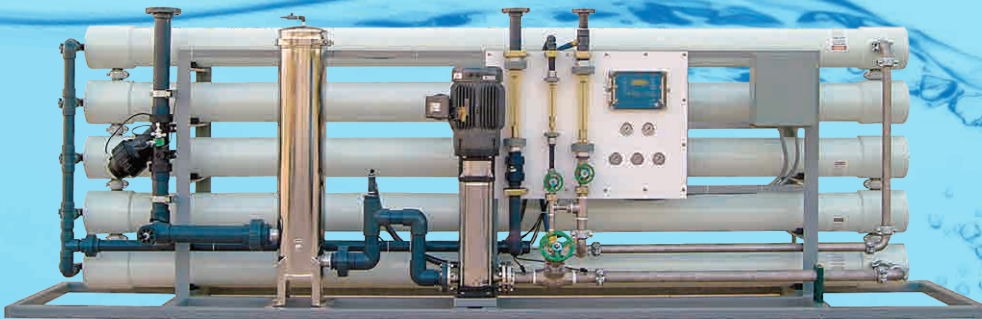


# Watts Water Quality Solutions

For Water Professionals



[Watts.com/dealer](https://Watts.com/dealer)

**WATTS®**

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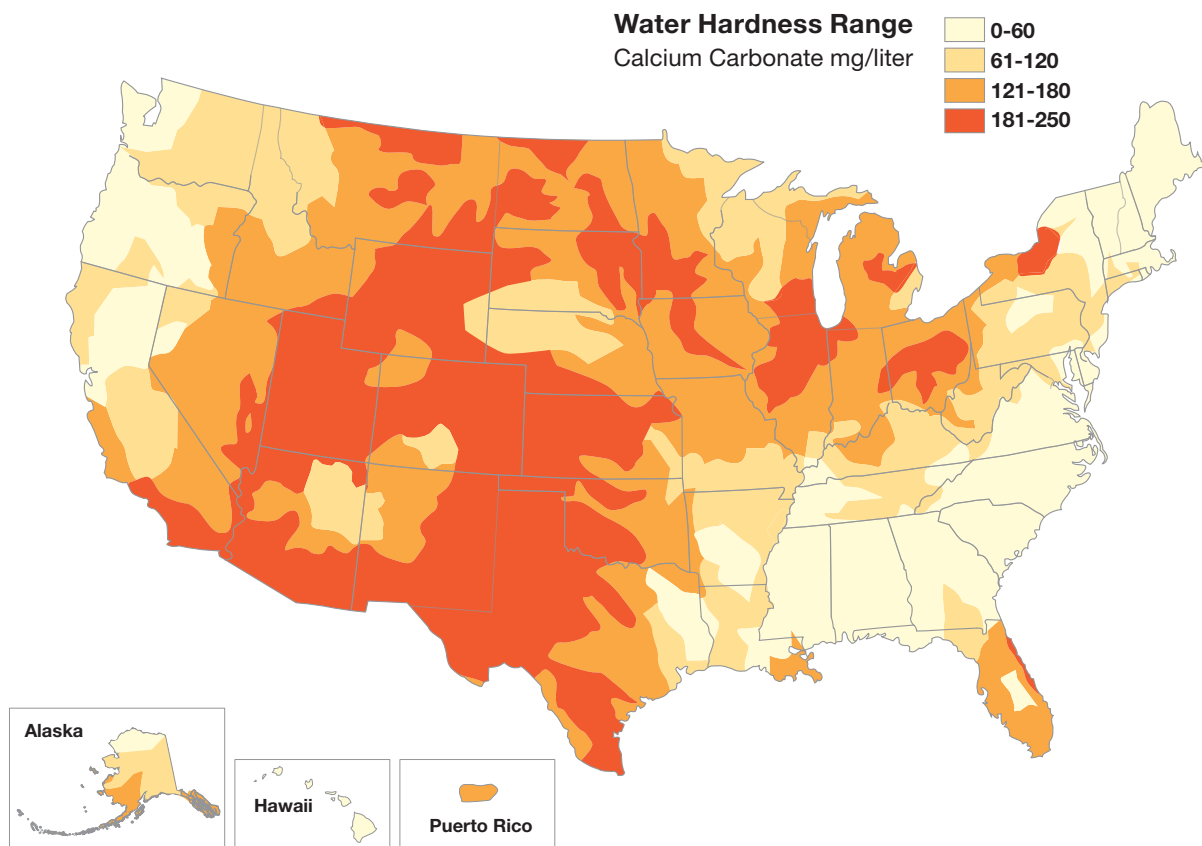
## About Watts Water Technologies

Since its founding in 1874, Watts has provided innovative solutions to improve comfort, safety, and quality of life for people around the world through our expertise in a wide range of water technologies. With over 50 years of water treatment and conditioning experience, Watts is known as a worldwide leader in the water quality industry. With a primary focus on commercial and residential markets, Watts specializes in Commercial, Point-of-Use (POU) and Point-of-Entry (POE) water quality applications. Today, Watts' industry presence extends beyond North America to include Europe, the Middle East, Africa, and Asia.

Full service branches are located throughout North America to provide fast delivery of products. All branch locations can take orders, quote prices, review inventory and check order status.

**Call us at 1-800-659-8400**

**Watts offers a full range of water treatment solutions to match the unique needs of any location.**



**Contact your local Watts representative to learn more about our product line and support services for water quality dealers.**

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Custom skid mounted pre-plumbed cartridge filter system.



Pre-plumbed and Skid Mounted Twin Progressive Flow Water Softener.



Twin 60"x60" Progressive Flow Water Softeners with 4" service valves and Fleck 3150 regeneration valves.



Custom system for distillery. Quad Micro-Z and Quad Carbon systems. Dual RO with a production of 110 gpm each operating at 380 volts, 3-phase, 50 Hz. with Antiscalant chemical feed.



System shown with optional ProPress plumbing.



Parallel 48" x 72" Quad Carbon filter system with sequential backwash.



Quad 72"x72" Progressive Flow Water Softeners with Watts diaphragm valves.

For the purposes of these terms and conditions the "Seller" is the applicable Watts Water Technologies entity named in any purchase, credit or invoice documents.

**FREIGHT TERMS:** CONSULT YOUR PRODUCT PRICE CATALOG FOR SPECIFIC FREIGHT TERMS.

**TERMS OF SALE:** ALL SALES ARE F.O.B. SHIPPING POINT.

**PAYMENT TERMS:** The invoices are due and payable thirty (30) days from the date of invoice. Consult your product price catalog for any other specific payment terms. Should the account balance exceed any established credit limit, liability for payment additionally extends to the entire balance. Seller has the right to reduce the credit limit and/or withdraw Applicant credit under the Credit Agreement at any time without prior notice, except as otherwise provided by law. Seller reserves the right to revoke credit or demand full payment if Applicant fails to pay when due or, if in the sole discretion of Seller, there has been an adverse change in buyers ability to repay credit extended by Seller, whereupon Seller shall have the right to demand payment or other assurance which is deemed adequate and Seller is hereby authorized to file any lien available to vendors and/or applicators of Products in the manner provided by applicable law notwithstanding the terms of invoices or other documents or the existence of an event of Default. Buyer shall make all claims for billing adjustments/errors in writing within 20 business days from the invoice date. Claims not received within the time specified are waived by the buyer. Default by Applicant under this or any other agreement between Applicant and Seller shall be a default under all agreements. Seller does not waive its rights by accepting late payments. Applicant agrees to pay reasonable attorney fees and cost of collection.

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**SECURITY AGREEMENT:** Buyer grants Seller a purchase money security interest in the items sold hereunder whether including, but not limited to, equipment, inventory, fixtures and/or general intangibles shipped by Seller at any time, including all accessions to and replacements thereto, and all proceeds thereof (collectively, the "Collateral") to secure the payment of the purchase price of such Collateral. Buyer grants Seller a limited power of attorney to file one or more financing statements signed by Seller on behalf of Buyer and authorizes Seller to use a copy of this agreement as an exhibit to any financing statement. Buyer agrees to cooperate fully with Seller in executing any additional documents, instruments, financing statements or amendments thereto as Seller may request to perfect or continue the security interest created by this agreement.

**STOCKING WHOLESALE MINIMUM CHARGE:** Consult your product price catalog for specific stocking wholesaler minimum charges.

**SPECIAL PRODUCTS:** ORDERS FOR SPECIAL OR MODIFIED PRODUCTS ARE NON-CANCELABLE.

**LIMITED WARRANTY:** Seller shall provide its then-current standard written warranty for the Product purchased which contains the sole remedies for breach of warranty. SUCH WARRANTY IS GIVEN EXPRESSLY AND IS THE ONLY WARRANTY GIVEN BY SELLER WITH RESPECT TO THE PRODUCTS. SELLER MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED. TO THE FULL EXTENT PERMITTED BY LAW, SELLER HEREBY SPECIFICALLY DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

**LIMITATION OF LIABILITY:** IN NO EVENT SHALL SELLER BE LIABLE, IN CONTRACT, TORT, STRICT LIABILITY, OR UNDER ANY OTHER LEGAL THEORY, FOR INCIDENTAL, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES, REGARDLESS OF WHETHER IT WAS INFORMED ABOUT THE POSSIBILITY OF SUCH DAMAGES, AND IN NO EVENT SHALL SELLER'S LIABILITY EXCEED AN AMOUNT EQUAL TO THE SALES PRICE OF THE PRODUCTS. THE FOREGOING LIMITATIONS SHALL APPLY TO THE FULL EXTENT PERMITTED BY LAW.

THE BUYER ASSUMES ALL RESPONSIBILITY FOR THE FINAL SELECTION, TESTING AND VALIDATION OF PRODUCTS PURCHASED FROM SELLER AND THE FITNESS OF SUCH PRODUCTS FOR THE BUYER'S APPLICATION.

**RETURNED GOODS MINIMUM CHARGE:** NO MATERIAL SHALL BE RETURNED TO SELLER WITHOUT AUTHORIZATION. When credit is issued it will be at the price charged, or prevailing price if lower, less handling charges based on costs of reconditioning, boxing, etc. Restocking charges will apply. Consult your product price catalog for specific returned goods charges.

**MISCELLANEOUS:** Prices and terms are subject to change without notice and supersede all previous quotations. Seller reserves the right to change or modify product design or construction without prior notice and without incurring any obligation to make such changes or modifications to products previously or subsequently sold. In the event that any of the provisions of this agreement shall be held to be invalid or unenforceable in whole or in part, those provisions to the extent enforceable and all other provisions shall nevertheless continue to be valid and enforceable as though the invalid or unenforceable parts had not been included in this document.

**GOVERNING LAW/ DISPUTES:** This agreement shall be governed by the laws of the Commonwealth of Massachusetts without giving effect to its conflict or choice of law rules. All disputes under these terms and conditions shall be resolved by courts located in the Commonwealth of Massachusetts. The parties agree and consent to the exclusive jurisdiction and venue of the federal and state courts in the Commonwealth of Massachusetts, and Buyer waives any jurisdiction or venue defense otherwise available.

**ENTIRE AGREEMENT:** This agreement contains the entire agreement between the Buyer and Seller with respect to the subject matter contained herein and supersedes any other prior agreements, whether in written or oral form. The terms and conditions contained herein may not be changed except in writing signed by an officer of Seller.

Initial: \_\_\_\_\_ Date: \_\_\_\_\_



## RETURN GOODS POLICY

1. Customers who wish to return merchandise must provide the following information:
  - 1) Contact name; 2) Company name; 3) Customer Number; 4) Products to be returned and reason for the return; 5) Customer's P. O. number, under which the goods were purchased (if issued); 6) Watts invoice number, under which the goods were purchased.
2. Requests for returns must be approved by the Return Goods Administrator, and only the RGA Administrator shall issue Return Goods Authorizations.
3. No products may be returned, nor shall credits be processed until written approval has been issued by the Watts RGA Administrator. Please note RGA numbers on the shipping label for proper processing, and include a copy of the RGA form inside the shipping carton to receive prompt attention.
4. Goods returned for credit or refund, including goods returned for inspection under warranty, must be shipped to the warehouse by prepaid transportation. No "collect" shipments will be accepted.
5. Products not stocked, will not be accepted for credit.
6. Drop Ship product will not be accepted for return/credit without prior approval from our Supplier.
7. Only sellable goods may be returned as long as they are in original shipping cartons, unmarked.
8. All returns for goods placed by verbal order will be subjected to a 25% restocking fee.
9. Custom products, such as water softeners, backwashing filters, filtration systems, commercial equipment and other custom products may not be returned.
10. Equipment, which has been installed, may not be returned under any circumstances.
11. Authorized credits will be issued at the price paid, less a twenty-five (25) percent restocking charge plus repackaging costs (if necessary).
12. Merchandise older than three (3) months from purchased date, may not be returned (non warranty related).
13. Watts reserves the right to refuse returns at its sole discretion.

