NOVO™

WATER CONDITIONING PRODUCTS

PRODUCT CATALOG

Water Conditioning Products
For the Plumbing Professional

EXCEPTIONAL VALUE

INNOVATION QUALITY
EXPERTISE EFFICIENCY

A Division of Canature WaterGroup

50th ANNIVERSARY

NOVO™

WATER CONDITIONING PRODUCTS

EXCEPTIONAL VALUE

INNOVATION QUALITY
EXPERTISE EFFICIENCY

*Our Mission is to provide customers with **EXCEPTIONAL VALUE** for their hard earned dollar.*

We have been in the Water Conditioning Manufacturing & Distribution Business in North America for 50 Years.

We believe our longevity is a testament to our singular focus on value creation by Efficiently delivering Innovative, High Quality Products - all backed with Expert Support.

*Canature WaterGroup is celebrating **50 years of Innovation, Quality, Efficiency ... and Growth!** Our focus has not changed much since I started the business back in 1968! Our mission has always been to create the most value possible for our customers. As a result, we have built many long-term partnerships over the years. I call them partnerships because that is really what they are. Our success depends on our customers' success.*

I want to thank our customers, old and new, for being great partners and allowing myself and my team to have continued success in an industry we are very passionate about.

Don Fettes, President & CEO

Corporate Capability Brochure Circa 1989

Trade & Commerce Magazine 1977

50th ANNIVERSARY

EXCEPTIONAL VALUE
INNOVATION QUALITY EXPERTISE EFFICIENCY

Continuous Innovation

- Consumer Driven Features That Set You Apart
- Leading High-Efficiency Technology
- Dedicated Product Development Team
- Fast, Efficient Innovation – From Design to Finished Product to Your Door

EXCEPTIONAL VALUE
INNOVATION QUALITY EXPERTISE EFFICIENCY

Superior Quality

- ISO9001:2008 Certified, 1,200,000 sq ft Manufacturing Facility
- World Class Testing Laboratory
- Dedicated Quality Control Team
- 3rd Party Certified Systems & Components

EXCEPTIONAL VALUE
INNOVATION QUALITY EXPERTISE EFFICIENCY

Industry Expertise

- Over 150 Factory Trained Employees
- Largest Field Sales Force in North America
- Customer Service Team Averaging 20+ Years
- Over 15 P. Eng. & PhD's on Staff
- Dedicated Commercial Engineering Division

EXCEPTIONAL VALUE
INNOVATION QUALITY EXPERTISE EFFICIENCY

Higher Efficiency

- Manufacturer-Direct Business Model Eliminates Non-Value Added Activity
- State-of-the Art Manufacturing Ensures High Quality Products at the Lowest Possible Cost

U.S. Head Office
Carmel, IN
9760 Mayflower Park Dr.
Suite 110, 46032

Distribution Centers:
Phoenix, AZ
4655 W McDowell RoadSuite 108, 85035

Pottstown, PA
56 Lightcap Road, 19464

Fridley, MN
7229 University Ave. NE
55432

NOVO™
WATER CONDITIONING PRODUCTS

1-877-288-9888
www.novowater.com

Technical Support
supportusa@canaturewg.com
supportcanada@canaturewg.com
Order Desk
ordersusa@canaturewg.com
orderscanada@canaturewg.com

Canadian Head Office
Regina, SK
855 Park St., Regina, SK S4N 6M1

Distribution Centers:
Calgary, AB
7503 35th St. SE, T2C 1V3

Cambridge, ON
490 Pinebush Road,
Unit 1, N1T 0A5

A Division of
Canature™ WaterGroup

Supporting Plumbing Professionals

We understand that the plumbing trade is not always focused on the changes occurring in the water treatment industry. That is why we make sure that we provide all the important information the trade requires to make profiting from water treatment easy:

- Product & Application Training
- Expert Technical Support
- Field Representation
- Sales Support Material
- Water Testing
- Commercial Expertise
- E-Newsletters
- Knowledgeable Customer Service

Effective Sales & Product Training Program

Novo 'hands on' training programs provide you and your staff with the knowledge needed to properly sell, apply, size, install and service Novo equipment.

Industry Leaders in Customer Service

Novo Field Representatives work with your local plumbing wholesaler to provide you with the best products and support in the industry!

Our Customer Service Team & Commercial Engineering Group has over 250 Years combined Industry Experience.

The Industries Water Conditioning Experts are only ever a 1-800 call away.

Free Professional Marketing Tools

- 9"x 4" Quad-fold Novo Solutions Brochures
- "Protect Your Biggest Investment" In-Home -Sales Tools (Pipe Hangers & Brochures)
- Counter Water Sample Test Kit Display
- Laminated Softener Sizing Guides
- Posters / Banners

NOVO ProAdvantage Program

Turn Opportunity into Profit With a Program That Offers REAL Value!

The **NOVO ProAdvantage Program** is specifically developed for the dedicated plumbing professional who wants to make the most out of the water conditioning segment of their business.

LEVEL ONE BASIC TRAINING

Online Video Training

Complete our simple on-line ***video-based basic training program*** today & we'll give you all the tools you need to get started making the most out of the growing water conditioning market!

- **Test Kits**
- **Sizing Guide**
- **Sales Materials**

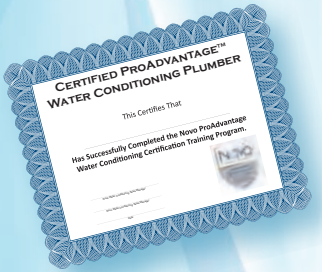
UPON COMPLETION WE'LL SEND YOU A *FREE* WATER CONDITIONING STARTER KIT (RETAIL VALUE $50) ...

LEVEL TWO CERTIFIED INSTALLER

Comprehensive Hands-on Training

Work with one of Novo's **Regional Sales Managers** to complete the **Level Two Comprehensive Training Program** and get your **Certified Installer Marketing Tool Kit** for **FREE!**

- **Certified Uniform Patch**
- **Vehicle Decals**
- **Showroom Poster**
- **Certified Installer Wall Certificate**
- **And *MORE!* ...**



FREE framed certificates and uniform patches upon completion.

Vehicle decal

Custom display stand

Water sample kit

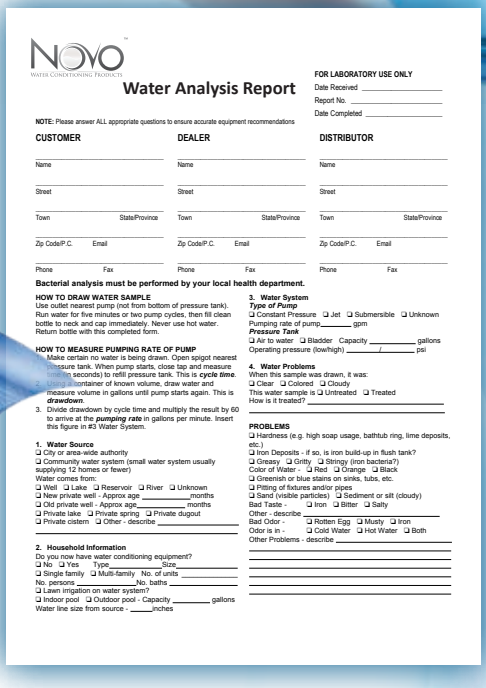
REGISTER TODAY!

@ www.novowater.com

Free Water Testing Services

Recommending a proper solution starts with a water analysis. Novo labs in Regina, SK, Cambridge, ON, & Carmel, IN can test your water samples for:

1) Hardness
2) Iron
3) Manganese
4) pH
5) Tannins
6) TDS



NOVO
WATER CONDITIONING PRODUCTS

Water Analysis Report

FOR LABORATORY USE ONLY
Date Received _____
Report No. _____
Date Completed _____

NOTE: Please answer ALL appropriate questions to ensure accurate equipment recommendations

CUSTOMER / **DEALER** / **DISTRIBUTOR**

Name
Street
Town State/Province
Zip Code/P.C. Email
Phone Fax

Bacterial analysis must be performed by your local health department.

HOW TO DRAW WATER SAMPLE
Use outlet nearest pump (not from bottom of pressure tank). Run water for five minutes or two pump cycles, then fill clean bottle to neck and cap immediately. Never use hot water. Return bottle with this completed form.

HOW TO MEASURE PUMPING RATE OF PUMP
1. Make certain no water is being drawn. Open spigot nearest pressure tank. When pump starts, close tap and measure time (in seconds) to refill pressure tank. This is ***cycle time***.
2. Using a container of known volume, draw water and measure volume in gallons until pump starts again. This is ***drawdown***.
3. Divide drawdown by cycle time and multiply the result by 60 to arrive at the ***pumping rate*** in gallons per minute. Insert this figure in #3 Water System.

1. Water Source
❑ City or area-wide authority
❑ Community water system (small water system usually supplying 12 homes or fewer)
Water comes from:
❑ Well ❑ Lake ❑ Reservoir ❑ River ❑ Unknown
❑ New private well - Approx age _____months
❑ Old private well - Approx age_____ months
❑ Private lake ❑ Private spring ❑ Private dugout
❑ Private cistern ❑ Other - describe _____

2. Household Information
Do you now have water conditioning equipment?
❑ No ❑ Yes Type_____ Size_____
❑ Single family ❑ Multi-family No. of units _____
No. persons _____No. baths _____
❑ Lawn irrigation on water system?
❑ Indoor pool ❑ Outdoor pool - Capacity _____ gallons
Water line size from source - _____inches

3. Water System
Type of Pump
❑ Constant Pressure ❑ Jet ❑ Submersible ❑ Unknown
Pumping rate of pump_____ gpm
Pressure Tank
❑ Air to water ❑ Bladder Capacity _____ gallons
Operating pressure (low/high) _____/_____ psi

4. Water Problems
When this sample was drawn, it was:
❑ Clear ❑ Colored ❑ Cloudy
This water sample is ❑ Untreated ❑ Treated
How is it treated? _____

PROBLEMS
❑ Hardness (e.g. high soap usage, bathtub ring, lime deposits, etc.)
❑ Iron Deposits - if so, is iron build-up in flush tank?
❑ Greasy ❑ Gritty ❑ Stringy (iron bacteria?)
Color of Water - ❑ Red ❑ Orange ❑ Black
❑ Greenish or blue stains on sinks, tubs, etc.
❑ Pitting of fixtures and/or pipes
❑ Sand (visible particles) ❑ Sediment or silt (cloudy)
Bad Taste - ❑ Iron ❑ Bitter ❑ Salty
Other - describe _____
Bad Odor - ❑ Rotten Egg ❑ Musty ❑ Iron
Odor is in - ❑ Cold Water ❑ Hot Water ❑ Both
Other Problems - describe _____

Water Testing Kits & Sample Bottles

Novo sells a complete line of easy to use test kits so you can accurately test water in the field. Not sure of the proper product application? Give us a call with the results and we'll provide you with a product recommendation.
Water Sample Collection Kits are available at Stocking Wholesalers & include a sample bottle, mailing tube and sample collection instructions.

If you have concerns about the safety (potability) of the water supply we recommend a complete water analysis be conducted. These are usually conducted for a small fee at a State or Provincial Lab.

Operations & Product Development

Toby Hughes P. Eng.
Chief Operations Officer

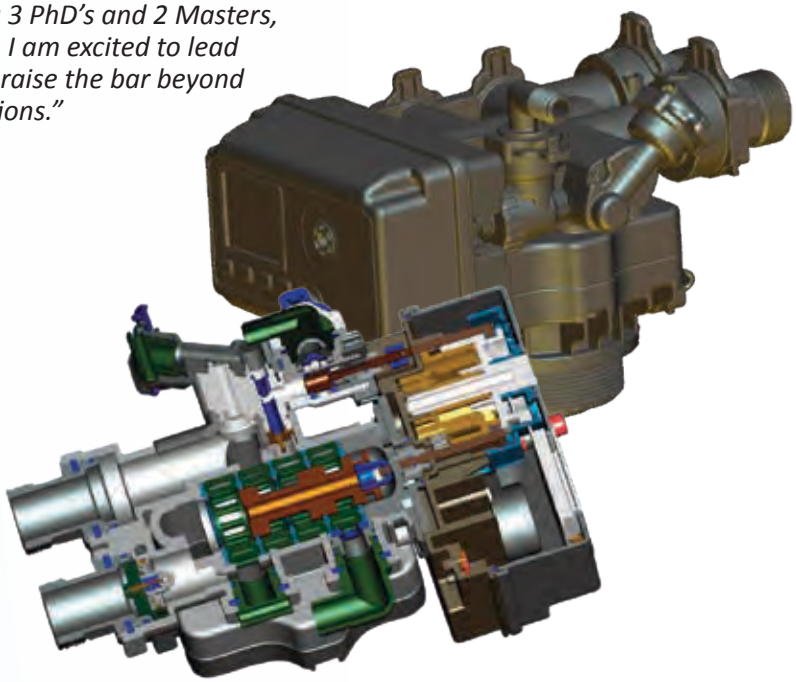
Toby Hughes has managed some of the industries largest water conditioning manufacturing operations as well as toured the facilities of most industry manufacturers across the globe.

Toby brings over 20 years of extensive industry experience to Novo. Toby has managed product development as well as implemented Lean manufacturing, Continuous Improvement and Quality Assurance programs, MRP (Material Requirement Planning) systems to create an efficient, low cost and quality driven manufacturing environment.

"The Novo Product Development Center and manufacturing operations are beyond comparison in our industry. The investment in technology and commitment to leading manufacturing practices & innovation has resulted in higher quality and lower cost products with meaningful 'Installer / Service Driven' features. This all adds up to better value for our customers.

My staff of 17 Professional Engineers, including 3 PhD's and 2 Masters, are some of the brightest minds in the industry. I am excited to lead Novo's Global Engineering and Operations and raise the bar beyond industry standards and our customers expectations."

Toby Hughes, P.Eng., Chief Operations Officer



Control Valves

Novo NSF/ANSI 44 Certified control valves meet or exceed the most vigorous industry performance and reliability standards. Familiar piston, seal and spacer design has been enhanced to improve performance and product life.

The addition of a piston stabilizer reduces the side load force between the piston rod and end plug seal as it firmly guides the piston while it travels up and down. An added rib on the seal improves the sealing pressure so that the valve can withstand over 700psi! These are just a few of the design features that make Novo valves more reliable and and better performing. Learn more about the 'Dealer-driven' control valve design features on page 13.

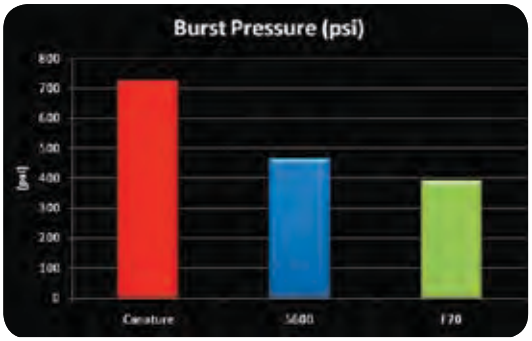
NSF Certified chloramine resistant rubber seals

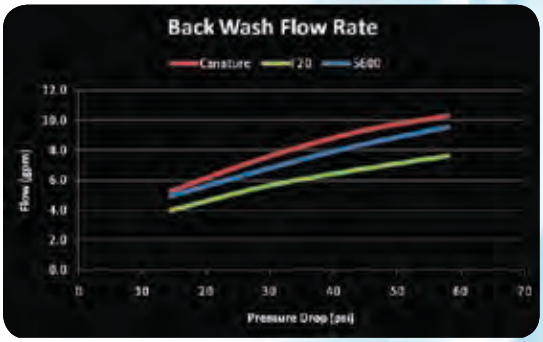
Added Rib Improves Seal

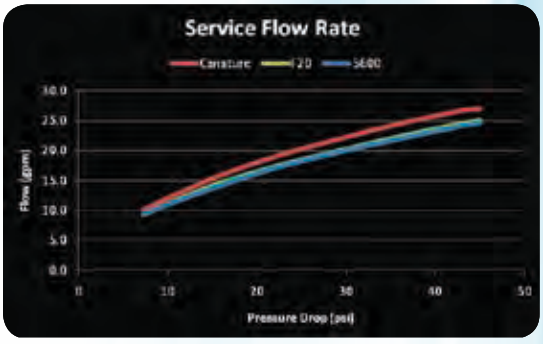
Piston Stabilizer

Novo NSF/ANSI 44 Certified control valves meet or exceed competitive equivalents in all four key measures:
1) Service Flow Rate, 2) Back Wash Flow Rate, 3) Burst Pressure and 4) Cycle Testing.

NSF COMPONENT







Fiberglass Tanks

Novo NSF/ANSI 44 Certified filament wound tanks are not only strong and reliable but the finish is unparalleled in the industry. No need for a tank jacket (although we offer those too) with the neatly wound, high gloss finish. Strict tank height control measures mean no surprises when installing a duplex system.

The tanks are made in the World's first and only fully automated, robotic manufacturing process.

WATCH THE VIDEO

Check out the Automated Robotic Manufacturing Process

www.novowater.com/manufacturing.asp

Assembly, Testing & Distribution

All water softeners and whole-house filters are engineered, assembled, tested and and distributed from our North American Regional facilities. All control valves are 100% wet tested and air tested before leaving the factory. Control valves are then set up to engineering specifications for the particular unit, air tested a second time and then assembled into the finished product. All assembled products are packaged in durable, double walled high impact cardboard to ensure products arrive undamaged.

Mike Cummings assembling a softener in Regina, SK facility

Quality Assurance Department

Novo employs a strict and formalized quality control program. The 925,000 sq. ft. Shanghai Manufacturing facility is ISO9001:2008 Quality Assurance and ISO 14001:2004 Environmental Management Systems standards certified.

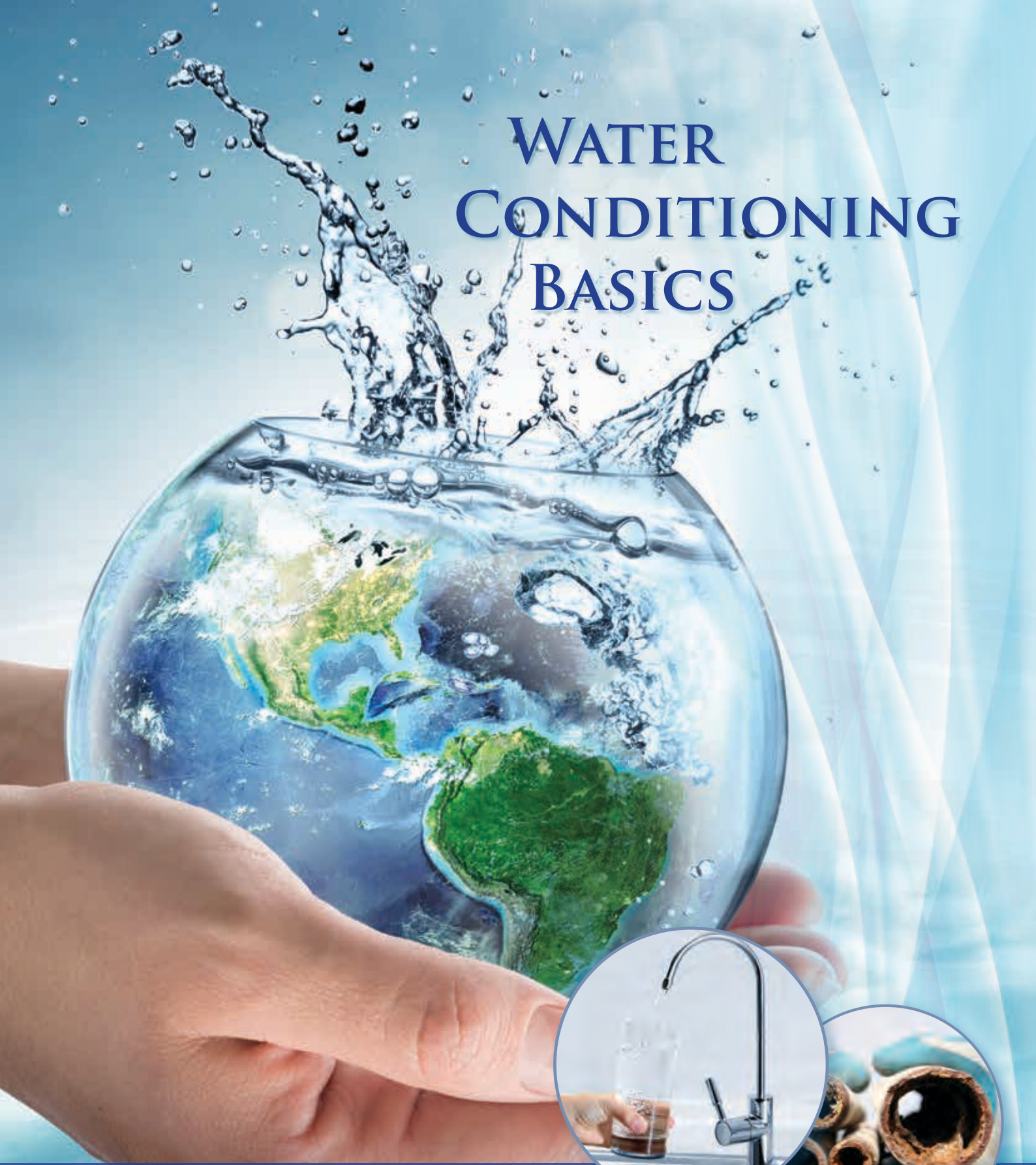
Quality Control systems:

- Document Management
- Receiving Inspection
- In-process Quality Control
- Final Inspection
- Engineering Change Orders
- First Piece & Production Part Approval
- Test Equipment Calibration
- Statistical Process Control
- Vendor Quality Management
- Customer Feedback System

World Class Testing Laboratory

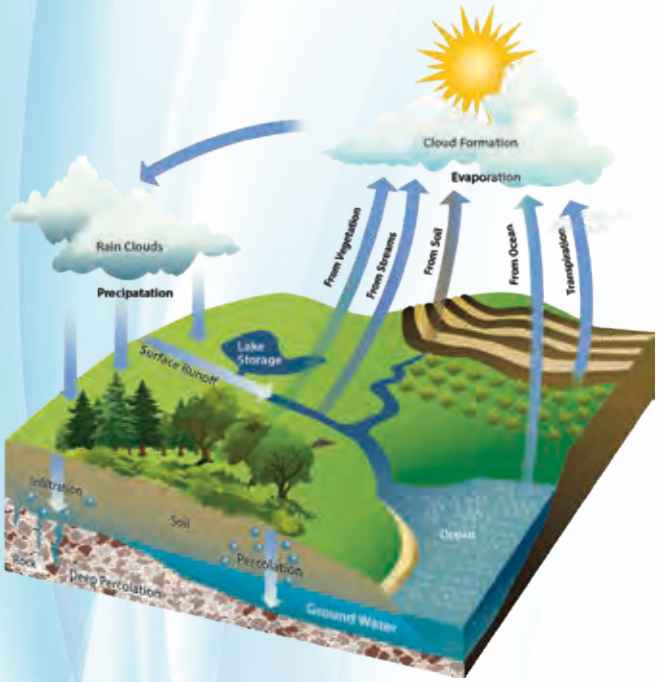
- **Burst Testing:** High pressure testing of tanks and valves to determine the maximum burst strength.
- **Cycle Pressure Testing:** High pressure cycling testing to simulate the fatigue strength of the tanks and valves over their life.
- **Flow Bench:** Precisely measure flow rates and pressure drops.
- **Reliability Testing:** Continuously cycling the valve through regeneration while taking flow measurements and counting the number of cycles.
- **Computer Aided Optical Comparator:** Used for precise measurement of very small details such as fillets or radius's.
- **Coordinate Measuring Machine (Cmm):** Used for precise geometrical x, y, and z measurement coordinates.
- **3d Prototype Printer:** Makes 3D models for rapid prototyping.
- **Chemical Analysis Laboratory:** Complete chemical analysis of raw materials including metals, plastics and media to ensure quality and integrity.

Water Conditioning Basics



The Hydrologic Cycle
Guidelines for Solving Water Problems, Terminology, Water Analysis, Sizing Parameters

The Hydrologic Cycle



The total area of the earth is composed of 2/3 water, making it one of the most plentiful and most important materials available. Without potable water, mankind cannot survive.

Pure water consists of two parts hydrogen and one part oxygen, chemically combined to form pure water.

The only pure source of water is the earth's atmosphere (sometimes called the hydrological cycle). Impure water from the earth's oceans, lakes, rivers and surface evaporates into the atmosphere, then condenses to form rain droplets which are totally pure. The above process operates basically the same as a man-made still, which evaporates all the impurities from the water, then returns the condensates into pure water. If this process did not exist, there would likely not be enough potable water to support the earth's population.

> "The only pure source of water is the earth's atmosphere."

The pure water vapor, which forms in the earth's atmosphere (clouds), begins to pick up impurities. As it begins to fall to earth in the form of rain, snow, etc., impurities are immediately absorbed. These impurities may be dust, micro-organisms, gases, etc. - at least a little of everything found in the atmosphere on the way to the surface.

The rain or snowfall finds its way to various sources of water supplies on the earth's lakes, rivers, oceans or it may soak into the ground and become a part of an underground stream or lake.

Characteristics of Various Water Sources

Rain Water

After the water picks up impurities in the atmosphere and percolates through the ground, it comes into contact with carbon dioxide and then forms carbonic acid. This dissolves some of the mineral content of the soil or rock it contacts, thus adding these minerals to the water.

Surface Water

Water from streams may be turbid due to the presence of silt, clay, etc. However, in larger surface water, a greater amount of self-purification takes place through aerobic digestion, plant life, fish, etc. and the quality of the water could change to a great degree.

Ground Water

Normally picks up the minerals it flows through. As a general rule, water from deep wells contains a higher mineral content and is less likely to contain organics or turbidity. Water from shallow wells is usually lower in mineral content and may be subjected to pollution or other bacteria which is available from various sources nearby (e.g. spring run-off through forests and hills, plants, industrial wastes, etc. which will all pass various bacteria into the water).

Impurities

Impurities in water are divided into two classifications:

1. Dissolved Solids

Those which naturally dissolve into water. NOTE: Gases may also dissolve into water unless they combine chemically with other impurities. They will be released into the atmosphere upon boiling and are not truly classified as dissolved solids. Upon evaporation, only the dissolved solids would remain in the actual mineral form and then can be analyzed by actual weight of the various elements.

2. Suspended Solids

Consist of clay, mud, silt, etc. and will not dissolve into water naturally but remain as such in their present state.

Water treatment and pollution control is one of the largest and most important industries in the modern day world. As can be seen from the preceding information, water treatment is a very broad and varied field and chemical analysis of certain water supplies is virtually impossible to completely break down. In time, modern man may discover additional information regarding the field of water treatment and the entire cycle of the earth's largest and most important single resource.

The following sections will attempt to clarify some of the more common problems and solutions presently available.

Guidelines for Solving Water Problems

PROBLEM	SYMPTOM	CAUSE	CORRECTIVE EQUIPMENT
Hard Water	Spotting on dishes and glassware; scale on inside of water heater, pipes and water-using appliances; soap curd and bathtub ring; clothes look gray and dingy.	Calcium and magnesium in water, measuring 1.0 gpg or more.	Water Softener (Max. Hardness 100 gpg) (Max. Clear Water Iron 1.5 ppm)
Clear Water Iron (Ferrous)	Yellow, brown or rusty stains on plumbing fixtures, water-using appliances and fabrics; metallic taste in foods and beverages; water is clear when drawn from the faucet but oxidizes when exposed to air, then changes color ranging from yellow to brown.	Iron in the water measuring 0.3 ppm or more.	0.3-1.5 ppm Water Softener. 1.5-7.5 ppm SIM Specialty System Softener. 1.5-30 ppm Chemical Free Iron Filter (Note 1).
Red Water Iron (Ferric)	Same symptoms as Clear Water Iron but iron has already oxidized and has a yellow to rust color when drawn from the faucet.	Iron in the water measuring 0.3 ppm or more.	0.3-30 ppm Chemical Free Iron Filter (Note 1). 0.3-10 ppm Iron & Sulfur Filter.
Bacterial Iron	Same symptoms as Clear & Red Water Iron but can have clumps or balls that may foul plumbing lines and other water-using appliances; particularly noticeable as a yellow to reddish slime in toilet flush tanks.	Iron bacteria are a group of bacteria which thrive in ironbearing water, utilizing iron as an energy source. This bacteria is not a health hazard.	Chemical Free Iron Filter (Note 1). Chemical feed pump feeding chlorine followed by a Multimedia Filter (Note 3).
Manganese	Blackish stain on fixtures and laundry; manganese content above 0.05 ppm causes stains.	Interaction of carbon dioxide or organic matter with manganese bearing soils. Usually found in combination with iron.	0.05-1.0 ppm Chemical Free M Iron Filter (Note 1). 1.0-2.0 ppm Neutralizing Filter followed by Iron & Sulfur Filter (Note 2).
Acid Water	Blue/green or rusty stains and corrosion of plumbing fixtures and other water-using appliances; pitting of porcelain and enamel fixtures and dishes. Pin holes in copper plumbing lines.	Generally associated with water with a pH value of less than the neutral 7.0.	pH 6.0-6.9 Neutralizing Filter. pH 4.0-6.9 Chemical Feed Pump feeding soda ash. Consult our Customer Service Dept.
Aggressive/Corrosive Water	Same symptoms as Acid Water but pH is 7.0 or higher.	Alkalinity and carbon dioxide or high dissolved oxygen in water. Electrolysis - two dissimilar metals in plumbing lines.	Consult our Customer Service Dept.
Hydrogen Sulfide	Rotten egg taste and/or odor. Turns copper plumbing lines black. Very corrosive.	Hydrogen sulfide is a dissolved gas found in some water supplies.	0.1-3.0 ppm Chemical Free Iron Filter or Iron & Sulfur Filter. 3.0-15 ppm Chemical Feed Pump feeding chlorine followed by a Multimedia Filter (Note 3).
Marshy, metallic or chlorine taste and/or odors	Objectionable tastes and/or odors other than hydrogen sulfide.	Dissolved minerals or gases; organic contamination or chlorination.	Activated Carbon Filter for whole house water supply or Taste & Odor Cartridge Filter for individual faucets.
Turbidity (Sand/ Sediment)	Foreign particles, dirty or cloudy water.	Tiny suspended particles that are the result of water main scale or silt. Private wells often contain sand or clay.	Turbidity Filter for whole house water supply or a Sediment Cartridge Filter for individual faucets.
Tannins	Yellow or brown tint or cast in water supply; tannins measuring 0.5 ppm or higher may cause staining and/or interference with various water treatment processes.	Result of decaying vegetative matter.	Organic Color Removal Filter. Consult our Customer Service Dept.

