the centerline) on both sides of the template.
- 2. Drill 1/8" hole at each location as indicated on the template.
- 3. Remove template. Thread one of the included wood screws into each hole leaving approximately a 1/2" space between the screw head and mounting surface.
- 4. Hang the bracket on the mounting screws. If unit is loose, tighten the screws further.

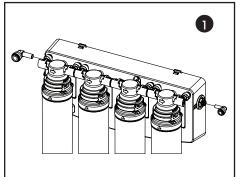
Install Filter Cartridges

1. Twist the cartridge to lock it into the manifold. (as shown)

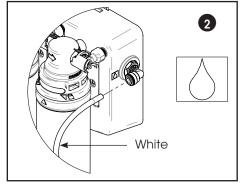


Connect System

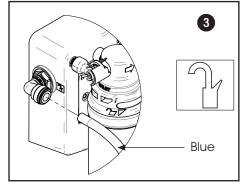
When cutting plastic tubing, use a sharp utility knife. Cut the tubing squarely. See page 7 for cutting and connecting tubing.



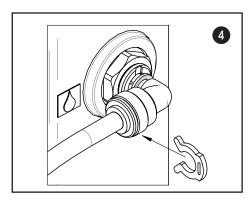
 Connect quick connect elbows to the three open connection locations on the unit. Firmly push the fittings into place, then pull back lightly to lock them in.



Connect 1/4-inch OD white plastic tubing from the feed water supply source to the system inlet on the manifold.



Connect 3/8-inch OD blue plastic tubing from the product water faucet to the manifold.



 Attach locking clips to each white elbow fitting. Do not attach one to the blue flow control. Clips should slide in behind collet on the fittings.

Step 5 - Start-Up

- 1. Check system to verify all components are correctly installed
- 2. Open inlet valve and tank valve.
- 3. Check system thoroughly for leaks. If any are found, shut off both inlet and tank valves and correct the issue.
- 4. Open faucet to flush carbon fines & sanitization solution. After allowing the system to run for 20 minutes turn off the faucet
- 5. System is ready to use



WARNING! Do not drink water produced by the system until the start-up procedure has been followed completely!

Service and Maintenance

Service Schedule

To keep the Aqua Flo Platinum® system operating properly, it is necessary to change the filters and sanitize the system periodically. Typically, this should be done on an annual basis. Service frequency may vary depending on local water conditions. High sediment, chlorine, turbidity, or hardness levels may require more frequent service. Use the following as a guide.

As needed

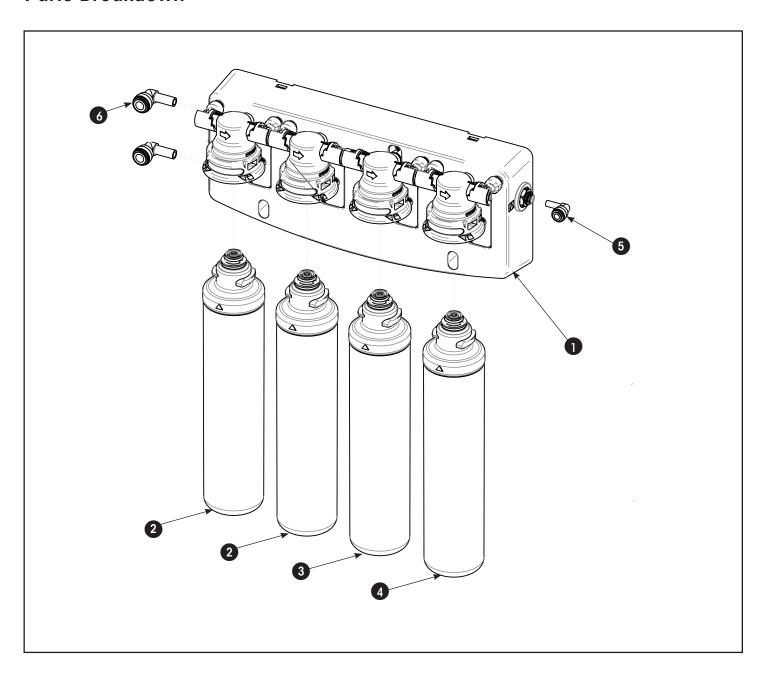
Clean the faucet with a soft cloth, avoid abrasive cleaners.