### FREIGHT: Shipments are F.O.B. our dock.

1. **Visual damage:** Note on the Bill of Lading (B.O.L.) the damage and the extent of damage. Contact the freight company and start the process to file a claim. Damage not noted is considered a delivery free and clear by the freight company.
2. **Concealed damage:** There is a 15 calendar day claim period for any concealed damage. Freight should be inspected at time of delivery to include any suspected damages. Contact the freight company and start the process to file a claim.
3. **Shortages:** All shortages should be reported within 5 days of receipt. If shortages are known at time of receipt, this must be indicated on the B.O.L.

### Important:

If customers claim returns are due to company error, the burden of proof is the customer's responsibility. If the matter cannot be resolved by telephone, customer may elect to return merchandise by prepaid freight for inspection, so the matter may be further investigated. Shipping errors must be reported within 5 days after receipt of product.

If company agrees Watts is in error, return freight costs will be credited or refunded to customer.

Signature \_\_\_\_\_ Date \_\_\_\_\_

***Please sign, date and return with the Credit Application. Thank you!***



## OneFlow® Scale Control Systems

*Calcium scale in pipes and plumbing equipment often increases energy costs and can lead to expensive repairs to appliances such as hot water heaters, ice machines, coffee makers, and dishwashers. On the other hand, calcium is important to human health, and supplements are often recommended if this important mineral is totally reduced or absent from a person's diet.*

*Water quality professionals now have a revolutionary product for fighting scale and retaining the benefits of calcium in water: OneFlow®. With OneFlow there's no salt, no backwash, no scale, and no electricity to worry about. This environmentally-friendly solution eliminates sodium discharge by using **Media Assisted Crystallization (MAC) technology** to transform dissolved hardness minerals into harmless, inactive microscopic crystal particles. These particles make their way through plumbing systems without latching on to pipes, inside fixtures, valves, or heating elements. Scientifically tested for performance, OneFlow provides scale control results backed by years of successful field applications and independent studies. OneFlow from Watts is the intelligent choice in scale prevention.*

### Features

- No salt or chemicals required
- Economical and efficient
- Upflow design for better flow rates
- No backwashing and zero discharge
- Virtually maintenance free
- Consistent scale control performance
- Wide range of commercial applications
- Uses environmentally friendly "green" technology
- Long-lasting media needs no regeneration

### Benefits

- Eliminates the need for scale prevention chemicals or salt
- Eliminates de-scaling chemical costs
- Reduces labor costs and downtime
- Increases operating efficiencies
- Extends life of capital equipment
- Reverses existing scale problems
- Provides immediate ROI through energy savings

### NOTICE

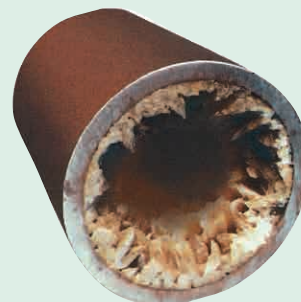
Independent scientific testing has confirmed that MAC technology provides scale reduction of 95+%. Testing was conducted under protocol based on DVGW W512 test to assess control of scale formation. Results may vary and performance is based on water hardness levels, flow rate, and other factors.

## DID YOU KNOW?

Independent scientific testing has confirmed that MAC technology provides scale reduction of over 95%.

### The Problem!

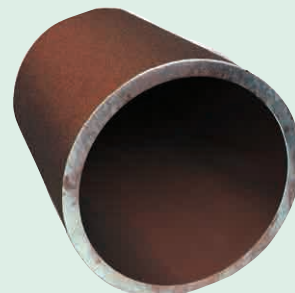
Calcium creates scale in pipes, on appliances and other plumbing surfaces which can lead to higher heating and energy costs and expensive repairs.



Untreated Pipe

### The Solution!!

Watts OneFlow® Anti-Scale Systems transform dissolved hardness minerals into harmless, inactive microscopic crystal particles which are so small they are easily rinsed away by the water flow.



OneFlow Treated Pipe

## Series OFRES-K

### Smart Whole Home OneFlow® Residential Anti-Scale Systems

**Connection Size: 1" (25mm)**

**Flow Rate: Up to 16 gpm (60 lpm)**

Series OFRES-K Smart Whole Home OneFlow® Residential Anti-Scale System provides protection from internal hardness related scale formation on plumbing surfaces. Water-using appliances and plumbing fixtures also enjoy a longer lifespan because hardness scale build up on internal parts no longer occurs. This system is specifically designed for residential applications and includes a WiFi enabled monitor to send email and/or SMS alerts when media replacement is due. OneFlow Residential systems should be installed at the point-of-entry to a home to treat both the hot and the cold water. Connection Sizes: 1 in.(25mm) MNPT. Flow rates range from 8 gpm (30 lpm) up to 16 gpm (60 lpm).

#### Features

- Smart and connected elapsed time monitor – Sends automatic alerts via email and text when media replacement is due
- Displays days remaining, percent media life consumed and total water usage volume
- Chemical free scale prevention and protection – converts hardness minerals to harmless, inactive microscopic crystals making OneFlow an effective alternative technology to a water softener for the prevention of scale due to water hardness
- Virtually maintenance free – no control valve
- No control valve, and no wastewater
- Uses environmentally friendly technology by using no salt or other chemicals to constantly add, and generates no wastewater
- Improves efficiency of all water using appliances – both hot<sup>†</sup> and cold
- Simple sizing and installation
- Perfect system for towns or communities where water softeners are banned or restricted
- OneFlow Residential systems do not remove minerals or add sodium to the water supply
- OneFlow Residential systems can be installed as a pre-treatment to under counter reverse osmosis systems (OneFlow should be the last stage in treatment unless a point-of-use system is being used downstream.)
- Systems include a bypass valve for a simplified installation



OFRES-K

#### REDUCES

✓ Scale



#### NOTICE

\*Always install OneFlow® Residential systems before the water heating device.

#### Replacement Media

MODEL NO.	ORDERING CODE	FREQUENCY
OFRES-0835RM	7300096	Media should be replaced every 3 years
OFRES-0935RM	7300097	Media should be replaced every 3 years
OFRES-1035RM	7300098	Media should be replaced every 3 years

#### Smart Elapsed Time Monitor

MODEL NO.	ORDERING CODE	FREQUENCY
U-M311	7100992	Smart Elapsed Time Monitor

MODEL NO.	ORDERING CODE	CONNECTION SIZE	MINERAL TANK SIZE	MEDIA LITERS	MAXIMUM SERVICE FLOW (GPM)*	PRESSURE DROP (PSI)**	FLOOR SPACE (L X W X H)
OFRES-0835-K	7100993	1" MNPT	8" X 35"	2	8	<15	13" X 9" X 40"
OFRES-0935-K	7100994	1" MNPT	9" X 35"	3	12	<15	13.5" X 10" X 40"
OFRES-1035-K	7100995	1" MNPT	10" X 35"	4	16	<15	14" X 11" X 40"

For additional information, access online literature ES-OFRES-K.

## Model OFPSYS

*OneFlow® + Salt-Free Scale Prevention and Water Filtration*

**Connection Sizes: 1"**

**Flow Rates: From 0.5 gpm to 10 gpm (1.9 lpm to 37.85 lpm)**

A OneFlow+ scale prevention system shall be installed on the cold water service line to condition the tap water just prior to the service line feeding the residential home. The OneFlow+ system uses a 20 micron radial flow carbon block cartridge with a dirt holding capacity up to 2.2 lbs (1 kg). This carbon block reduces chlorine taste and odors for up to 50,000 gallons (189,000 liters) of use, with a flow rate of 3 gpm (11.34 lpm). The OneFlow+ system also uses a scale prevention cartridge which is good for up to 250,000 gallons (945,000 liters) or replacement every 3 years, whichever comes first. The OneFlow+ system uses Media Assisted Crystallization (MAC) to attract hardness minerals and convert them into harmless, inactive microscopic crystal particles. These crystals stay suspended in the water and are passed to drain. The system requires very little maintenance, no backwashing, no salt and no electricity. Typical hardness problems, especially build-up of scale in heating elements, pipes, water heaters, boilers and on fixtures, are reduced.

The OneFlow+ system is not a water softener. It does not add chemicals. It is a scale prevention device with proven third party laboratory test data and years of successful commercial, residential and foodservice applications. OneFlow+ is the intelligent scale solution and is a great salt-free alternative to water softening (ion exchange) or scale sequestering devices.

### Features

- Reduces sediment, chlorine taste and odor
- Chemical-free scale prevention and protection - converts hardness minerals to harmless, inactive microscopic crystals making OneFlow+ an effective salt-free alternative to ion exchange water softeners
- Virtually maintenance free - no salt bags or other chemicals to constantly add or maintain
- No control valve, no electricity and no wastewater
- Improves efficiency of all water heating devices and downstream plumbing components
- Simple installation – standard 1" connections
- Excellent system for homes where equipment protection is desired for longer equipment life and reduced energy consumption
- OneFlow+ cartridge-based systems are easily maintained.
- Easily installed mounting bracket and multi-function tool included to allow cartridge change-outs when necessary



### REDUCES

- ✓ Scale
- ✓ Sediment
- ✓ Chlorine Taste and Odor

### Replacement Cartridges

MODEL NO.	ORDERING CODE	FREQUENCY	DESCRIPTION
OFPRFC	7100639	Annually	Radial Flow Carbon Block Cartridge
OFPS	7100640	3 Years	OneFlow Cartridge
OFPCOM	7100641		Combo Pack includes carbon block and OneFlow cartridge

*For additional information, access online literature ES-OFPSYS*

## Model OFTWH-R

*OneFlow® Anti-Scale System for Residential Tankless Water Heaters*

**Connection Sizes:** ¾" (20mm)

**Flow Rates:** From 0.5 gpm to 6 gpm (1.9 lpm to 22.71 lpm)

The OneFlow® Anti-Scale System provides protection from scale formation on internal and external plumbing surfaces. The OneFlow® system is a single cartridge-based system that must be installed on a cold water line prior to a water-heating device (water heater or tankless water heater) for single tankless heaters.

OneFlow® prevents scale by transforming dissolved hardness minerals into harmless, inactive microscopic crystal particles. These crystals stay suspended in the water and are passed to a drain. The system requires very little maintenance, no backwashing, no salt and no electricity. Typical hardness problems, especially build-up of scale in heating elements, pipes, water heaters, boilers and on fixtures are no longer a concern.

OneFlow® is not a water softener. It does not add chemicals. It is a scale prevention device with proven third party laboratory test data and years of successful commercial, residential and food service applications. OneFlow® is the intelligent scale solution and is a great alternative to water softening (ion exchange) or scale sequestering devices.



OFTWH-R

### Features

- Chemical-free scale prevention and protection - converts hardness minerals to harmless, inactive microscopic crystals making OneFlow® an effective alternative technology to a water softener for the prevention of scale due to water hardness
- Virtually maintenance free - No salt bags or other chemicals to constantly add or maintain
- No control valve, no electricity and no wastewater
- Uses environmentally friendly "green" technology
- Improves efficiency of all water heating devices and downstream plumbing components.
- Simple sizing & installation – standard ¾" connections
- Inlet ball valve for easy isolation shutoff and filter changes
- OneFlow® cartridge-based systems are easily maintained; change the cartridge once every two years
- Easily installed mounting bracket included w/filter wrench to allow cartridge change-outs when necessary

### Model

MODEL NO.	ORDERING CODE	PEAK FLOW RATE	CONNECTION SIZE
OFTWH-R	0002188	6 gpm (22.71 lpm)	¾" (20mm) FNPT

### Replacement Cartridge

MODEL NO.	ORDERING CODE	FREQUENCY
OFTWH-RM-R	0002189	Cartridge should be replaced every 2 YEARS.

### ⚠ WARNING

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

**OneFlow® Application Practices (Refer to bottom of Page 12)**

For additional information, access online literature ES-OFTWH/OFTWH-C/OFTWH-R.



## OneFlow® Anti-Scale System

The OneFlow® Anti-Scale System provides protection from scale formation on internal and external plumbing surfaces. The OneFlow® system may be installed at the point-of-entry to a building to treat both hot\* and cold water, or it can be located directly before a water heater, boiler, or other hot water-using device that requires protection from the ill effects of hard water.

OneFlow® prevents scale by transforming dissolved hardness minerals into harmless, inactive microscopic crystal particles, as water travels through the media filled tank. These precipitated micro-crystals stay suspended in the water and are passed to a drain, thereby having a greatly reduced ability to react negatively like dissolved hardness minerals do. The system requires very little maintenance, no backwashing, no salt, and no electricity. Typical hardness problems, especially build-up of scale in pipes, water heaters, boilers and on fixtures are no longer a concern.

OneFlow® is not a water softener or a chemical additive (like anti-scalants or sequestrants). It is a scale prevention device with proven third party laboratory test data and years of successful residential and commercial applications. OneFlow® is the one water treatment device that effectively provides scale protection and is a great alternative to water softening (ion exchange) or scale sequestering chemicals.