Note 1 - Water must have a minimum pressure of 20 psi, pumping rate of 5 gpm and a pH of 6.5 or higher for proper operation. Most water supplies contain calcium and magnesium which are not removed by an iron filter. We recommend following an iron filter with a water softener.
Note 2 - Oxidation of manganese is more pH dependent than iron. Therefore a pH of 8.2 or higher must be maintained. If the manganese level is >2.0 ppm or bacterial iron is present, consult our Customer Service Department.
Note 3 - This system also requires a retention tank to allow adequate contact time (minimum 20 minutes). An optional activated carbon filter for the whole house water supply or a taste & odor cartridge filter for individual faucets may be installed to remove any objectionable taste or odor.

Terminology

Grains per Gallon - gpg

1/7000 of a pound - normally used in relation to hardness.

Parts per Million - ppm

One part dissolved material in one million parts of water. Used as a measurement for iron, manganese, TDS, hydrogen sulfide, chlorides, sulfates and tannins.

Milligrams per Liter - mg/l

For our purpose, same as ppm. Normally used for a more accurate measurement or where small quantities of certain elements cause big problems in relation to iron, manganese, sulfur, nitrates and silica.

Converting gpg (US Gallon) to ppm or mg/l

1 gpg = 17.1 ppm (mg/l)

Total Dissolved Solids - TDS

The weight of solids, per unit volume of water, which are in true solution. Can be determined by the evaporation of a measured volume of filtered water and determination of the residue weight. A common alternative method to determine TDS is to measure the conductivity of water.

Hardness

A characteristic of natural water due to the presence of dissolved calcium and magnesium. Water hardness is responsible for most scale formation in pipes and water heaters and forms insoluble “curd” when it reacts with soaps. Hardness is usually expressed in grains per gallon (gpg), parts per million (ppm) or milligrams per liter (mg/l), all as calcium carbonate equivalent.

Ferric Iron

Iron that is oxidized in water and is visible. Also called red water iron.

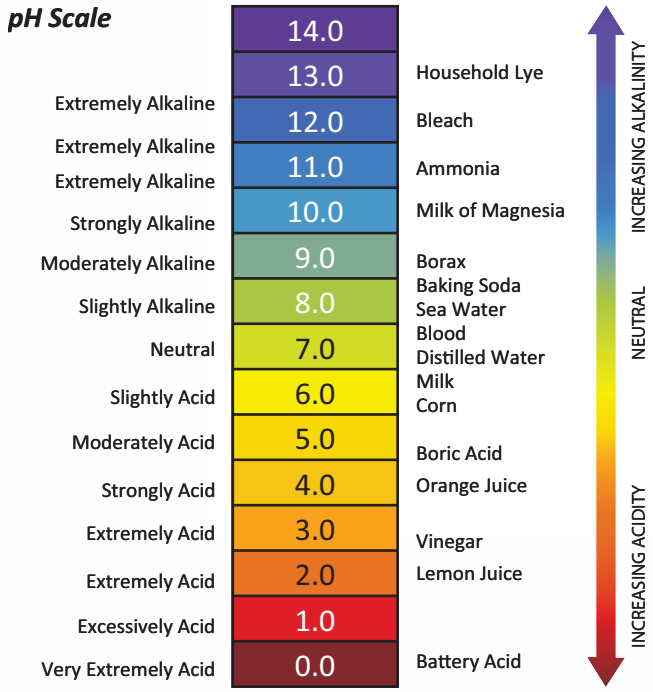
Ferrous Iron

Iron that is dissolved in water. Also called clear water iron.

pH

pH is a measure of the intensity of the acidity or alkalinity of water on a scale from 0 to 14, with 7 being neutral. When acidity is increased, the hydrogen ion concentration increases, resulting in a lower pH value. Similarly, when alkalinity is increased, the hydrogen ion concentration decreases, resulting in higher pH.

The pH value is an exponential function so that pH 10 is 10 times more alkaline than pH 9 and 100 times more alkaline than pH 8. Similarly, a pH 4 is 100 times more acid than pH 7.



Note: A complete glossary can be found in the Water Conditioning Glossary section.

Water Analysis

For correct sizing and application of water conditioning equipment, a water analysis is required. A basic water analysis includes tests for the following:

- **Hardness**
- **Iron**
- **Manganese**
- **pH**
- **TDS (Total Dissolved Solids)**

Water samples should be taken as near the source as possible and represent the average water condition. Clean containers must be used. When performing the analysis, the test equipment must be clean and rinsed with the test water and the test water should be between 68°F and 77°F (20°C and 25°C). Use rubber stops as supplied. Do not use your fingers as contaminants and acids could affect test results.

Additional tests can be performed for tannins and hydrogen sulfide (H2S). The test for H2S must be performed on-site for accurate results. Special tests can be performed for chlorides, sulfates and alkalinity by specified laboratories. If it is suspected the water supply is contaminated with coliform bacteria or nitrates, a sample must be collected in an approved sterilized container and submitted to a government approved laboratory. Iron bacteria will not be detected with the standard iron test and can be tested for by a government approved laboratory.

If the TDS is over 1000 ppm and hardness is less than 30% of the TDS, a complete water analysis should be performed to discover what other contaminants exist in the water.

If a contaminant exceeds the limits detectable by any test method, the raw water sample can be diluted with distilled water until a reading can be taken. A calculation must then be performed to determine the actual degree of contamination. All test chemicals are subject to age and extreme temperatures. Proper storage techniques and expiry dates should be observed.

The Water Analysis Report shown on the next two pages must be completed accurately to determine the correct equipment to recommend for the water problem(s) being experienced.

Hard Water

Water with a total hardness of 1.0 gpg or more as calcium carbonate equivalent.

Less than 1.0 gpg	Soft
1.0 - 3.5 gpg	Slightly hard
3.5 - 7.0 gpg	Moderately hard
7.0 - 10.5 gpg	Hard
More than 10.5 gpg	Very hard

Hardness

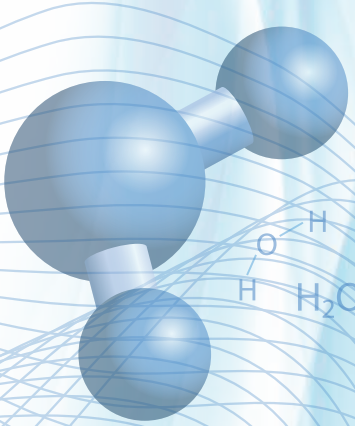
A characteristic of natural water due to the presence of dissolved calcium and magnesium. Water hardness is responsible for most scale formation in pipes and water heaters and forms insoluble “curd” when it reacts with soaps. Hardness is usually expressed in grains per gallon (gpg), parts per million (ppm) or milligrams per liter (mg/l) all as calcium carbonate equivalent.

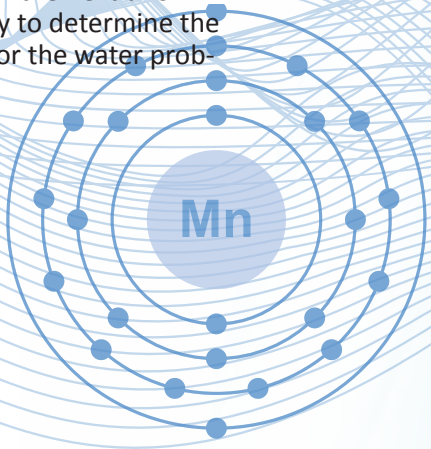
Soft Water

Any water which contains less than 1.0 gpg (17.1 mg/l) of hardness minerals, expressed as calcium carbonate equivalent.

Softened Water

Any water that is treated to reduce hardness minerals, expressed as calcium carbonate equivalent.





NOVO™
WATER CONDITIONING PRODUCTS

FOR LABORATORY USE ONLY

Date Received _____

Report No. _____

Date Completed _____

Water Analysis Report

NOTE: Please answer ALL appropriate questions to ensure accurate equipment recommendations

CUSTOMER	DEALER	DISTRIBUTOR
Name	Name	Name
Street	Street	Street
Town State/Province	Town State/Province	Town State/Province
Zip Code/P.C. Email	Zip Code/P.C. Email	Zip Code/P.C. Email
Phone	Phone	Phone

Analysis for Bacteria, Arsenic, Lead and other heavy metals must be performed by your local health department or an independent laboratory.

HOW TO DRAW WATER SAMPLE

Use outlet nearest pump (not from bottom of pressure tank). Run water for five minutes or two pump cycles, then fill clean bottle to neck and cap immediately. Never use hot water. Return bottle with this completed form.

HOW TO MEASURE PUMPING RATE OF PUMP

1. Make certain no water is being drawn. Open spigot nearest pressure tank. When pump starts, close tap and measure time (in seconds) to refill pressure tank. This is ***cycle time***.
2. Using a container of known volume, draw water and measure volume in gallons until pump starts again. This is ***drawdown***.
3. Divide drawdown by cycle time and multiply the result by 60 to arrive at the ***pumping rate*** in gallons per minute. Insert this figure in #3 Water System.

1. Water Source

❑ City or area-wide authority

❑ Community water system (small water system usually supplying 12 homes or fewer) Water comes from:

❑ Well ❑ Lake ❑ Reservoir ❑ River ❑ Unknown

❑ New private well - Approx age: _____ months

Depth of Well: _____

❑ Old private well - Approx age: _____ months

❑ Private lake ❑ Private spring ❑ Private dugout ❑ Other - describe:

_____

_____

2. Household Information

Do you now have water conditioning equipment?

❑ No ❑ Yes Type: _____ Size:_____

❑ Single family ❑ Multi-family No. of units:_____

No. persons: _____ No. baths: _____

Do baths have high flow demand? ❑ No ❑ Yes

❑ Lawn irrigation on water system? ❑ Indoor pool

❑ Outdoor pool - Capacity:_____ gallons

Water line size from source:_____inches

3. Water System

Type of Pump

❑ Constant Pressure ❑ Jet ❑ Submersible ❑ Unknown

Pumping rate of pump: _____ gpm

Pressure Tank

❑ Air to water ❑ Bladder Capacity:_____ gallons

Operating pressure: (low/high)_____ /_____ psi.

4. Water Problems

When this sample was drawn, it was:

❑ Clear ❑ Colored ❑ Cloudy

This water sample is ❑ Untreated ❑ Treated

How is it treated? (List Brand and Model #'s): _____

_____

PROBLEMS

❑ Hardness (e.g. high soap usage, bathtub ring, lime deposits, etc.)

❑ Iron Deposits - if so, is iron build-up in flush tank?

❑ Greasy ❑ Gritty ❑ Stringy (iron bacteria?)

Color of Water - ❑ Red ❑ Orange ❑ Black

❑ Greenish or blue stains on sinks, tubs, etc.

❑ Pitting of fixtures and/or pipes

❑ Sand (visible particles) ❑ Sediment or silt (cloudy)

Bad Taste - ❑ Iron ❑ Bitter ❑ Salty

Other - describe: _____

_____

Bad Odor: ❑ Rotten Egg ❑ Musty ❑ Iron

Odor is in: ❑ Cold Water ❑ Hot Water ❑ Both

Other Problems - describe:

_____

_____

_____

_____

5. Standard Laboratory Tests

Total Hardness: _____ gpg

Iron: _____ mg/l

Manganese: _____ mg/l

pH: _____

Total Dissolved Solids: _____ mg/l

6. Other Tests

Hydrogen Sulfide: _____ mg/l
(test must be performed on-site)

Tannins: _____ mg/l

If TDS is over 1000 ppm and hardness is less than 30% of the TDS, a total water analysis is required.

7. Explanation of Water Analysis

A. Total Hardness
This indicates the efficiency or workability of the water for everyday household use. Water in excess of 3 gpg is generally considered hard and should be softened.

B. Iron
Over 0.3 ppm of iron will cause discoloration of water and staining. Fully automatic water conditioners will correct this problem. Some extreme water situations may require filtration.

C. Manganese
Manganese is frequently encountered in iron-bearing water but to a lesser degree. Manganese is similar to iron in that it stains and clogs pipes and valves. Concentrations as low as 0.05 mg/l of manganese can cause problems.

D. pH
A scale used to measure the acidity or alkalinity of water. A pH reading below 6.5 normally indicates highly corrosive water and neutralizing equipment should be used. A pH reading in excess of 8.5 could indicate contaminated water and generally requires bacteriological and chemical analysis.

E. Hydrogen Sulfide (H_2S)
Testing for hydrogen sulfide should occur on-site. Hydrogen sulfide imparts a rotten egg odor and taste that makes water all but undrinkable and also promotes corrosion. In addition, it can foul the resin bed of a water conditioner. The use of a water conditioner is not recommended unless the water is first treated for the removal of hydrogen sulfide.

F. Total Dissolved Solids (TDS)
A measure of the soluble solids present in the water.

G. Tannins
Tannic acid is formed by decaying organic matter. Tannins alone are not harmful, although they can affect the proper operation of a chemical free iron filter.

RECOMMENDATIONS

Recommendations are based entirely on the information supplied and the water sample chemistry results at the time of analysis.

_____

_____

_____

_____

_____

Recommended by: _____

Date: _____

Return completed form to:

A Division of Canature WaterGroup

NOVO™ Water Conditioning Products

Sizing Parameters

Water Softener Sizing is Based On

- 60 gallons per person per day - total household use
- Three day minimum between regenerations
- Capacity between regenerations at factory salt settings or gallons capacity
- Number of people x 60 gallons per person x gpg of hardness x 3 days = capacity required between regenerations
- Consult your factory representative for water that is 75 gpg or harder

Water Softener/Iron Removal Combination Units

- This unit should be recommended only when dictated by special circumstances or the needs of the customer.
- The customer should be made aware that a separate iron filter and softener is preferred because it is a more efficient way to deal with the water.
- When recommending a combination unit, follow the guidelines provided in the specifications.

Water Consumption for Regeneration

The volume of water used during the regeneration process of a water softener will vary depending on:

- Amount and type of resin
- Cycle time settings
- Flow controllers
- Salt settings
- Tank diameter

Generally, water usage for regeneration is based on the cubic feet of resin per water softener from a low of 30 gallons of water per cubic foot, up to a normal of 75 gallons of water per cubic foot, to a maximum of 100 gallons of water per cubic foot. Manufacturing specs and settings for each model size should be checked to verify exact amounts.

Three Day Sizing Method

The three day sizing method is used for the following reasons:

1. To determine the size of the water conditioner to be used
2. To allow for reserve capacity between regenerations so the customer does not run out of soft water
3. To provide the most economical operation cost

Conversion Factors & Compensated Iron & Manganese

Total Hardness converted from ppm or mg/l to Grains/US Gallon (gpg)
ppm (mg/l) ÷ 17.1 = gpg

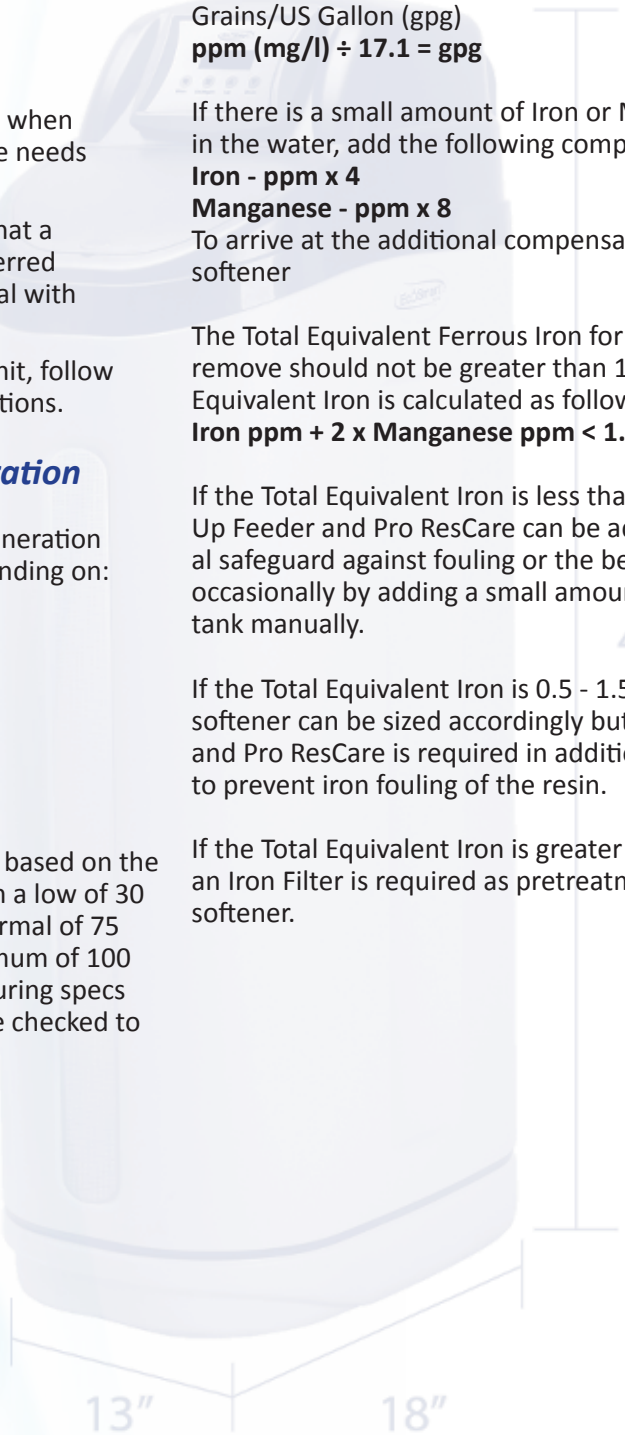
If there is a small amount of Iron or Manganese in the water, add the following compensated values:
Iron - ppm x 4
Manganese - ppm x 8
To arrive at the additional compensated load on the softener

The Total Equivalent Ferrous Iron for the softener to remove should not be greater than 1.5 ppm. Total Equivalent Iron is calculated as follows:
Iron ppm + 2 x Manganese ppm < 1.5 ppm

If the Total Equivalent Iron is less than 0.5 ppm, a Res-Up Feeder and Pro ResCare can be added as an optional safeguard against fouling or the bed can be cleaned occasionally by adding a small amount to the brine tank manually.

If the Total Equivalent Iron is 0.5 - 1.5 ppm, the softener can be sized accordingly but a Res-Up Feeder and Pro ResCare is required in addition to the softener to prevent iron fouling of the resin.

If the Total Equivalent Iron is greater than 1.5 ppm, an Iron Filter is required as pretreatment prior to the softener.



Better, Safer Drinking Water

AQUA FLO®

AQUA FLO® PLATINUM

Reverse Osmosis
Ultra Filtration
Under Sink Filtration
Designer Faucets
& Accessories

Aqua Flo Platinum QCRO & QCUF Drinking Water Systems

Customized Drinking Water

Water conditions can vary even in the same community. The QCRO System can be configured to meet your specific requirements. There are ten interchangeable filters with a variety of treatment options that can be tailored to local water conditions, so your water is the best it can be.

If you're concerned about RO reject water or RO drain line makes installation difficult, we offer UltraFiltration (UF).* The UF does not have a drain line to run, your cost is lesser than RO and there is no waste.

The innovative QC twist and lock design makes service simple. Twist off the old cartridge and twist on the new. No messy sump removal. HP systems make drinking water better and life easier.

*** Check with water treatment specialist to recommend you an RO or UF system depending on your untreated water quality.**

QCRO

QCUF

"The innovative QC twist and lock design makes service simple."

AQUA FLO® PLATINUM

Aqua Flo Platinum QCRO & QCUF Drinking Water Systems

Product Specifications

Sediment Filters. Screens out sediments and particles. Various micron size filters are available.

Carbon Filters. Reduces elements that cause water to taste and smell unpleasant, including chlorine taste and odor.

Reverse Osmosis Filters. Reduces dissolved substances. Various capacity membranes are available.

Specialty Filters. Optimize drinking water taste and adjust to local water supply with a wide array of custom filter options.

Manifold Assembly. The single manifold ensures reliability. Houses four separate filter technologies in a unique space saving design.

Automatic Shutoff Valve. Shuts off the system when reservoir tank is full.

Reservoir Tank. Durable, high quality, powder coated, steel tank ensures you'll have a plentiful supply of refreshing water. Various size tanks are available.

Designer Faucet. Multiple styles and colors are available.
(Standard faucet shown)

Filter Cartridge and Single Stage Standalone System Specifications

	Sediment Filter	Carbon Block Filter	Carbon Block Filter	GAC Carbon Filter	pH Booster Filter Cartridge	UF (Hollow Fiber) Membrane	Carbon Block - 1 Mic Filter
Purpose	Sediment Removal	Chlorine Taste and Odor	Chlorine Taste and Odor	Polishing - Taste and Odor	Raise pH of water and removal of chlorine, taste and odor	Ultra Fine Filtration	Chlorine Taste and Odor, Particulate Reduction
Type	Polypropylene	Carbon Block	Carbon Block	Granular Activated Carbon Filter	pH Booster and Remineralizer	Hollow Fiber Mechanical Filtration	Carbon Block
Micron	5	5	50	–	–	0.1	1
Capacity*	2000 gallons	2000 gallons	2000 gallons	2000 gallons	To be changed every 6 months	To be changed every 12 months	750 Gallons
Minimum Flow Rate @ 60psi	0.5 gal/min	0.5 gal/min	0.5 gal/min	0.5 gal/min	0.5 gal/min	0.5 gal/min	0.5 gal/min
Single Stage System Model #**	SEDQC1/4	CBQC1/4	CB50QC1/4	GACQC1/4	PHQC1/4	UFQC1/4	CB1QC1/4

* May vary depending on water quality
** Single Stage Standalone System Port Connection Size - 1/4" Quick Connect

Standard System Specifications*

Model	QCRO4V-50	QCRO4V-75	QCUF
Number of Stages	4	4	4
Stage 1 (Pre-Filter)	Sediment Filter	Sediment Filter	Sediment Filter
Stage 2 (Pre-Filter)	Activated Carbon Filter	Activated Carbon Filter	Sediment Filter
Stage 3 (Membrane)	Thin Film Composite Membrane	Thin Film Composite Membrane	Thin Film Composite Membrane
Stage 4 (Post-Filter)	Activated Carbon Filter	Activated Carbon Filter	Activated Carbon Filter
Output (GPD)†	50	75	720

Feed Water Guidelines	
Maximum TDS	2000 ppm
Hardness	<7gpg
Iron (Fe)	<0.2ppm
Manganese (Mn)	<0.05ppm
Hydrogen Sulfide	0.0ppm
Turbidity	<1.0NTU
Feed Water Pressure Booster Pump Models	40-100psi 15 – 60 psi
Temperature	40-100°F
pH Range	3.0-11.0
Note: Pretreatment suggested if conditions exceed parameters. Must be installed on potable water.	

IAPMO R & T Certified against NSF 58 for the reduction of following substances as verified and substantiated by test data; Barium, Cadmium, Copper, Fluoride, Hexavalent Chromium, Lead, Arsenic (V) (Less than 300 ppb reduction), Radium 226/228, Selenium, TDS, Trivalent Chromium, Turbidity

IAPMO R & T Certified against CSA B483.1

Aqua Flo Platinum QCRO & QCUF Drinking Water Systems

PART #	DESCRIPTION	WEIGHT (LBS)
AQUA FLO PLATINUM QCRO (Quick Change) Reverse Osmosis c/w 4.0 Gal Metal Storage Tank		
1340302-60	AQF PLAT QCRO4V-50, 50GPD, STD CHROME AG FAUCET	20
1340302-60-A	AQF PLAT QCRO4V-50, 50GPD, 50 MICRON CARBON, STD CHROME AG FAUCET	20
1340302-60-D	AQF PLAT QCRO4V-50, 50GPD, DELUXE CHROME AG VS888 FAUCET	20
1340303-60	AQF PLAT QCRO4V-75, 75GPD, STD CHROME AG FAUCET	20
1340303-60-A	AQF PLAT QCRO4V-75, 75GPD, 50 MICRON CARBON, STD CHROME AG FAUCET	20
1340303-60-D	AQF PLAT QCRO4V-75, 75GPD, DELUXE CHROME AG VS888 FAUCET	20
QCUF (QUICK CHANGE) ULTRAFILTRATION		
1340201-60	QCUF 4 STAGE, ULTRAFILTRATION, STD FAUCET	14
1340201-60-D	QCUF 4 STAGE, ULTRAFILTRATION, DELUXE CHROME AG VS888 FAUCET	14
1340201-60-A	QCUF 4 STAGE, ULTRAFILTRATION, STD FAUCET, 50 MICRON CARBON	14
1340201-60-A-D	QCUF 4 STAGE, ULTRAFILT,DELUXE CHROME AG VS888 FAUCET, 50µ CARBON	14
1340201-60-A-D-S	QCUF 4 STAGE, ULTRAFILT,DELUXE BRIGHT NICKEL AG VS888 FAUCET, 50µ CARBON	14
QC SINGLE FILTRATION SYSTEMS (C/W MOUNTING BRACKET)		
41407001-14	SEDQC1/4 SEDIMENT FILTER	1.5
41407002-14	CBQC1/4 CARBON BLOCK FILTER	1.5
41407006-14	CB50QC1/4 CARBON BLOCK FILTER - 50 MICRON	1.5
41407004-14	GACQC1/4 GAC CARBON FILTER	1.5
41407007-14	PHQC1/4 pH BOOSTER FILTER	1.5
41407005-14	UFQC1/4 ULTRA FILTRATION (HOLLOW FIBRE) MEMBRANE	1.5
41407009-14	CB1QC1/4 CARBON BLOCK FILTER - 1 MICRON	1.5
QUICK CHANGE REPLACEMENT FILTERS		
41407011	REPLACEMENT FILTER KIT FOR QCRO (1 SEDIMENT 41407001 / 2 CARBON BLOCK 41407002)	3
41407001	SEDIMENT FILTER	1
41407002	CARBON BLOCK FILTER	1
41407006	CARBON BLOCK FILTER -50 MICRON	1
41407004	GAC CARBON FILTER	1
41407007	pH BOOSTER FILTER	1
41407005	UF (HOLLOW FIBER) MEMBRANE	1
41407009	CARBON BLOCK - 1 MICRON	1
41407003	RO MEMBRANE 50 GPD	1
41407008	RO MEMBRANE 75 GPD	1

Aqua Flo Platinum 1240 Series

Aqua Flo Platinum 1240's advanced reverse osmosis drinking water systems are a natural and economical solution for providing your family with high quality drinking water. With a space-saving ultra slim profile, the system tucks neatly under your kitchen sink providing bottled water quality right from your very own tap.

All systems are backed by a two year limited warranty. The Smartap® water quality monitor found on the Push Button designated models is backed by a five year limited warranty.

Patented SmartTap® model provides a push button monitor alerting you when it is time to replace your RO membrane

All models feature:

- At a touch of the button, the Push Button Monitor option alerts you when it is time to change your filters.
- High quality reverse osmosis membrane
- Choice of 25, 50 and 75 gallons per day membranes
- Sediment pre-filtration
- Pre & Post Carbon block filtration
- 3/8" tubing from RO to tank and faucet for higher flow
- Chrome faucet
- Simple snap fit cover for ease of service
- New slim profile with integrated mounting bracket for easy, space saving installation
- Quick connect fittings
- Color coded tubing for ease of installation
- Metal 3.0 gal Storage Tank

"A natural and economical solution for providing your family with high quality drinking water."