	At least once in 6 months
Replace	
• Stage 1 and 2 Sediment Filters (41407002)	

Rotate sediment filters 3 months after changing (swap stage 1 & stage 2)

At least once in 12 months	
Replace	Sanitize the system
Stage 3 Ultrafiltration Membrane (41407005)	
• Stage 4 Carbon Block Filter (41407002)	

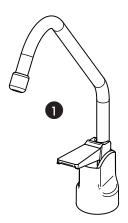
Parts Breakdown

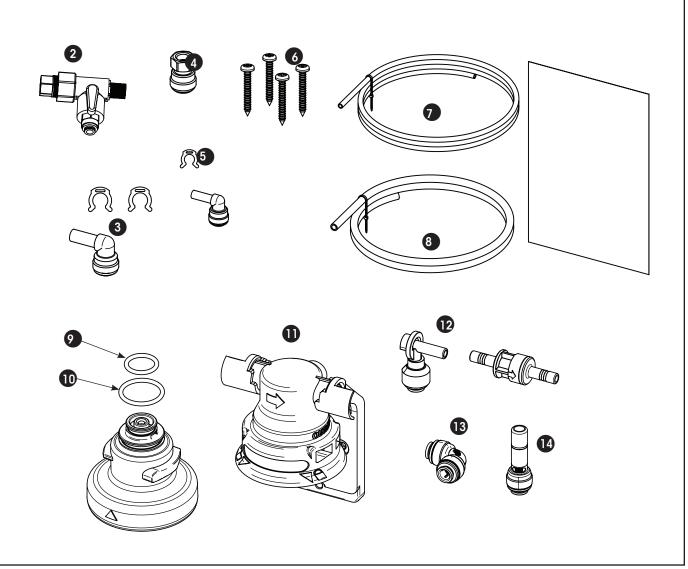


#	Item #	Description	Qty.
1	134040U	Manifold, Quick Change Ultrafilter, 4 Stage	1
2	41407001	Cartridge, Quick Change Sediment Filter - Stage 1 & 2	2
3	41407005	Cartridge, Quick Change Ultrafiltration Membrane - Stage 3	1
4	41407002	Cartridge, Quick Change Carbon Block - Stage 4	1
5	33501064	Elbow,1/4" Stem	1
6	33501071	Elbow,3/8" Stem	1

Other Parts

- 1. Faucet & Hardware Part # 92192
- 2. Valve, Inlet, 1/2x1/2, 1/4 Part # 60010643
- 3. Locking Clip (3/8") Part # 92346
- 4. Faucet Adapter Part # 92652
- 5. Locking Clip (1/4") Part # 92345
- 6. 4x #10 Phillips Self Tapping Screws
- 7. 1/4" Tubing (4ft White - Part # 115200)
- 8. 3/8" Tubing 4ft Blue – Part # 87600)
- 9 O-ring, Small Part # 41407554
- 10. O-ring, Medium Part # 41407555
- 11. Replacement Filter Head Part # 92804
- 12. Compact Elbow Part # 41407558
- 13. 1/4" Elbow Part # PP0308W
- 14. 3/8" X 1/4" Stem Adapter Part # PP061208W





Troubleshooting Guide

If a problem cannot be corrected through the use of this troubleshooting guide please have the following information ready prior to calling the 1-800 number on the back of this manual:

- Serial #
- Model #

Pro	blem	Pos	ssible Cause	Rei	medy
1.	Insufficient	a.	Plugged prefilter.	a.	Replace filter element.
	quantity of	b.	Plugged polishing filter.	b.	Replace polishing filter.
	product water available to service.	C.	UF membrane fouled with sediment.	C.	Replace UF membrane and prefilter elements.
2.	Poor product	a.	All of (1) above.	a.	All of (1) above.
	water quality.	b.	UF membrane worn out.	b.	Replace UF membrane.
		C.	Shutoff malfunction.	C.	Replace shutoff.
3. E	Bad tasting product water.	a.	Decrease in product quality; see (2) above.	a.	Same as (2) above.
		b.	Polishing filter exhausted.	b.	Replace polishing filter
4.	External leakage.	a.	Tubing not fully seated in fitting	a.	Check all fittings for tightness.
		b.	Tubing abraded in seal area.	b.	Recut tubing and redo connection.
5.	Bad smell from	a.	Polishing filter exhausted.	a.	Replace polishing filter.
	product water.	b.	Prefilter element.	b.	Replace filter element.
		C.	Unit needs disinfection.	c.	Sanitize unit.
6.	Black specks in product water.	a.	Carbon fines.	a.	Flush polishing filter.
7.	Low faucet pressure.	a.	Polishing filter plugged.	a.	Replace polishing filter.

Aqua Flo Platinum® Guarantee

Subject to the conditions and limitations described below, WaterGroup warrants its Aqua Flo Platinum® Ultrafiltration Drinking Water Treatment Systems (excluding membrane and cartridge filters), when installed in accordance with WaterGroup specifications, to be free from defects in materials and workmanship under normal use within the operating specifications for a period of one (1) year from the date of purchase (with bill of sale). This warranty shall apply to the original end-user of the system only.

Other than the membrane and cartridge filters, any part found defective within the terms of this warranty will be repaired or replaced by WaterGroup. If any part is found defective, WaterGroup also reserves the right to replace the drinking water appliance with a comparable WaterGroup drinking water system of equal or greater quality. You pay only freight for repaired or replaced parts from our factory.

This warranty shall not apply to any part damaged by accident, fire, flood, freezing, Act of God, bacterial attack, membrane fouling and/or scaling, sediment, misuse, misapplication, neglect, alteration, installation, or operation contrary to our printed instructions, or by the use of accessories or components which do not meet WaterGroup specifications. If the drinking water system is altered by anyone other than WaterGroup the warranty shall be void.

ALL IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE DURATION OF THE PERIOD SPECIFIED ABOVE FOR THE PARTS DESCRIBED IN THIS LIMITED WARRANTY.

As a manufacturer, we do not know the characteristics of your water supply. The quality of water supplies may vary seasonably or over a period of time. Your water usage may vary as well. Water characteristics can also change if the drinking water appliance is moved to a new location. For these reasons, we assume no liability for the determination of the proper equipment necessary to meet your requirements, and we do not authorize others to assume such obligation for us. Further, we assume no liability and extend no warranties, express or implied, for the use of this product with a non-potable water source or a water source which does not meet the conditions for use as described in this Owners Guide.

WATERGROUP'S OBLIGATIONS UNDER THIS WARRANTY ARE LIMITED TO THE REPAIR OR REPLACEMENT OF THE FAILED PARTS OF THE DRINKING WATER SYSTEM, AND WE ASSUME NO LIABILITY WHATSOEVER FOR DIRECT, INDIRECT, INCIDENTAL, CONSEQUENTIAL, SPECIAL, GENERAL OR OTHER DAMAGES, WHETHER FROM CORROSION OR OTHER CAUSES.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you. Similarly, some states do not allow the exclusion of incidental or consequential damage, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may have other rights that vary from state to state.

INSTALLATION I	NFORMATION	
Serial Number:		
Installation Date:		
Installed By:		



Canature WaterGroup™

855 Park Street, Unit 1 Regina, SK. S4N 6M1 Canada

Toll Free: 1-877- 288-9888

USA Office:

9760 Mayflower Park Drive, Suite 110 Carmel, IN. 46032 USA

Toll Free: (877) 288-9888

55026.05/12/19