### Features

- Chemical-free scale prevention and protection – converts hardness minerals to harmless, inactive microscopic crystals making OneFlow® an effective alternative technology to a water softener for the prevention of scale due to water hardness
- Virtually maintenance free – No salt bags or other chemicals to constantly add
- No control valve, no electricity and no wastewater
- Uses environmentally friendly “green” technology
- Improves efficiency of all water using appliances – both hot\*\* and cold
- Simple sizing & installation – all you need to know is pipe size and the peak flow rate
- Perfect system for towns or communities where water softeners are banned or restricted
- Manifold assemblies for easy installation of multi-tank, high-flow applications (Can be operated in parallel for full-flow applications.)
- OneFlow® does not remove minerals or add sodium to the water supply
- OneFlow® can be installed as pre-treatment to reverse osmosis (OneFlow® should be the last stage in treatment unless a point-of-use system is being used downstream.)

\*\* For hot water applications where water temperature is 110°F to 140°F (43°C - 60°C), please consult ES-OneFlow-HotWater

### ⚠ WARNING

Commercial Systems are designed for long runs and high usage. Do not use where water is microbiologically unsafe or with water of unknown quality without adequate disinfection before or after the unit. System must be maintained according to manufacturer's instructions. Pre-Treatment for sediment, iron, hydrogen sulfide, manganese, hydrocarbons and copper may be required depending on conditions.

### OneFlow® Application Practices

Systems using OneFlow® technology prevent hard water scale formation inside the plumbing system at influent hardness levels of 75 grains per gallon of calcium carbonate and less. Due to variances in water chemistry, certain aesthetic conditions external of the plumbing system may not be attained.

OneFlow® is designed for the treatment of potable water that meets the requirements of the current USEPA Safe Drinking Water Act. The addition of soaps, chemicals or cleaners, before or after the OneFlow treatment, may reverse its anti-scale treatment effects and/or create water with heavy residue or spotting potential. Any adverse conditions caused by the addition of soaps, chemicals or cleaners is the sole responsibility of the end user.

New copper lines need to be passivated before placing unit into service. Copper usually originates from new copper plumbing upstream of the OneFlow® system. All new copper plumbing before the system should be allowed to passivate by operating under normal conditions for a period of four weeks prior to starting up the system. This will allow the copper surfaces to be fully flushed and develop a natural protective surface. To further minimize any problems with excess copper, avoid applying excess flux on the inner surfaces of the pipe and use a low-corrosivity, water-soluble flux listed under the ASTM B813 standard. OneFlow® is not designed for use on closed loop systems.



## Models OF1465-50TM and OF1665-75TM

### Connections

Inlet & Outlet Connection	2" (50mm) PVC FNPT
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### Models

MODEL NO.	ORDERING CODE	MAXIMUM FLOW RATE
OF1354-30TM	0002221	30 gpm (113.5 lpm)
OF1465-50TM	68105649	50 gpm (189.3 lpm)
OF1665-75TM	68105650	75 gpm (283.9 lpm)

### Replacement Media

MODEL NO.	ORDERING CODE	FREQUENCY
OF1354RM	0002222	Media should be replaced every 3 years
OF1465RM	68100300	Media should be replaced every 3 years
OF1665RM	68100301	Media should be replaced every 3 years
OF744RM	68100295	Media should be replaced every 3 years
OF844RM	68100296	Media should be replaced every 3 years
OF1054RM	68100298	Media should be replaced every 3 years
OF1252RM	68100299	Media should be replaced every 3 years



OF1465-50TM,  
OF1665TM-75TM

## Models OF110-1, OF120-2 and OF140-4

### OneFlow® Anti-Scale System

**Connection Sizes:** ½" and ¾" (15 and 20mm)

**Flow Rates:** From 0.5 gpm to 4 gpm (1.9 lpm to 15.2 lpm)

The OneFlow® Anti-Scale System provides protection from scale formation on internal and external plumbing surfaces. The OneFlow® system is a single cartridge-based system that may be installed on a cold water line prior to a water-using device (water heater, hot-beverage system, appliance, steamer etc.) that requires protection from the ill effects of hard water.

OneFlow® prevents scale by transforming dissolved hardness minerals into harmless, inactive microscopic crystal particles. These crystals stay suspended in the water and are passed to a drain, thereby having a greatly reduced ability to react negatively with plumbing surfaces, as opposed to dissolved hardness minerals. The system requires very little maintenance, no backwashing, no salt and no electricity. Typical hardness problems, especially build-up of scale in pipes, water heaters, boilers and on fixtures are no longer a concern.

OneFlow® is not a water softener. It does not add chemicals. It is a scale prevention device with proven third party laboratory test data and years of successful Food Service and Commercial applications. OneFlow® is the intelligent scale solution and is a great alternative to water softening (ion exchange) or scale sequestering devices.

### Features

- Chemical free scale prevention and protection - converts hardness minerals to harmless, inactive microscopic crystals making OneFlow® an effective alternative technology to a water softener for the prevention of scale due to water hardness
- Virtually maintenance free - No salt bags or other chemicals to constantly add or maintain
- No control valve, no electricity and no wastewater
- Uses environmentally friendly "green" technology
- Improves efficiency of all water appliances
- Simple sizing & installation – all you need to know is pipe size and flow rate
- Perfect system for restaurants, cafeterias and coffee shops where multiple or single equipment protection is desired for longer equipment life and reduced energy consumption
- Inlet ball valve for easy isolation shutoff and filter changes
- OneFlow® does not remove the essential minerals in water
- OneFlow® cartridge-based systems are easily maintained; change the cartridge once per year

### Models

MODEL NO.	ORDERING CODE	MAXIMUM FLOW RATE	CONNECTION SIZES
OF110-1	68107393	1 gpm (4 lpm)	½" (15mm) FNPT
OF140-4	68107395	4 gpm (15 lpm)	¾" (20mm) FNPT

### ⚠ WARNING

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

**OneFlow® Application Practices (Refer to bottom of Page 12)**

For additional information, access online literature ES-OF110\_120\_140

Watts.com/dealer



OF110-1



OF120-2



OF140-4

### Replacement Filters

MODEL NO.	ORDERING CODE	FREQUENCY
OF110RM	68107399	Cartridge should be replaced every 12 months
OF120RM	68107400	Cartridge should be replaced every 12 months
OF140RM	68107401	Cartridge should be replaced every 12 months

## Models OF210-1, OF220-2 and OF240-4

### OneFlow® Anti-Scale System

**Connection Sizes:** ½" and ¾" (15 and 20mm)

**Flow Rates:** From 0.5 gpm to 4 gpm (1.9 lpm to 15.2 lpm)

The OneFlow® Anti-Scale System with two filter housings provides protection from scale formation and reduces chlorine and other off tastes to improve overall water quality in Food Service applications. The OneFlow® system is a dual cartridge-based system that may be installed on a cold water line prior to a water-using device (coffee maker, espresso machine, post-mix system or other appliance) that requires protection from the ill effects of hard water. OneFlow® works exceptionally well where the water is being heated or brought to steam. OneFlow® prevents scale by transforming dissolved hardness minerals into harmless, inactive microscopic crystal particles. These crystals stay suspended in the water and are passed to a drain, thereby having a greatly reduced ability to react negatively with plumbing surfaces, as opposed to dissolved hardness minerals. The system requires very little maintenance, no backwashing, no salt, and no electricity. Typical hardness problems, especially build-up of scale in heating elements, boilers, and steamers, are no longer a concern.

OneFlow® is not a water softener. It does not add chemicals or remove any minerals. It is a scale prevention device with proven third party laboratory test data and years of successful Food Service and Commercial applications. OneFlow® is the intelligent scale solution with chlorine reduction as a great alternative to water softening (ion exchange) or scale sequestering devices.

### Features

- Chemical free scale prevention and protection - converts hardness minerals to harmless, inactive microscopic crystals making OneFlow® effective alternative technology to a water softener for the prevention of scale due to water hardness and for the reduction of chlorine for better taste and odor
- Virtually maintenance free - No salt bags or other chemicals to constantly add or maintain
- No control valve, no electricity and no wastewater
- Uses environmentally friendly "green" technology
- Improves efficiency of all water appliances whether heating the water or not
- Simple sizing & installation – all you need to know is pipe size and flow rate
- Perfect system for restaurants, cafeterias and coffee shops where multiple or single equipment protection is desired for longer equipment life and reduced energy consumption
- Inlet ball valve for easy isolation shutoff and filter changes
- OneFlow® does not remove the essential minerals in water
- OneFlow® cartridge-based systems are easily maintained; change the carbon cartridge every 6 months and the OneFlow® media cartridge once per year.



OF210-1



OF220-2



OF240-4

### Models

MODEL NO.	ORDERING CODE	MAXIMUM FLOW RATE	CONNECTION SIZES
OF240-4	68107398	4 gpm (15 lpm)	¾" (20mm) FNPT

### ⚠ WARNING

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

**OneFlow® Application Practices (Refer to bottom of Page 12)**

For additional information, access online literature ES-OF210\_220\_240

### Replacement Filters

MODEL NO.	ORDERING CODE	FREQUENCY
OF110RM	68107399	Cartridge should be replaced every 12 months
OF120RM	68107400	Cartridge should be replaced every 12 months
OF140RM	68107401	Cartridge should be replaced every 12 months
OF210RC	68107402	Cartridge should be replaced every 6 months
OF220RC	68107403	Cartridge should be replaced every 6 months
OF240RC	0002166	Cartridge should be replaced every 6 months



## Model OFTWH

### OneFlow® Anti-Scale System

**Connection Sizes:** ¾" (20mm)

**Flow Rates:** From 0.5 gpm to 10 gpm (1.9 lpm to 38 lpm)

The OneFlow® Anti-Scale System provides protection from scale formation on internal and external plumbing surfaces. The OneFlow® system is a single cartridge-based system that must be installed on a cold water line prior to a water-heating device (water heater or tankless water heater) for single tankless heaters.

OneFlow® prevents scale by transforming dissolved hardness minerals into harmless, inactive microscopic crystal particles. These crystals stay suspended in the water and are passed to a drain. The system requires very little maintenance, no backwashing, no salt and no electricity. Typical hardness problems, especially build-up of scale in heating elements, pipes, water heaters, boilers and on fixtures are no longer a concern.

OneFlow® is not a water softener. It does not add chemicals. It is a scale prevention device with proven third party laboratory test data and years of successful commercial, residential and food service applications. OneFlow® is the intelligent scale solution and is a great alternative to water softening (ion exchange) or scale sequestering devices.



OFTWH

### Features

- Chemical-free scale prevention and protection
  - converts hardness minerals to harmless, inactive microscopic crystals making OneFlow® an effective alternative technology to a water softener for the prevention of scale due to water hardness
- Virtually maintenance free
  - No salt bags or other chemicals to constantly add or maintain
- No control valve, no electricity and no wastewater
- Uses environmentally friendly "green" technology
- Improves efficiency of all water heating devices and downstream plumbing components.
- Simple sizing & installation
  - standard ¾" connections
- Perfect system for restaurants, cafeterias, coffee shops and homes where multiple or single equipment protection is desired for longer equipment life and reduced energy consumption
- Inlet ball valve for easy isolation shutoff and filter changes
- OneFlow® cartridge-based systems are easily maintained; change the cartridge once every two years
- Easily installed mounting bracket included w/filter wrench to allow cartridge change-outs when necessary

### Models

MODEL NO.	ORDERING CODE	PEAK FLOW RATE	CONNECTION SIZE
OFTWH	68107405	10 gpm (38 lpm)	¾" (20mm) FNPT

### Replacement Cartridge

MODEL NO.	ORDERING CODE	FREQUENCY
OFTWHRM	68107406	Cartridge should be replaced every 2 YEARS.

### ⚠ WARNING

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

**OneFlow® Application Practices (Refer to bottom of Page 12)**

For additional information, access online literature ES-OFTWH

# Water Softeners

*Watts water softeners are designed for water conditioning professionals who demand the highest quality, reliability, and value. Our water softeners include only top-quality components, come fully complete, and feature metered control valves for greater efficiency using trusted technology. Our large selection of water softeners range from unique, space-saving, low-profile designs to larger commercial systems for greater demand applications.*

## DID YOU KNOW?

Water softeners on a tankless water heater that would normally experience 20 grains of mineral content per gallon saves a homeowner 34% on repair and replacement costs.

## Dual-Media Water Softeners with Watts W100 Valves

*Water softener and carbon filter in one compact design for whole house water treatment!*

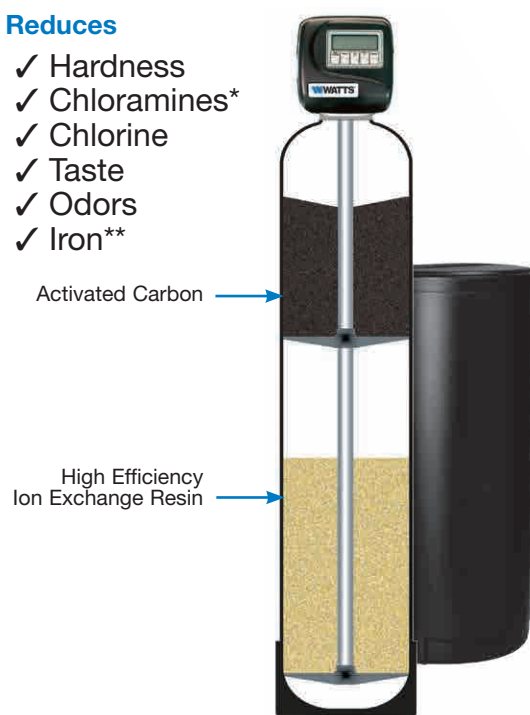
1. Activated Carbon for pre-treatment designed to reduce chloramines\*, chlorine, taste, odors and extends ion exchange resin life.
2. High Efficiency Ion Exchange Resin for increased efficiency and to enhance performance with high iron content water.