Aqua Flo Platinum 1240 Series

4VTFC-PB Push Button

4VTFC

3VTFC

Booster Pump (R/O feed water line booster pump)

Raises the water pressure and maintains it at the ideal level for the system to operate at higher efficiency. Recommended for use on supplies with low pressure or high concentrations of total dissolved solids (TDS). The pump is self-priming and whisper-quiet. It runs on a 24VAC transformer (included) from a standard 120VAC electrical outlet.

System includes: Flexible mounting plate, quick connect fittings and a pressure shut-off switch.

Item #: 70030001
Model: RO Booster with Pressure Switch and Transformer for 50 & 75 Gallon per day Systems

NOTE: All units ship with Metal storage tank.

Model Description	Vessels	Sediment Filter	Pre-Filter	Membrane	Post-Filter	Rating GPD	Monitor	Dimensions H x W x D (in)
3VTFC50G	3	None	Dual-Purpose	TFC	Activated Carbon	50	None	11 x 15 x 3.75
4VTFC50G	4	String Wound Polypropylene	Activated Carbon	TFC	Activated Carbon	50	None	14 x 15 x 3.75
4VTFC75G	4	String Wound Polypropylene	Activated Carbon	TFC	Activated Carbon	75	None	14 x 15 x 3.75
4VTFC25G-PB	4	String Wound Polypropylene	Activated Carbon	TFC	Activated Carbon	25	Push Button	14 x 15 x 3.75
4VTFC75G-PB	4	String Wound Polypropylene	Activated Carbon	TFC	Activated Carbon	75	Push Button	14 x 15 x 3.75

Feed Water Guidelines	
Maximum TDS	2000 ppm
Hardness	<7gpg
Iron (Fe)	<0.2ppm
Manganese (Mn)	<0.05ppm
Hydrogen Sulfide	0.0ppm
Turbidity	<1.0NTU
Feed Water Pressure Booster Pump Models	40-100psi 15 – 60 psi
Temperature	40-100°F
pH Range	3.0-11.0

Note: Pretreatment suggested if conditions exceed parameters. Must be installed on potable water.

PART #	DESCRIPTION
AQUA FLO PLATINUM 1240 SERIES REVERSE OSMOSIS c/w 4.0 Gal Metal Storage Tank	
1240101-00	AQF PLAT 1240 3VTFC25G c/w Non-Air Gap Faucet, Metal Tank
1240102-00	AQF PLAT 1240 3VTFC50G c/w Non-Air Gap Faucet, Metal Tank
1240201-00	AQF PLAT 1240 4VTFC25G c/w Air-Gap Faucet, Metal Tank
1240202-00	AQF PLAT 1240 4VTFC50G c/w Air-Gap Faucet, Metal Tank
1240203-00	AQF PLAT 1240 4VTFC75G c/w Air-Gap Faucet, Metal Tank
1240301-00	AQF PLAT 1240 4VTFC25G c/w Air-Gap Faucet, Metal Tank & Push Button Monitor
1240302-00	AQF PLAT 1240 4VTFC50G c/w Air-Gap Faucet, Metal Tank & Push Button Monitor
1240303-00	AQF PLAT 1240 4VTFC75G c/w Air-Gap Faucet, Metal Tank & Push Button Monitor
1240 SERIES REPLACEMENT CARTRIDGES	
41407013	REPLACEMENT FILTER KIT FOR 1240 RO (1 SEDIMENT 41400008 / 2 CARBON BLOCK 41400009 / Wrench 21401240)
41400076	SEDIMENT/CARBON 'DUAL PURPOSE' FILTER FOR 3 VESSEL MODELS ONLY, BLUE CAP
41400008	STRING WOUND SEDIMENT FILTER FOR 4 VESSEL MODELS ONLY, BLACK CAP
41400009	PRE-CARBON FOR 4 VESSEL & POST CARBON FOR 3 & 4 VESSEL MODELS, BLUE CAP
555718-08	CARBON, AES, 50 MICRON, GREEN CAPS
41400010	LEAD REMOVAL 1 MICRON CARBON BLOCK (BLACK CAPS)
41400011	5S COCONUT CARBON BLOCK (WHITE CAPS)
1240 SERIES REPLACEMENT MEMBRANES	
33001068	25 GPD TFC MEMBRANE, YELLOW CASE, BLACK TAPE, FOR 1230/1240 SERIES
33001033	50 GPD TFC MEMBRANE, YELLOW CASE, WHITE TAPE, FOR 1230/1240 SERIES
33001056	75 GPD TFC MEMBRANE, YELLOW CASE, BLUE TAPE, FOR 1230/1240 SERIES
41400001	9 GPD CTA MEMBRANE (BLUE/YELLOW BAND)
41400002	15 GPD CTA MEMBRANE (BLUE/YELLOW BAND)
33001071	9 GPD TFC MEMBRANE (YELLOW/RED BAND) , FOR RO MODELS - 1230, 1240
41400004	15 GPD TFC MEMBRANE (YELLOW/YELLOW BAND) , FOR RO MODELS - 1230, 1240

Aqua Flo Reverse Osmosis System

Fast, Simple & Sanitary Maintenance!

Quick connect disposable cartridges and membrane make for easy 'Do-It-Yourself' maintenance. With built in auto water shut-offs there is no need to turn off the water supply prior to maintenance.

Because traditional systems require the disinfection of the permanent housing canisters and involve more direct human contact, maintenance can take as much as an hour and if not done properly can result in a contaminated system.

Disposable cartridges change in seconds and reduce contamination risk!

Features:

- Four stage filtration: 5 micron sediment pre-filter, 10 micron coconut carbon pre & post filters, quick connect 75 GPD NSF Certified TFC membrane
- Bayonet-style 1/4 turn quick connect disposable cartridges with auto water shut-off
- Includes non air-gap faucet and 3.0 gallon NSF Certified storage tank. (Air Gap & Designer Faucets Available)
- 3/8" tubing for high product flow rate from tank to faucet
- Quick connect fittings, inlet saddle and drain saddle, labelled tubing for easy installation
- Booster pump model with inlet solenoid raises water pressure to ideal level for maximum efficiency. Recommended on rural supplies with low pressure or high TDS
- Optional 10 micron carbon block and granular activated carbon filters available.
- Two year warranty (excluding consumable filter cartridges and RO membrane)
- Dimensions:
  13"w x 14-1/2"h x 4-1/2" d No Pump
  14-1/4"w x 16-1/2"h x 6-1/4"d Pump Model

Model Description	Stages	Sediment Filter	Pre-Filter	Membrane	Post-Filter	Rating GPD	Dimensions H x W x D (in)
Aqua Flo 475 PRO	4	5 Micron	10 Micron Coconut Carbon	TFC	10 Micron Coconut Carbon	75	14.5 x 13 x 4.5
Aqua Flo 475 PRO BP	4	5 Micron	10 Micron Coconut Carbon	TFC	10 Micron Coconut Carbon	75	16.5 x 14.5 x 6.25

Feed Water Guidelines	
Maximum TDS	2000 ppm
Hardness	<7gpg
Iron (Fe)	<0.2ppm
Manganese (Mn)	<0.05ppm
Hydrogen Sulfide	0.0ppm
Turbidity	<1.0NTU
Feed Water Pressure Booster Pump Models	40-100psi 15 – 60 psi
Temperature	40-100°F
pH Range	3.0-11.0
Note: Pretreatment suggested if conditions exceed parameters. Must be installed on potable water.	

IN CANADA

PART #	DESCRIPTION
AQUA FLO 475 PRO SERIES REVERSE OSMOSIS	
20010023	AQF 475 PRO SERIES RO c/w NON-AIR GAP FAUCET
20010024	AQF 475 PRO SERIES RO w/ BOOSTER PUMP c/w NON-AIR GAP FAUCET
20010025	AQF 475 PRO SERIES RO c/w AIR GAP FAUCET
20010026	AQF 475 PRO SERIES RO w/ BOOSTER PUMP c/w AIR GAP FAUCET

IN U.S.A.

PART #	DESCRIPTION
AQUA FLO 475 PRO SERIES REVERSE OSMOSIS	
20010024	AQF PREMIUM 475 PRO RO, 75 GPD, NSF 3.2 Storage Tank
20010025	AQF PREMIUM 475 PRO RO w/Booster Pump,75GPD, NSF 3.2 Storage Tank
20010021	AQF 475 PRO RO, 75 GPD, NSF 3.2 Storage Tank
20010022	AQF 475 PRO RO w/Booster Pump,75GPD, NSF 3.2 Storage Tank

NOTE: PREMIUM includes VS905 Satin Nickel Designer Faucet & Shut-off Kit, JG Undersink angle stop, lead free 3/8". NON-PREMIUM includes a standard chrome faucet and saddle valve

Aqua Flo Under Sink Filtration Systems

475QC Filters

The 475 Quick Change Filter Series offers 3, 2 & Single Stage options to provide solutions for a variety of water problems including sediment, rust, bad taste & odor.

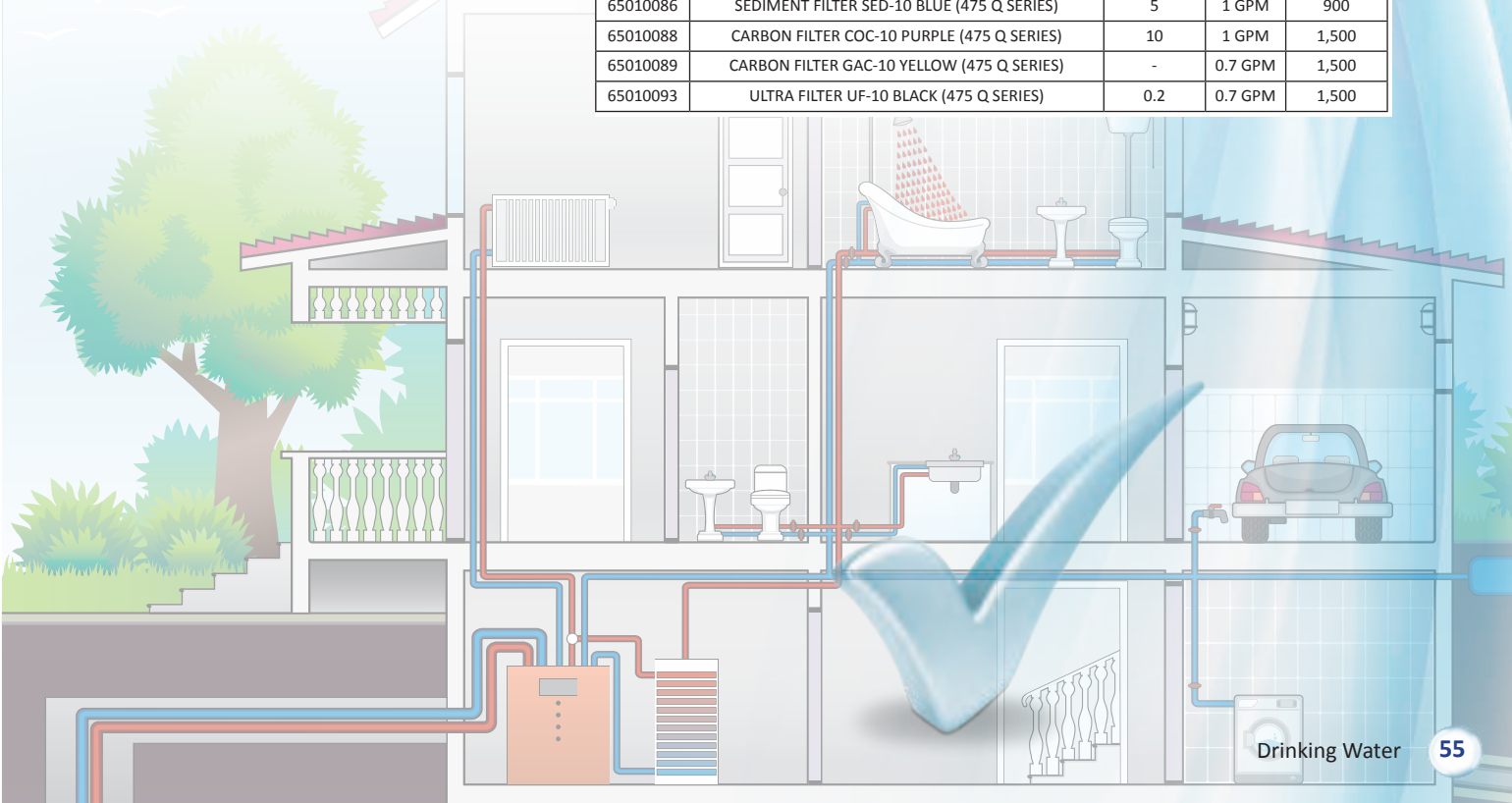
Features & Benefits:

- Low cost alternative to RO
- No reject water (100% water used)
- Leaves nutrients in water
- Ultra Filtration on system removes lead, VOC (pesticides, herbicides, chemicals), THM, chlorine, taste and odor and sediment down to 0.2 microns.
- Installation is quick and easy
- Quick change bayonet-style disposable cartridges are more sterile and can be changed in seconds
- Includes standard chrome faucet, inlet saddle valve, and 5ft ¼" tubing
- No storage tank required
- Dimensions:
  - 3 stage - 11.8"w x 14.3"h x 4.5"d
  - 2 stage - 6.3"w x 13.4"h x 3.9"d
  - 1 stage - 2.8"w x 12.4"h x 3.2"d

Change filters in seconds without turning off water! No tools required!

475 QC Series Filter Systems				
PART #	**DESCRIPTION**	**Filter 1**	**Filter 2**	**Filter 3**
20010201	475QC-3 TRIPLE STAGE ULTRA FILTER	SED	UF	COC
20010202	475QC-2 DOUBLE STAGE DUAL FILTER	SED	COC	
20010203	475QC-1C SINGLE STAGE COCONUT CARBON FILTER	COC		
20010204	475QC-1S SINGLE STAGE SEDIMENT FILTER	SED		
20010205	475QC-1G SINGLE STAGE GAC FILTER	GAC		

475 QC Series Replacement Filters				
PART #	**DESCRIPTION**	**MICRON**	**FLOW RATE**	**CAPACITY (GALLONS)**
65010086	SEDIMENT FILTER SED-10 BLUE (475 Q SERIES)	5	1 GPM	900
65010088	CARBON FILTER COC-10 PURPLE (475 Q SERIES)	10	1 GPM	1,500
65010089	CARBON FILTER GAC-10 YELLOW (475 Q SERIES)	-	0.7 GPM	1,500
65010093	ULTRA FILTER UF-10 BLACK (475 Q SERIES)	0.2	0.7 GPM	1,500



Aqua Flo Economy Reverse Osmosis System

With the quality of our drinking water increasingly coming under question, people are now looking for alternative sources of quality water. Reverse Osmosis Drinking Water Systems provide the most convenient and economical solution.

Neatly stored under the counter, the Reverse Osmosis Drinking Water System provides you with clean and delicious water right from its own dedicated tap.

Features:

- The sediment filter screens out particulate material, such as dirt, sand, or rust, which may clog the other filters in the system.
- The activated carbon prefilter reduces chlorine which may damage the RO membrane filter.
- NSF Certified TFC 75 GPD reverse osmosis membrane provides up to 99% Total Dissolved Solids (TDS) rejection
- The polishing filter adsorbs any residual tastes and odors just before the water is delivered through the faucet.
- 3.2 Gallon NSF Certified plastic storage tank
- 3/8'' outlet tubing for higher flows
- Automatic shut-off valve
- Exclusive serviceable check valve eliminates spring 'chatter' noise common in other RO's
- Quick connect fittings for ease of installation
- Plastic bracket
- Two separate wrenches for use on membrane cap and sump

Booster Pump Model also includes:

- Pump mounted on RO to maintain constant water pressure to membrane
- Raises water pressure to ideal level for maximum efficiency
- Use on rural supplies with low pressure or highTDS
- Exclusive Auto Flush feature extends membrane life
- Self-priming and whisper quiet
- 24VAC transformer (included) from a standard 120VAC electrical outlet
- Flexible mounting plate, quick connect fittings and pressure shut-off switch

Booster Pump
Model: RO75BP

PART #	DESCRIPTION	Stage 1	Stage 2 and 3	Stage 4	Stage 5	Storage Tank	Faucet
20010073	RO75	Sediment Filter	Activated Carbon Block Filter	Reverse Osmosis Membrane	Activated Carbon Polishing Filter	Plastic Tank - 3.2 Gallons	Standard Non-AirGap
20010074	RO75BP *					Plastic Tank - 3.2 Gallons	

PART #	DESCRIPTION
AQUA FLO ECONOMY SERIES REVERSE OSMOSIS SYSTEM	
20010073	5 STAGE RO-75, 75 GPD, NSF 3.2 PLASTIC STORAGE TANK
20010074	5 STAGE RO-75 W/BOOSTER PUMP, 75 GPD, NSF 3.2 PLASTIC STORAGE TANK
ECONOMY SERIES REPLACEMENT CARTRIDGES	
60010689	ECONOMY 5 STAGE RO REPLACEMENT KIT (Includes: 26196 (2), 26222, 92020, 60010691)
26196	CB-10-10 CARBON BLOCK, 2.5" X 10", Micron: 10
26222	SPB-5-10 SEDIMENT PRE FILTER, PP, SPUN POLY BONDED, 2.5" X 10", Micron: 5
92020	CARTRIDGE, IN-LINE GAC CARBON, 2" x 10", 1/4" QC, Micron: 5
60010691	WRENCH, RO 75, 5 STAGE
92022	AQFP-1812-75-NPI, 75 GPD TFC MEMBRANE NSF CERTIFIED

Feed Water Guidelines	
Pressure	40 - 100 psi
Temperature	40 - 77 ºF
Total Dissolved Solids (TDS)[1]	0 - 2500 ppm (0 - 2500 mg/L)
pH	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

Aqua Flo 75GPD H.E.R.O.™ High Efficiency RO System

With the quality of our drinking water increasingly coming under question, people are now looking for alternative sources of quality water. Reverse Osmosis Drinking Water Systems provide the most convenient and economical solution.

The HIGH EFFICIENCY REVERSE OSMOSIS (HERO) SYSTEM Virtually wastes no water with over 99.9% recovery.

Comparable systems typically waste 4-12 gallons for every gallon of RO water produced.

25020189 Kit, Tank, Recirculation, H.E.R.O.™
Applied when the H.E.R.O.™ is installed under a kitchen sink or in a slab home without a basement. This tank provides blending of the HERO recirculated water and helps keep the system operating at its peak performance.

Feed Water Guidelines	
Pressure	30 - 70 psi
Temperature	40 - 77 ºF
Total Dissolved Solids (TDS)[1]	0 - 2500 ppm (0 - 2500 mg/L)
pH	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	<0.2 ppm (<0.2 mg/l)
Bacterial Quality	Potable

Features:

- Heavy duty glass filled polypropylene construction provides double the strength, toughness & durability compared to most other RO's which are typically constructed with ABS.
- TFC 75 GPD reverse osmosis membrane provides up to 99% Total Dissolved Solids (TDS) rejection
- Pre-filters 10'' five (5) micron Spun Polypropylene Sediment Cartridge and 10'' Activated Carbon Cartridge
- Post filter: 10'' Activated Carbon Cartridge
- Choose from air gap or non-air gap chrome plated faucets
- 3.0 Gallon NSF Certified plastic storage tank
- 3/8'' outlet tubing for higher flows
- Automatic shut-off valve
- Exclusive serviceable check valve eliminates spring 'chatter' noise common in other RO's
- Quick connect fittings for ease of installation
- Powder coated bracket
- Dual purpose wrench for use on membrane cap and filter housing
- Dimensions: 15.0"w x 17.7"h x 6.9"d Pump Model

NSF

This Membrane is Tested and Certified by NSF International against NSF/ANSI Standard 58 for material requirements only.

COMPONENT

Model #	Part #	Stage 1	Stage 2	Stage 3	Stage 4	Storage Tank	Faucet
HERO	20010075	Sediment Filter	Activated Carbon Block Filter	Reverse Osmosis Membrane	Activated Carbon Polishing Filter	Plastic Tank - 3.8 Gallons	Chrome - Standard

Aqua Flo RO Filter Cartridge Replacement Kits

The NEW Aqua Flo Filter Cartridge Replacement Kits provide you with one convenient package for regularly required Aqua Flo Reverse Osmosis System filter changes. The Economy 4 and 5 Stage use 10” filters compatible with most competitive systems.

AQUA FLO® PLATINUM

41407011

QCRO Reverse Osmosis

Filter Cartridge Replacement Kit

Kit contents:

- Two (2) Aqua Flo Platinum QCRO Carbon Block Replacement Filters (Item #41407002, QC Disposable)
- One (1) Aqua Flo Platinum QCRO Sediment Replacement Filter (Item #41407001,QC Disposable)

AQUA FLO® PLATINUM

41407013

1240 Reverse Osmosis

Filter Cartridge Replacement Kit

Kit contents:

- Two (2) Aqua Flo Platinum 1240 Carbon Block Replacement Filters (Item #41400009, Blue Cap)
- One (1) Aqua Flo Platinum 1240 String Wound Sediment Replacement Filter (Item #41400008,Black Cap)
- One (1) Aqua Flo 1240 Sump Wrench (Item #21401240)

AQUA FLO®

41407012

475 Reverse Osmosis

Filter Cartridge Replacement Kit

Kit contents:

- Two (2) Aqua Flo 475 Carbon (Q Series COC-Purple) Replacement Filters (Item #65010088, QC Disposable)
- One (1) Aqua Flo 475 Sediment (Q Series Blue) Replacement Filter (Item #65010086, QC Disposable)

AQUA FLO®

60010688

4 Stage Reverse Osmosis

Filter Cartridge Replacement Kit

Kit contents:

- Two (2) Aqua Flo Carbon Block Replacement Filters (Item #26196, 2.5”x10”, 10 Micron)
- One (1) Aqua Flo Spun Poly Bonded Sediment Replacement Filter (Item #26222, 2.5”x10”, 5 Micron)
- One (1) Aqua Flo Sump Wrench (Item #60010691)

AQUA FLO®

60010689

5 Stage Reverse Osmosis

Filter Cartridge Replacement Kit

Kit contents:

- Two (2) Aqua Flo Carbon Block Replacement Filters (Item #26196, 2.5”x10”, 10 Micron)
- One (1) Aqua Flo Spun Poly Bonded Sediment Replacement Filter (Item #26222, 2.5”x10”, 5 Micron)
- One (1) Aqua Flo In-Line GAC Replacement Filter (Item #92020, 2”x10”, 1/4” QC)
- One (1) Aqua Flo Sump Wrench (Item#60010691)

Aqua Flo Residential Reverse Osmosis Membranes

AquaFlo residential reverse osmosis membranes provide reliable, consistent high quality performance at the lowest possible cost!

This Membrane is Tested and Certified by NSF International against NSF/ANSI Standard 58 for material requirements only.

COMPONENT

Advanced Technology:

- **Fully automated, state-of -the–art production facility with 1,000,000 annual production capability**
- **Tightly controlled, sanitary environment. Strict temperature and moisture levels are maintained to ensure optimal quality**

Features:

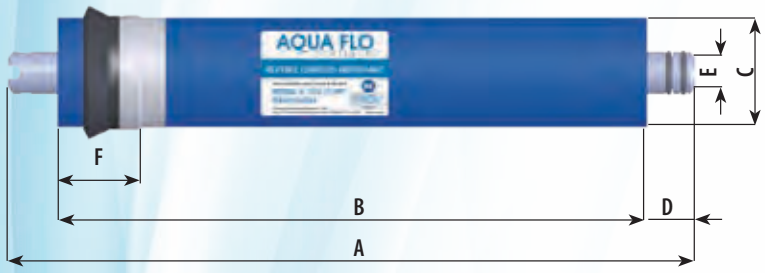
- **AquaFlo Platinium (NPI models)** made with high quality Polyamide Thin-Film Composite GE fabric (Made in the USA)
- **AquaFlo Value (NPD Models)** made with high quality Polyamide Thin-Film Composite house fabric
- Superior quality and cost savings
- 50, 75 & 100 GPD membranes
- Dry shipped for convenient handling and longer shelf life
- Individually inspected, qualified & vacuum tested
- Vacuum packaged, 25 membranes per case
- All membranes conform to NSF/ANSI Standard 58 for material requirements only
- Private label option (MOQ 300)

WATCH THE VIDEO

Check out the Automated RO Production Line Video

www.novowater.com/video2.asp

Aqua Flo Residential Reverse Osmosis Membranes



NSF COMPONENT

This Membrane is Tested and Certified by NSF International against NSF/ANSI Standard 58 for material requirements only.

DIMENSIONS	A		B		C		D		E		F	
Type model	(in.)	(mm.)	(in.)	(mm.)	(in.)	(mm.)	(in.)	(mm.)	(in.)	(mm.)	(in.)	(mm.)
1812-50-NPI	11.74	298	10.08	256	1.65	42	0.83	21	0.67	17	1.38	35
1812-75-NPI	11.74	298	10.08	256	1.77	45	0.83	21	0.67	17	1.38	35
1812-50-NPD	11.74	298	10.08	256	1.65	42	0.83	21	0.67	17	1.38	35
1812-75-NPD	11.74	298	10.08	256	1.77	45	0.83	21	0.67	17	1.38	35

Model Terminology

Example of product type model specification : 1812-50-NPI

18 — OD of membrane element, 1.8"
12 — Length of membrane element, 12"
50 — Average Permeate Flow, 50GPD
NPI or NPD — Model of membrane sheet

Operating & Cleaning Limits

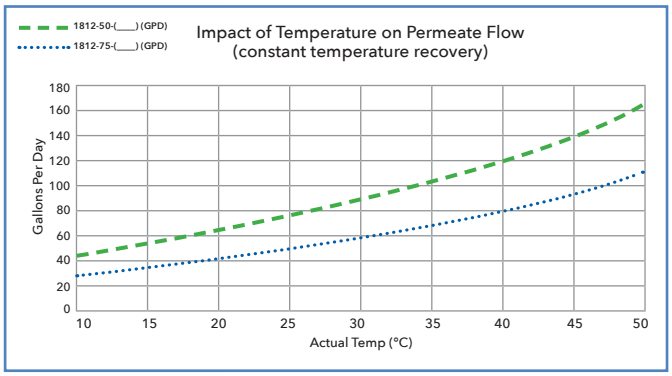
Maximum Operating Temperature[1]	113°F (45°C)
Maximum Operating Pressure	150 psig (10 bar)
Maximum Feed Flow Rate	2.0 gpm (7.6 lpm)
pH Range, Continuous Operation[1]	2 - 11
Maximum FeedSilt Density Index (SDI)	SDI 5
Free Chlorine Tolerance[2]	< 0.1 ppm

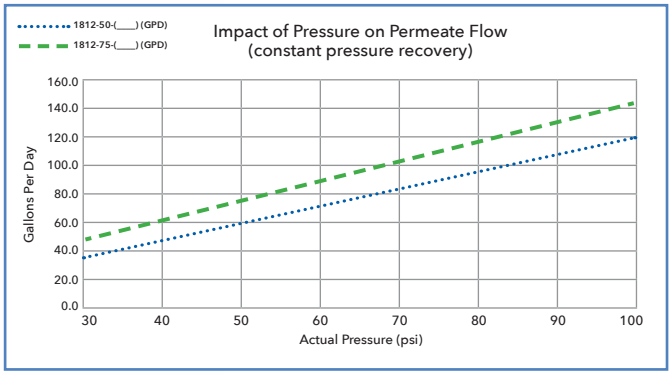
1. Maximum temperature for continuous operation above pH 10 is 95°F (35°C).
2. Under certain conditions, the presence of free chlorine and other oxidizing agents will cause premature membrane failure. Since oxidation damage is not covered under warranty, Canature WaterGroup Inc. recommends removing residual free chlorine by pre-treatment prior to membrane exposure.

Product Specifications

Model	Applied Pressure		Permeate Flow Rate		Typical Stabilized Salt Rejection (%)
	(psig)	(bar)	GPD	(l/h)	
1812-50-NPI	60	4.14	50	7.9	96
1812-75-NPI	60	4.14	75	11.8	96
1812-50-NPD	60	4.14	50	7.9	96
1812-75-NPD	60	4.14	75	11.8	96

1. Permeate flow and salt rejection based on the following conditions: 250 ppm softened tap water, 77° F (25° C), 15% recovery and the specified applied pressure.
2. Minimum salt rejection is 96%
3. Permeate flows for individual elements may vary +/- 20%.