### Features & Benefits

- Combines two technologies in one single tank
- One control valve and mineral tank to reduce costs
- Carbon and resin are in separate chambers
- Proper contact time is provided by using two chambers
- No media migration with carbon and resin separated
- Carbon can be replaced without replacing the resin
- Lower pressure drop, compared to twin tank systems
- Space saving, single tank design
- Assembled and tested in USA

### Reduces

- ✓ Hardness
- ✓ Chloramines\*
- ✓ Chlorine
- ✓ Taste
- ✓ Odors
- ✓ Iron\*\*



Dual-Media and Brine Tank

### Specifications

VALVE	CK-10 METERED VALVE
Pipe fittings	3/4" / 1" sockets and 1" MNPT elbows provided
Resin	1, 1.5 or 2 cu. ft. ion exchange resin
Media	0.5, 1.0 or 1.5 cu. ft. granular activated carbon
Mineral tank	Vortech, corrosion resistant FRP
Distributor	1.05" O.D.
Electrical	120 volt, 60 Hz, standard

## Dual Chamber Water Softeners (Resin and GAC) with Watts W100 Control Valves

ORDERING CODE	CAPACITY (MAX)	PIPE SIZE (IN)	MINERAL TANK			BRINE TANK		FLOW RATE & PRESSURE			SHIP WT (LBS)
			TANK SIZE	RESIN FT3	CARBON FT3	SIZE	SALT FILL (LBS)	SERVICE (GPM)	DROP (PSI)	BKW (GPM)	
68110658	30,000	1	10x54	1	.5	18x36	350	12-16	15-25	2.7	110

**Note:** All units come with W100 valve, by-pass, 1" PVC elbow tails & coconut shell carbon. Brine tanks come with safety float valve.

\*When catalytic carbon is used.

\*\*Pre-treatment may be required.

## Water Softeners with Watts W100 Valves

### Features & Benefits

- Spot-free glassware and dishes
- No mineral deposits on bathtubs and shower stalls
- Brighter, softer laundry
- Less reliance on water softening products
- Dramatic reduction in soap usage
- Manageable hair because shampoo works better
- Pipes remain free of calcium scale build-up
- Extended life of appliance and reduced energy costs because scale is virtually eliminated

### Complete System

The models listed below are complete systems including:

- W100 high flow, metered valve
- Standard mineral tank
- Black brine tank
- Float valve to prevent brine overflow
- By-pass valve

Model selection is typically based on water hardness, water usage, water source and other factors.



### Metered Valve For Greater Efficiency

W100 Metered valves are metered for greater efficiency and reduced salt usage, because regeneration of the softener resin is based on water consumption. Push button settings provide ease-of-use.



ORDERING CODE	CAPACITY (MAX.)	PIPE SIZE (IN.)	MINERAL TANK		BRINE TANK		FLOW RATE & PRESSURE			SHIP WT. (LBS)
			TANK SIZE	RESIN FT3	SIZE	SALT FILL (LBS)	SERVICE (GPM)	DROP (PSI)	BKW (GPM)	

### Water Softeners with Watts W100 Control Valves

68105249	30,000	1	9x48	1	18x36	350	9-12	15-25	2.2	110
68105297	45,000	1	10x54	1.5	18x36	350	12-16	15-25	2.7	130
68105343	60,000	1	12x52	2	18x36	350	15-20	15-25	3.5	190

## Water Softeners with W100T Twin Alternating Valves

*Ideal softeners when soft water is required 24/7, without interruption.*

Suitable for residential and light commercial applications ranging from 20,000 to 210,000 grains of hardness removal capacity, at flow rates to 24 GPM.

### Features & Benefits

- Great flow rates
- Top quality components
- Models for capacities to 210,000 grains
- Corrosion resistant W100T control valve
- Brine tanks with grid plate for maximum brine storage
- High flow bypass valve is included
- Safety brine valve with air check

### Specifications

VALVE	W100T TWIN ALTERNATING
Valve body	Corrosion Resistant Poly
Pipe Size	1" and 1.25" x 1.5"
Types	Metered
Bypass	Included
Mineral Tank	Corrosion resistant FRP.
Brine Tank	Polyethylene; fully assembled
Media	Cation resin; high capacity



W100T Twin Alternating Series

### Twin Alternating Water Softeners with W100T Metered Control Valves

ORDERING CODE	CAPACITY (MAX.)	PIPE SIZE (IN.)	MINERAL TANK		BRINE TANK		FLOW RATE & PRESSURE			SHIP WT. (LBS)
			TANK SIZE	RESIN FT3	SIZE	SALT FILL (LBS)	SERVICE (GPM)	DROP (PSI)	BKW (GPM)	
68105185	30,000	1	9 x 48	1	18 x 40	400	13-19	15-25	2.2	230
68105194	45,000	1	10 x 54	1.5	18 x 40	400	14-21	15-25	2.7	290
68105203	60,000	1	12 x 52	2	18 x 40	400	15-21	15-25	3.2	420
68105208	75,000	1	13 x 54	2.5	18 x 40	400	15-21	15-25	4.2	460
68105215	90,000	1	14 x 65	3	18 x 40	400	17-22	15-25	5.3	500
68105222	120,000	1	16 x 65	4	18 x 40	400	17-24	15-25	7.5	650
68105225	150,000	1 1/4 x 1 1/2	18 x 65	5	24 x 41	600	18-25	15-25	10	890
68105227	210,000	1 1/4 x 1 1/2	21 x 62	7	24 x 50	800	20-27	15-25	12	1160



## Water Softeners with Fleck 5600 Valves

### Features & Benefits

- Top quality components
- Fully assembled, ready for installation
- Models for capacities to 60,000 grains
- User friendly Fleck 5600 control valves
- Brine tanks with grid plate for maximum saturation of brine
- Stainless steel by-pass valve is included
- Safety brine valve with air check

### Specifications

VALVE	FLECK 5600 TOP MOUNT VALVE
Valve body	Glass reinforced Noryl®
Pipe Size	¾"
Types	Metered
Bypass	Included (stainless steel)
Mineral Tank	Corrosion resistant FRP
Brine Tank	Polyethylene; fully assembled
Media	High capacity cation resin



5600 Series

ORDERING CODE	CAPACITY (MAX.)	PIPE SIZE (IN.)	MINERAL TANK		BRINE TANK		FLOW RATE & PRESSURE			SHIP WT. (LBS)
			TANK SIZE	RESIN FT3	SIZE	SALT FILL (LBS)	SERVICE (GPM)	DROP (PSI)	BKW (GPM)	

### Water Softeners with 5600 Electromechanical Metered Control Valves

68105283	45,000	3/4	10x54	1.5	18x40	400	10-13	15-25	2.4	130
68105334	60,000	3/4	12x52	2	18x40	400	12-15	15-25	3.5	190

### NOTICE

Flow rates listed above are based on pressure drop only. Selecting a system based on pressure drop alone does not guarantee that the system will provide adequately softened water. System selection should be based on resin quality, capacity required, feed water analysis, and application requirements. Softeners listed above are assembled and include by-pass valve and safety float valve to prevent brine overflow.

ORDERING CODE	CAPACITY (MAX.)	PIPE SIZE (IN.)	MINERAL TANK		BRINE TANK		FLOW RATE & PRESSURE			SHIP WT. (LBS)
			TANK SIZE	RESIN FT3	SIZE	SALT FILL (LBS)	SERVICE (GPM)	DROP (PSI)	BKW (GPM)	

### Water Softeners with 5600 Valves

68105258	30,000	3/4	9x48	1	18x40	400	9-11	15-25	2.0	110
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### NOTICE

Flow rates listed above are based on pressure drop only. Selecting a system based on pressure drop alone does not guarantee that the system will provide adequately softened water. System selection should be based on resin quality, capacity required, feed water analysis, and application requirements.

## Water Softeners with Fleck 9100 Valves

### Our Most Efficient Models

Water softeners with Fleck 9100 control valves offer twin-alternating meter initiated operation, resulting in 24/7 soft water capability.



9100 Series

### Features & Benefits

- High efficiency, no reserve capacity required
- Up to 4 CF fully assembled, ready for installation
- Capacities up to 120,000 grains per regeneration
- Digital SE version includes attached 24V transformer
- Decorative mineral tank jacket options available
- Multiple brine tank options available
- Multiple  $\frac{3}{4}$ " to  $1\frac{1}{4}$ " bypass and connection options
- Safety brine valve with air check included

### Specifications

VALVE	FLECK 9100 MECHANICAL OR DIGITAL VALVE
Electrical	120 Volt 60 Hz standard
Valve body	Xyron
Distributor	1.05" O.D.
Types	$\frac{3}{4}$ " meter immediate initiated
Connection	$\frac{3}{4}$ " MNPT Noryl® Standard
Mineral tank	Corrosion resistant FRP
Brine tank	Fully assembled polyethylene
Media	High capacity cation resin

### Twin Tank Softeners with 9100 Electromechanical Metered Control Valves

ORDERING CODE	CAPACITY (MAX.)	PIPE SIZE (IN.)	MINERAL TANK		BRINE TANK		FLOW RATE & PRESSURE			SHIP WT. (LBS)
			TANK SIZE	RESIN FT3	SIZE	SALT FILL (LBS)	SERVICE (GPM)	DROP (PSI)	BKW (GPM)	
68110650	30,000	3/4	9x48	1	18x40	400	13-19	15-25	2.2	180
68110651	45,000	3/4	10x54	1.5	18x40	400	14-21	15-25	2.4	250
68110652	60,000	3/4	12x52	2	18x40	400	15-21	15-25	3.5	330
68110653	90,000	1	14x65	3	24x41	600	17-22	15-25	5.0	470
68110654	120,000	1	16x65	4	24x41	600	18-24	15-25	7.0	625

### NOTICE

Flow rates listed above are based on pressure drop only. Selecting a system based on pressure drop alone does not guarantee that the system will provide adequately softened water. System selection should be based on resin quantity, capacity required, feed water analysis, and application requirements.

## Locksmith™ Commercial Water Softening Systems

The Locksmith™ controller is a Watts exclusive, highly functional control board that operates 1.5" & 2" simplex, duplex, and multi-tank progressive flow softeners, with the ability to operate external devices for highly configurable systems to suit the needs of a wide variety of application requirements.

### Features & Benefits

- Durable brass bodied control valve for years of service
- Fully automatic metered demand control valve
- Sophisticated digital electronic controls that store operating history that can be accessed by the user
- Fully adjustable regeneration cycles
- High-capacity resin
- Highly corrosion resistant fiberglass tanks
- Durable polypropylene lower distribution system
- Locksmith™ Controller offering Improved functionality of a basic softener



Series CLS-150 & CLS-200



Series CLSTA-150 & CLSTA-200



Series CLSP-150 & CLSP-200

## Locksmith™ Commercial Water Softening Systems

MODEL NO.	ORDERING CODE	PIPE SIZE (IN.)	MINERAL TANK		BRINE TANK		FLOW RATE & PRESSURE			SHIP WT. (LBS)
			TANK SIZE	RESIN FT3	SIZE	SALT FILL (LBS)	SERVICE (GPM)	DROP (PSI)	BKW (GPM)	
M4410L	68110950	1 1/2	12" x 52"	3	18" x 40"	400	25/40	15/25	4	210
M4414L	68110952	1 1/2	14" x 65"	3	18" x 40"	400	35/55	15/25	5	240
M4418L	68110954	1 1/2	16" x 65"	4	18" x 40"	400	57/65	15/25	7	320
M4422L	68110956	1 1/2	18" x 65"	5	24" x 41"	600	60/77	15/25	11	380
M4426L	68110961	1 1/2	21" x 62"	7	24" x 41"	800	74/97	15/25	13	585
M4430L	68110966	1 1/2	24" x 72"	10	30" x 50"	1400	80/100	15/25	15	710
M4543L	68110971	2	14" x 65"	3	18" x 40"	400	39/55	15/25	5	265
M4547L	68110973	2	16" x 65"	4	18" x 40"	400	47/60	15/25	7	350
M4548L	68110975	2	18" x 65"	5	24" x 41"	600	53/69	15/25	10	400
M4552L	68110980	2	21" x 62"	7	24" x 50"	600	66/85	15/25	13	600
M4558L	68110985	2	24" x 72"	10	30" x 50"	1400	73/94	15/25	15	710
M4559L	68110991	2	30" x 72"	15	39" x 48"	2200	84/109	15/25	25	1160
M4560L	68110996	2	36" x 72"	20	39" x 48"	2200	93/119	15/25	35	1560

### NOTICE

Service gpm is for a single mineral tank and duplex alternating systems ONLY. For Progressive systems, multiply the service gpm by (x2) for Duplex, (x3) for Triplex and (x4) for Quadplex systems. The maximum peak service flow rate capability of any progressive series system will be reduced by the service flow rate of one tank during regeneration.