Additional Important Information:

- **Inspect packaging is in good condition before usage. Store in cool, dry place out of direct sunlight. Avoid freezing.**
- **It is recommended that systems using these elements rinse the elements for 24 hours, prior to first use, to meet NSF/ANSI 58 Standard.**
- **The first full tank of permeate must be discarded. Do not use this initial permeate for drinking water or food preparation.**
- **To ease installation, it is recommended to use a lubricant safe for indirect water contact on all seals. Potential options include water and glycerin based lubricants.**
- **Rotate the element about a quarter turn to ease installation and removal of the element. Ensure good interface between the o-rings and brine seal with their connection surfaces.**
- **Keep elements moist at all times after initial wetting.**
- **To prevent biological growth during prolonged system shutdowns, it is recommended that membrane elements be immersed in a preservative solution. Rinse out the preservative before use.**
- **The membrane shows some resistance to short-term attack by chlorine (hypochlorite). Continuous exposure, however, may damage the membrane and should be avoided.**
- **If operating limits and guidelines given in this Product Information Bulletin are not strictly followed, the Limited 1 Year Warranty will be null and void. Use of any such chemicals or lubricants will void the Limited Warranty.**

PART #	DESCRIPTION
RESIDENTIAL RO MEMBRANES (NSF CERTIFIED)	
AQUAFLO PLATINUM (GE Membrane sheet Made in USA)	
92035	AQFP-1812-50-NPI, 50 GPD TFC MEMBRANE NSF CERTIFIED
92022	AQFP-1812-75-NPI, 75 GPD TFC MEMBRANE NSF CERTIFIED
92092	AQFP-1812-100-NPI, 100 GPD TFC MEMBRANE NSF CERTIFIED
AQUAFLO VALUE	
92094	AQF-1812-50-NPD, 50 GPD TFC MEMBRANE NSF CERTIFIED
92095	AQF-1812-75-NPD, 75 GPD TFC MEMBRANE NSF CERTIFIED
92093	AQF-1812-100-NPD, 100 GPD TFC MEMBRANE NSF CERTIFIED

Designer RO Faucets

Designer RO faucets are a stylish addition to any kitchen. The NSF Certified lead-free ceramic disk faucets are available in many attractive finishes to coordinate with any decor. The faucets feature lead-free plastic water passages and lead-free brass gooseneck spouts that swivel 360 degrees for ease of use.

Specifications	VS888	VS905
Height	11.5" (292mm)	11.075" (281.32mm)
Spout Reach	5.7" (146mm)	4.75" (120mm)
Mounting Hole Diameter	1/2" (12.5mm)	1/2" (12.5mm)
Base Diameter	1.73" (44mm)	1.76" (44.8mm)
Connection	1/4" compression nut fitting	1/4" compression nut fitting
Operating Pressure	125 PSI/8.3BAR	125 PSI/8.3BAR
Flow Rate	1.0 gpm/3.785lpm @35 PSI/2.32BAR	1.0 gpm/3.785lpm @35 PSI/2.32BAR
Temp Rating	4°C/40°F to 70°C/158°F	4°C/40°F to 70°C/158°F
Warranty	2 Years	2 Years

* All mounting hardware included. A 3/8" quick connect faucet adapter fitting (#PP3212U7W) can be purchased seperately.

VS888

VS905

PART #	DESCRIPTION
87588	Faucet, VS888, Antique Brass
87589	Faucet, VS888, Antique Wine
87581	Faucet, VS888, Brushed Nickel
87580	Faucet, VS888, Polished Chrome
87585	Faucet, VS888, Satin Nickel
87584	FAUCET, VS888, BLACK
70040045	Faucet, VS905, Antique Brass
70040054	Faucet, VS905, Antique Wine
87583	Faucet, VS905, Brushed Nickel
87587	Faucet, VS905, Oil Rubbed Bronze
87582	Faucet, VS905, Polished Chrome
87591	Faucet Colour Sample Display
92710	Stand, Display

Color Sample Display
#87591

RO Booster Pumps

PAB8800 Series High Flow Booster Pump

Key Operational Benefits:

- Boosts pressure 40 to 120 psi (adjustable)
- Used with membranes 50 to 120 GDP
- 15,000+ operating hours (estimated)
- Quiet – less than 52 DBA
- Can run dry without damage

Features:

- Toughest, most durable pump on the market
- Adjustable max. outlet psi (regardless of feed pressure)
- Expels trapped air (no more air locks)
- Can be mounted with pump head up or horizontal
- More flow at extremely low inlet pressures
- New motor venting system to remove moisture
- EMI/RFI electronic noise suppression
- 100% final performance tested
- Available in 12VDC and 24VDC

Aquatec 5800 Demand Pump

OPERATION: The 5800 pump can draw water from a holding tank and pressurize it, or boost the pressure from a low pressure source. They are designed to operate intermittently, but most versions can run continuously for several hour intervals. The pumps can be operated in demand mode controlled by an integral pressure switch, or in delivery mode controlled by an external power switching device. An integral bypass may be used to limit pressure.

POWER: 115V PSI: 60 GPM: 0.9

MOUNTING: A steel mounting base with four hollow rubber grommets is standard and included at no extra cost. The pump may be mounted in any position.

FITTINGS: The 5800 pump is offered with integral John Guest style quick connect fitting for 3/8” OD semi rigid tubing.

KemFlo MD1050 Booster Pump

DESCRIPTION: 110/230 VAC, 75 GPD Booster pump 1.0 L.min, suitable for applications with 24VDC transformer

SPECIFICATIONS: Kemflo MD Series booster pump with 3/8” FNPT, made from NSF grade material high power flow rate and quality.

Meet ROHS standard.

PART #	DESCRIPTION
92325	KF - BOOSTER PUMP - MD1050
92317-1	AQUATEC MODEL PAB8800 BOOSTER PUMP
92341	AQUATEC MODEL PD5800 DEMAND PUMP
70030035	RO-75 BOOSTER PUMP

Reverse Osmosis Storage Tanks

Flexwave is a line of RO accumulators and storage tanks for residential and light commercial applications.

Flexwave tanks are made in the USA and built to comply wiith NSF/ANSI Std 61. All Flexwave tanks have a 5 year warranty.

NSF COMPONENT

 # 70031000 Quick Connect Ball Valve Assembly
reduces 1'' tank connection to John Guest Quick Connect RO ball valve 1/4'' to 3/8'' tubing.

Larger sizes available. Please contact Customer Service for details.

Tank precharge 20 PSI

Maximum Pressure 125 PSI

Maximum working temperature, internal & external 120F

Materials of Construction

Tank top and bottom domes injection molded copolymer polypropylene. Shell extruded Polypropylene. Outer shell composite construction with fiberglass coated with epoxy resin. Base is injection molded high-impact ABS. 100% butyl diaphragm connected to a copolymer polypropylene bottom water chamber which allows for complete evacuation of the water chamber.

Dimensions & Capacities

PART #	DESCRIPTION	Total Tank Volume		Height		Diameter		Connection	Total Weight	
		Gallons	Litres	In	Cm	In	Cm	In	Lbs	Kilos
33335	**FWRO15**	15 Gal	56.8	25.6	65	16.5	42	1" NPT	19	8.6
33336	**FWRO22**	22 Gal	83.3	34.1	87	16.5	42	1" NPT	25	11.3

Quick Sizing Chart

PART #	DESCRIPTION	Total Tank Volume		Total Drawdown			
				10/50		10/60	
		Gallons	Litres	Gallons	Litres	Gallons	Litres
33335	**FWRO15**	15 Gal	56.8	9.3	35.2	10	37.9
33336	**FWRO22**	22 Gal	83.3	13.6	51.5	14.7	55.6

Customized Drinking Water

AQUA FLO®

Aqua Flo Ultraviolet Disinfection Systems

Aqua Flo Gen 4 Residential Systems:
Genesis H2O: Ultraviolet Disinfection System

A Security System For Your Water

UV technology provides additional security for your water supply. It is proven to control microbiological (bacteria & virus) issues in water including ***E.coli, Cryptosporidium, and Giardia Lamblia*** without the use of chemicals.

Gen 4 Residential Systems

Features:

- Now available with integral lamp life monitor, with both audible and visual indication of lamp life
- Axial flow, 304 stainless steel, polished reactors
- Visual sight port for "lamp-on" verification
- Designed & manufactured to ASME pressure vessel standards
- Flow rates stated at 95% UVT at a dose of 30mJ/cm2
- User friendly bayonet style lamp connector (quick ¼ turn removal with no extra tools needed)
- True gland seal retaining nut with positive stop
- Reliable, industry proven low pressure (LP) coated UV lamps with ceramic bases for durability and a 9,000 hour life (1 year)
- Constant current electronic controller (one controller for all systems) in a splash-proof case with audible and visual lamp failure indicators
- New tactile selector button
- Warranty (refer to Owner's Manual for complete details including conditions & exclusions):
  - Reactor Chamber – Ten (10) Year Limited
  - Electronics – Three (3) Year Limited
  - UV Lamps – One (1) Year Limited
  - Quartz Sleeves – One (1) Year Limited

AQUA FLO®

Guidelines for Use

Parameter	Level
Hardness	< 7 gpg (120 mg/L)
Iron (Fe)	< 0.3ppm (mg/L)
Manganese (Mn)	< 0.05ppm (mg/L)
Tannins	< 0.1ppm (mg/L)
Turbidity	< 1 NTU
Transmittance (UVT)	> 75%

AQUA FLO®

AQUA FLO GEN EQUIPMENT SPECIFICATIONS

Multi-Use / Residential systems (standard output lamps)

MODEL	GEN4-2 40030055	GEN4-3 40030056	GEN4-6 40030057	GEN4-10 40030058	GEN4-15 40030059	GEN4-20 40030060
Flow Rate 16mJ/cm$_2$ @ 95% UVT	3.8 gpm	6.1 gpm	11 gpm	20 gpm	30 gpm	39 gpm
	15 lpm	23 lpm	41 lpm	77 lpm	110 lpm	150 lpm
	0.87 m$_3$/hr	1.4 m$_3$/hr	2.5 m$_3$/hr	4.6 m$_3$/hr	6.8 m$_3$/hr	8.9 m$_3$/hr
Flow Rate 30mJ/cm$_2$ @ 95% UVT	2.0 gpm	3.1 gpm	5.8 gpm	11 gpm	15 gpm	21 gpm
	7.7 lpm	11 lpm	23 lpm	41 lpm	57 lpm	79 lpm
	0.46 m$_3$/hr	0.70 m$_3$/hr	1.3 m$_3$/hr	2.5 m$_3$/hr	3.4 m$_3$/hr	4.8 m$_3$/hr
Flow Rate 40mJ/cm$_2$ @ 95% UVT	1.6 gpm	2.4 gpm	4.4 gpm	8.3 gpm	12 gpm	16 gpm
	6.1 lpm	9.1 lpm	17 lpm	31 lpm	45 lpm	59 lpm
	0.36 m$_3$/hr	0.50 m$_3$/hr	1.0 m$_3$/hr	1.9 m$_3$/hr	2.7 m$_3$/hr	3.6 m$_3$/hr
Port Size	½"FNPT	½"MNPT	¾"MNPT	¾"MNPT	1"MNPT	1"MNPT
Electrical	90-265V/50-60Hz. 1A Max.					
Lamp Power (Watts)	8	15	22	39	50	42
Power (Watts)	14	20	30	49	62	51
Replacement Lamp	40040113	40040013	40040014	40040015	40040017	40040016
Replacement Sleeve	40040039	40040040	40040043	40040045	40040047	40040046
Reactor Dimensions	6.4 x 26.2 cm (2.5 x 10.3")	6.4 x 36.4 cm (2.5 x 14.3")	6.4 x 54.2 cm (2.5 x 21.3")	6.4 x 89.5 cm (2.5 x 35.2")	6.4 x 101.6 cm (2.5 x 40.0")	8.9 x 91.7 cm (3.5 x 36.1")
Chamber Material	304 Stainless Steel, A249 Pressure Rated Tubing					
Controller Dimensions	17.2 x 9.2 x 10.2 cm (6.8 x 3.6 x 4")					
Operating Pressure	17.2 x 9.2 x 10.2 cm (6.8 x 3.6 x 4")					
Operating Water Temperature	2-40° C (36-104° F)					
Temperature Mgmt. Valve	NA	PN# 130131	PN# 130132		PN# 130133	
Lamp Change Reminder	YES					
Lamp Out Indicator	YES					
Shipping Weight	2.9 kg (6.3 lbs)	3.6 kg (7.9 lbs)	4.4 kg (9.6 lbs)	6.0 kg (13.2 lbs)	6.5 kg (14.4 lbs)	8.2 kg (18.0 lbs)

REPLACEMENT PARTS

System	Lamps	Sleeves	Controller
Aqua Flo Gen 4-2	RL-290 #40040013	RQ-290 #40040039	RC-B4.01 #40040112
Aqua Flo Gen 4-3	RL-290 #40040013	RQ-290 #40040040	RC-B4.01 #40040112
Aqua Flo Gen 4-6	RL-470 #40040014	RQ-470 #40040043	RC-B4.01 #40040112
Aqua Flo Gen 4-10	RL-820 #40040015	RQ-820 #40040045	RC-B4.01 #40040112
Aqua Flo Gen 4-15	RL-999 #40040017	RQ-999 #40040047	RC-B4.01 #40040112
Aqua Flo Gen 4-20	RL-850 #40040016	RQ-850 #40040046	RC-B4.01 #40040112

Aqua Flo Gen H4 Residential Systems:
Genesis H2O: Ultraviolet Disinfection System

A Security System For Your Water

UV technology provides additional security for your water supply. It is proven to control microbiological (bacteria & virus) issues in water including ***E.coli, Cryptosporidium, and Giardia Lamblia*** without the use of chemicals.

Gen H4 Residential Systems

Features:

- Now available with integral lamp life monitor, with both audible and visual indication of lamp life
- Axial flow, 316 stainless steel, polished reactors
- Visual sight port for "lamp-on" verification
- Designed & manufactured to ASME pressure vessel standards
- Flow rates stated at 95% UVT at a dose of 30mJ/cm2
- User friendly bayonet style lamp connector (quick ¼ turn removal with no extra tools needed)
- True gland seal retaining nut with positive stop
- Reliable, industry proven low pressure (LP) coated UV lamps with ceramic bases for durability and a 9,000 hour life (1 year)
- Constant current electronic controller (one controller for all systems) in a splash-proof case with audible and visual lamp failure indicators
- New tactile selector button
- Warranty (refer to Owner's Manual for complete details including conditions & exclusions):
  - Reactor Chamber – Ten (10) Year Limited
  - Electronics – Three (3) Year Limited
  - UV Lamps – One (1) Year Limited
  - Quartz Sleeves – One (1) Year Limited

Guidelines for Use

Parameter	Level
Hardness	< 7 gpg (120 mg/L)
Iron (Fe)	< 0.3ppm (mg/L)
Manganese (Mn)	< 0.05ppm (mg/L)
Tannins	< 0.1ppm (mg/L)
Turbidity	< 1 NTU
Transmittance (UVT)	> 75%

AQUA FLO®

AQUA FLO®	AQUAFLO GEN EQUIPMENT SPECIFICATIONS				
	Residential Crossover systems (high output lamps)				
MODEL	**GENH4-5 40040076**	**GENH4-10 40040077**	**GENH4-15 40040078**	**GENH4-25 40040080**	**GENH4-40 40040081**
Flow Rate 30mJ/cm$_2$ @ 95% UVT	4.0 gpm	10 gpm	14 gpm	25 gpm	40 gpm
	15 lpm	38 lpm	53 lpm	95 lpm	150 lpm
	1.1 m$_3$/hr	2.3 m$_3$/hr	3.2 m$_3$/hr	5.7m$_3$/hr	9.1m$_3$/hr
Flow Rate 40mJ/cm$_2$ @ 95% UVT	3.0 gpm	7.0 gpm	11 gpm	19 gpm	31 gpm
	11 lpm	26 lpm	42 lpm	72 lpm	120 lpm
	0.68 m$_3$/hr	1.6 m$_3$/hr	2.5 m$_3$/hr	4.3 m$_3$/hr	7.0 m$_3$/hr
Flow Rate Hot Water (-HW suffix) model 30mJ/cm$_2$ @ 75% UVT	2.8 gpm	7.0 gpm	9.8 gpm	16 gpm	28 gpm
	11 lpm	26 lpm	37 lpm	61 lpm	110 lpm
	0.6 m$_3$/hr	1.6 m$_3$/hr	2.2 m$_3$/hr	3.6 m$_3$/hr	6.4 m$_3$/hr
Flow Rate Low UVT (-50 suffix) model 30mJ/cm$_2$ @ 50% UVT	1.7 gpm	4.2 gpm	6.1 gpm	10 gpm	17 gpm
	6.4 lpm	16 lpm	23 lpm	38 lpm	64 lpm
	0.4 m$_3$/hr	1.0 m$_3$/hr	1.4 m$_3$/hr	2.3 m$_3$/hr	3.9 m$_3$/hr
Flow Rate TOC (-TOC suffix) model 150mJ/cm$_2$ @ 98% UVT	0.8 gpm	2.0 gpm	2.8 gpm	5.1 gpm	8.0 gpm
	3.0 lpm	7.6 lpm	11 lpm	19 lpm	30 lpm
	0.2 m$_3$/hr	0.5 m$_3$/hr	0.6 m$_3$/hr	1.1 m$_3$/hr	1.8 m$_3$/hr
Port Size	¾”MNPT	¾”MNPT	1”MNPT	1”MNPT	1 ½”MNPT
Electrical	90-265V/50-60Hz. 1.5A Max.				
Lamp Power (Watts)	18	34	45	67	101
Power (Watts)	20	36	48	72	108
Replacement Lamp	40040018	40040019	40040020	40040021	40040022
Replacement Sleeve	40040039	40040041	40040042	40040044	40040047
Reactor Dimensions	8.9 x 29.8 cm (3.5 x 11.7”)	8.9 x 41.8 cm (3.5 x 16.5”)	8.9 x 50.8 cm (3.5 x 20.0”)	8.9 x 68.3 cm (3.5 x 26.9”)	8.9 x 103.4 cm (3.5 x 40.7”)
Chamber Material	316L Stainless Steel, A249 Pressure Rated Tubing				
Controller Dimensions	21.7 x 10.8 x 10.2 cm (8.6 x 4.2 x 4”)				
Operating Pressure	0.7-10.3 bar (10-150 psi)				
Operating Water Temperature	2-40° C (36-104° F)				
Temperature Mgmt. Valve	PN# **40040099**		PN# **40040100**		PN# **40040101**
Lamp Change Reminder	YES				
Lamp Out Indicator	YES				
Shipping Weight	4.4 kg (9.7 lbs)	5.2 kg (11.5 lbs)	5.6 kg (12.9 lbs)	7.0 kg (15.5 lbs)	9.6 kg (21.1 lbs)

Options

UV Sensor Module
Allows the 254nm UV wavelength to be measured and displayed via the GEN-H4 controller.

REPLACEMENT PARTS

System	Lamps	Sleeves	Controller
Aqua Flo Gen H4-5	RL-290 #40040018	RQ-290 #40040039	RC-B4.01 #40040112
Aqua Flo Gen H4-10	RL-290 #40040019	RQ-290 #40040041	RC-B4.01 #40040112
Aqua Flo Gen H4-15	RL-470 #40040020	RQ-470 #40040042	RC-B4.01 #40040112
Aqua Flo Gen H4-25	RL-820 #40040021	RQ-820 #40040044	RC-B4.01 #40040112
Aqua Flo Gen H4-40	RL-999 #40040022	RQ-999 #40040047	RC-B4.01 #40040112

Aqua Flo Gen 5 Residential Systems:
Genesis H2O: Ultraviolet Disinfection System

A Security System For Your Water

UV technology provides additional security for your water supply. It is proven to control microbiological (bacteria & virus) issues in water including ***E.coli, Cryptosporidium, and Giardia Lamblia*** without the use of chemicals.

Gen 5 Residential Systems

Features:

- Five models available (Gen5-3, 6 , 10, 15 & 20)
- Colour user interface with full diagnostics and warnings including QR codes
- "Future-proof" expandability port for future upgrades and options
- Designed & manufactured to ASME pressure vessel standards
- Axial flow, 316L stainless steel reactor, polished reactors with integral sensor port to allow for sensor upgradeability in the future (comes standard with visual glow plug)
- Flow rates stated at 95% UVT at a dose of 30mJ/cm2
- User friendly bayonet style lamp connector (Quick ¼ turn removal. No extra tools required.)
- Reliable, industry proven low pressure (LP) coated UV lamps with ceramic bases for durability and a 9000 hour life (1 year)
- Constant current electronic controller (one controller for all systems) in a splash-proof case
- Warranty (refer to Owner's Manual for complete details including conditions & exclusions):
  - Reactor Chamber – Ten (10) Year Limited
  - Electronics – Three (3) Year Limited
  - UV Lamps – One (1) Year Limited
  - Quartz Sleeves – One (1) Year Limited

AQUA FLO®

Guidelines for Use

Parameter	Level
Hardness	< 7 gpg (120 mg/L)
Iron (Fe)	< 0.3ppm (mg/L)
Manganese (Mn)	< 0.05ppm (mg/L)
Tannins	< 0.1ppm (mg/L)
Turbidity	< 1 NTU
Transmittance (UVT)	> 75%

AQUA FLO®

AQUA FLO GEN EQUIPMENT SPECIFICATIONS

AQUA FLO GEN-5, Residential UV systems

MODEL	GEN5-3 40030001	GEN5-6 40030002	GEN5-10 40030003	GEN5-15 40030004	GEN5-20 40030005
Flow Rate (@ 16 mJ/cm² @ 95% UVT)	6 GPM 23 lpm 1.4 m3/hr.	11 GPM 41 lpm 2.5 m³/hr.	20 GPM [1] 77 lpm [1] 4.6 m³/hr. [1]	30 GPM [2] 113.6 lpm [2] 6.8 m³/hr. [2]	39.2 GPM [2] 150 lpm [2] 8.9 m³/hr. [2]
Flow Rate (@ 30 mJ/cm² @ 95% UVT)	3 GPM 11.4 lpm 0.7 m3/hr.	6 GPM 22.7 lpm 1.4 m³/hr.	11 GPM 41 lpm 2.5 m³/hr.	15 GPM 56.8 lpm 3.4 m³/hr.	21 GPM 79 lpm 4.8 m³/hr.
Flow Rate (@ 40 mJ/cm² @ 95% UVT)	2.4 GPM 9.1 lpm 0.5 m3/hr.	4.4 GPM 17 lpm 1.0 m³/hr.	8.3 GPM 31 lpm 1.9 m³/hr.	12 GPM 45.4 lpm 2.7 m³/hr.	16 GPM 59 lpm 3.6 m³/hr.
Port Size	½" MNPT	¾" MNPT	¾" MNPT	1" MNPT	1" MNPT
Electrical	90-265V/50-60Hz.				
Plug Type	North American, NEMA 5-15, 3-wire for all 110V				
Lamp Watts	15	22	39	50	42
Power (watts)	20	30	49	62	51
Replacement Lamp	RL-290	RL-470	RL-820	RL-999	RL-850
Replacement Sleeve	RQ-290	RQ-470	RQ-820	RQ-999	RQ-850
Reactor Dimensions	2.5 x 14.3" (6.4 x 36.4 cm)	2.5 x 21.3" (6.4 x 54.2 cm)	2.5 x 35.2" (6.4 x 89.5 cm)	2.5 x 40.0" (6.4 x 101.6 cm)	3.5 x 36.1" (8.9 x 91.7 cm)
Chamber Material	Polished 304 Stainless Steel, A249 Pressure Rated Tubing				
Controller Dimensions	6.8 x 3.6 x 3" (171.5 x 92.1 x 76.2 mm)				
Operating Pressure	0.7-10.3 bar (10-150 psi)				
Operating Water Temperature	2-40° C (36-104° F)				
UV Monitor Port (upgradeability)	No	Yes			
Solenoid Output	Yes, but requires optional solenoid module				
4-20 mA Output	Yes, but requires optional 4-20 mA module				
Lamp Change Reminder (audible & visual)	Yes				
Lamp-Out Indicator (audible & visual)	Yes				
Shipping Weight	3.3 kg. (7.3 lbs.) 3 kg. (7 lbs.) cubed	4.2 kg. (9.3 lbs.) 5 kg. (9 lbs.) cubed	6.8 kg. (15.0 lbs.) 7 kg. (15 lbs.) cubed	8.0 kg. (17.6 lbs.) 8 kg. (17 lbs.) cubed	7.5 kg. (16.5 lbs.) 10 kg. (22 lbs.) cubed

Note: 1. based on flow velocity of 8.2 ft/sec (2.5 m/sec.), flow rate limited to **13.6 gpm** (50 lpm) (3.1 m³/hr.) for 3/4" port
2. based on flow velocity of 8.2 ft/sec (2.5 m/sec.), flow rate limited to **22.1 gpm** (84 lpm) (5.0 m³/hr.) for 1" port

Sample Screens

NSF Certified Models Available. Contact Customer Service For Details.

Options

UV Sensor Module
Allows the 254nm UV wavelength to be measured and displayed via the GEN-5 controller. The sensor plugs directly into the controller and is mounted in the sensor port located on all GEN-5 units.

Solenoid Module
Used to power a remote normally closed solenoid valve (not included). Solenoid valve will close on lamp failure or when low UV conditions are detected by the sensor. Available in 110V MODSOL1 (Item # 40040006)

REPLACEMENT PARTS

System	Lamps	Sleeves	Controller
Aqua Flo Gen 5-3	RL-290 #40040013	RQ-290 #40040040	RC-B56.01 #40040066
Aqua Flo Gen 5-6	RL-470 #40040014	RQ-470 #40040043	RC-B56.01 #40040066
Aqua Flo Gen 5-10	RL-820 #40040015	RQ-820 #40040045	RC-B56.01 #40040066
Aqua Flo Gen 5-15	RL-999 #40040017	RQ-999 #40040048	RC-B56.01 #40040066
Aqua Flo Gen 5-20	RL-850 #40040016	RQ-850 #40040046	RC-B56.01 #40040066

Aqua Flo Gen H5 Residential Crossover High Flow Systems

A Security System For Your Water

UV technology provides additional security for your water supply. It is proven to control microbiological (bacteria & virus) issues in water including ***E.coli, Cryptosporidium, and Giardia Lamblia*** without the use of chemicals.

Gen H5 Residential Crossover High Flow Systems

Features:

- Five models available (Gen H5-5, 10, 15, 25 & 40)
- Colour user interface with full diagnostics and warnings including QR codes
- "Future-proof" expandability port for future upgrades and options
- Axial flow, 316L stainless steel reactor, polished reactors with integral sensor port to allow for sensor upgradeability in the future (comes standard with visual glow plug)
- Designed & manufactured to ASME pressure vessel standards
- Flow rates stated at 95% UVT at a dose of 30mJ/cm2
- User friendly bayonet style lamp connector (Quick ¼ turn removal. No extra tools required.)
- True gland seal retaining nut with positive stop
- Reliable, industry proven low pressure, high-output (LP-HO) coated UV lamps with ceramic bases for durability and a 10,000 hour life
- Universal input, constant current electronic controller (one controller for all systems) in a splash-proof case
- Warranty (refer to Owner's Manual for complete details including conditions & exclusions):
  - Reactor Chamber – Ten (10) Year Limited
  - Electronics – Three (3) Year Limited
  - UV Lamps – One (1) Year Limited
  - Quartz Sleeves – One (1) Year Limited

Guidelines for Use

Parameter	Level
Hardness	< 7 gpg (120 mg/L)
Iron (Fe)	< 0.3ppm (mg/L)
Manganese (Mn)	< 0.05ppm (mg/L)
Tannins	< 0.1ppm (mg/L)
Turbidity	< 1 NTU
Transmittance (UVT)	> 75%

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AQUA FLO GEN EQUIPMENT SPECIFICATIONS

AQUA FLO GEN H-5, Residential Crossover UV systems, non-monitored

MODEL	GENH5-5 40030010	GENH5-10 40030011	GENH5-15 40030012	GENH5-25 40030013	GENH5-40 40030014
Flow Rate (Industry Standard)	4 GPM 15.1 lpm 0.9 m^3/hr.	10 GPM 37.9 lpm 2.3 m^3/hr.	14 GPM 53 lpm 3.2 m^3/hr.	25 GPM [2] 95 lpm 5.7 m^3/hr.	40 GPM 151 lpm 9.1 m^3/hr.
Alternate flow @ 16 mJ/cm^2 (US Public Health)	8 GPM 30.3 lpm 1.8 m^3/hr.	19 GPM [1] 71.9 lpm 4.3 m^3/hr.	27 GPM [2] 102.2 lpm 6.1 m^3/hr.	47 GPM [2] 178 lpm 10.7 m^3/hr.	78 GPM [3] 295 lpm 17.7 m^3/hr.
Alternate flow @ 40 mJ/cm^2 (NSF/EPA)	3 GPM 11.4 lpm 0.7 m^3/hr.	7 GPM 26.5 lpm 1.6 m^3/hr.	11 GPM 41 lpm 2.5 m^3/hr.	19 GPM 72 lpm 4.3 m^3/hr.	31 GPM 117 lpm 7 m^3/hr.
Port Size	½" MNPT	¾" MNPT	1" MNPT	1" MNPT	1½" MNPT
Electrical	90-265V/50-60Hz. (IEC power cords required)				
Power Plug	North American, NEMA 5-15, 3-wire for all 110V				
Lamp Watts	18	34	45	67	101
Power (watts)	20 (19 @ 230V.)	38 (36 @ 230V.)	57 (48 @ 230V.)	73 (72 @ 230V.)	115 (108 @ 230V.)
Replacement Lamp	RL-210HO	RL-330HO	RL-420HO	RL-600HO	RL-950HO
Replacement Sleeve	RQ-210	RQ-330	RQ-420	RQ-600	RQ-950
Reactor Dimensions	3.5 x 11.7" (8.9 x 29.8 cm)	3.5 x 16.5" (8.9 x 41.8 cm)	3.5 x 20.0" (8.9 x 50.8 cm)	3.5 x 26.9" (8.9 x 68.3 cm)	3.5 x 40.7" (8.9 x 103.4 cm)
Chamber Material	316L Stainless Steel, A249 Pressure Rated Tubing, Polished & Passivated				
Controller Dimension	8.6 x 4.2 x 3.5" (217.4 x 107.5 x 88.7 mm)				
Operating Pressure	0.7-10.3 bar (10-150 psi)				
Optimum Water Temperature	2-40° C (36-104° F)				
UV Monitor Port (upgradeability)	Yes, includes visual glow plug				
Solenoid Output	Yes, but requires optional solenoid module				
4-20 mA Output	Yes, but requires optional 4-20 mA module				
Lamp Change Reminder (audible & visual)	Yes				
Lamp-Out Indicator (audible & visual)	Yes				
Shipping Weight	4.5 kg. (9.9 lbs.) 4 kg. (8 lbs.) cubed	5.4 kg. (11.9 lbs.) 5 kg. (11 lbs.) cubed	6.0 kg. (13.2 lbs.) 6 kg. (13 lbs.) cubed	7.2 kg. (15.9 lbs.) 8 kg. (16 lbs.) cubed	9.7 kg. (21.4 lbs.) 11 kg. (24 lbs.) cubed

Note: 1. based on flow velocity of 8.2 ft/sec (2.5 m/sec.), flow rate limited to **13.6 gpm** (50 lpm) (3.1 m3/hr.) for 3/4" port
2. based on flow velocity of 8.2 ft/sec (2.5 m/sec.), flow rate limited to **22.1 gpm** (84 lpm) (5.0 m^3/hr.) for 1" port
3. based on flow velocity of 8.2 ft/sec (2.5 m/sec.), flow rate limited to **52 gpm** (197 lpm) (11.8 m^3/hr.) for 1 ½" port

Sample Screens

NSF Certified Models Available. Contact Customer Service For Details.