### NOTICE

Flow rates listed above are based on pressure drop only. Selecting a system based on pressure drop alone does not guarantee that the system will provide adequately softened water. System selection should be based on resin quantity, capacity required, feed water analysis, and application requirements.

## Water Softeners with Fleck 2850 Valves

Ideal for commercial applications with capacities to 300,000 grains.

LC-150 series softeners with Fleck 2850 brass control valves are suitable for flow rates to 55 GPM. Models with time clock and metered controls are available.

### Features & Benefits

- 1-1/2" valves for high flow rates
- Top quality components
- Models for capacities to 300,000 grains
- User friendly Fleck 2850 control valves
- Brine tanks with grid plate for maximum saturation of brine (some models)
- Safety brine valve with air check

### Specifications

VALVE	FLECK 2850 TOP MOUNT VALVE
Valve body	Brass
Pipe size	1-1/2"
Types	Time clock and metered
By-pass	None
Mineral tanks	Corrosion resistant FRP.
Brine tanks	Polyethylene; fully assembled
Media	Cation resin; high capacity



2850 Series

ORDERING CODE	CAPACITY (MAX.)	PIPE SIZE (IN.)	MINERAL TANK		BRINE TANK		FLOW RATE & PRESSURE			SHIP WT. (LBS)
			TANK SIZE	RESIN FT3	SIZE	SALT FILL (LBS)	SERVICE (GPM)	DROP (PSI)	BKW (GPM)	

### Water Softeners with 2850 NXT Metered Control Valves

68105330	60,000	1 1/2	12x52	2	18x40	400	15-20	15-25	4	210
68105535	90,000	1 1/2	14x65	3	18x40	400	17-22	15-25	5	240
68105540	120,000	1 1/2	16x65	4	18x40	400	25-40	15-25	7	320
68105545	150,000	1 1/2	18x65	5	24x41	600	30-50	15-25	11	380
68105549	210,000	1 1/2	21x62	7	24x50	800	35-53	15-25	13	585
68105553	300,000	1 1/2	24x72	10	30x50	1200	40-55	15-25	15	710

### NOTICE

Flow rates listed above are based on pressure drop only. Selecting a system based on pressure drop alone does not guarantee that the system will provide adequately softened water. System selection should be based on resin quantity, capacity required, feed water analysis, and application requirements.



## Water Softeners with Fleck 9500 Valves

### Our Most Efficient Models

Water softeners with Fleck 9500 control valves offer twin-alternating meter initiated operation, resulting in 24/7 soft water capability.

#### Features & Benefits

- Top quality components
- High efficiency, no reserve capacity required
- Digital SE version includes attached 24V transformer
- Mechanical version includes 1.5" brass meter
- SE digital version includes 1.5" plastic meter
- Capacities up to 300,000 grains per regeneration
- Decorative mineral tank jacket options available
- Multiple brine tank options available
- Safety brine valve with air check included



9500 Series

#### Specifications

VALVE	FLECK 9500 MECHANICAL OR DIGITAL VALVE
Electrical	120 Volt 60 Hz standard
Valve body	Brass
Distributor	1.9" O.D., 1.5" pipe
Types	1.5" meter immediate initiated
Connection	1.5" FNPT
Mineral tank	Corrosion resistant FRP.
Brine tank	Fully assembled polyethylene
Media	High capacity cation resin

ORDERING CODE	CAPACITY (MAX.)	PIPE SIZE (IN.)	MINERAL TANK		BRINE TANK		FLOW RATE & PRESSURE			SHIP WT. (LBS)
			TANK SIZE	RESIN FT3	SIZE	SALT FILL (LBS)	SERVICE (GPM)	DROP (PSI)	BKW (GPM)	

### Twin Tank Softeners with 9500 Digital SXT Metered Control Valves

68105231	60,000	1 1/2	12x52	2	24x41	600	15-20	15-25	3.5	270
68105233	90,000	1 1/2	14x65	3	24x41	600	17-22	15-25	5	550
68105235	120,000	1 1/2	16x65	4	24x41	600	25-40	15-25	7	720
68105236	150,000	1 1/2	18x65	5	24x41	600	30-50	15-25	10	900
68105238	210,000	1 1/2	21x62	7	24x50	800	35-53	15-25	12	1215
68105240	300,000	1 1/2	24x72	10	30x50	1200	40-55	15-25	15	1750

#### NOTICE

Flow rates listed above are based on pressure drop only. Selecting a system based on pressure drop alone does not guarantee that the system will provide adequately softened water. System selection should be based on resin quantity, capacity required, feed water analysis, and application requirements.

## Water Softeners with Watts 2" Valves

These water softeners are suitable for commercial applications ranging from 60,000 grains of hardness removal capacity at flow rates up to 125 gpm.

### Regeneration Controller

These softeners feature the Watts Enhanced Electronic controller. It combines simplicity with flexibility in a user-friendly package that is easy to setup and operate. Fully adjustable cycle times with 6-cycle control allows for application specific settings. A turbine flow meter provides accurate flow measurement and allows for efficient operation. The H series controllers can be used with the auxiliary system circuit board to connect up to four units together for multiple tank applications.

### Control Valve

The Watts Heavy Duty 2.0" control valve operates on command from the valve controller. A hydraulically-balanced piston glides effortlessly along non-corrosive spacers and seals to precise positions. The reliable and proven DC drive performs in the toughest applications. The Lead Free brass valve body is covered with an electro-statically-applied epoxy coating that resists corrosion and maintains a quality appearance over time.



CWS200HF

ORDERING CODE	CAPACITY (MAX.)	PIPE SIZE (IN.)	MINERAL TANK		BRINE TANK		FLOW RATE & PRESSURE			SHIP WT. (LBS)
			TANK SIZE	RESIN FT3	SIZE	SALT FILL (LBS)	SERVICE (GPM)	DROP (PSI)	BKW (GPM)	

### Water Softeners With Watts 2" Digital Metered Control Valves

68105566	150,000	2	18x65	5	24x41	600	53-69	15-25	10	400
68105568	210,000	2	21x62	7	24x50	800	66-85	15-25	13	600
68105570	300,000	2	24x72	10	30x50	1200	73-94	15-25	15	710
68105572	450,000	2	30x72	15	39x48	2200	84-109	15-25	25	1160
68105574	600,000	2	36x72	20	39x48	2200	93-119	15-25	35	1560
68110445	300,000	2	24x72	10	30x50	1200	75-97	15-25	15	710
68110446	450,000	2	30x72	15	39x48	2200	88-113	15-25	25	1160
68110447	600,000	2	36x72	20	39x48	2200	97-126	15-25	35	1560

#### NOTICE

Service gpm is for a single mineral tank and duplex alternating systems ONLY. For Progressive systems, multiply the service gpm by (x2) for Duplex and (x3) for Triplex systems. The maximum peak service flow rate capability of any progressive series system will be reduced by the service flow rate of one tank during regeneration.

#### NOTICE

Flow rates listed above are based on pressure drop only. Selecting a system based on pressure drop alone does not guarantee that the system will provide adequately softened water. System selection should be based on resin quantity, capacity required, feed water analysis, and application requirements.

## Water Softeners with Fleck 2900 Valves

Ideal for commercial applications with capacities to 600,000 grains.

HC-200 series softeners with Fleck 2900 brass control valves are suitable for flow rates to 105 GPM. Models with time clock and metered controls are available.

### Features & Benefits

- 2" valves for high flow rates
- Top quality components
- Models for capacities to 600,000 grains
- User friendly Fleck 2900 control valves
- Brine tanks with grid plate for maximum saturation of brine (some models)
- Safety brine valve with air check
- Digital Controllers are Standard



2900 Series

### Specifications

VALVE	FLECK 2900 TOP MOUNT VALVE (2")
Valve body	Brass
Types	Time clock and metered
By-pass	None
Mineral tanks	Corrosion resistant FRP.
Brine tanks	Polyethylene; fully assembled
Media	Cation resin; high capacity

ORDERING CODE	CAPACITY (MAX.)	PIPE SIZE (IN.)	MINERAL TANK		BRINE TANK		FLOW RATE & PRESSURE			SHIP WT. (LBS)
			TANK SIZE	RESIN FT3	SIZE	SALT FILL (LBS)	SERVICE (GPM)	DROP (PSI)	BKW (GPM)	

### Water Softeners with Fleck 2900 NXT Metered Control Valves

68105390	90,000	2	14x65	3	18x40	400	25-40	15-25	5	350
68105401	120,000	2	16x65	4	18x40	400	35-55	15-25	7	350
68105407	150,000	2	18x65	5	24x41	600	57-65	15-25	10	400
68105414	210,000	2	21x62	7	24x50	800	60-77	15-25	13	600
68105428	300,000	2	24x72	10	30x50	1200	74-97	15-25	15	710
68105443	450,000	2	30x72	15	39x48	2200	80-100	15-25	25	1160
68105455	600,000	2	36x72	20	39x60	2700	84-105	15-25	35	1560

### Twin Alternating Water Softeners with Fleck 2900 NXT Metered Control Valves

68105393	90,000	2	14x65	3	18x40	400	25-40	15-25	5	450
68105405	120,000	2	16x65	4	18x40	400	35-55	15-25	7	500
68105411	150,000	2	18x65	5	24x41	600	57-65	15-25	10	800
68105419	210,000	2	21x62	7	24x50	800	60-77	15-25	13	1200
68105435	300,000	2	24x72	10	30x48	1200	74-97	15-25	15	1400
68105448	450,000	2	30x72	15	39x48	2200	80-100	15-25	25	2200
68105460	600,000	2	36x72	20	39x60	2700	84-105	15-25	35	3000

### NOTICE

Service gpm is for a single mineral tank and duplex alternating systems ONLY. For Progressive systems, multiply the service gpm by (x2) for Duplex, (x3) for Triplex, and (x4) for Quadplex systems. The maximum peak service flow rate capability of any progressive series system will be reduced by the service flow rate of one tank during regeneration.

### NOTICE

Flow rates listed above are based on pressure drop only. Selecting a system based on pressure drop alone does not guarantee that the system will provide adequately softened water. System selection should be based on resin quantity, capacity required, feed water analysis, and application requirements.

## Heavy Duty Water Softeners with Watts 3" Valves

These water softeners are suitable for commercial applications ranging from 200,000 to 1,050,000 grains of hardness removal capacity at flow rates up to 251 gpm.

**Regeneration Controller** – These softeners feature the Watts Enhanced Electronic controller. It combines simplicity with flexibility in a user-friendly package that is easy to setup and operate. A turbine flow meter provides accurate flow measurement and allows for efficient operation. The H series controllers can be used with the auxiliary system circuit board to connect up to four units together for multiple tank applications.

**Control Valve** – The Watts Heavy Duty 3.0" control valve operates on command from the valve controller. A hydraulically-balanced piston glides effortlessly along non-corrosive spacers and seals to precise positions. The reliable and proven DC drive performs in the toughest applications. The Lead Free brass valve body is covered with an electro-statically-applied epoxy coating that resists corrosion and maintains a quality appearance over time.



ORDERING CODE	CAPACITY (MAX.)	PIPE SIZE (IN.)	MINERAL TANK		BRINE TANK		FLOW RATE & PRESSURE			SHIP WT. (LBS)
			TANK SIZE	RESIN FT3	SIZE	SALT FILL (LBS)	SERVICE (GPM)	DROP (PSI)	BKW (GPM)	

### Water Softeners with Watts 3" Digital Metered Control Valves

68105575	300,000	3	24x72	10	30x50	1200	98-125	15-25	15	1070
68105576	450,000	3	30x72	15	39x48	2200	144-186	15-25	25	1600
68105577	600,000	3	36x72	20	39x60	2700	172-222	15-25	35	2015
68105578	900,000	3	42x72	30	42x60	3100	190-244	15-25	50	3245
68105579	1,050,000	3	48x72	35	50x60	4500	194-251	15-25	60	4295

#### NOTICE

Flow rates listed above are based on pressure drop only. Selecting a system based on pressure drop alone does not guarantee that the system will provide adequately softened water. System selection should be based on resin quantity, capacity required, feed water analysis, and application requirements.

#### NOTICE

Service gpm is for a single mineral tank and duplex alternating systems ONLY. For Progressive systems, multiply the service gpm by (x2) for Duplex and (x3) for Triplex systems. The maximum peak service flow rate capability of any progressive series system will be reduced by the service flow rate of one tank during regeneration.



## Water Softeners with Fleck 3900 Valves

High flow commercial softeners with capacities to 1,050,000 grains.

HC-300 series softeners with Fleck 3900 brass control valves are suitable for flow rates to 280 GPM. Models with time clock and metered controls are available.