Options

UV Sensor Module
Allows the 254nm UV wavelength to be measured and displayed via the GEN-H5 controller. The sensor plugs directly into the controller and is mounted in the sensor port located on all Gen H5 units.

Solenoid Module
Used to power a remote normally closed solenoid valve (not included). Solenoid valve will close on lamp failure or when low UV conditions are detected by the sensor. Available in 110V MODSOL1 (Item # 40040006)

REPLACEMENT PARTS

System	Lamps	Sleeves	Controller
Aqua Flo Gen H5-5	RL-210HO #40040018	RQ-210 #40040039	RCHO-B56.12 #40040074
Aqua Flo Gen H5-10	RL-330HO #40040019	RQ-330 #40040041	RCHO-B56.12 #40040074
Aqua Flo Gen H5-15	RL-420HO #40040020	RQ-420 #40040042	RCHO-B56.12 #40040074
Aqua Flo Gen H5-25	RL-600HO #40040021	RQ-600 #40040044	RCHO-B56.12 #40040074
Aqua Flo Gen H5-40	RL-950HO #40040022	RQ-950 #40040047	RCHO-B56.12 #40040074

Aqua Flo Gen 6 Residential Systems

A Security System For Your Water

UV technology provides additional security for your water supply. It is proven to control microbiological (bacteria & virus) issues in water including ***E.coli, Cryptosporidium, and Giardia Lamblia*** without the use of chemicals.

Gen 6 Residential Systems

Features:

- Four models available (Gen 6-6 , 10, 15 & 20)
- True 254nm Teflon® based UV sensor continuously measures UV output and visually displays output via controller
- Colour user interface with full diagnostics and warnings including QR codes
- "Future-proof" expandability port for future upgrades and options
- Axial flow, 304 stainless reactors
- Designed & manufactured to ASME pressure vessel standards
- Flow rates stated at 95% UVT at a dose of 30mJ/cm2
- User friendly bayonet style lamp connector (Quick ¼ turn removal. No extra tools required.)
- True gland seal retaining nut with positive stop
- Reliable, industry proven low pressure (LP) coated UV lamps with ceramic bases for durability and a 9000 hour life (1 year)
- Constant current electronic controller (one controller for all systems) in a splash-proof case
- Warranty (refer to Owner's Manual for complete details including conditions & exclusions):
  - Reactor Chamber - Ten (10) Year Limited
  - Electronics – Three (3) Year Limited
  - UV Lamps – One (1) Year Limited
  - Quartz Sleeves – One (1) Year Limited
  - UV Sensors – One (1) Year Limited

Guidelines for Use

Parameter	Level
Hardness	< 7 gpg (120 mg/L)
Iron (Fe)	< 0.3ppm (mg/L)
Manganese (Mn)	< 0.05ppm (mg/L)
Tannins	< 0.1ppm (mg/L)
Turbidity	< 1 NTU
Transmittance (UVT)	> 75%

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AQUA FLO GEN EQUIPMENT SPECIFICATIONS

AQUA FLO GEN-6, Residential monitored UV systems

MODEL	GEN6-6 40030006	GEN6-10 40030007	GEN6-15 40030008	GEN6-20 40030009
UV Flow Rate (@ 16 mJ/cm² @ 95% UVT)	11 GPM 41 lpm 2.5 m³/hr.	20 GPM [1] 77 lpm [1] 4.6 m³/hr. [1]	30 GPM [2] 113.6 lpm [2] 6.8 m³/hr. [2]	39.2 GPM [2] 150 lpm [2] 8.9 m³/hr. [2]
UV Flow Rate (@ 30 mJ/cm² @ 95% UVT)	6 GPM 22.7 lpm 1.4 m³/hr.	11 GPM 41 lpm 2.5 m³/hr.	15 GPM 56.8 lpm 3.4 m³/hr.	21 GPM 79 lpm 4.8 m³/hr.
UV Flow Rate (@ 40 mJ/cm² @ 95% UVT)	4.4 GPM 17 lpm 1.0 m³/hr.	8.3 GPM 31 lpm 1.9 m³/hr.	12 GPM 45.4 lpm 2.7 m³/hr.	16 GPM 59 lpm 3.6 m³/hr.
Port Size	¾" MNPT	¾" MNPT	1" MNPT	1" MNPT
Electrical	90-265V/50-60Hz.			
Plug Type	North American, NEMA 5-15, 3-wire for all 110V			
Lamp Watts	22	39	50	42
Power (watts)	30	49	62	51
Replacement Lamp	RL-470	RL-820	RL-999	RL-850
Replacement Sleeve	RQ-470	RQ-820	RQ-999	RQ-850
Reactor Dimensions	2.5 x 21.3" (6.4 x 54.2 cm)	2.5 x 35.2" (6.4 x 89.5 cm)	2.5 x 40.0" (6.4 x 101.6 cm)	3.5 x 36.1" (8.9 x 91.7 cm)
Chamber Material	Polished 304 Stainless Steel, A249 Pressure Rated Tubing			
Controller Dimensions	6.8 x 3.6 x 3" (171.5 x 92.1 x 76.2 mm)			
Operating Pressure	0.7-10.3 bar (10-150 psi)			
Operating Water Temperature	2-40° C (36-104° F)			
UV Intensity Monitor	Yes			
Solenoid Output	Yes, but requires optional solenoid module			
4-20 mA Output	Yes, but requires optional 4-20 mA module			
Lamp Change Reminder (audible & visual)	Yes			
Lamp-Out Indicator (audible & visual)	Yes			
Shipping Weight	4.2 kg. (9.3 lbs.) 5 kg. (9 lbs.) cubed	6.8 kg. (15.0 lbs.) 7 kg. (15 lbs.) cubed	8.0 kg. (17.6 lbs.) 8 kg. (17 lbs.) cubed	7.5 kg. (16.5 lbs.) 10 kg. (22 lbs.) cubed

Note: 1. based on flow velocity of 8.2 ft/sec (2.5 m/sec.), flow rate limited to **13.6 gpm** (50 lpm) (3.1 m³/hr.) for 3/4" port
2. based on flow velocity of 8.2 ft/sec (2.5 m/sec.), flow rate limited to **22.1 gpm** (84 lpm) (5.0 m³/hr.) for 1" port

Sample Screens

NSF Certified Models Available. Contact Customer Service For Details.

Options

UV Sensor Module
Allows the 254nm UV wavelength to be measured and displayed via the GEN-H6 controller. The sensor plugs directly into the controller and is mounted in the sensor port located on all Gen 6 units.

Solenoid Module
Used to power a remote normally closed solenoid valve (not included). Solenoid valve will close on lamp failure or when low UV conditions aredetected by the sensor. Available in 110V MODSOL1 (Item # 40040006)

REPLACEMENT PARTS

System	Lamps	Sleeves	Controller
Aqua Flo Gen 6-6	RL-470 #40040014	RQ-470 #40040043	RC-B56.01 #40040066
Aqua Flo Gen 6-10	RL-820 #40040015	RQ-820 #40040045	RC-B56.01 #40040066
Aqua Flo Gen 6-15	RL-999 #40040017	RQ-999 #40040048	RC-B56.01 #40040066
Aqua Flo Gen 6-20	RL-850 #40040016	RQ-850 #40040046	RC-B56.01 #40040066

Aqua Flo Gen H6 Residential Crossover High Flow Systems

A Security System For Your Water

UV technology provides additional security for your water supply. It is proven to control microbiological (bacteria & virus) issues in water including ***E.coli, Cryptosporidium, and Giardia Lamblia*** without the use of chemicals.

Gen H6 Residential Crossover High Flow Systems

Features:

- Five models available (Gen H6-5, 10, 15, 25 & 40)
- True 254nm Teflon® based UV sensor continuously measures UV output via the controller
- Colour user interface with full diagnostics and warnings including QR codes
- "Future-proof" expandability port for future upgrades and options
- Axial flow, 316L stainless steel reactor
- Designed & manufactured to ASME pressure vessel standards
- Flow rates stated at 95% UVT at a dose of 30mJ/cm2
- User friendly bayonet style lamp connector (Quick ¼ turn removal. No extra tools required.)
- True gland seal retaining nut with positive stop
- Reliable, industry proven low pressure, high-output (LP-HO) coated UV lamps with ceramic bases for durability and a 10,000 hour life
- Universal input, constant current electronic controller (one controller for all systems) in a splash-proof case
- Warranty (refer to Owner's Manual for complete details including conditions & exclusions):
  - Reactor Chamber – Ten (10) Year Limited
  - Electronics – Three (3) Year Limited
  - UV Lamps – One (1) Year Limited
  - Quartz Sleeves – One (1) Year Limited
  - UV Sensors – One (1) Year Limited

AQUA FLO®

Guidelines for Use

Parameter	Level
Hardness	< 7 gpg (120 mg/L)
Iron (Fe)	< 0.3ppm (mg/L)
Manganese (Mn)	< 0.05ppm (mg/L)
Tannins	< 0.1ppm (mg/L)
Turbidity	< 1 NTU
Transmittance (UVT)	> 75%

AQUA FLO®

AQUA FLO GEN EQUIPMENT SPECIFICATIONS

AQUA FLO GEN H-6, Residential Crossover monitored UV systems

MODEL	GENH6-5 40030015	GENH6-10 40030016	GENH6-15 40030017	GENH6-25 40030018	GENH6-40 40030019
Flow Rate (Industry Standard)	4 GPM 15.1 lpm 0.9 m^3/hr.	10 GPM 37.9 lpm 2.3 m^3/hr.	14 GPM 53 lpm 3.2 m^3/hr.	25 GPM [2] 95 lpm 5.7 m^3/hr.	40 GPM 151 lpm 9.1 m^3/hr.
Alternate flow @ 16 mJ/cm^2 (US Public Health)	8 GPM 30.3 lpm 1.8 m^3/hr.	19 GPM [1] 71.9 lpm 4.3 m^3/hr.	27 GPM [2] 102.2 lpm 6.1 m^3/hr.	47 GPM [2] 178 lpm 10.7 m^3/hr.	78 GPM [3] 295 lpm 17.7 m^3/hr.
Alternate flow @ 40 mJ/cm^2 (NSF/EPA)	3 GPM 11.4 lpm 0.7 m^3/hr.	7 GPM 26.5 lpm 1.6 m^3/hr.	11 GPM 41 lpm 2.5 m^3/hr.	19 GPM 72 lpm 4.3 m^3/hr.	31 GPM 117 lpm 7 m^3/hr.
Port Size	½" MNPT	¾" MNPT	1" MNPT	1" MNPT	1½" MNPT
Electrical	90-265V/50-60Hz. (IEC power cords required)				
Power Plug	North American, NEMA 5-15, 3-wire for all 110V				
Lamp Watts	18	34	45	67	101
Power (watts)	20 (19 @ 230V.)	38 (36 @ 230V.)	57 (48 @ 230V.)	73 (72 @ 230V.)	115 (108 @ 230V.)
Replacement Lamp	RL-210HO	RL-330HO	RL-420HO	RL-600HO	RL-950HO
Replacement Sleeve	RQ-210	RQ-330	RQ-420	RQ-600	RQ-950
Reactor Dimensions	3.5 x 11.7" (8.9 x 29.8 cm)	3.5 x 16.5" (8.9 x 41.8 cm)	3.5 x 20.0" (8.9 x 50.8 cm)	3.5 x 26.9" (8.9 x 68.3 cm)	3.5 x 40.7" (8.9 x 103.4 cm)
Chamber Material	316L Stainless Steel, A249 Pressure Rated Tubing, Polished & Passivated				
Controller Dimension	8.6 x 4.2 x 3.5" (217.4 x 107.5 x 88.7 mm)				
Operating Pressure	0.7-10.3 bar (10-150 psi)				
Optimum Water Temperature	2-40° C (36-104° F)				
UV Intensity Monitor	Yes				
Solenoid Output	Yes, but requires optional solenoid module				
4-20 mA Output	Yes, but requires optional 4-20 mA module				
Lamp Change Reminder (audible & visual)	Yes				
Lamp-Out Indicator (audible & visual)	Yes				
Shipping Weight	4.5 kg. (9.9 lbs.) 4 kg. (8 lbs.) cubed	5.4 kg. (11.9 lbs.) 5 kg. (11 lbs.) cubed	6.0 kg. (13.2 lbs.) 6 kg. (13 lbs.) cubed	7.2 kg. (15.9 lbs.) 8 kg. (16 lbs.) cubed	9.7 kg. (21.4 lbs.) 11 kg. (24 lbs.) cubed

Note: 1. based on flow velocity of 8.2 ft/sec (2.5 m/sec.), flow rate limited to **13.6 gpm** (50 lpm) (3.1 m3/hr.) for 3/4" port
2. based on flow velocity of 8.2 ft/sec (2.5 m/sec.), flow rate limited to **22.1 gpm** (84 lpm) (5.0 m^3/hr.) for 1" port
3. based on flow velocity of 8.2 ft/sec (2.5 m/sec.), flow rate limited to **52 gpm** (197 lpm) (11.8 m^3/hr.) for 1 ½" port

Sample Screens

NSF Certified Models Available. Contact Customer Service For Details.

Options

UV Sensor Module
Allows the 254nm UV wavelength to be measured and displayed via the GENH-6 controller. The sensor plugs directly into the controller and is mounted in the sensor port located on all GenH6 units.

Solenoid Module
Used to power a remote normally closed solenoid valve (not included). Solenoid valve will close on lamp failure or when low UV conditions are detected by the sensor. Available in 110V MODSOL1 (Item # 40040006)

REPLACEMENT PARTS

System	Lamps	Sleeves	Controller
Aqua Flo Gen H6-5	RL-210HO #40040018	RQ-210 #40040039	RCHO-B56.12 #40040074
Aqua Flo Gen H6-10	RL-330HO #40040019	RQ-330 #40040041	RCHO-B56.12 #40040074
Aqua Flo Gen H6-15	RL-420HO #40040020	RQ-420 #40040042	RCHO-B56.12 #40040074
Aqua Flo Gen H6-25	RL-600HO #40040021	RQ-600 #40040044	RCHO-B56.12 #40040074
Aqua Flo Gen H6-40	RL-950HO #40040022	RQ-950 #40040047	RCHO-B56.12 #40040074

Aqua Flo Gen 4 UV/Filter Rack System

A Combination Water System For Your Entire Home or Cottage

Combining ultraviolet disinfection (UV) with whole-house filtration provides your home or cottage with clean, great-tasting water that you can rely on. UV is proven to control microbiological (bacteria & virus) issues in water including ***E.coli, Cryptosporidium, and Giardia Lamblia*** without the use of chemicals. Combining UV disinfection with whole-house sediment and/or carbon pre-treatment filters improves UV performance and the taste, smell and clarity of your water.

GEN4-8R1

GEN4-8R12

GENH4-13R2

GENH4-13R22

Features:

- Four models provide a range of flow rate and filter combination options suitable for your specific needs
- **NEW** filter design, includes new one-piece, 2-sump design for leak free operation, (pressure relief, wrench, and new integral hanging clip included with all systems)
- **NEW** LED lamp countdown (4.1 variants)
- **NEW** controller with Lightlock™ technology for protected lamp sales (5.1 variants)
- Universal mounting configuration (left or right access)
- NSF component listed filtration cartridges (included with sytems)
- "Future-proof" expandibility port for future upgrades and options
- Axial flow, 316L stainless steel polished reactors, fully polished, designed & manufactured to ASME pressure vessel standards
- Reliable, industry proven, coated UV lamps, (9,000 hour life on LB4/5 series and 10,000 hour life on LBH4/5 series)
- Full customization available as an option (language, home screen, phone, QR codes, etc.)

AQUA FLO®

Guidelines for Use

Parameter	Level
Hardness	< 7 gpg (120 mg/L)
Iron (Fe)	< 0.3ppm (mg/L)
Manganese (Mn)	< 0.05ppm (mg/L)
Tannins	< 0.1ppm (mg/L)
Turbidity	< 1 NTU
Transmittance (UVT)	> 75%

AQUA FLO®

AQUA FLO GEN EQUIPMENT SPECIFICATIONS

AQUA FLO GEN-4, UV/Filter Rack System

MODEL	GEN4-8R1 40030061N	GEN4-8R12 40030062N	GENH4-13R2 40030063N	GENH4-13R22 40030064N
Flow Rate (@ 30 mJ/cm² @ 95% UVT)	8.0 GPM	8.0 GPM	13.0 GPM [2]	13 GPM [2]
	30 lpm	30 lpm	49.2 lpm [2]	49.2 lpm [2]
	1.8 m^3/hr.	1.8 m^3/hr.	2.95 m^3/hr. [2]	2.95 m^3/hr. [2]
1st Filter Housing	10" 5 Micron Sediment **26235**	10" 5 Micron Sediment **26235**	20" 5 Micron Sediment **26239**	20" 5 Micron Sediment **26239**
2nd Filter Housing	N/A	20" High Capacity Carbon **26256**	N/A	20" High Capacity Carbon **26256**
Port Size	1" MNPT			
Electrical	90-265V/50-60Hz.			
Plug Type	American, Nema 5/15, 3 wire for all 110V systems, "1" suffix (i.e. LB5-Z1) European, CEE 7/7, 3 wire for all 230V systems, "2" suffix (i.e. LB5-Z1-2) British Standard, BS 1363, 3 wire for all 230V systems, "3" suffix (i.e. LB5-Z1-3) Australian/New Zealand, AS/NZ 3112, 3 wire for all 230V systems, "4" suffix (i.e. LB5-Z1-4)			
Lamp Watts	20 (Standard-Output Lamp)		45 (High-Output Lamp)	
Power (watts)	23 (21 @ 230V.)		57 (48 @ 230V.)	
Max Current (amps)	1			
Chamber Dimensions	6.8 x 3.6 x 3" (17.2x9.2x7.6 cm)		8.6 x 4.2 x 3.5" (21.7x10.8x8.9 cm)	
Chamber Material	Polished 316L stainless steel, A249 pressure rated tubing			
Controller Dimensions	6.8 x 3.6 x 3" (171.5 x 92.1 x 76.2 mm)		8.6 x 4.2 x 3.5" (21.7 x 10.8 x 8.9 cm)	
Operating Pressure	0.7-10.3 bar (10-150 psi)			
Operating Water Temperature	2-40° C (36-104° F)			
Lamp Change Reminder (Audible & Visual)	Yes			
Lamp-Out Indicator (Audible & Visual)	Yes			
Shipping Weight	8.0 kg. (17.6 lbs.)	16.6 kg. (36.6 lbs.)	15.2 kg. (33.5 lbs.)	15.2 kg. (33.5 lbs.)

Note: **1.** based on flow velocity of 8.2 ft/sec (2.5 m/sec.), flow rate limited to **13.6 gpm** (50 lpm) (3.1 m^3/hr.) for 3/4" port
2. based on flow velocity of 8.2 ft/sec (2.5 m/sec.), flow rate limited to **22.1 gpm** (84 lpm) (5.0 m^3/hr.) for 1" port

Sample Screens

NSF Certified Models Available. Contact Customer Service For Details.

Options

UV Sensor Module
Allows the 254nm UV wavelength to be measured and displayed via the GEN-4 UV controller.

REPLACEMENT PARTS

System	Lamps	Sleeves	Controller
Aqua Flo Gen 4-8R1	RL-420 #40040096	RQ-420 #40040042	RC-B4.01 #40040112
Aqua Flo Gen 4-8R12	RL-330HO #40040019	RQ-420 #40040042	RC-B4.01 #40040112
Aqua Flo Gen 4-13R2	RL-420HO #40040020	RQ-420 #40040042	RC-B4.01 #40040112
Aqua Flo Gen 4-13R22	RL-420HO #40040020	RQ-420 #40040042	RC-B4.01 #40040112

Aqua Flo Gen 5 UV/Filter Rack System

A Combination Water System For Your Entire Home or Cottage

Combining ultraviolet disinfection (UV) with whole-house filtration provides your home or cottage with clean, great-tasting water that you can rely on. UV is proven to control microbiological (bacteria & virus) issues in water including ***E.coli, Cryptosporidium, and Giardia Lamblia*** without the use of chemicals. Combining UV disinfection with whole-house sediment and/or carbon pre-treatment filters improves UV performance and the taste, smell and clarity of your water.

GEN5-8R1

GEN5-8R12

GENH5-13R2

GENH5-13R22

Features:

- Four models provide a range of flow rate and filter combination options suitable for your specific needs
- Models for 8 & 13 gpm flow rates
- All systems include 5 micron sediment removal pretreatment required for proper UV performance
- Optional 'high-flow' carbon filters to treat bad tastes and odors
- Pressure relief, high-flow polypropylene filter housings
- Colour user interface with full diagnostics and warnings including QR codes
- "Future-proof" expandability port for future upgrades and options
- Designed & manufactured to ASME pressure vessel standards
- Axial flow, 316L stainless steel polished reactors designed & manufactured to ASME pressure vessel standards
- Flow rates stated at 95% UVT at a dose of 30mJ/cm2
- User friendly bayonet style lamp connector (Quick ¼ turn removal. No extra tools required.)
- Reliable, industry proven low pressure (LP) coated UV lamps with ceramic bases for durability and a 9000 hour life (1 year)
- Constant current electronic controller in a splash-proof case

AQUA FLO®

Guidelines for Use

Parameter	Level
Hardness	< 7 gpg (120 mg/L)
Iron (Fe)	< 0.3ppm (mg/L)
Manganese (Mn)	< 0.05ppm (mg/L)
Tannins	< 0.1ppm (mg/L)
Turbidity	< 1 NTU
Transmittance (UVT)	> 75%

AQUA FLO®

AQUA FLO GEN EQUIPMENT SPECIFICATIONS

AQUA FLO GEN-5, UV/Filter Rack System

MODEL	GEN5-8R1 40030050N	GEN5-8R12 40030051N	GENH5-13R2 40030052N	GENH5-13R22 40030053N
Flow Rate (@ 30 mJ/cm² @ 95% UVT)	8.0 GPM	8.0 GPM	13.0 GPM [2]	13 GPM [2]
	30 lpm	30 lpm	49.2 lpm [2]	49.2 lpm [2]
	1.8 m^3/hr.	1.8 m^3/hr.	2.95 m^3/hr. [2]	2.95 m^3/hr. [2]
1st Filter Housing	10" 5 Micron Sediment **26235**	10" 5 Micron Sediment **26235**	20" 5 Micron Sediment **26239**	20" 5 Micron Sediment **26239**
2nd Filter Housing	N/A	20" High Capacity Carbon **26256**	N/A	20" High Capacity Carbon **26256**
Port Size	1" MNPT			
Electrical	90-265V/50-60Hz.			
Plug Type	North American, NEMA 5-15, 3-wire for all 110V			
Lamp Watts	20 (Standard-Output Lamp)		45 (High-Output Lamp)	
Power (watts)	23	23	57	57
Max Current (amps)	1			
Chamber Dimensions	3.5 x 20.0" (8.9 x 50.8 cm)			
Chamber Material	Polished 316 Stainless Steel, A249 Pressure Rated Tubing			
Controller Dimensions	6.8 x 3.6 x 3" (171.5 x 92.1 x 76.2 mm)		8.6 x 4.2 x 3.5" (21.7 x 10.8 x 8.9 cm)	
Operating Pressure	0.7-10.3 bar (10-150 psi)			
Operating Water Temperature	2-40° C (36-104° F)			
UV Monitor	Optional (Requires additional UV Sensor Module)			
Solenoid Output	Yes, but requires optional solenoid module			
Dry Contacts	Yes, but requires optional remote alarm module			
Lamp Change Reminder (Audible & Visual)	Yes			
Lamp-Out Indicator (Audible & Visual)	Yes			
Shipping Weight	18.5 Lbs (8.4 Kg)	31.5 Lbs (14.3 Kg)	31.5 Lbs (14.3 Kg)	34.2 Lbs (15.5 Kg)

Note: **1.** based on flow velocity of 8.2 ft/sec (2.5 m/sec.), flow rate limited to **13.6 gpm** (50 lpm) (3.1 m^3/hr.) for 3/4" port
2. based on flow velocity of 8.2 ft/sec (2.5 m/sec.), flow rate limited to **22.1 gpm** (84 lpm) (5.0 m^3/hr.) for 1" port

Sample Screens

NSF Certified Models Available. Contact Customer Service For Details.

Options

UV Sensor Module Allows the 254nm UV wavelength to be measured and displayed via the GEN-5 UV controller. The sensor plugs directly into the controller and is mounted in the sensor port located on all GEN-5 units.

Solenoid Module Used to power a remote normally closed solenoid valve (not included). Solenoid valve will close on lamp failure or when low UV conditions are detected by the sensor. Available in 110V MODSOL1 (Item # 40040006N)

4-20mA Module Used for signal transfer to a remote device such as a data logger or computer.

Remote Alarm (Dry Contact) Module Used for signal transfer to a remote alarm or dry contacts.

REPLACEMENT PARTS

System	Lamps	Sleeves	Controller
Aqua Flo Gen 5-8R1	RL-420 #40040096	RQ-420 #40040042	RC-B56.01 #40040066
Aqua Flo Gen 5-8R12	RL-420 #40040096	RQ-420 #40040042	RC-B56.01 #40040066
Aqua Flo Gen 5-13R2	RL-420HO #40040020	RQ-420 #40040042	RC-B56.01 #40040066
Aqua Flo Gen 5-13R22	RL-420HO #40040020	RQ-420 #40040042	RC-B56.01 #40040066

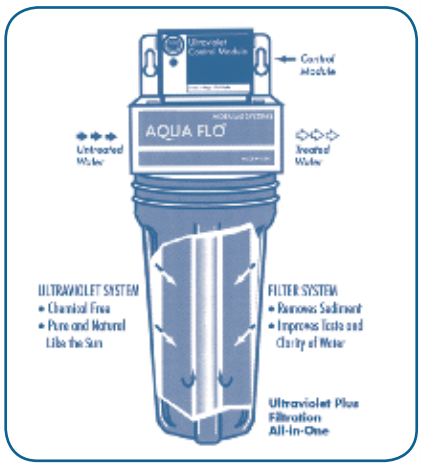
Aqua Flo Ultraviolet Disinfection Systems

AQUA FLO®

UVB Series™

Aqua Flo Product's patented UVB Series is designed to provide disinfected water at a flow rate of 2 gallons per minute. In addition to disinfection, water is filtered through our 0.5 micron Extended Pass Carbon Block (EPCB) filter.
Our double and triple models provide you with additional filtration with sediment and activated carbon filters.

This compact All-in-One system installs with ease and can be used anywhere that clean, clear, good tasting disinfected water is needed. It is ideal for point-of-use applications like under the kitchen sink, office water coolers, water vending machines, boats, recreational vehicles, etc.



Features:

- Electronic lamp indicator (LED)
- Standard voltage 115V

Options:

- 220V/50Hz (2-Prong Euro plug)
- 12V DC
- Lamp Out Circuit (LOC) - (normally open) Safety monitor for alarm
- Lamp Out Circuit (LOC) - (normally closed) Safety monitor for solenoid shut off
- Three year warranty except on electrical components which are covered for a period of one year.