### Features & Benefits

- 3" valves for high flow rates
- Top quality components
- Models for capacities to 1,050,000 grains
- 3900 controller operates on demand
- Brine tanks with grid plate for maximum saturation of brine (some models)
- Safety brine valve with air check



3900 Series

### Specifications

VALVE	FLECK 3900 TOP MOUNT VALVE
Valve body	Brass
Pipe size	3"
Types	Time clock and metered
By-pass	None
Mineral tanks	Corrosion resistant FRP.
Brine tanks	Polyethylene; fully assembled
Media	Cation resin; high capacity

ORDERING CODE	CAPACITY (MAX.)	PIPE SIZE (IN.)	MINERAL TANK		BRINE TANK		FLOW RATE & PRESSURE			SHIP WT. (LBS)
			TANK SIZE	RESIN FT3	SIZE	SALT FILL (LBS)	SERVICE (GPM)	DROP (PSI)	BKW (GPM)	

## Water Softeners with Fleck 3900 NXT Metered Control Valves and Strap On Flow Sensor

68105467	300,000	3	24x72	10	30x50	1200	120-170	15-25	15	1070
68105480	450,000	3	30x72	15	39x48	2200	158-212	15-25	25	1600
68105493	600,000	3	36x72	20	39x60	2700	185-250	15-25	35	2015
68105504	900,000	3	42x72	30	42x60	3100	200-268	15-25	50	3245
68105516	1,050,000	3	48x72	35	50x60	4500	213-280	15-25	60	4295

## Twin Alternating Water Softeners with Fleck 3900 NXT Metered Control Valves and Strap On Flow Sensor

68105473	300,000	3	24x72	10	30x50	1200	120-170	15-25	15	2070
68105486	450,000	3	30x72	15	39x48	2200	158-212	15-25	25	3000
68105498	600,000	3	36x72	20	39x60	2700	185-250	15-25	35	4015
68105509	900,000	3	42x72	30	42x60	3100	200-268	15-25	50	6245
68105523	1,050,000	3	48x72	35	50x60	4500	213-280	15-25	60	8295

### NOTICE

Service gpm is for a single mineral tank and duplex alternating systems ONLY. For Progressive systems, multiply the service gpm by (x2) for Duplex, (x3) for Triplex and (x4) for Quadplex systems. The maximum peak service flow rate capability of any progressive series system will be reduced by the service flow rate of one tank during regeneration.

### NOTICE

Flow rates listed above are based on pressure drop only. Selecting a system based on pressure drop alone does not guarantee that the system will provide adequately softened water. System selection should be based on resin quantity, capacity required, feed water analysis, and application requirements.

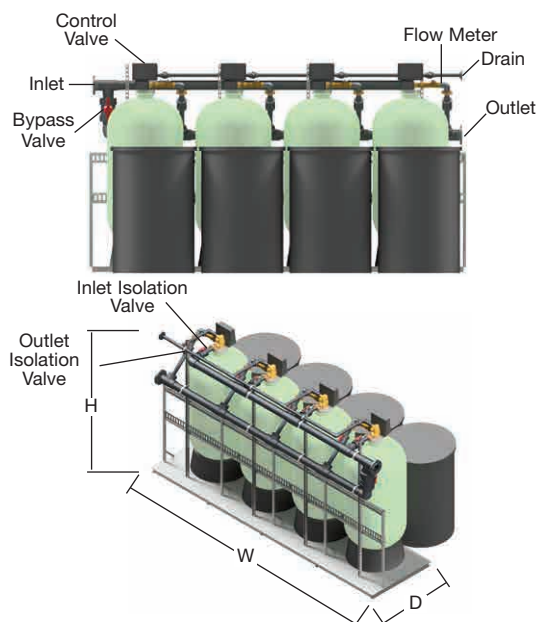
## Water Softeners Pre-Plumbed & Skid Mounted with 2900 Control Valves

Ideal for commercial and industrial applications where high flow and high capacities are required.

Watts' pre-engineered, pre-plumbed, skid mounted water softeners with Fleck 2900 brass control valves are suitable for peak flow rates up to 420 GPM. Twin alternating and 2-4 tank parallel systems are available. Parallel systems include flow demand staging to accommodate wide variances in flow rate. All systems come standard with no hard water bypass pistons, powder coated steel skids, and schedule 80 PVC pre-plumbed inlet, outlet and drain headers.

### Features & Benefits

- Pre-plumbed and skid mounted for ease of installation
- Schedule 80 PVC inlet, outlet and drain headers with inlet and outlet isolation valves for each tank
- Bypass valve between inlet and outlet headers
- Powder coated steel skid
- 2" valves for high flow rates
- Pre-engineered Twin Alternating (TA), Twin Interlocked (TI), Triplex (TR) and Quadplex (QD) configurations
- Models for capacities to 600,000 grains per tank
- User friendly Fleck 2900 control valves
- Flow demand staging available on TI, TR and QD models
- Each mineral tank has its own brine tank on model TI, TR and QD systems
- No hard water bypass pistons standard on all systems
- All systems have Fleck brass in-line flow meters



QD System with 2900 Control Valves

### Specifications

VALVE	FLECK 2900 TOP MOUNT VALVE (2")
Valve body	Brass
Types	Metered NXT
By-pass	Isolation valve on each control valve inlet and outlet with bypass valve between inlet and outlet headers
Mineral tanks	Corrosion resistant FRP.
Brine tanks	Polyethylene; fully assembled
Media	Cation resin; high capacity

### Options

- ASME code mineral tanks (24" and above)
- Inlet and outlet sample ports and pressure gauges
- Brine Tank Safety Float(s)

ORDERING CODE	GRAIN CAPACITY PER TANK (MAX.)	MAIN HEADERS - DRAIN PIPE SIZE (IN.)	NO. OF TANKS - METERS	MINERAL TANK		BRINE TANK		FLOW RATE & PRESSURE			FLOOR SPACE* D X W X H	SHIP WT. (LBS)
				TANK SIZE	RESIN FT3 PER TANK	NO. - SIZE	SALT FILL (LBS)	SERVICE (GPM)	DROP (PSI)	BKW (GPM)		

### Water Softeners with Fleck 2900 NXT Metered Control Valves Pre-Plumbed & Skid Mounted

68105421	210,000	2-1	2-1	21"x62"	7	1-24x50	800	60-77	15-25	12	42" x 82" x 90"	2100
68105423	210,000	3-1	2-2	21"x62"	7	2-24X50	1600	120-154	15-25	12	42" x 78" x 90"	2100
68105425	210,000	3-1	3-3	21"x62"	7	3-24X50	2400	180-231	15-25	12	42" x 114" x 90"	3050
68105418	210,000	4-1	4-4	21"x62"	7	4-24X50	3200	240-308	15-25	12	42" x 150" x 90"	3850
68105436	300,000	2-1	2-1	24"x72"	10	1-30X50	1200	74-97	15-25	15	42" x 82" x 95"	2200
68105438	300,000	3-1	2-2	24"x72"	10	2-30X50	2400	148-194	15-25	15	42" x 78" x 95"	2320
68105439	300,000	4-1	3-3	24"x72"	10	3-30X50	3600	222-291	15-25	15	42" x 114" x 95"	3380
68105434	300,000	4-1	4-4	24"x72"	10	4-30X50	4800	296-388	15-25	15	42" x 150" x 95"	4290
68105449	450,000	2-1	2-1	30"x72"	15	1-39X48	2200	80-100	15-25	25	48" x 102" x 100"	3450
68105451	450,000	3-1	2-2	30"x72"	15	2-39X48	4400	160-200	15-25	25	48" x 91" x 100"	3520
68105453	450,000	4-1	3-3	30"x72"	15	3-39X48	6600	240-300	15-25	25	48" x 114" x 100"	4780
68105447	450,000	4-1	4-4	30"x72"	15	4-39X48	8800	320-400	15-25	25	48" x 150" x 100"	6090
68105461	600,000	2-1 1/2	2-1	36"x72"	20	1-39X60	2200	84-105	15-25	35	48" x 102" x 100"	4250
68105463	600,000	3-1 1/2	2-2	36"x72"	20	2-39X60	4400	168-210	15-25	35	48" x 91" x 100"	4320
68105465	600,000	4-1 1/2	3-3	36"x72"	20	3-39X60	6600	252-315	15-25	35	48" x 114" x 100"	5980
68105459	600,000	4-1 1/2	4-4	36"x72"	20	4-39X60	8800	336-420	15-25	35	48" x 150" x 100"	7690

#### Note:

\* Skid dimensions do not reflect brine tank space requirements. For total system space requirements, obtain the additional brine tank quantity and foot print of each from the chart above.

### NOTICE

Flow rates listed above are based on pressure drop only. Selecting a system based on pressure drop alone does not guarantee that the system will provide adequately softened water. System selection should be based on resin quantity, capacity required, feed water analysis, and application requirements. Flow rates are expressed with all available tanks in service, operating in parallel. In the event a model TI, TR or QD system regenerates, the published service flow rate will be reduced by a factor of one tank. This must be taken into account when system sizing and selection is being conducted.

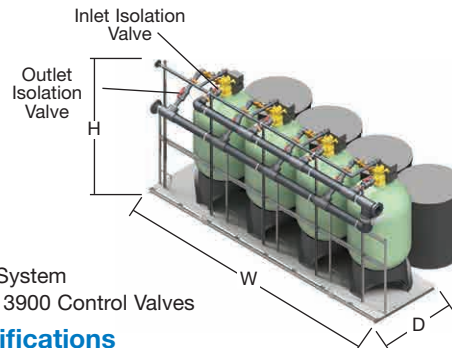
## Water Softeners Pre-Plumbed & Skid Mounted with 3900 Control Valves

Ideal for commercial and industrial applications where high flow and high capacities are required.

Watts' pre-engineered, pre-plumbed, skid mounted water softeners with Fleck 3900 brass control valves are suitable for peak flow rates up to 1,120 GPM. Twin alternating and 2-4 tank parallel systems are available. Parallel systems include flow demand staging to accommodate wide variances in flow rate. All systems come standard with no hard water bypass pistons, powder coated steel skids, and schedule 80 PVC pre-plumbed inlet, outlet and drain headers.

### Features & Benefits

- Pre-plumbed and skid mounted for ease of installation
- Schedule 80 PVC inlet, outlet and drain headers with inlet and outlet isolation valves for each tank
- Bypass valve between inlet and outlet headers
- Powder coated steel skid
- 3" valves for high flow rates
- Pre-engineered Twin Alternating (TA), Twin Interlocked (TI), Triplex (TR) and Quadplex (QD) configurations
- Flow demand staging available on TI, TR and QD models
- Models for capacities to 1,050,000 grains per tank
- User friendly Fleck 3900 control valves
- Each mineral tank has its own brine tank on model TI, TR and QD systems
- No hard water bypass pistons standard on all systems
- All systems have Fleck brass in-line flow meters



QD System  
with 3900 Control Valves

### Specifications

VALVE	FLECK 3900 TOP MOUNT VALVE
Valve body	Brass
Types	Metered NXT
By-pass	Isolation valve on each control valve inlet and outlet with bypass valve between inlet and outlet header
Mineral tanks	Corrosion resistant FRP.
Brine tanks	Polyethylene; fully assembled
Media	Cation resin; high capacity

### Options

- ASME code mineral tanks
- Inlet and outlet sample ports and pressure gauges
- Brine Tank Safety Float(s)

ORDERING CODE	GRAIN CAPACITY PER TANK (MAX.)	MAIN HEADERS - DRAIN PIPE SIZE (IN.)	NO. OF TANKS - METERS	MINERAL TANK		BRINE TANK		FLOW RATE & PRESSURE			FLOOR SPACE* D X W X H	SHIP WT. (LBS)
				TANK SIZE	RESIN FT3 PER TANK	NO.- SIZE	SALT FILL (LBS)	SERVICE (GPM)	DROP (PSI)	BKW (GPM)		

### Water Softeners with Fleck 3900 NXT Metered Control Valves Pre-Plumbed & Skid Mounted

68105474	300,000	3-1	2-1	24"x72"	10	1-30X50	1200	120-170	15-25	15	54" x 110" x 109"	3300
68105476	300,000	4-1	2-2	24"x72"	10	2-30X50	2400	240-340	15-25	15	54" x 110" x 109"	3420
68105478	300,000	4-1	3-3	24"x72"	10	3-30X50	3600	360-510	15-25	15	52" x 160" x 109"	5030
68105472	300,000	6-1	4-4	24"x72"	10	4-30X50	4800	480-680	15-25	15	56" x 205" x 109"	6770
68105487	450,000	3-1 1/2	2-1	30"x72"	15	1-39X48	2200	158-212	15-25	25	54" x 110" x 112"	4230
68105488	450,000	4-1 1/2	2-2	30"x72"	15	2-39X48	4400	316-424	15-25	25	54" x 110" x 112"	4480
68105491	450,000	6-1 1/2	3-3	30"x72"	15	3-39X48	6600	474-636	15-25	25	52" x 160" x 112"	6620
68105485	450,000	6-1 1/2	4-4	30"x72"	15	4-39X48	8800	632-848	15-25	25	56" x 205" x 112"	8890
68105499	600,000	3-1 1/2	2-1	36"x72"	20	1-39X60	2700	185-250	15-25	35	54" x 110" x 115"	5250
68105501	600,000	4-1 1/2	2-2	36"x72"	20	2-39X60	5400	370-500	15-25	35	54" x 110" x 115"	5310
68105503	600,000	6-1 1/2	3-3	36"x72"	20	3-39X60	8100	555-750	15-25	35	52" x 160" x 115"	7860
68105497	600,000	6-1 1/2	4-4	36"x72"	20	4-39X60	10800	740-1000	15-25	35	56" x 205" x 115"	10550
68105510	900,000	3-2	2-1	42"x72"	30	1-42X60	3100	200-268	15-25	50	66" x 125" x 121"	7880
68105512	900,000	4-2	2-2	42"x72"	30	2-42X60	6200	400-536	15-25	50	66" x 130" x 121"	8230
68105516	900,000	6-2	3-3	42"x72"	30	3-42X60	9300	600-804	15-25	50	66" x 185" x 121"	12230
68105508	900,000	6-2	4-4	42"x72"	30	4-42X60	12400	800-1072	15-25	50	66" x 240" x 121"	16230
68105524	1,050,000	3-2	2-1	48"x72"	35	1-50X60	4500	213-280	15-25	60	66" x 125" x 121"	9930
68105526	1,050,000	6-2	2-2	48"x72"	35	2-50X60	9000	426-560	15-25	60	66" x 130" x 121"	10330
68105528	1,050,000	6-2	3-3	48"x72"	35	3-50X60	13500	639-840	15-25	60	66" x 185" x 121"	15380
68105522	1,050,000	6-2	4-4	48"x72"	35	4-50X60	18000	852-1120	15-25	60	66" x 240" x 121"	20430

#### Note:

\* Skid dimensions do not reflect brine tank space requirements. For total system space requirements, obtain the additional brine tank quantity and foot print of each from the chart above.