Specifications & Performance UVB Series

Part #	Model Description	# of Sumps	Sump Type	Sump 1	Sump 2	Sump 3	Lamp #	Power Used	Flow Rates[1] GPM (L/min)	Dimensions HxWxD In. (cm)	Shipping Weight LBS. (kg)	Inlet/ Outlet Size
15610111	UVB1-EPCB	1	#10	EPCB Carbon/UV	None	None	# 11	14 Watts	2 (7.6)	15 x 5.5 x 5.5 (38.1 x 14 x 14)	10.0 (4.5)	3/8" NPT
15610411	UVB1-EPCB Normally Closed	1	#10	EPCB Carbon/UV	None	None	# 11	14 Watts	2 (7.6)	15 x 5.5 x 5.5 (38.1 x 14 x 14)	10.0 (4.5)	3/8" NPT
15610511	UVB1-EPCB Noramlly Open	1	#10	EPCB Carbon/UV	None	None	# 11	14 Watts	2 (7.6)	15 x 5.5 x 5.5 (38.1 x 14 x 14)	10.0 (4.5)	3/8" NPT
15620121	UVB2-EPCB/SD	2	#10	5 Micron Sed Filter	EPCB Carbon/ UV	None	# 11	14 Watts	2 (7.6)	15 x 11 x 5.5 (38.1 x 27.9 x 14)	15.0 (6.8)	3/8" NPT
15630131	UVB3-EPCB/GC/SD	3	#10	5 Micron Sed Filter	Granular Carbon Filter	EPCB Carbon/ UV	# 11	14 Watts	2 (7.6)	15 x 11 x 5.5 (38.1 x 27.9 x 14)	24.0 (10.9)	3/8" NPT

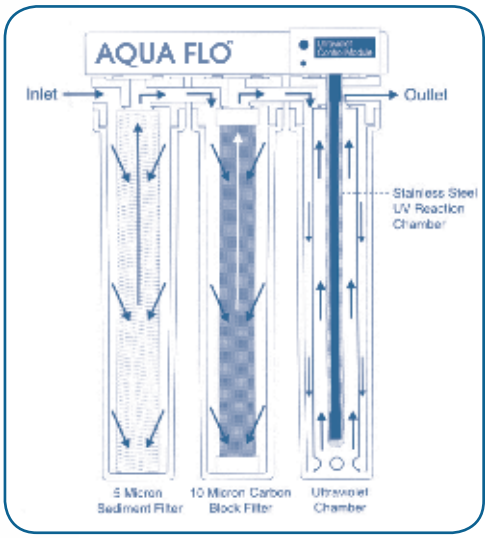
Note: (1) All flow rates shown will provide a UV dose of no less than 16,000 mW-s/cm2 or greater.

Aqua Flo Ultraviolet Disinfection Systems

UV20 Series™

The Aqua Flo Product's UV20 Series is designed to provide disinfected water at a flow rate of 8 - 10 gallons per minute. This system is ideal for whole house water treatment. In addition to disinfection, the double and triple models provide filtration for the removal of sediment and chemical contaminants.

This ultraviolet water treatment system makes a perfect companion to water softeners, distillers, reverse osmosis and ozone systems. The UV20 Series has proven to be Aqua Flo Product's most popular product line and has created an industry standard in whole house disinfection.



Features:

- Electronic lamp indicator (LED)
- Standard voltage 115V

Options:

- 220V/50Hz (2-Prong Euro plug)
- 12V DC
- Lamp Out Circuit (LOC) - (normally open) Safety monitor for alarm
- Lamp Out Circuit (LOC) - (normally closed) Safety monitor for solenoid shut off
- Three year warranty except on electrical components which are covered for a period of one year.

AQUA FLO®

Specifications & Performance UV20 Series

Part #	Model Description	# of Sumps	Sump Type	Sump 1	Sump 2	Sump 3	Lamp #	Power Used	Flow Rates[1] GPM (L/min)	Dimensions HxWxD In. (cm)	Shipping Weight LBS. (kg)	Inlet/ Outlet Size
15710100	UV20-1	1	#20	UV	None	None	# 20	22 Watts	10 (38)	25 x 5.5 x 5.5 (63.5 x 14 x 14)	16.0 (7.3)	3/4" NPT
15710400	UV20-1 Normally Closed	1	#20	UV	None	None	# 20	22 Watts	10 (38)	25 x 5.5 x 5.5 (63.5 x 14 x 14)	16.0 (7.3)	3/4" NPT
15710500	UV20-1 Normally Open	1	#20	UV	None	None	# 20	22 Watts	10 (38)	25 x 5.5 x 5.5 (63.5 x 14 x 14)	16.0 (7.3)	3/4" NPT
15720121	UV20-2 SD	2	#20	5 Micron Sed Filter	UV	None	# 20	22 Watts	10 (38)	25 x 11 x 5.5 (63.5 x 27.9 x 14)	23.0 (10.4)	3/4" NPT
15720421	UV20-2 SD Normally Closed	2	#20	5 Micron Sed Filter	UV	None	# 20	22 Watts	10 (38)	25 x 11 x 5.5 (63.5 x 27.9 x 14)	23.0 (10.4)	3/4" NPT
15720521	UV20-2 SD Normally Open	2	#20	5 Micron Sed Filter	UV	None	# 20	22 Watts	10 (38)	25 x 11 x 5.5 (63.5 x 27.9 x 14)	23.0 (10.4)	3/4" NPT
15730131	UV20-3 SD/CB	3	#20	5 Micron Sed Filter	10 Micron Carbon Block	UV	# 20	22 Watts	8 (30)	25 x 16 x 5.5 (63.5 x 40 x 14)	33.0 (15.0)	3/4" NPT
15730431	UV20-3 SD/CB Normally Closed	3	#20	5 Micron Sed Filter	10 Micron Carbon Block	UV	# 20	22 Watts	8 (30)	25 x 16 x 5.5 (63.5 x 40 x 14)	33.0 (15.0)	3/4" NPT
15730531	UV20-3 SD/CB Normally Open	3	#20	5 Micron Sed Filter	10 Micron Carbon Block	UV	# 20	22 Watts	8 (30)	25 x 16 x 5.5 (63.5 x 40 x 14)	33.0 (15.0)	3/4" NPT

Note: (1) All flow rates shown will provide a UV dose of no less than 16,000 mW-s/cm2 or greater.

Aqua Flo Ultraviolet Disinfection Systems

UV BigBoy™ Series

The UV BigBoy Series is the most versatile commercial ultraviolet disinfection system on the market today. This 15 to 60 GPM series is manufactured with versatility in mind, and is virtually unlimited in the possible filter configurations and manifold sequences. The series is designed with the same traditional style that Aqua Flo has made an industry standard - worldwide.

One advantage of the UV BigBoy Series is the convenient manifold mounting rack. The rack can be used to configure up to four UV chambers in parallel or in series. This allows the user to achieve either a higher UV dosage or higher flow rate (up to 60 GPM).

This mounting rack configuration provides easy access for cleaning and maintenance to the individual units without the need to shut down the entire water distribution line. The standard LED lamp monitor provides a visual verification the lamp is in operation.

The UV BigBoy Series, with its capacity, versatility and cost, is the world's most flexible, complete water disinfection system in its class.

Features:

- Electronic lamp indicator (LED)
- Standard voltage 115V

Options:

- 220V/50Hz (2-Prong Euro plug)
- 12V DC
- Lamp Out Circuit (LOC) - (normally open) Safety monitor for alarm
- Lamp Out Circuit (LOC) - (normally closed) Safety monitor for solenoid shut off
- Three year warranty except on electrical components which are covered for a period of one year.

AQUA FLO®

Specifications & Performance UV BigBoy Series

Part #	Model Description	# of Sumps	Sump Type	Sump 1	Sump 2	Sump 3	Lamp #	Power Used	Flow Rates[1] GPM (L/min)	Dimensions HxWxD In. (cm)	Shipping Weight LBS. (kg)	Inlet/Outlet Size
15810100	UVBB-1	1	#20BB	UV	None	None	#20	22 Watts	15 (57)	28 x 7.5 x 9.0 (71.1 x 19 x 22.9)	18.0 (8.2)	1-1/2" NPT
15810400	UVBB-1 Normally Closed	1	#20BB	UV	None	None	#20	22 Watts	15 (57)	28 x 7.5 x 9.0 (71.1 x 19 x 22.9)	18.0 (8.2)	1-1/2" NPT
15810500	UVBB-1 Normally Open	1	#20BB	UV	None	None	#20	22 Watts	15 (57)	28 x 7.5 x 9.0 (71.1 x 19 x 22.9)	18.0 (8.2)	1-1/2" NPT
15820121	UVBB-2	2	#20BB	5 Micron Sed Filter	UV	None	#20	22 Watts	15 (57)	28 x 15 x 9.0 (71.1 x 38.1 x 22.9)	35.0 (15.9)	1-1/2" NPT
15820421	UVBB-2 Normally Closed	2	#20BB	5 Micron Sed Filter	UV	None	#20	22 Watts	15 (57)	28 x 15 x 9.0 (71.1 x 38.1 x 22.9)	35.0 (15.9)	1-1/2" NPT
15820521	UVBB-2 Normally Open	2	#20BB	5 Micron Sed Filter	UV	None	#20	22 Watts	15 (57)	28 x 15 x 9.0 (71.1 x 38.1 x 22.9)	35.0 (15.9)	1-1/2" NPT
15830131	UVBB-3	3	#20BB	5 Micron Sed Filter	10 Micron Carbon Block	UV	#20	22 Watts	15 (57)	28 x 23 x 9.0 (71.1 x 58.4 x 22.9)	54.0 (24.5)	1-1/2" NPT
15830431	UVBB-3 Normally Closed	3	#20BB	5 Micron Sed Filter	10 Micron Carbon Block	UV	#20	22 Watts	15 (57)	28 x 23 x 9.0 (71.1 x 58.4 x 22.9)	54.0 (24.5)	1-1/2" NPT
15830531	UVBB-3 Normally Open	3	#20BB	5 Micron Sed Filter	10 Micron Carbon Block	UV	#20	22 Watts	15 (57)	28 x 23 x 9.0 (71.1 x 58.4 x 22.9)	54.0 (24.5)	1-1/2" NPT

Model Description	# of Sumps	Sump Type	Sump 1	Sump 2	Sump 3	Sump 4	Lamp #	Power Used	Flow Rates[1] GPM (L/min)	Dimensions HxWxD In. (cm)	Shipping Weight LBS. (kg)	Inlet/Outlet Size
UVBB-R1	4	#20BB	empty[2]	empty[2]	empty[2]	UV	#20	22 Watts	15 (57)	45 x 34 x 18 (114 x 86 x 45)	65.0 (29.5)	1-1/2"
UVBB-R2	4	#20BB	empty[2]	empty[2]	UV	UV	#20	44 Watts	30 (114)	45 x 34 x 18 (114 x 86 x 45)	75.0 (34.0)	1-1/2"
UVBB-R4	4	#20BB	UV	UV	UV	UV	#20	88 Watts	60 (227)	45 x 34 x 18 (114 x 86 x 45)	91.0 (41.3)	1-1/2"

Aqua Flo Ultraviolet Disinfection Systems

UV1-EPCB Series™

Aqua Flo Product's UV1-EPCB Series is a great example of Aqua Flo Product's patented All-In-One concept. This product combines both ultraviolet disinfection with carbon filtration all in a very attractive and compact system.

The UV-1 Series is rated for 1 gallon per minute and uses either a 0.5 micron (EPCB) carbon block filter or a 10 micron (EPCB 10) carbon block filter. This easy to install system can be used as a stand alone or in conjunction with other water treatment products.

Features:

- Compact Size
- Standard voltage 115V

Options:

- 220V/50Hz (2-Prong Euro plug)
- 12V DC

Specifications & Performance UV1-EPCB Series

Part #	Model Description	# of Sumps	Sump Type	Sump Content	Lamp #	Power Used	Flow Rates[1] GPM (L/min)	Dimensions HxWxD In. (cm)	Shipping Weight LBS. (kg)	Inlet/Outlet Size
15910111	UV1-EPCB	1	#10SL	EPCB Carbon/UV	#10	10 Watts	1 (3.8)	13.5 x 5.0 x 5.0 (34.3 x 12.7 x 12.7)	7.0 (3.2)	1/2" NPT

Notes: EPCB refers to Extended Pass Carbon Block filter
(1) All flow rates shown will provide a UV dose of no less than 16,000 mW-s/cm2 or greater.

UV ADDON Series™

Aqua Flo Product's UV ADDON Series is designed to be an easy addition to water treatment systems that require ultraviolet disinfection (RO systems, holding tanks, water dispensers, recirculating systems and more). The ADDON systems are available with a 1 GPM or 3 GPM flow rate. They are constructed using a 304 grade stainless steel body with a molded head that includes 3/8" quick connect fittings on the inlet/outlet. This versatile system also includes a heavy duty mounting bracket, but will also fit standard 2" RO mounting clips. The UV ADDON Series can be used almost anywhere and is equipped with a unique power supply that makes installation simple, space requirements minimal and lamp changes easy.

Features:

- 3/8" quick connect fittings
- Standard voltage 115V

Options:

- 220V/50Hz (2-Prong Euro plug)
- 12V DC

AQUA FLO®

Specifications & Performance UV ADDON Series

Part #	Model Description	# of Sumps	Sump Type	Sump Content	Lamp #	Power Used	Flow Rates[1] GPM (L/min)	Dimensions HxWxD In. (cm)	Shipping Weight LBS. (kg)	Inlet/Outlet Size
15520100	UV ADDON-1	1	304 SS	UV	#10	10 Watts	1 (3.8)	12 x 4 x 3.5 (30.5 x 10.2 x 8.9)	5.0 (2.3)	3/8" QC
15540100	UV ADDON-3	1	304 SS	UV	#20	22 Watts	3 (11.4)	22.5 x 4 x 3.5 (57.2 x 10.2 x 8.9)	7.0 (3.2)	3/8" QC

Notes: (1) All flow rates shown will provide a UV dose of no less than 16,000 mW-s/cm2 or greater.

Improved Water Quality in the Home

Point-of-Use Filtration Products

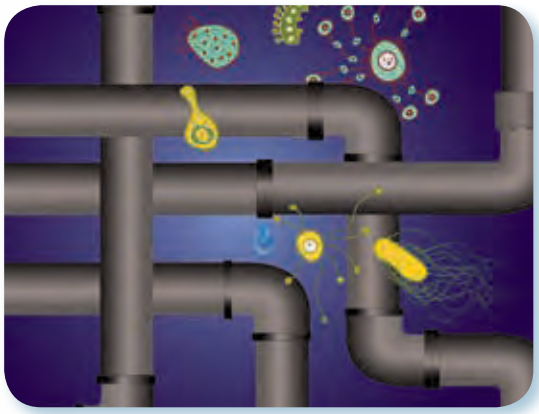
AQUA FLO®

AQUA FLO® PLATINUM

Aqua Flo Filtration Products

Your Water Quality is a Growing Concern

Aging infrastructure and increasing groundwater contamination is a growing reality and concern. The ingestion and inhalation of water disinfection products, such as chlorine, is also undesirable and unnecessary from both an aesthetic and physical standpoint.



Water travels through miles of pipes before reaching your home. Chlorine is commonly used to kill bacteria along the way. Once at your tap, it is desirable to reduce chlorine.

Finding The Right Solution

Improving your water quality is easy and economical. While bottled water remains a popular option for drinking water, it is an expensive, less convenient alternative that creates waste and is hard on the environment.

Aqua Flo™ Water Filtration Products provide you with a wide range of solutions for fresh, clean water. Not only do you get great-tasting water for drinking and cooking, you also get clear, odor free water for washing and utility use. No more carrying or storing heavy bottles either!

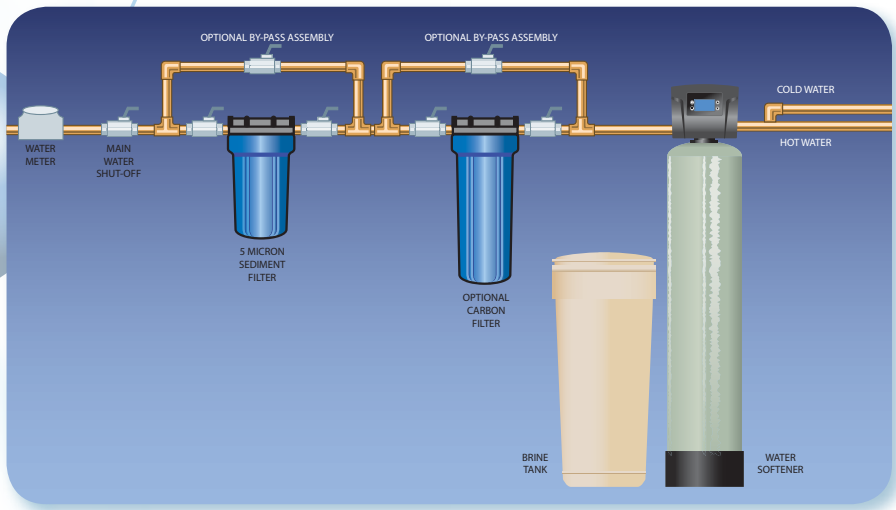
Aqua Flo Filter Cartridges are available to solve a wide variety of water problems:

- Remove dirt, silt, clay and other sediments
- Remove iron to prevent staining
- Minimize unpleasant odors, including chlorine

Understanding Your Aqua Flo Filtration System

Aqua Flo Filtration Systems consist of a Filter Housing that connects to your plumbing system and disposable Filter Cartridge that performs the work. Depending on your needs, systems can consist of a single or series of Housings installed either under a specific sink (Point-of-Use) or where the water main enters the home (Point-of Entry). Filter Cartridges are easily replaced periodically, typically on an annual or semi-annual basis, depending on your incoming water quality.

Point of Use



Point of Entry

Aqua Flo Filtration Products

All Aqua Flo Filtration products provide durable, high-quality reliable performance.

The **Aqua Flo Platinum line** features top-of-the-line performance plus **3rd party certification** which is sometimes required by local plumbing codes.

AQUA FLO® PLATINUM

NSF®

Visit **www.nsf.org** for specific details on certification

IAPMO R&T WATER QUALITY PLATINUM SEAL IAPMO RESEARCH AND TESTING

Visit **www.iapmo.org** for specific details on certification

The **Aqua Flo Value line** also offers great performance and durability at a more economical price point.

AQUA FLO®

Aqua Flo Filtration Products

Filter Housings

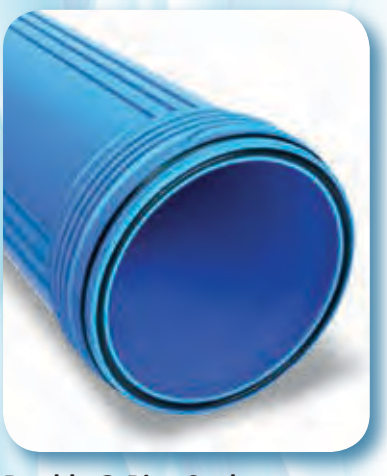
Filter Housings come in different sizes, colors, materials of construction and offer different features.

Here is a quick breakdown:

- **Size** – Required flow rates and installation space will determine the size of the housing. Housings typically come in four sizes: 2.5”x 10”, 2.5”x 20”, 4.5”x 10”, 4.5”x 20”
- **Color** – Transparent or Opaque (Blue). Transparent housings allow for visual inspection of the cartridges but are less durable and not suitable for outdoor applications.
- **Material of Construction** - Plastic is standard for most applications. Stainless steel is used for higher temperature applications.

Features – Some housings provide additional unique features:

- **Valve-in-Head** – allows you to bypass or shut off the water during cartridge replacement.
- **Pressure Relief Button** – relieves pressure from the housing prior to changing cartridge
- **Stainless Steel Threads** – reduces possibility of cross threading and allows for tighter pipe fit
- **Double O-Ring** – ensures added seal insurance protecting from leaks



Double O-Ring Seal
(Aqua Flo Platinum Only)

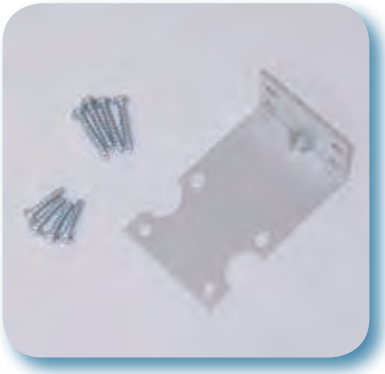
Pressure Relief Button

Valve-in-Head

Filter Housing Kits

All Aqua Flo® Point-of-Use Water Filter Housings are easy to install and come with a mounting bracket and hardware plus sump wrench for easy sump removal. Filter cartridges are sold separately.

Sump Wrench



Mounting Bracket and Hardware

WARNING:
Do not use on drinking water supplies, which are microbiologically unsafe or of unknown quality without first adequately disinfecting the water. Protect against freezing to prevent cracking of the filter and water leakage.

NOTE:
All dimensions and micron ratings are nominal. The manufacturer reserves the right to make product improvements which may deviate from the specifications and descriptions stated herein, without obligation to change previously manufactured products or to note the change.
We recommended replacing the clear sump every 5 years.
Do not subject to freezing temperatures.

Aqua Flo Filtration Products

Filter Housings

AQUA FLO® PLATINUM


P-H-PR-20BV


P-H-PR-20


P-H-PR-10


P-H-PR-10BV


P-SL-10-1/2-NPR

Aqua Flo Platinum™ Housings

Item #	Model Description	Features	Filter Size (In)	Inlet/Outlet Size NPT (In)	Color	Flow Rate (USGPM	Dimensions A X B (In)	Weight (Lbs)	Certification
36051	HOUSING, P-H-PR-10-34	Pressure Relief, Double O-Ring	2.5" x 10"	3/4"	Blue	4	5 X 12	4	NSF 42
36053	HOUSING, P-H-PR-10BV-1	Pressure Relief, Double O-Ring	4.5" x 10"	1"	Blue	15	7 X 14	6	NSF 42
36112	HOUSING, P-H-PR-20BV-1	Pressure Relief, Double O-Ring	4.5" X 20"	1"	Blue	20	7 X 24	8	NSF 42
36237	HOUSING, P-SL-10-1/2-NPR	NA	2.5" x 10"	1/2"	Blue	4	4 X 12	4	NSF 42
36273	HOUSING, P-H-PR-20-34	Pressure Relief, Double O-Ring	2.5" x 10"	3/4"	Blue	4	5 X 23	7	NSF 42

*NSF-42 for Material Safety and Structural Integrity Only

Aqua Flo™ Housings

Item #	Model Description	Features	Filter Size (In)	Inlet/Outlet Size NPT (In)	Color	Flow Rate (USGPM	Dimensions A X B (In)	Weight (Lbs)	Certification	Max. operating pressure	Temperatures
26065	HOUSING, WVIH34SS	Valve-in-Head, SS Thread	2.5" x 10"	3/4"	Clear	4	5" x 13.5"	4	No	100 or 90 psi?	40°C - 100°F
26066	HOUSING, WCT34SS	Pressure Relief, SS Threads	2.5" x 10"	3/4"	Clear	4	5.25" x 12.25"	4	No	100 or 90 psi?	40°C - 100°F
26258	HOUSING, H-PR-10BV-1	Pressure Relief	4.5" x 10"	1"	Blue	15	7.25" x 14"	6	No	100 psi	40°C - 100°F
26259	HOUSING, H-PR-20BV-1	Pressure Relief	4.5" x 20"	1"	Blue	20	7.25" x 24"	8	No	90 psi	40°C - 100°F
26261	HOUSING, H-PR-20BV-34	Pressure Relief	4.5" x 20"	3/4"	Blue	20	7.25" x 24"	8	No	90 psi	40°C - 100°F
26262	HOUSING, H-PR-10BV-34	Pressure Relief	4.5" x 10"	3/4"	Blue	15	7.25" x 14"	6	No	100 psi	40°C - 100°F
26263	HOUSING, H-PR-20BV-15	Pressure Relief	4.5" x 20"	1.5"	Blue	20	7.25" x 24"	7	No	90 psi	40°C - 100°F
26264	HOUSING, H-PR-10-34	Pressure Relief	2.5" x 10"	3/4"	Blue	4	5.25" x 12.25"	4	No	100 psi	40°C - 100°F
26265	HOUSING, H-PR-20-34	Pressure Relief	2.5" x 20"	3/4"	Blue	4	5.25" x 22.5"	7	No	100 psi	40°C - 100°F

AQUA FLO®

Specifications:

- Max. Water Temperature: 30°C (100°F)
- Min. Water Temperature: 2°C (35°F)
- Max. Water Pressure; 100 psi (689 kPa)
- Materials of Construction: Reinforced Polypropylene (cap and blue sump) & Styrene-Acrilonitrile (clear sump)
- Housing O-Ring: EPDM
- Pressure Relief Button: Nylon
- Limited One Year Warranty

Aqua Flo Filtration Products

Cartridge Selection Guide

Model #	Scale and Rust Particles	Coarse Sand	Sand/ Dirt/ Silt	Fine Dirt/ Silt/ Sand	Extra Fine Dirt/Silt/ Sand	Bad Taste & Odor	Aesthetic Chlorine: Taste & Odor
Pleated Polyester Cartridge (PPC) Filter							
PPC-1-10 PPC-5-20BV P-PPC-5-BV	✓	✓	✓	✓	✓		
PPC-20-10BV	✓	✓	✓				
PPC-20-20BV	✓	✓	✓				
Dual Gradient (DG) Density Cartridge Filter**							
DG-25-1-10BV DG-50-5-20BV P-DG-50-5-20BV	✓	✓	✓	✓	✓		
DG-75-25-10BV DG-75-25-20BV	✓	✓	✓				
Carbon Block (CB) Cartridge Filter (†)							
P-CCB-1-10 P-CB-10-20BV CCB-1-10 CB-10-20BV						✓	✓
Pleated Polyster Reusable (PR) Cartridge Filter							
PR-30-10BV P-PR-30-10BV P-PR-30-20BV PR-30-20BV	✓	✓					
Radial Flow (RF) Granular Activated Carbon Cartridge Filter							
RF-20, RF-20BV P-RF-20BV						✓	✓
Impregnated Carbon Cellulose (ICC) Dual Purpose Filter (*) (‡)							
ICC-5-10 P-CC-5-10	✓	✓	✓	✓	✓	✓	✓
ICC-20-20BV	✓	✓	✓			✓	✓
Impregnated Carbon Polyester (ICP) Dual Purpose Filter (‡)							
ICP-10-10	✓	✓	✓	✓	✓	✓	✓
ICP-10-20BV	✓	✓	✓			✓	✓

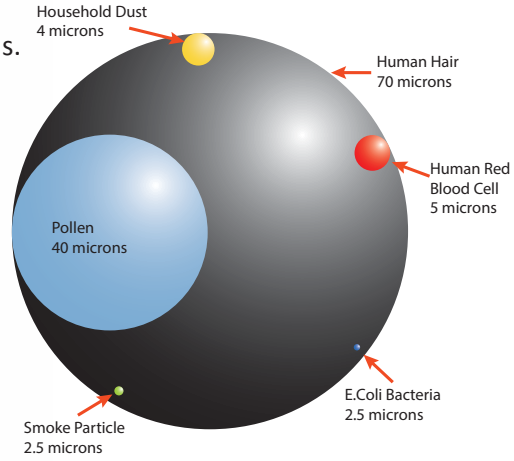
Model #	Scale and Rust Particles	Coarse Sand	Sand/ Dirt/ Silt	Fine Dirt/ Silt/ Sand	Extra Fine Dirt/Silt/ Sand	Bad Taste & Odor	Aesthetic Chlorine: Taste & Odor
Pleated Celluloe (PC) Cartridge Filter*							
PC-20-10 P-PC-20-20BV PC-20-20BV	✓	✓	✓				
Granular Activated Carbon (GAC) Cartridge Filter (††)							
CGACC-10 CGAC-20BV						✓	✓
Spun Poly Bonded (SPB) Cartrudge Filter							
SPB-1-10 SPB-5-20 P-SPB-5-20	✓	✓	✓	✓	✓		
Polypropylene Melt Blown (PPMB) Filter Cartridge							
PPMB-5-10 PPMB-5-20BV	✓	✓	✓	✓	✓		
PPMB-10-10, PPMB-10-20BV	✓	✓	✓	✓			
PPMB-25-10	✓	✓	✓				
PPMB-50-10	✓	✓					
PPMB-25-20	✓	✓	✓				
PPMB-50-20	✓	✓					
PPMB-20-40	✓	✓	✓				
PPMB-20-10BV	✓	✓	✓				
PPMB-20-20BV	✓	✓	✓				
String Wound (SW) Cartridge Filter							
SW-5-10 P-SW-5-10 SW-5-20	✓	✓	✓	✓	✓		
SW-30-10 P-SW-30-10 SW-30-10	✓	✓					

Filter Cartridges

There is an overwhelming selection of cartridges to choose from. We offer a range of popular cartridges to cover most water quality needs. Your Professional Water Specialist can help determine the correct filtration products for your needs.