### NOTICE

Flow rates listed above are based on pressure drop only. Selecting a system based on pressure drop alone does not guarantee that the system will provide adequately softened water. System selection should be based on resin quantity, capacity required, feed water analysis, and application requirements. Flow rates are expressed with all available tanks in service, operating in parallel. In the event a model TI, TR or QD system regenerates, the published service flow rate will be reduced by a factor of one tank. This must be taken into account when system sizing and selection is being conducted.

## Water Softeners with 2900 and 3900 Control Valves and No Hard Water Bypass Pistons

Ideal for commercial and industrial applications where high flow and high capacities are required and system footprint needs to be flexible.

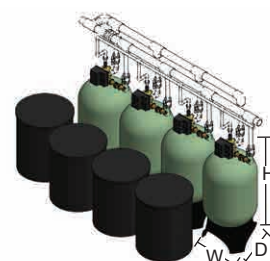
Watts offers 2" and 3" single tank water softening systems with no hard water bypass pistons. Each system comes with a mineral tank, media, control valve, meter, and brine tank. These systems are designed to be ordered in multiples and installed in parallel so that duplex, triplex and quad systems can be created and field installed. These systems include flow demand staging to accommodate peak flow rates up to 1,120 GPM.

### Features & Benefits

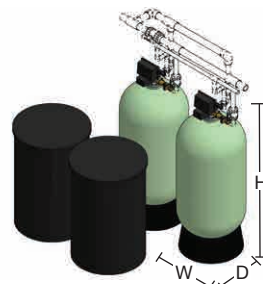
- Easily create duplex, triplex and quad system with flow demand staging
- Systems available with 2" or 3" valves
- Models for capacities to 1,050,000 grains per tank
- Arrange up to 4 tanks in parallel for flow rates up to 1,120 GPM
- All systems have no hard water bypass pistons
- Each system is complete with brine tank & meter
- All systems have Fleck brass in-line flow meters

### Options

- ASME code mineral tanks (24" and above)
- Brine Tank Safety Floats



M4118NT-NH (X4)



M4059NT-NH (X2)

### Specifications

VALVE	FLECK 2900 & 3900 TOP MOUNT VALVES
Valve body	Brass
Pipe size	2" or 3"
Types	Metered NXT
By-pass	None
Mineral tanks	Corrosion resistant FRP.
Brine tanks	Polyethylene; fully assembled
Media	Cation resin; high capacity

ORDERING CODE	CAPACITY (MAX.)	PIPE SIZE (IN.)	MINERAL TANK		BRINE TANK		FLOW RATE & PRESSURE			FLOOR SPACE* D X W X H	SHIP WT. (LBS)
			TANK SIZE	RESIN FT3	SIZE	SALT FILL (LBS)	SERVICE (GPM)	DROP (PSI)	BKW (GPM)		

### Water Softeners with Fleck 2900 NXT Metered Control Valves & No Hard Water Bypass Pistons

68105415	210,000	2	21"x62"	7	24X50	800	60-77	15-25	12	21" x 25" x 81"	600
68105430	300,000	2	24"x72"	10	30X50	1200	74-97	15-25	15	24" x 27" x 88"	710
68105444	450,000	2	30"x72"	15	39X48	2200	80-100	15-25	25	30" x 30" x 94"	1160
68105456	600,000	2	36"x72"	20	39X60	2200	84-105	15-25	35	36" x 36" x 97"	1560

### Water Softeners with Fleck 3900 NXT Metered Control Valves & No Hard Water Bypass Pistons

68105469	300,000	3	24"x72"	10	30X50	1200	120-170	15-25	15	26" x 38" x 95"	1095
68105482	450,000	3	30"x72"	15	39X48	2200	158-212	15-25	25	31" x 41" x 98"	1625
68105494	600,000	3	36"x72"	20	39X60	2700	185-250	15-25	35	37" x 44" x 101"	2040
68105505	900,000	3	42"x72"	30	42X60	3100	200-268	15-25	50	44" x 47" x 109"	3270
68105519	1,050,000	3	48"x72"	35	50X60	4500	213-280	15-25	60	50" x 50" x 109"	4320

\* Floor Space dimensions do not reflect brine tank space requirements. For total system space requirements, obtain the additional brine tank quantity and footprint of each from the chart above.

### NOTICE

Flow rates listed above are based on pressure drop only. Selecting a system based on pressure drop alone does not guarantee that the system will provide adequately softened water. System selection should be based on resin quantity, capacity required, feed water analysis, and application requirements. Pre-plumbing and skid mounting are not available on these systems. For pre-plumbed skid mounted systems see catalog page 34 & 35.

## Heavy-Duty Steel Tank Water Softeners with Fleck Valves

Heavy duty softeners for heavy duty commercial applications!

Suitable for commercial applications ranging from 300,000 to 1,200,000 grains of hardness removal capacity and flow rates to 280 GPM. Models with time clock and meters available.

### Features & Benefits

- Regeneration by time clock or meter
- Automatic brine refill by timer or controller
- Models for capacities to 1,200,000 grains
- Fleck control valves
- Steel tanks rated for 100 psi
- Exterior tanks primed for protection
- Face piping is galvanized
- Electronic controls are available
- All systems shipped with high capacity Cation resin

### Specifications

VALVE	(SEE CHART BELOW)
Valve body	Brass
Pipe sizes	2" and 3" (see below)
Types	Time clock (meter optional)
By-pass	None
Mineral tanks	Epoxy lined steel interior
Brine tanks	Brine maker / salt storage is PE
Brine supply	Automatic brine refill
Media	Cation resin; high capacity



Steel Tank Series

### Metered Models

ORDERING CODE	FLECK VALVE NO.	CAPACITY (MAX.)	PIPE SIZE (IN.)	MINERAL TANK		BRINE TANK		FLOW RATE & PRESSURE			SHIP WT. (LBS)
				TANK SIZE	RESIN FT3	SIZE	SALT FILL (LBS)	SERVICE (GPM)	DROP (PSI)	BKW (GPM)	
68105587	2900	300,000	2	24 x 60	10	30 x 50	1200	68-94	15-25	15	1930
68105597	2900	450,000	2	30 x 60	15	39 x 48	2200	72-102	15-25	25	2525
68105611	3900	600,000	3	36 x 60	20	39 x 60	2200	185-250	15-25	35	2850
68105621	3150	900,000	2	42 x 60	30	42 x 60	3000	84-118	15-25	50	4650
68105623	3900	900,000	3	42 x 60	30	42 x 60	3000	200-268	15-25	50	4800
68105633	3150	1,200,000	2	48 x 60	40	50 x 60	4500	87-120	15-25	60	4950
68105635	3150	1,200,000	2	48 x 60	40	50 x 60	4500	87-120	15-25	60	4950

### Twin Alternating Models

ORDERING CODE	FLECK VALVE NO.	CAPACITY (MAX.)	PIPE SIZE (IN.)	MINERAL TANK		BRINE TANK		FLOW RATE & PRESSURE			SHIP WT. (LBS)
				TANK SIZE	RESIN FT3	SIZE	SALT FILL (LBS)	SERVICE (GPM)	DROP (PSI)	BKW (GPM)	
68105590	2900	300,000	2	24 x 60	10	30 x 50	1200	68-94	15-25	15	3860
68105601	2900	450,000	2	30 x 60	15	39 x 48	2200	72-102	15-25	25	5050
68105616	3900	600,000	3	36 x 60	20	39 x 60	2200	185-250	15-25	35	5700
68105625	3150	900,000	2	42 x 60	30	42 x 60	3000	84-118	15-25	50	9300
68105627	3900	900,000	3	42 x 60	30	42 x 60	3000	200-268	15-25	50	9600
68105639	3900	1,200,000	2	48 x 60	40	50 x 60	4500	87-120	15-25	60	9900

### NOTICE

Flow rates listed above are based on pressure drop only. Selecting a system based on pressure drop alone does not guarantee that the system will provide adequately softened water. System selection should be based on resin quantity, capacity required, feed water analysis, and application requirements.

ASME mineral tanks, twin, triplex, quadplex models available.

Watts.com/dealer



# Media Filtration Systems

Watts offers a complete line of media filtration systems for a wide variety of applications. Our Micro Z<sup>®</sup> media offers superior performance, reducing particulate matter down as low as 3 micron with 2.5 times the dirt holding capacity of sand. Watts Filox media for iron, manganese, and hydrogen sulfide reduction has the highest flow rate in the market today at 6gpm per cubic foot.

Watts also offers other media's such as Activated Carbon, Calcite, and GreensandPlus<sup>™</sup> to meet all your needs.

## DID YOU KNOW?

Micro Z is a single media replacement for multimedia (anthracite, sand, and garnet). It saves on shipping cost, and eliminates questions about which media goes in the tank first. It also has a higher service flow rate with a lower pressure drop and finer filtration with higher dirt holding capacity.

## Automatic Backwashing with Micro Z

### Whole House Filters For Sediment Reduction with High Efficiency Micro Z Filter Media

Our filtration systems for sediment use high performance Micro Z filter media to provide increased loading capability and higher service flow rates. Micro Z's unique Zeolite structure offers increased porosity to outperform conventional sand filters by reducing water consumption. Our Micro Z media offers superior performance, reducing particulate matter down as low as 3 micron with 2.5 times the dirt holding capacity of sand.

**The need to backwash is dramatically reduced!**

#### Features & Benefits

- Uses Micro Z for increased dirt holding capacity
- Unique structure allows for higher flow rates
- Reduces water consumption because the need to backwash is dramatically reduced
- Reliable equipment, designed for long-term service



W100 Valve

### Models with Watts Valves

MODEL NO.	ORDERING CODES	VALVE	PIPE SIZE (IN.)	TANK SIZE	MEDIA (CU. FT.)	PEAK SERVICE FLOW (GPM)	BACKWASH (GPM)	FLOOR SPACE (D X W X H)	SHIP WT (LBS)
<b>Residential Systems with Standard Tanks</b>									
NM09-CK10F	68105944	W100	1	9 x 48	1	5/9	5.3	16 x 10 x 55	110
NM10-CK10F	68105949	W100	1	10 x 54	1.5	7/10	7.5	16 x 11 x 62	140
NM12-CK10F	68105953	W100	1	12 x 52	2	9/15	11	17 x 13 x 60	200
NM14-CK10F	68105958	W100	1 1/4 - 1 1/2	14 x 65	3	13/21	15	18 x 15 x 74	310

## Automatic Backwashing Filox® and GreensandPlus™ Filters

### Whole House Filters for Iron, Hydrogen Sulfide and Manganese Reduction

Iron, Manganese and Hydrogen Sulfide are common elements found in your water and can be a nuisance causing stains in sinks, bathtubs, toilets, driveways and even the side of your house. In addition Iron, Manganese and Hydrogen Sulfide release unpleasant odors and tastes to your water supply. FILOX® and GreensandPlus™ are the great solutions to these challenging water quality problems.



W100 Valve



**Standard Mineral Tank**  
Standard tanks use gravel under bedding, which adds weight and cost. Also, re-bedding is more difficult, should riser tubes pull out of the gravel bed.