What is a Micron Rating?

A micron rating is also common for most cartridges. One micron is equivalent to 0.000039 inches (the diameter of a human hair is 50 to 70 microns). Choosing the right micron rating is a balance between performance and cartridge life. If you chose a smaller micron rating and the cartridge is loading up too fast then a higher micron rated cartridge may provide a better balance.



Aqua Flo Platinum Filters

AQUA FLO® PLATINUM

Carbon Block (CB) Cartridge Filter

The CB cartridge filter is suitable for high capacity chlorine and bad taste and odor reduction from drinking water. These filters are also used for sediment filtration, making them a great choice for pre-filtering water for reverse osmosis applications. They make an ideal choice for a wide range of residential, food service, commercial and industrial applications.

Item #	Model #	Maximum Size	Micron	Capacity (Gallons)	Flow Rate (gpm)
36002	P-CB-0.5-10	2.5" X 10"	.5	10000 @ 1.0	1.0 gpm
36008	P-CB-0.5-20BV	4.5" X 20"	.5	40000 @ 6.0	6.0 gpm
36012	P-CB-10-10	2.5" X 10"	10	8000 @ 1.0	1.0 gpm
36015	P-CB-10-10BV	4.5" X 10"	10	16000 @ 3.0	3.0 gpm
36017	P-CB-10-20	2.5" X 20"	10	16000 @ 2.0	2.0 gpm
36020	P-CB-10-20BV	4.5" X 20"	10	32000 @ 6.0	6.0 gpm
36023	P-CB-5-10	2.5" X 10"	5	8000 @ 1.0	1.0 gpm
36025	P-CB-5-10BV	4.5" X 10"	5	16000 @ 3.0	3.0 gpm
36027	P-CB-5-20	2.5" X 20"	5	16000 @ 2.0	2.0 gpm
36029	P-CB-5-20BV	4.5" X 20"	5	32000 @ 6.0	6.0 gpm
36032	P-CCB-1-10	2.5" X 10"	1	8000 @ 1.0	1.0 gpm
36034	P-CCB-5-10	2.5" X 10"	5	8000 @ 1.0	1.0 gpm
36073	P-LR-0.5-10	2.5" X 10"	.5	6000 @ 1	1.0 gpm

Features:

- High Dirt-Holding Tolerance
  Maximizes Utilization of the Carbon Block
- High porosity maximizes utilization of the carbon block

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Visit **www.nsf.org** for specific details on certification

Dual Gradient (DG) Density Cartridge Filters

DG cartridge filters are made from 100% polypropylene. The progressively loose structure from inside to outside enhance cartridge performance in reduction of dirt, dust and other particles. The two separate gradient layers of the filter enhances the performance such that it achieves a much higher dirt-loading capacity compared to similar size sediment cartridge filters including spun and string-wound. They make an ideal sediment reduction choice for a wide range of residential, food service, commercial and industrial applications.

Item #	Model #	Maximum Size	Micron	Flow Rate (gpm)
36041	P-DG-25-1-20BBV	4.5" x 20"	25.0/1	20.0
36043	P-DG-50-5-10BV	4.5" X 10"	50/5	10.0
36045	P-DG-50-5-20BV	4.5" X 20"	50/5	20.0
36047	P-DG-75-25-10BV	4.5" X 10"	75/25	10.0
36049	P-DG-75-25-20BV	4.5" X 20"	75/75	20.0

Features:

- No Fiber release and media migration
- Designed for purity, bacteria and chemical resistance
- Two Separate Gradient density layers enhance cartridge performance
- Three times the dirt-holding capacity than other traditional sediment filters

* **IAPMO R & T Certified against NSF 42 for Material Safety Only**

*Impregnated Carbon Cellulose (ICC) Dual Purpose Filter

The ICC cartridge filter has a dual benefit for sediment filtration and reduction of chlorine and bad taste and odor from drinking water. These carbon wrap sediment cartridges consist of polypropylene melt blown core with carbon impregnated outer layer wrap. It is an economical solution for general water filtration requirements. This filter has high dirt-loading capacity and is recommended for chlorinated water supplies. These dual-purpose cartridges are well suited for residential applications, and are great polishing filters for closedloop water stream systems. The netting and reinforced support provide strength to the filter.

Part #	Model #	Maximum Size	Micron	Capacity (Gallons)	Flow Rate (gpm
36151	P-ICC-5-5	2.5" X 5"	5	250 @ 0.5	0.5
36062	P-ICC-5-10	2.5" X 10"	5	100 @ 1.0	2.0
36064	P-ICC-5-20	2.5"X20"	5	100 @ 1.0	2.0

Item 36151 & 36064 are NSF / ANSI 42 for Material Safety Only. Item
Item 36062 is IAPMO R & T Certified to NSF / ANSI 42 Standards.

Features:

- Provides sediment filtration as well as taste/odor /chlorine reduction
- High dirt loading capacity
- External netting for additional strength

Aqua Flo Platinum Filters

Impregnated Carbon Polyester (ICP) Dual Purpose Filter

The ICP cartridge filter has a dual benefit for sediment filtration and reduction of chlorine and bad taste and odor from drinking water. These carbon wrap sediment cartridges consist of polypropylene melt blown cores with carbon impregnated outer layer wraps. It is an economical solution for general water filtration requirements. This filter is recommended for chlorinated water supplies. These dual-purpose cartridges are well suited for residential applications and are great polishing filters for closed-loop water stream systems.

Item #	Model #	Maximum Size	Micron	Capacity (Gallons)	Flow Rate (gpm)
36066	P-ICP-10-10BV	4.5" X 10"	10	100 @ 1	2 gpm
36182	P-ICP-10-20	2.5"X20"	10	1000 @ 2	2 gpm

Features:

- Provides sediment filtration as well as taste/odor /chlorine reduction
- High dirt loading capacity
- External netting for additional strength

Material Information

End Cap Material - Polypropylene
Core - Polypropylene
Gasket – Silicon/PVC
Filter Media – Carbon Impregnated Polyester
Netting - Polypropylene

Pleated Polyester Reusable (PR) Cartridge Filter

PR cartridge filters are made from reusable polyester fibers which are pleated to maximize dirt holding capacity. These cartridge filters are multipurpose.

Item #	Model #	Maximum Size	Micron	Capacity (Gallons)	Flow Rate (gpm)
36076	P-PR-30-10	2.5"X10"	30.0	9600	10.0
36078	P-PR-30-10BV	4.5" X 10"	30.0	24000	10.0
36083	P-PR-30-20BV	4.5" X 20"	30.0	48000	10.0
36085	P-PR-50-10	2.5"X10"	50.0	9600	10.0
36087	P-PR-50-10BV	4.5" X 10"	50.0	24000	10.0

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Features:

- Pleated design maximizes dirt-holding capacity
- Durable, versatile and reusable
- Polyester media is bacteria and chemical resistant
- Nominal 30-micron rating and nominal 50-micron rating

Radial Flow (RF) Granular Activated Carbon Cartridge Filters

The RF cartridge filters are the solution for effective reduction of chlorine and bad taste and odor. These filters provide low pressure drop and carbon fines released from the filter are much less compared to the same size GAC style cartridge filter.

Features:

- Ideal for POE (whole house) and other high flow rate applications
- Unique design reduces carbon fines in filtered water
- Very low pressure drop

Item #	Model #	Maximum Size	Micron	Capacity (Gallons)	Flow Rate (gpm)
36089	P-RF-10BV	4.5" X 10"	N/A	15,000 @ 3.0	10.0
36091	P-RF-20BV	4.5" X 20"	N/A	30,000 @ 6.0	10.0

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Aqua Flo Platinum Filters

AQUA FLO® PLATINUM

Spun Poly Bonded (SPB) Cartridge Filters

The SPB filters are manufactured from 100% polypropylene which is resistant to chemical and less prone to bacterial attack. Also they do not impart any taste and odor to the water.

Features:

- Use on chlorinated or non-chlorinated supplies.
- Designed for purity, bacteria and chemical resistance
- Spun fibers form a true gradient
- Density from outer to inner surfaces

Item #	Model #	Maximum Size	Micron	Flow Rate (gpm)
36095	P-SPB-25-10	2.5" X 10"	25.0	5 gpm
36097	P-SPB-5-10	2.5" X 10"	5.0	5 gpm
36099	P-SPB-5-20	2.5" X 20"	5.0	10 gpm

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Polypropylene Melt Blown (PPMB) Filter Cartridges

The PPMB cartridge filters are made by thermally bonding polypropylene microfibers for higher filtration efficiency performance. The polypropylene material is chemical resistant and not prone to bacterial attack. They will also not add any taste, color and odor to the water. They are available in wide variety of sizes and micron ratings.

Item #	Model #	Maximum Size	Micron	Flow Rate (gpm)
36198	P-PMB-10-5	2.5" X 10"	5	2 gpm
36199	P-PMB-10-10	2.5" X 10"	10	2 gpm
36200	P-PMB-10-25	2.5" X 10"	25	2 gpm
36202	P-PMB-20-1	2.5" X 20"	1	5 gpm
36203	P-PMB-20-5	2.5" X 20"	5	5 gpm
36204	P-PMB-20-10	2.5" X 20"	10	5 gpm
36205	P-PMB-20-25	2.5" X 20"	25	5 gpm
36249	P-PMB-10-1	2.5" X 10"	1	2 gpm
36250	P-PMB-10-50	2.5" X 10"	50	2 gpm
36251	P-PMB-20-50	2.5" X 20"	50	5 gpm
36252	P-PMB-30-1	2.5" X 30"	1	6 gpm
36254	P-PMB-30-25	2.5" X 30"	25	6 gpm

Features:

- Constructed from high quality polypropylene filter media for higher filtration efficiency
- Thermally bonded micro-fiber construction for high strength
- Available in micron ratings from 1 to 50 and lengths from 10"- 40"

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*String Wound (SW) Polypropylene Cartridge Filters

SW cartridge filters are manufactured from polypropylene cord which is wound around the polypropylene core. These cartridge filters are economical solution for reduction of sediment, sand, rust and scale particles from the drinking water.

Item #	Model #	Maximum Size	Micron	Flow Rate (gpm)
36101	P-SW-10-10	2.5" X 10"	10	10 gpm
36102	P-SW-1-20	2.5" X 20"	1	10 gpm
36104	P-SW-30-10	2.5" X 10"	30	10 gpm
36109	P-SW-5-10	2.5" X 10"	5	10 gpm
36138	P-SW-5-10BV	4.5" X 10"	5	15 gpm
36140	P-SW-25-10B	4.5" X 10"	25	15 gpm
36141	P-SW-1-20BV	4.5" X 20"	1	20 gpm
36142	P-SW-5-20BV	4.5" X 20"	5	20 gpm
36143	P-SW-25-20BV	4.5" X 20"	25	20 gpm
**36241	P-SW-100-20BV	4.5" X 20"	100	20 gpm

****Not certified**

Features:

- String wound filters reduces sediment from a variety of liquids
- Low pressure drop
- Withstand high temperatures
- Wide chemical compatibility

* **IAPMO R & T Certified against NSF 42 for Material Safety Only**

Aqua Flo Platinum Filters

Pleated Cellulose (PC) Filter Cartridges

The PC cartridge filters are made from pleated cellulose media and are recommended for general water filtration requirements.

Features:

- Pleated design maximizes dirt-holding capacity
- Designed for general water filtration purposes
- Nominal 20-micron rating
- Cellulose based material

Item #	Model #	Maximum Size	Micron	Flow Rate (gpm)
36154	P-PC-20-10	2.5" X 10"	20.0	10 gpm
36156	P-PC-20-10BV	4.5" X 10"	20.0	10 gpm
36157	P-PC-20-20BV	4.5" X 20"	20.0	20 gpm

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Visit **www.nsf.org** for specific details on certification

Pleated Polyester Cartridge (PPC) Filter

The PCP cartridge filters are made from resin impregnated cellulose and polyester fibers. They are constructed with thermally bonded media with end caps and inner core heat sealed together.

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Item #	Model #	Maximum Size	Micron	Flow Rate (gpm)
36122	P-PPC-5-10	2.5" X 10"	5.0	10 gpm
36130	P-PPC-5-10BV	4.5" X 10"	5.0	10 gpm
36134	P-PPC-5-20BV	4.5" X 20"	5.0	20 gpm

NSF/ANSI 42 for Material Safety Only.
Visit **www.nsf.org** for specific details on certification

Features:

- Special formulation of resin impregnated cellulose and polyester fibers
- Provides higher wet strength than regular cellulose cartridges
- High flow rate and high dirtholding capacity
- Wide Variety of sizes and micron ranges available

AQUA FLO® PLATINUM

Aqua Flo Economy Filters

AQUA FLO®

Carbon Block (CB) Cartridge Filter

The CB cartridge filter is suitable for high capacity chlorine and bad taste and odor reduction from drinking water. These filters are also used for sediment filtration, making them a great choice for pre-filtering water for reverse osmosis applications. They make an ideal choice for a wide range of residential, food service, commercial and industrial applications.

Item #	Model #	Maximum Size	Micron	Capacity (Gallons)	Flow Rate (gpm)
26192	CCB-1-10	2.5" X 10"	1	10,000 gallons @ 1 gpm	1 gpm
26193	CCB-5-10	2.5" X 10"	5	6,000 gallons @ 1 gpm	1 gpm
26194	CB-0.5-10	2.5" X 10"	0.5	20,000 gallons @ 1 gpm	1 gpm
26195	CB-5-10	2.5" X 10"	5	6,000 gallons @ 1 gpm	1 gpm
26196	CB-10-10	2.5" X 10"	10	3,000 gallons @ 1 gpm	1 gpm
26197	CB-0.5-20	2.5" X 20"	0.5	45,000 gallons @ 2 gpm	2 gpm
26198	CB-5-20	2.5" X 20"	5	12,000 gallons @ 2 gpm	2 gpm
26199	CB-10-20	2.5" X 20"	10	6,000 gallons @ 2gpm	2 gpm
26201	CB-0.5-10BV	4.5" X 10"	0.5	50,000 gallons @ 2 gpm	2 gpm
26202	CB-5-10BV	4.5" X 10"	5	22,000 gallons @ 2 gpm	2 gpm
26203	CB-10-10BV	4.5" X 10"	10	15,000 gallons @ 2gpm	2 gpm
26204	CB-0.5-20BV	4.5" X 20"	0.5	150,000 gallons @ 4gpm	4 gpm
26205	CB-5-20BV	4.5" X 20"	5	40,000 gallons @ 4 gpm	4 gpm
26206	CB-10-20BV	4.5" X 20"	10	30,000 gallons @ 4 gpm	4 gpm

Features:

- High Dirt-Holding Tolerance
  Maximizes Utilization of the Carbon Block
- High porosity maximizes utilization of the carbon block

Dual Gradient (DG) Density Cartridge Filters

DG cartridge filters are made from 100% polypropylene. The progressively loose structure from inside to outside enhance cartridge performance in reduction of dirt, dust and other particles. The two separate gradient layers of the filter enhances the performance such that it achieves a much higher dirt-loading capacity compared to similar size sediment cartridge filters including spun and string-wound. They make an ideal sediment reduction choice for a wide range of residential, food service, commercial and industrial applications.

Item #	Model #	Maximum Size	Micron	Flow Rate (gpm)
26207	DG-25-1-10BV	4.5" X 10"	25/1	10 gpm
26208	DG-50-5-10BV	4.5" X 10"	50/5	10 gpm
26209	DG-75-25-10BV	4.5" X 10"	75/25	10 gpm
26210	DG-25-1-20BVV	4.5" x 20"	25/1	20 gpm
26211	DG-50-5-20BV	4.5" X 20"	50/5	20 gpm
26212	DG-75-25-20BV	4.5" X 20"	75/25	20 gpm

Features:

- No Fiber release and media migration
- Designed for purity, bacteria and chemical resistance
- Two Separate Gradient density layers enhance cartridge performance
- Three times the dirt-holding capacity than other traditional sediment filters

Impregnated Carbon Cellulose (ICC) Dual Purpose Filter

The ICC cartridge filter has a dual benefit for sediment filtration and reduction of chlorine and bad taste and odor from drinking water. These carbon wrap sediment cartridges consist of polypropylene melt blown core with carbon impregnated outer layer wrap. It is an economical solution for general water filtration requirements. This filter has high dirt-loading capacity and is recommended for chlorinated water supplies. These dual-purpose cartridges are well suited for residential applications, and are great polishing filters for closedloop water stream systems. The netting and reinforced support provide strength to the filter.

Item #	Model #	Maximum Size	Micron	Capacity (Gallons)	Flow Rate (gpm)
26278	ICC-5-10	2.5" X 10"	5	2,500 gallons @ 1 gpm	5 gpm
26189	ICC-20-20BV	4.5" X 20"	20	7,500 gallons @ 4 gpm	10 gpm

Features:

- Provides sediment filtration as well as taste/odor /chlorine reduction
- High dirt loading capacity
- External netting for additional strength

Aqua Flo Economy Filters

AQUA FLO®

Impregnated Carbon Polyester (ICP) Dual Purpose Filter

The ICP cartridge filter has a dual benefit for sediment filtration and reduction of chlorine and bad taste and odor from drinking water. These carbon wrap sediment cartridges consist of polypropylene melt blown cores with carbon impregnated outer layer wraps. It is an economical solution for general water filtration requirements. This filter is recommended for chlorinated water supplies. These dual-purpose cartridges are well suited for residential applications and are great polishing filters for closed-loop water stream systems.

Item #	Model #	Maximum Size	Micron	Capacity (Gallons)	Flow Rate (gpm)
26190	ICP-10-10	2.5" X 10"	5	2,500 gallons @ 1 gpm	5 gpm

Features:

- Provides sediment filtration as well as taste/odor /chlorine reduction
- High dirt loading capacity
- External netting for additional strength

Material Information

End Cap Material - Polypropylene
Core - Polypropylene
Gasket – Silicon/PVC
Filter Media – Carbon Impregnated Polyester
Netting - Polypropylene

Pleated Polyester Reusable (PR) Cartridge Filter

Item #	Model #	Maximum Size	Micron	Capacity (Gallons)	Flow Rate (gpm)
26242	PR-30-10BV	4.5" X 10"	30	24,000 @ 10.0 gpm	10 gpm
26243	PR-50-10BV	4.5" X 10"	50	24,000 @ 10.0 gpm	10 gpm
26244	PR-30-20BV	4.5" X 20"	30	48,000 @ 10.0 gpm	20 gpm

PR cartridge filters are made from reusable polyester fibers which are pleated to maximize dirt holding capacity. These cartridge filters are multipurpose.

Features:

- Pleated design maximizes dirt-holding capacity
- Durable, versatile and reusable
- Polyester media is bacteria and chemical resistant
- Nominal 30-micron rating and nominal 50-micron rating

Radial Flow (RF) Granular Activated Carbon Cartridge Filters

The RF cartridge filters are the solution for effective reduction of chlorine and bad taste and odor. These filters provide low pressure drop and carbon fines released from the filter are much less compared to the same size GAC style cartridge filter.

Features:

- Ideal for POE (whole house) and other high flow rate applications
- Unique design reduces carbon fines in filtered water
- Very low pressure drop

Item #	Model #	Maximum Size	Micron	Capacity (Gallons)	Flow Rate (gpm)
26253	RF-20	2.5' X 20"	N/A	6,000 gallons @ 2 gpm	4 gpm
26254	RF-10	2.5" X 10"	N/A	3,000 gallons @ 1 gpm	1 gpm
26255	RF-10BV	4.5" X 10"	N/A	35,000 gallons @ 2 gpm	4 gpm
26256	RF-20BV	4.5" X 20"	N/A	70,000 gallons @ 4 gpm	8 gpm

Spun Poly Bonded (SPB) Cartridge Filters

The SPB filters are manufactured from 100% polypropylene which is resistant to chemical and less prone to bacterial attack. Also they do not impart any taste and odor to the water.

Features:

- Use on chlorinated or non-chlorinated supplies.
- Designed for purity, bacteria and chemical resistance
- Spun fibers form a true gradient
- Density from outer to inner surfaces

Item #	Model #	Maximum Size	Micron	Flow Rate (gpm)
26213	SPB-1-10	2.5" X 10"	1	4 gpm
26222	SPB-5-10	2.5" X 10"	5	5 gpm
26221	SPB-5-20	2.5" X 20"	5	10 gpm

Aqua Flo Economy Filters

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Granular Activated (CGAC) Carbon Cartridge Filter

The CGAC cartridge filters are effective in reduction of chlorine and other bad taste and odor from drinking water.
CGACC cartridge filter contain coconut shell based activated carbon which is an environment friendly but also effective in reducing certain compounds better than the coal based granular activated carbon filter cartridges.

Features:

- Effective taste/odor/ chlorine reduction
- Designed for maximum adsorption
- Post filter to reduce carbon fines

Item #	Model #	Maximum Size	Micron	Flow Rate (gpm)
26185	CGACC-10	2.5" X 10"	7,500 gallons @ 1 gpm	1 gpm @ 7 psi drop
26277	CGAC-10	2.5" X 10"	5,000 gallons @ 1.0 gpm	1 gpm @ 7 psi drop
26186	CGAC-20	2.5" X 20"	10,000 gallons @ 2.0 gpm	2 gpm @ 15 psi drop
26187	CGAC-BV	4.5" X 10"	12,500 gallons @ 2.0 gpm	2 gpm @ 5 psi drop
26188	CGAC-20BV	4.5" X 20"	25,000 gallons @ 4.0 gpm	4 gpm @ 5 psi drop

Polypropylene Melt Blown (PPMB) Filter Cartridges

The PPMB cartridge filters are made by thermally bonding polypropylene microfibers for higher filtration efficiency performance. The polypropylene material is chemical resistant and not prone to bacterial attack. They will also not add any taste, color and odor to the water. They are available in wide variety of sizes and micron ratings.

Features:

- Constructed from high quality polypropylene filter media for higher filtration efficiency
- Thermally bonded micro-fiber construction for high strength
- Available in micron ratings from 1 to 50 and lengths from 10”- 40”

Item #	Model #	Maximum Size	Micron	Flow Rate (gpm)
26269	PPMB-5-10	2.5" X 10"	5	3 gpm
26223	PPMB-10-10	2.5" X 10"	10	4 gpm
26224	PPMB-25-10	2.5" X 10"	25	5 gpm
26225	PPMB-50-10	2.5" X 10"	50	8 gpm
26226	PPMB-1-20	2.5" X 20"	1	4 gpm
26227	PPMB-5-20	2.5" X 20"	5	7 gpm
26228	PPMB-10-20	2.5" X 20"	10	9 gpm
26229	PPMB-25-20	2.5" X 20"	25	11 gpm
26230	PPMB-50-20	2.5" X 20"	50	15 gpm
26231	PPMB-1-40	2.5" X 40"	1	8 gpm
26232	PPMB-5-40	2.5" X 40"	5	14 gpm
26233	PPMB-20-40	2.5" X 40"	20	20 gpm
26234	PPMB-1-10BV	4.5" X 10"	1	6 gpm
26235	PPMB-5-10BV	4.5" X 10"	5	10 gpm
26236	PPMB-10-10BV	4.5" X 10"	10	11 gpm
26237	PPMB-20-10BV	4.5" X 10"	20	14 gpm
26238	PPMB-1-20BV	4.5" X 20"	1	12 gpm
26239	PPMB-5-20BV	4.5" X 20"	5	20 gpm
26240	PPMB-10-20BV	4.5" X 20"	10	20 gpm
26241	PPMB-20-20BV	4.5" X 20"	20	20 gpm

String Wound (SW) Polypropylene Cartridge Filters

SW cartridge filters are manufactured from polypropylene cord which is wound around the polypropylene core. These cartridge filters are economical solution for reduction of sediment, sand, rust and scale particles from the drinking water.

Item #	Model #	Maximum Size	Micron	Flow Rate (gpm)
26273	SW-5-10	2.5" X 10"	5	5 gpm
26246	SW-10-10	2.5" X 10"	10	7 gpm
26247	SW-30-10	2.5" X 10"	30	10 gpm
26249	SW-50-10	2.5" X 10"	50	10 gpm
26250	SW-1-20	2.5" X 20"	1	15 gpm
26251	SW-5-20	2.5" X 20"	5	15 gpm
26252	SW-30-10BV	4.5" X 10"	30	20 gpm

Features:

- String wound filters reduces sediment from a variety of liquids
- Low pressure drop
- Withstand high temperatures
- Wide chemical compatibility

Aqua Flo Economy Filters

Pleated Polyester Cartridge (PPC) Filter

The PCP cartridge filters are made from resin impregnated cellulose and polyester fibers. They are constructed with thermally bonded media with end caps and inner core heat sealed together.

Features:

- Special formulation of resin impregnated cellulose and polyester fibers
- Provides higher wet strength than regular cellulose cartridges
- High flow rate and high dirtholding capacity
- Wide Variety of sizes and micron ranges available

Item #	Model #	Maximum Size	Micron	Flow Rate (gpm)
26174	PPC-1-10	2.5" X 10"	1	5 gpm
26175	PPC-5-10	2.5" X 10"	5	7 gpm
26176	PPC-1-20	2.5" X 20"	1	10 gpm
26177	PPC-5-20	2.5" X 20"	5	13 gpm
26178	PPC-5-10BV	4.5" X 10"	5	18 gpm
26179	PPC-20-10BV	4.5" X 10"	20	20 gpm
26180	PPC-5-20BV	4.5" X 20"	5	20 gpm
26181	PPC-20-20BV	4.5" X 20"	20	35 gpm

Pleated Cellulose (PC) Filter Cartridges

The PC cartridge filters are made from pleated cellulose media and are recommended for general water filtration requirements.

Features:

- Pleated design maximizes dirt-holding capacity
- Designed for general water filtration purposes
- Nominal 20-micron rating
- Cellulose based material

Item #	Model #	Maximum Size	Micron	Flow Rate (gpm)
26276	PC-20-10	2.5" X 10"	20	10 gpm
26182	PC-20-20	2.5" X 20"	20	15 gpm
26183	PC-20-10BV	4.5" X 10"	20	20 gpm
26184	PC-20-20BV	4.5" X 20"	20	35 gpm

Specialty Filters

Water Softening

These cation exchange softening cartridges utilize a bed of sodium form cation resin beads to reduce hardness and scale deposits. The convenient and space-saving design of our WS Series cartridges means that softened water can be provided easily and cost effectively at the exact point of need.

Item #	Model #	Maximum Size	Capacity (grains)
36242	P-WS-10	2.5" X 10"	1,414
36243	P-WS-20	2.5" X 20"	2,520
36244	P-WS-20BV	4.5" X 20"	6,295

Deionization

These high-capacity, semi-conductor grade resin cartridges are ideal for use in pharmaceuticals, medical laboratories, cosmetics, and circuit board printing applications.

Item #	Model #	Maximum Size
36179	P-DI-10	2.5" X 10"
36180	P-DI-20	2.5" X 20"
36178	P-DI-20BB	4.5" X 20"

Iron Reduction

This cartridge helps to eliminate the orange and brown stains often found in sinks, toilets, tubs and other plumbing fixtures.

Item #	Model #	Maximum Size	Capacity (ppm)
36236	P-IR-20BV	4.5" X 20"	1,492 @ 3gpm

In-line Cartridge

Sealed in-line filters feature coconut shell, granular activated carbon, and are designed to reduce unwanted taste, odor and chlorine taste and odor.

Item #	Model #	Maximum Size	Micron
36070	P-IL-GAC-1/4	2" x 10	5
36248	P-IL-CGAC-3/8	2" x 10	5
36230	P-IL-PH-1/4	2" x 10	20

Ice Maker

High grade coconut shell activated carbon and a filter element for sediment removal make this the ideal choice for ice makers and water dispensers. Enjoy clean, clear, great tasting water and ice cubes.

Item #	Model #	Maximum Size
26003	WIM14	2.25" X 8"

Stainless Steel Housings

Features:

- Heavy-duty units for smaller filtration systems and point-of-use applications
- Brushed 304 stainless steel sump with a cast brass / nickel plated head
- Ideal for high-pressure / hot water applications
- Utilizes double open-end cartridges

Materials of Construction	
Housing	Brushed 304 Stainless Steel
Head	Brass / Nickel Plated
Max Temperature	180°F (82°C)
Pipe Size	3/4" NPT
Sealing Gaskets	Buna-N, Cellulose Fiber

Tin Core-String Wound Cartridges

- Tin core and string wound natural cotton media is suitable for general purpose high temperature filter applications with water, oils, solvents, paints and other non-FDA (non-potable) applications.
- Maximum Cartridge Temperature - 180°F (82°C)
- 2.5" O.D. Core x 10" Length (suitable for #10 and ST-1 Housings)
- Available in 5, 10, 25, 50 micron ratings

304SS Core String Wound Cartridges

- Maximum Cartridge Temperature - 180°F (82°C)
- 2.5 O.D. Core x 10" Length (suitable for #10 and ST-1 Housings)
- Available in 5, 10, 25, 50 micron ratings

Cartridges

Item #	DESCRIPTION	WEIGHT (LBS)
26134	Sediment, 10" 10 Micron, Hot Water, Tin Core, Non-potable	0.5
26135	Sediment, 10" 25 Micron, Hot Water, Tin Core, Non-potable	0.5
26136	Sediment, 10" 50 Micron, Hot Water, Tin Core, Non-potable	0.5
26137	Sediment, 10" 5 Micron, Hot Water, Non-potable SS	0.5
26138	Sediment, 10" 10 Micron, Hot Water, Non-potable SS	0.5
26139	Sediment, 10" 25 Micron, Hot Water, Non-potable SS	0.5
26140	Sediment, 10" 50 Micron, Hot Water, Non-potable SS	0.5
26141	Sediment, 10" 5 Micron, Hot Water, Tin Core, Non-potable	0.5

Housings

Item #	Model	Maximum Dimensions	Flow Rate (gpm)	Maximum Pressure
36146	SS-1	14 1/8" x 4 1/8" (360mm x 105mm)	10 gpm (38 lpm)	250 psi (17.2 bar)
36147	SS-2	24" x 4 1/8" (610mm x 105mm)	15 gpm (57 lpm)	250 psi (17.2 bar)
36148	SS-3	33 5/8" x 4 1/8" (853mm x 105mm)	20 gpm (76 lpm)	250 psi (17.2 bar)

* Maximum cartridge diameter 3" (76mm)

#36145 Side Stream Filter Assembly

Pre-Assembled SS-1 Housing with stainless steel flow indicator and brass shutoffs.

Side stream filters are primarily used for filtering a portion of the water in a closed loop boiler system to protect the boiler, controls and circulating pumps

Dimensions: 14 1/8" (h) x 20 3/4" (w) x 4 1/8" (d)

Bag Filters

BF Series (Polypropylene Felt)

- Filtration ratings from 1 to 200 microns to comply with any filtration requirement
- Manufactured from felt due to its high solids loading capabilities versus similar mesh fabrics
- The media is created by needle-punching two layers of synthetic fibers together in a supporting scrim
- A glazed finish, created by melting the outermost surface fibers, is used to produce a bond that reduces the possibility of migration.

Item #	Model #	Maximum Size	Micron
36184	P-BF-410-1	4" X 10"	1
36185	P-BF-410-10	4" X 10"	10
36186	P-BF-410-100	4" X 10"	100
36187	P-BF-410-25	4" X 10"	25
36188	P-BF-410-5	4" X 10"	5
36189	P-BF-410-50	4" X 10"	50
36190	P-BF-420-1	4" X 20"	1
36191	P-BF-420-10	4" X 20"	10
36192	P-BF-420-100	4" X 20"	100
36193	P-BF-420-200	4" X 20"	200
36194	P-BF-420-25	4" X 20"	25
36195	P-BF-420-5	4" X 20"	5
36196	P-BF-420-50	4" X 20"	50

High Flow Stainless Steel Housings

Features

- Side Inlet / Outlet connections
- Designed for industrial and commercial application.
- Stainless steel 304/316L heavy duty construction
- V Clamp Band for quick cartridge replacement
- Standard housings accept OD2.5" DOE cartridge

Item #	Model	Recommended Max. Flowrates GPM (L/S)*	Max No.of Cartridges	Height x Outside Diameter Inches (mm)
36222	Housing,P-SS-BC-4	28 (1.77)	4 x 1	23.8" x 12.4"(603 x 315)
36223	Housing,P-SS-BC-8	56 (3.53)	4 x 2	33.8" x 12.4"(857 x 315)
36219	Housing,P-SS-BC-12	84 (5.30)	4 x 3	43.8" x 12.4"(1111 x 315)
36220	Housing,P-SS-BC-16	110 (6.94)	4 x 4	53.8" x 12.4"(1365 x 315)
36221	Housing,P-SS-BC-20	125 (7.89)	5 x 4	53.8" x 12.4"(1365 x 315)

* Flowrate is for housing. Flow rate of the cartridges may also be a factor depending upon cartridge used.

Inlet/Outlets: 2" MNPT **Vent: 1/4"FNPT** **Drains: 1/2" FNPT**

Max cartridge length: 9 3/4 or 10" (248mm or 254 mm)

Max cartridge diameter: 2.5"

Design Pressure: 150PSI (10.3 Bar)

Design Temperature: 195°f (90.5°c)

Housing, P-SS-BC-8

Accessories

Sump Wrenches

#26007 - Wrench with six notches fits all 10" clear housings.
#92508 - Wrench, H-PR-10 and H-PR-20 Models
#92509 - Wrench, Big Valve Housings, H-PR-BV Models

Aqua Flo Sump O-Rings

#92512 - O-Ring, Sump, Big Value Housings, H-PR-BV
#92513 - O-Ring, Sump, H-PR-10 and H-PR-20
#92060 - O-Ring, Sump, WCT34SS and WVIH34SS
#26022 - O-Ring, Sump, APC and VIH

Marketing Materials

Literature Order Form

Catalog and Consumer Literature

	Item #	Description	Quantity		Item #	Description	Quantity
	80151000	Catalog			80151020	Soft Water Solutions (25/pack)	
	80151001	Price List (Canada)			80151021	Drinking Water Solutions (25/pack)	
	80151031	Price List (USA)			80151023	Problem Water Solutions (25/pack)	
	80155030	Pro Advantage Program Overview Brochure			80151027	Eco Smart Softeners (25/pack)	

Spec Sheets - Aqua Flo

	Item #	Description	Quantity		Item #	Description	Quantity
	80157000	475 Series RO (25/pack)			80157003	Platinum QCRO Series RO(25/pack)	
	80157001	Economy Series RO (25/pack)			80157002	Platinum 1240 Series RO (25/pack)	
	80157019	75GPD HERO RO (25/pack)			80157021	GEN 4 UV (25/pack)	
	80157015	AquaFlo Platinum POU Brochure (25/pack)			80157022	GEN H4 UV (25/pack)	

Marketing Materials

Literature Order Form

Spec Sheets - Aqua Flo - cont'd

	Item #	Description	Quantity		Item #	Description	Quantity
	80157005	GEN 5 UV (25/pack)			80157009	GEN 5 Rack System UV (25/pack)	
	80157006	GEN 5H UV (25/pack)			80157011	UVB Series (25/pack)	
	80157007	GEN 6 UV (25/pack)			80157012	UV20 Series (25/pack)	
	80157008	GEN H6 UV (25/pack)			80157013	UV Big Boy Series (25/pack)	
	80157020	GEN 4 Rack System UV (25/pack)			80157014	EPCB/ UV Add On Series (25/pack)	

POSTERS/BANNERS/MISC.

	Item #	Description	Quantity		Item #	Description	Quantity
	80151033	Carbon Pipe Hanger (25/pack)			80155016	Novo Vinyl Banner with grommets (2x4)	
	80151030	Water Hardness Pipe Hanger (25/pack)			80155025	Acrylic Brochure Stand	
	80155017	Sizing Guide			80160000	Showroom Display ($195.00)	
	80155018	Novo Wholesale Showroom Poster (22x28)			80051105	Water Sample Kit (Mailing Tube, Bottle & Instruction)	

Marketing Materials

Literature Order Form

PRO ADVANTAGE PROGRAM							
	Item #	Description	Quantity		Item #	Description	Quantity
	80155030	Pro Advantage Program Overview Brochure			80155023	Pro Advantage Vehicle Decal	
	80151038	Pro Advantage Help Line Sticker			80155019	Pro Advantage Banner	
	80155022	Pro Advantage Shirt Patch (Sew On)			80155020	Pro Advantage Dealer Showroom Poster	
	80155024	Pro Advantage Window Static Cling Decal					

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Water Conditioning Glossary

Absorption - The process in which one substance is taken into the body of another substance, termed the absorbent. An example is the absorption of water into soil.

Acid - A substance which releases hydrogen ions when dissolved in water. Most acids will dissolve the common metals and will react with a base to form a neutral salt and water.

Activated Carbon - A granular material usually produced by the roasting of cellulose base substances, such as wood or coconut shells, in the absence of air. It has a very porous structure and is used in water conditioning as an adsorbent of organic matter and certain dissolved gases. Sometimes called "activated charcoal."

Adsorption - The process in which matter adheres to the surface of the adsorbent.

Aeration - The process in which air is brought into intimate contact with water, often by spraying water through air or by bubbling air through water. Aeration may be used to add oxygen to the water for oxidation of matter such as iron or to cause the release of dissolved gases such as carbon dioxide or hydrogen sulfide from the water.

Alkalinity - The quantitative capacity of a water or water solution to neutralize an acid. It is usually measured by titration with a standard acid solution of sulfuric acid and expressed in terms of its calcium carbonate equivalent.

Anion - A negatively charged ion in solution such as bicarbonate, chloride or sulfate.

Anion Exchange - An ion exchange process in which anions in solution are exchanged for other anions from an ion exchanger. In demineralization, for example, bicarbonate, chloride and sulfate anions are removed from solution in exchange for a chemically equivalent number of hydroxide anions from the anion exchange resin.

Aquifer - A layer or zone below the surface of the earth which is capable of yielding a significant volume of water. Atom - The smallest particle of an element that can exist either alone or in combination with smaller particles of the same element or of a different element.

Attrition - The process in which solids are worn down or ground down by friction, often between particles of the same material. Filter media and ion exchange materials are subject to attrition during backwashing, regeneration and service.

Backwash - The process in which beds of filter or ion exchange media are subjected to flow opposite to service flow direction to loosen the bed and to flush suspended matter collected during the service run to waste.

Bacteria - Unicellular micro-organisms which typically reproduce by cell division. Although usually classed as plants, bacteria contain no chlorophyll.

Bacteriostatic - A feature of a carbon filter that is supposed to inhibit the growth of bacteria within the filter - usually by the addition of silver.

Base - A substance which releases hydroxyl ions when dissolved in water. Bases react with acids to form a neutral salt and water.

Bed - The ion exchange or filter media in a column or other tank or operational vessel.

Bed Depth - The height of the ion exchange or filter media in the vessel after preparation for service.

Boiling Point - The temperature at which a substance will change from a liquid state to a gaseous or vapor state.

Brackish Water - Water containing between 1000 and 1500 mg/l of dissolved solids is generally considered to be brackish.

Brine (R.O.) - Same as reject water. One of two streams of fluids generated by a reverse osmosis unit. It contains the impurities removed from the feed water.

Brine (Softening) - A strong solution of salt(s), such as sodium chloride, and water used in the regeneration of ion exchange water softeners but also applied to the mixed sodium, calcium and magnesium chloride waste solution from regeneration.

Calcium (Ca) - One of the principal elements making up the earth's crust, the compounds of which, when dissolved, make the water hard. The presence of calcium in water is a factor contributing to the formation of scale and insoluble soap curds which are a means of clearly identifying hard water.

Calcium Hypochlorite (CaCl2O2) - A chemical compound used as a bleach and a source of chlorine water treatment; specifically useful because it is stable as a dry powder and can be formed into tablets.

Capacity - An expression of the quantity of an undesirable material which can be removed by a water conditioner between servicing of the media (i.e. cleaning, regeneration or replacement) as determined under standard test conditions. For ion exchange water softeners, the capacity is expressed in grains of hardness removal between successive regenerations and is related to the pounds of salt used in regeneration. For filters, the capacity may be expressed in the length of time or total gallons delivered between servicing.

Caustic Soda - The common name for sodium hydroxide.

Cation - An ion with a positive electrical charge, such as calcium, magnesium and sodium.

Cation Exchange - Ion exchange process in which cations in solution are exchanged for other cations from an ion exchanger.

Cellulose Acetate (CA) and Cellulose Triacetate (CTA) - A family of synthetic materials based on cellulose used to make reverse osmosis membranes. While CTA is superior to CA, under adverse water conditions both are effective in removing a wide spectrum of impurities from water. The disadvantage of cellulose-type membranes is that they are subject to bacterial attack, particularly in unchlorinated water supplies. CTA has superior bacterial resistance.

Channeling - The flow of water or other solution in a limited number of passages in a filter or ion exchange bed instead of distributed flow through all passages in the bed.

Water Conditioning Glossary

Chloramines - Chemical complexes formed from the reaction between ammonia and chlorine. They are presently being used to disinfect municipal water supplies because, unlike chlorine, they do not combine with organics in the water to form potentially dangerous carcinogens such as trihalomethanes (THMs). Chloramines can exist in three forms, the proportions of which depend on the physical and chemical properties of the water. Water containing chloramines may not be used for fish or kidney dialysis equipment.

Chlorides (Cl) - an ion which forms acids when combined with hydrogen and salts when combined with metal ions. Chlorides can be corrosive and impart a salty taste to water.

Chlorine (Cl2) - A gas widely used in the disinfection of water and an oxidizing agent for organic matter, iron, etc.

Coagulant - A material, such as alum, which will form a gelatinous precipitate in water and cause the agglomeration of finely divided particles into larger particles which can then be removed by settling and/or filtration.

Colloid - Very finely divided solid particles which will not settle out of a solution; intermediate between a true dissolved particle and a suspended solid which will settle out of solution. The removal of colloidal particles usually requires coagulation to form larger particles which may be removed by sedimentation and/or filtration.

Compensated Hardness - A calculated value based on the total hardness - the magnesium to calcium ratio and the sodium concentration of a water. It is used to correct for the reductions in hardness removal capacity caused by these factors in cation exchange water softeners. No single method of calculation has been widely accepted.

Conductivity - The quality or power to carry electrical current. In water, the conductivity is related to the concentration of ions capable of carrying electrical current.

Contact Time - The length of time water is in direct contact with activated carbon (R.O.) or chlorine (chlorination system.) This is a major factor in determining how effectively impurities will be removed.

Corrosion - The destructive disintegration of a metal by electrochemical means.

Cycle Time - The amount of time in seconds elapsed between pump start and pump shut-down.

Dechlorination - The removal of excess chlorine residual, often after super-chlorination.

Deionization (DI) - The removal of all ionized minerals and salts (both organic and inorganic) from a solution by a two-phase ion exchange procedure. First, positively charged ions are exchanged for a chemically equivalent amount of hydrogen ions. Second, negatively charged ions are removed by an ion exchange resin for a chemically equivalent amount of hydrogen ions. The hydrogen and hydroxide ions introduced in this process unite to form water molecules. The term is often used interchangeably with demineralization.

Disinfection - A process in which pathogenic, disease producing bacteria are killed. May involve disinfecting agents such as chlorine or physical processes such as heating.

Dissolved Solids - The weight of matter in true solution in a stated volume of water. Includes both inorganic and organic matter and is usually determined by weighing the residue after evaporation of the water at 105°F or 180°C.

Distillation - The process in which a liquid, such as water, is converted into its vapor state by heating and the vapor cooled and condensed to the liquid state and collected. Used to remove solids and other impurities from water. Multiple distillations are required for extreme purity.

DNA - Deoxyribonucleic acid constituting the genetic material of the chromosome in a cell, responsible for reproductive characteristics.

Drawdown - The amount of water delivered by the storage tank between pump shut-down and pump start.

E Coli (Escherichia Coli) - One of the members of the coliform group of bacteria indicating fecal contamination.

Effluent - The stream emerging from a unit, system or process such as the softened water from an ion exchange softener.

Exhaustion - The state of an ion exchange material in which it is no longer capable of effective function due to the depletion of the initial supply of exchangeable ions. The exhaustion point may be defined in terms of a limiting concentration of matter in the effluent or, in the case of demineralization, in terms of electrical conductivity.

Fecal - Matter containing or derived from animal or human waste.

Feed Pressure - The pressure at which water is supplied to the R.O. module.

Feed Water - A term which refers to the water supply that is put into a water treatment system for processing (removal of impurities.)

Flocculation - The agglomeration of finely divided suspended solids into larger, usually gelatinous, particles. The development of a 'floc' after treatment with a coagulant by gentle stirring or mixing.

Flow Control - A device designed to limit the flow of water or regenerant to a predetermined value over a broad range of inlet water pressures.

Flow Rate - The quantity of water or regenerant which passes a given point in a specified unit of time, often expressed in gallons per minute.

Flux - The flow rate of water through reverse osmosis membranes, per square foot of surface.

Fouling - The process in which undesirable foreign matter accumulates in a bed of filter media or ion exchanger, clogging pores and coating surfaces and thus inhibiting or retarding the proper operation of the bed.

Freeboard - The vertical distance between a bed of filter media or ion exchange material and the overflow or collector for backwash water. The height above the bed of granular media available for bed expansion during backwashing. May be expressed either as a linear distance or a percentage of bed depth.

Grain (gr) - A unit of weight equal to 1/7000 of a pound or 0.0648 gram.

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Grain per Gallon (gpg) - A common basis for reporting water analysis in the United States and Canada. One grain per U.S. gallon equals 17.12 milligrams per liter (mg/l) or parts per million (ppm). One grain per British (Imperial) gallon equals 14.3 mg/l or ppm.

Greensand - A natural mineral, primarily composed of complex silicates, which can be coated with manganese oxide to form a catalytic absorptive surface. This surface is used to attract ferrous iron and manganese as well as to absorb dissolved oxygen which is used to oxidize iron, manganese or hydrogen sulfide.

Hardness - A characteristic of natural water due to the presence of dissolved calcium and magnesium. Water hardness is responsible for most scale formation in pipes and water heaters and forms insoluble "curd" when it reacts with soaps. Hardness is usually expressed in grains per gallon (gpg), parts per million (ppm) or milligrams per liter (mg/l), all as calcium carbonate equivalent.

Hard Water - Water with a total hardness of 1 gpg or more as calcium carbonate equivalent.

Hydrologic Cycle - The natural water cycle, including precipitation of water from the atmosphere as rain or snow, flow of water over or through the earth and evaporation or transpiration to water vapor in the atmosphere.

Hydrogen Sulfide (H2S) - A gas characterized by an offensive odor, commonly referred to as "rotten egg" odor. Flammable and poisonous in high concentrations, corrosive to most metals and can even tarnish silver. Detectable by most people in concentrations as low as 0.5 ppm.

Hydrocharger - Trade name of a particular type of air induction or injector valve.

Hydrolysis - The chemical degradation of an R.O. membrane in water due to certain conditions such as high pH. Cellulose based membranes are quite susceptible to hydrolysis while the TFC type are virtually immune.

Influent - The stream entering a unit, stream or process, such as the hard water entering an ion exchange water softener.

Ion - An atom, or group of atoms, which function as a unit and have a positive or negative electrical charge due to the gain or loss of one or more electrons.

Ion Exchange - A reversible process in which ions are released from an insoluble permanent material in exchange for other ions in a surrounding solution; the direction of the exchange depends upon the affinities of the ion exchanger for the ions present and the concentrations of the ions in the solution.

Iron (Fe) - An element often found dissolved in ground water (in the form of ferrous iron) in concentrations usually ranging from 0-10 ppm (mg/l). It is objectionable in water supplies because of the staining caused after oxidation and precipitation (as ferric hydroxide); because of the tastes; and because of unsightly colors produced when iron reacts with tannins in beverages such as coffee and tea.

Iron Bacteria - Organisms which are capable of utilizing ferrous iron, either from the water or from steel pipe in their metabolism and precipitating ferric hydroxide in their sheaths and gelatinous deposits. These organisms tend to collect in pipelines and tanks during periods of low flow and to break loose in slugs of turbid water to create staining, taste and odor problems.

Magnesium (Mg) - One of the elements making up the earth's crust, the compounds of which, when dissolved in water, make the water hard. The presence of magnesium in water is a factor contributing to the formation of scale and insoluble soap curds.

Manganese (Mn) - An element sometimes found dissolved in ground water, usually with dissolved iron but in lower concentrations. Causes black stains and other problems similar to iron.

Manganese Greensand - Greensand which has been processed to incorporate in its pores and on its surface the higher oxides of manganese. The product has a mild oxidizing power and is often used in the oxidation and precipitation of iron, manganese and/or hydrogen sulfide and their removal from water.

Mechanical Filtration - The process of removing suspended particles from water by a straining action. The finest mechanical filters can remove bacteria as small as 0.2 microns.

Media - The selected materials in a filter that form the barrier to the passage of certain suspended solids or dissolved minerals. (Singular of media is medium).

Milligrams per Liter (mg/l) - A unit concentration of matter used in reporting the results of water and wastewater analysis. In dilute water solutions, it is practically equal to parts per million but varies from the ppm in concentrated solutions such as brine. As most analysis are performed on measured volumes of water, the mg/l is a more accurate expression of the concentration and is the preferred unit of measure.

Micron - A linear measure equal to one millionth of a meter or .00003937 inch. The symbol for the micron is the Greek letter "µ".

Micron Rating - The term applied to a filter or filter medium to indicate the particle size above which all suspended solids will be removed throughout the rated capacity. As used in industry standards, this is an "absolute" not "nominal" rating. (Refer to S-200, Recommended Industry Standards for Household & Commercial Water Filters.)

Mineral - A term applied to inorganic substances such as rocks and similar matter found in the earth strata as opposed to organic substances such as plant and animal matter. Minerals normally have definite chemical composition and crystal structure. The term is also applied to matter derived from minerals such as the inorganic ions found in water. The term has been incorrectly applied to ion exchangers, even though most of the modern materials are organic ion exchange resins.

Mineral Salts - The form in which minerals from dissolved rock exist in water. Same as Total Dissolved Solids. This is the so-called inorganic form of minerals. In excess, they cause water to have a disagreeable taste. Some are harmful to human health.

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Molecular Weight - The sum of the atomic weights of the individual atoms (from a periodic chart) that make up a molecule of a particular substance (e.g. H2O) H=1 atomic weight, 0=16 atomic weight, therefore, molecular weight = 2 + 16 = 18.) Cellulose based membranes can remove substances as light as MW of 300, while TFC type membranes remove substances as light as MW of 200.

Nanometer - A measure of a wavelength in the electromagnetic spectrum. One nanometer equals 109 meter.

Neutralization - In general, the addition of either an acid or a base to a solution as required to produce a neutral solution. The use of alkaline or basic materials to neutralize the acidity of some waters is common practice in water conditioning.

Organic Iron - A ferrous iron molecule which is enveloped in an organically complex molecule that resists oxidation. May be present in water that contains a great deal of colored colloidal turbidity.

Organics - Any of the compounds whose chemical structure is based on carbon (e.g. carbon dioxide, wood, sugar, protein, plastics, methane, THM, TCE, etc.)

Osmosis - A process of diffusion of a solvent, such as water through a semipermeable membrane, which will transmit the solvent but impede most dissolved substances. The normal flow of solvent is from the dilute solution to the concentrated solution. (See Reverse Osmosis).

Osmotic Pressure - The pressure created by the tendency of water to flow in osmosis. Every 100 ppm of TDS generates about 1 pound per square inch (psi) of osmotic pressure. This osmotic pressure must first be overcome by the water pressure for the reverse osmosis membrane to be effective.

Oxidation - A chemical process in which electrons are removed from an atom, ion or compound. The addition of oxygen is a specific form of oxidation. Combustion is an extremely rapid form of oxidation while the rusting of iron is a slow form.

Oxidizing Agents - Any substance that oxidizes another substance and is itself reduced in the process. Common examples include: oxygen, chlorine, potassium permanganate, hydrogen peroxide, iodine and ozone.

Ozone (O3) - An unstable form of oxygen occurring naturally in the upper atmosphere or artificially produced because of its strong oxidizing or disinfection characteristics.

Particle Size - As used in industry standards, the size of a particle suspended in water as determined by its smallest dimension, usually expressed in microns.

Parts per Million (ppm) - A common basis for reporting the results of water and waste water analysis, indicating the number of parts by weight of water or other solvent. In dilute water solutions, on part per million is practically equal to one milligram per liter, which is the preferred unit. 17.12 ppm equals one grain per U.S. gallon.

Pathogen - An organism which may cause disease.

PCB - Polychlorinated Biphenyls - A highly toxic organic contaminant found in water supplies which is suspected of causing cancer in humans.

pH - or the potential of hydrogen ion activity or concentration. pH is a measure of the intensity of the acidity or alkalinity of water on a scale from 0 to 14, with 7 being neutral. When acidity is increased, the hydrogen ion concentration increases, resulting in a lower pH value. Similarly, when alkalinity is increased, the hydrogen ion concentration decreases, resulting in higher pH. The pH value is an exponential function so that pH is 10 times as alkaline as pH 9 and 100 times as alkaline as pH 8. Similarly, a pH 4 is 100 times as acid as pH 6 and 1000 times as acid as pH 7.

Potassium Chloride (KCl) - a compound consisting of potassium and chloride, becoming increasingly popular as a substitute for sodium chloride in regenerating water softeners.

Potassium Permanganate (KMnO4) - A powerful oxidizing agent consisting of dark purple crystals with blue metallic sheen. Explosive in contact with sulfuric acid or hydrogen peroxide. Increases flammability of combustible materials. Used to renew the black manganese oxide coating on greensand media.

Precipitate - To cause a dissolved substance to form a solid particle which can be removed by settling or filtering such as in the removal of dissolved iron by oxidation, precipitation and filtration. The term is also used to refer to the solid formed and the condensation of water in the atmosphere to form rain or snow.

Pre-treatment - Whatever alterations of the raw feed water are required to prevent damage to the reverse osmosis membrane.

Product Water - The pure water that has been separated from the feed water stream by the reverse osmosis membrane.

Pumping Rate - The amount of actual water that can be drawn from a pressure system expressed in gallons per minute (gpm) obtained by dividing the drawdown (gallons) by the cycle time (seconds) and multiplying the result by 60 (seconds.)

Quartz - A high grade of glass made using quartz sand.

Raw Water - Untreated water or any water before it reaches a specific water treatment device or process.

Recovery - The amount of product water as compared with the total amount of feed water. This will give a measure of the efficiency of operation. For example, starting with 10 gallons of feed water, if 6 gallons is product water and 4 gallons reject water, the recovery is 60%.

Regenerant - A solution of a chemical used to restore the capacity of an ion exchange or oxidation system.

Regeneration - In general, includes the backwash, brine and fresh water rinse steps necessary to prepare a water softener exchange bed for service after exhaustion. Specifically, the term may be applied to the “brine” step in which the sodium chloride solution is passed through the exchanger bed. The term may also be used for similar operations relating to demineralizers and certain filters.

Rejection - The percentage of TDS removed from the feed water. Typically greater than 90% rejection is achieved with reverse osmosis.

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Reject Water (same as Brine) - That portion of the feed water that does not pass through the R.O. membrane and which carries the remaining impurities to the drain.

Residual Chlorine - Chlorine remaining in a treated water after a specified period of contact time to provide protection throughout a distribution system. The difference between the total chlorine added and that consumed by oxidizable matter.

Resin - Synthetic organic ion exchange material such as the high capacity cation exchange resin widely used in water softeners.

Reverse Osmosis (R.O.) - A process that reverses, by the application of pressure, the flow of water in the natural process of osmosis so that the water passes from the more concentrated to the more dilute solution through a semi-permeable membrane.

Sediment - The sum of particles of dirt, clay, silt and vegetation which float or are suspended in water and can be removed by mechanical filtration. See Turbidity.

Semi-permeable - A term which applies to special materials, both natural and synthetic, which allow certain substances such as water to pass through (to permeate) while blocking or rejecting the passage of other substances such as dissolved solids and organics.

Service (Peak) Flow Rate - The greatest amount of water (expressed in gallons per minute) that a particular filter can effectively process based on short pump runs of less than 10 to 15 minutes maximum.

Sequester - A chemical reaction in which certain ions are bound into a stable, water soluble compound, thus preventing undesirable action by the ions.

Soap - One of a class of chemical compounds which possesses cleaning properties, formed by the reaction of a fatty acid with a base of alkali. Sodium and potassium soaps are soluble and useful but can be converted to insoluble calcium and magnesium soaps (curd) by the presence of these hardness ions in water.

Soda Ash - The common name for sodium carbonate, a chemical compound used as an alkaline builder in some soap and detergent formulations to neutralize acid water and in the lime soda ash water conditioning process.

Total Hardness - The sum of all hardness constituents in a water, expressed as their equivalent concentration of calcium carbonate. Primarily due to calcium and magnesium in solution but may include small amounts of metals, such as iron, which can act like calcium and magnesium in certain reactions (see Hardness.)

Toxic - Having an adverse physiological effect on man.

Toxic Metals - Elemental metals that find their way into water supplies from natural and industrial sources and which are detrimental to human health (e.g. lead, cadmium, mercury, arsenic.)

Toxic Organics - Carbon-based chemicals which are frequently found in our water supplies and are harmful to human health. They are usually from agricultural and industrial effluents and hazardous waste dumps (e.g. TCE, PCB, DCBP, pesticides, etc.)

Turbidity - Suspended biological, inorganic and organic particles in water which may be in sufficient amount to make the water seem cloudy (see Sediment.)

Virus - The smallest form of life known to be capable of producing disease of infection, usually considered to be of large molecular size. They multiply by assembly of component fragments in living cells, rather than by cell division as do most bacteria.

Volatile Organic Chemical (VOC) - Chemicals or compounds with boiling points below 212°F, facilitating their evaporation before water.

Water Softening - The removal of calcium and magnesium, the ions which are the principal cause of hardness, from water.

Notes

Notes

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