### Two Media Types

#### Filox®

A non-chemical oxidizing media to reduce Iron, Manganese and Hydrogen Sulfide.

#### GreensandPlus™

An enhanced version of the traditional medium to remove Iron, Manganese and Hydrogen Sulfide from water.

#### Filox® System Advantages

- Highest flow rate of any Iron removal media
- No oxidizing chemicals needed for regeneration
- High efficiency with 80% Manganese dioxide for enhanced performance and capacity
- Effective from 6.5 to 9.0 pH
- System is easy to program, with 10 pre-programmed regeneration cycles to optimize water treatment

#### GreensandPlus™ System Advantages

- Lower backwash requirements
- Known saturation capacity
- Higher temperatures and differential pressures than traditional Manganese Greensand
- GreensandPlus™ is also used for radium reduction
- User friendly, low maintenance electronic time clock valve
- Effective from 6.2 to 8.5 pH

#### NOTICE

The use of chemicals and oxidizers, such as chlorine, potassium permanganate and oxygen may be required for both systems to provide the optimal treatment for Iron, Hydrogen Sulfide and Manganese.

### Backwashing Filox Filters

MODEL NO.	ORDERING CODES	VALVE	PIPE SIZE	TANK SIZE	MEDIA (CU. FT.)	PEAK SERVICE FLOW (GPM)	BACKWASH (GPM)	FLOOR SPACE (DXWXH)	SHIP WT (LBS)
<b>Residential Systems with Standard Tanks</b>									
NF09-CK10F	68105892	W100	1	9X48	1	6	7.5	16X10X55	167
NF10-CK10F	68105897	W100	1	10X54	1.5	9	10	16X11X62	235
NF12-CK10F	68105902	W100	1	12X52	2	12	15	17X13X60	318
NF14-CK10F	68105907	W100	1 1/4 - 1 1/2	14X65	3	18	20	18X15X74	460
NF16-CK10F	68105913	W100	1 1/4 - 1 1/2	16X65	4	24	25	20X17X74	611
N2415-F	68105792	Fleck 2850	1 1/2	14X65	3	18	20	16X16X58	367

#### NOTICE

The information listed above is for residential applications only and should not be used for commercial applications.

## Non-Backwashing Carbon Filters

These non-backwashing carbon filters are a great solution for wide variety of water related issues where backwashing is either restricted or not possible. Applications include dechlorination, taste and odor reduction, and VOC/TOC reduction. Standard pipe size offerings are 3/4" and 1" FNPT and head materials are Noryl and PVC.

### Features & Benefits

- Non Backwashing
- Simple In/Out Head for Easy Installation
- No Electricity Required
- No Drain Required
- Small Foot Print



### Non-Backwashing Tanks

MODEL NO.	ORDERING CODES	VALVE	PIPE SIZE (IN)	TANK SIZE	MEDIA (CU. FT.)	PEAK SERVICE FLOW (GPM)	BACKWASH (GPM)	FLOOR SPACE (DXWXH)	SHIP WT (LBS)
<b>Residential Systems with Standard Tanks</b>									
N1042A	68105743	None	3/4	8 x 44	1	4	None	9X9X49	80
N1042A-1	68105744	None	1	8 x 44	1	4	None	9X9X49	80
N1043-SD	68105745	None	2	10 x 54	2	8	None	11X11X59	95
NC09-NB	68105858	None	1	9 x 48	1	4	None	10X10X53	85
NC10-NB	68105867	None	1	10 x 54	1.5	6	None	11X11X59	95
NC12-NB	68105873	None	1	12 x 52	2	8	None	13X13X57	125

## The Key to Controller Simplicity

### LockSmith™ Backwashing Filtration Systems

Why sell the same filtration system as the competition when it offers fewer features, less functionality, and lower performance? Watts filtration systems now come standard with advanced, user-friendly LOCKSMITH™ controllers, designed to streamline the operation and maintenance of your customer's system without the hassle of multiple platforms or additional system controllers.



### ACL-150 and ACL-200

MODEL NO.	ORDERING CODES	DESCRIPTION	PIPE SIZE IN.	SPACE REQUIRED W X D X H	WEIGHT	
					LB.	KG
NC12FL150	68110920	2 Cubic Foot 1½" Carbon Filter with Auto Backwash	1½	15 x 13 x 64	161	73
NC14FL150	68110921	3 Cubic Foot 1½" Carbon Filter with Auto Backwash	1½	16 x 15 x 77	259	117
NC16FL150	68110922	4 Cubic Foot 1½" Carbon Filter with Auto Backwash	1½	18 x 17 x 77	314	142
NC18FL150	68110923	5 Cubic Foot 1½" Carbon Filter with Auto Backwash	1½	19 x 19 x 77	424	192
NC21FL150	68110924	7 Cubic Foot 1½" Carbon Filter with Auto Backwash	1½	24 x 23 x 84	547	248
NC24FL150	68110925	10 Cubic Foot 1½" Carbon Filter with Auto Backwash	1½	26 x 25 x 92	819	372
NC12FL200	68110927	2 Cubic Foot 2" Carbon Filter with Auto Backwash	2	16 x 13 x 64	169	77
NC14FL200	68110928	3 Cubic Foot 2" Carbon Filter with Auto Backwash	2	17 x 15 x 77	267	121
NC16FL200	68110929	4 Cubic Foot 2" Carbon Filter with Auto Backwash	2	18 x 17 x 79	322	146
NC18FL200	68110930	5 Cubic Foot 2" Carbon Filter with Auto Backwash	2	20 x 19 x 77	432	196
NC21FL200	68110931	7 Cubic Foot 2" Carbon Filter with Auto Backwash	2	23 x 22 x 77	555	252
NC24FL200	68110932	10 Cubic Foot 2" Carbon Filter with Auto Backwash	2	25 x 25 x 88	827	375
NC30FL200	68110933	15 Cubic Foot 2" Carbon Filter with Auto Backwash	2	38 x 30 x 107	1195	542
NC36FL200	68110934	20 Cubic Foot 2" Carbon Filter with Auto Backwash	2	48 x 40 x 107	1669	769

### AMZL-150 and AMZL-200

MODEL NO.	ORDERING CODES	DESCRIPTION	PIPE SIZE IN.	SPACE REQUIRED W X D X H	WEIGHT	
					LB	KG
NM12FL150	68110935	2 Cubic Foot 1½" Micro Z with Auto Backwash	1½	15 x 13 x 64	161	73
NM14FL150	68110936	3 Cubic Foot 1½" Micro Z with Auto Backwash	1½	16 x 15 x 77	259	117
NM16FL150	68110937	4 Cubic Foot 1½" Micro Z with Auto Backwash	1½	18 x 17 x 77	314	142
NM18FL150	68110938	5 Cubic Foot 1½" Micro Z with Auto Backwash	1½	19 x 19 x 77	424	192
NM21FL150	68110939	7 Cubic Foot 1½" Micro Z with Auto Backwash	1½	24 x 23 x 84	547	248
NM24FL150	68110940	10 Cubic Foot 1½" Micro Z with Auto Backwash	1½	26 x 25 x 92	819	372
NM12FL200	68110942	2 Cubic Foot 2" Micro Z with Auto Backwash	2	16 x 13 x 64	169	77
NM14FL200	68110943	3 Cubic Foot 2" Micro Z with Auto Backwash	2	17 x 15 x 77	267	121
NM16FL200	68110944	4 Cubic Foot 2" Micro Z with Auto Backwash	2	18 x 17 x 79	322	146
NM18FL200	68110945	5 Cubic Foot 2" Micro Z with Auto Backwash	2	20 x 19 x 77	432	196
NM21FL200	68110946	7 Cubic Foot 2" Micro Z with Auto Backwash	2	23 x 22 x 77	555	252
NM24FL200	68110947	10 Cubic Foot 2" Micro Z with Auto Backwash	2	25 x 25 x 88	827	375
NM30FL200	68110948	15 Cubic Foot 2" Micro Z with Auto Backwash	2	38 x 30 x 107	1195	542

### FLL-150 and FLL-200

MODEL NO.	ORDERING CODES	DESCRIPTION	PIPE SIZE IN.	SPACE REQUIRED W X D X H	WEIGHT	
					LB	KG
NF12FL150	68110905	2 Cubic Foot 1½" Filox with Auto Backwash	1½	15 x 13 x 64	161	73
NF14FL150	68110906	3 Cubic Foot 1½" Filox with Auto Backwash	1½	16 x 15 x 77	259	117
NF16FL150	68110907	4 Cubic Foot 1½" Filox with Auto Backwash	1½	18 x 17 x 77	314	142
NF18FL150	68110908	5 Cubic Foot 1½" Filox with Auto Backwash	1½	19 x 19 x 77	424	192
NF21FL150	68110909	7 Cubic Foot 1½" Filox with Auto Backwash	1½	24 x 23 x 84	547	248
NF12FL200	68110912	2 Cubic Foot 2" Filox with Auto Backwash	2	16 x 13 x 64	169	77
NF14FL200	68110913	3 Cubic Foot 2" Filox with Auto Backwash	2	17 x 15 x 77	267	121
NF16FL200	68110914	4 Cubic Foot 2" Filox with Auto Backwash	2	18 x 17 x 79	322	146
NF18FL200	68110915	5 Cubic Foot 2" Filox with Auto Backwash	2	20 x 19 x 77	432	196
NF21FL200	68110916	7 Cubic Foot 2" Filox with Auto Backwash	2	23 x 22 x 77	555	252
NF24FL200	68110917	10 Cubic Foot 2" Filox with Auto Backwash	2	25 x 25 x 88	827	375

## Automatic Backwashing Carbon Filters

Fully assembled backwashing filters with activated carbon and Micro Z®

Whole House Filters For Chlorine, Taste, Odor And Sediment Reduction.

Our activated carbon filters are highly popular because they correct a wide range of water quality problems by removing chlorine, tastes, odors and sediment.

### Benefits

- Great tasting water from every tap
- No bad tastes
- No foul odors
- User-friendly equipment
- Low maintenance due to automatic operation



5600 Valve

W100 Valve

Backwashing Filters With Activated Carbon For Taste, Odor And Chlorine Reduction

MODEL NO.	ORDERING CODES	VALVE	PIPE SIZE (IN)	TANK SIZE	MEDIA (CU. FT.)	PEAK SERVICE FLOW (GPM)	BACKWASH (GPM)	FLOOR SPACE (DXWXH)	SHIP WT (LBS)
<b>Residential Systems with Standard Tanks</b>									
N2050D	68105748	Fleck F5600	3/4	9X48	1	4	4	16"x10"x55"	90
NC09-CK10F	68105856	W100	1	9X48	1	4	4.2	16"x10"x55"	80
NC10-CK10F	68105864	W100	1	10X54	1.5	6	5.3	16"x11"x62"	105
NC12-CK10F	68105871	W100	1	12X52	2	8	7.5	17"x13"x60"	145
NC14-CK10F	68105877	W100	1 1/4 - 1 1/2	14X65	3	11	10	18"x15"x74"	200
NC16-CK10F	68105882	W100	1 1/4 - 1 1/2	16X65	4	14	11	20"x17"x74"	265
NC21-CK10F	68105887	W100	1 1/4 - 1 1/2	21X62	5	20	25	22"x23"x70"	365

**Note:** Systems with Fleck 5600 valves include a 0.75" bypass.

MODEL NO.	ORDERING CODES	VALVE	PIPE SIZE (IN)	TANK SIZE	MEDIA (CU. FT.)	PEAK SERVICE FLOW (GPM)	BACKWASH (GPM)	FLOOR SPACE (DXWXH)	SHIP WT (LBS)
<b>Commercial Systems with Standard Tanks</b>									
N2058-285NT	68105764	Fleck 2850 NXT	1 1/2	16X65	4	14.8	12	18"x17"x75"	254
N7022-2850	68105850	Fleck 2850	1 1/2	21X62	6	22	26	24"x23"x84"	410
N2059-285NT	68105766	Fleck 2850 NXT	1 1/2	21X62	7	25.9	26	24"x23"x84"	471
N7032-2850	68105853	Fleck 2850	1 1/2	24X72	10	37	30	26"x25"x92"	670
N2332-315NT	68105776	Fleck 3150 NXT	2	24X72	10	37	30	27"x27"x95"	735
N2333-315NT	68105778	Fleck 3150 NXT	2	30X72	15	55.5	50	33"x33"x95"	1432
N2334-315NT	68110694	Fleck 3150	2	36X72	20	74	70	48"x40"x107"	3038
N4110-39NT	68110695	Fleck 3900	3	30X72	14	52	50	38"x30"x114"	1450
N4112-39NT	68105796	Fleck 3900 NXT	3	36X72	20	74	70	48"x40"x114"	1965
N4114-39NT	68105798	Fleck 3900 NXT	3	42X72	30	111	90	54"x46"x114"	3038
N4116-39NT	68105800	Fleck 3900 NXT	3	48X72	35	129.5	100	60"x52"x114"	3645

### NOTICE

The service flow rates listed for the carbon filters are for dechlorination. Slower flow rates may be required depending on the specific contaminant and concentration of the contaminant.

**⚠ WARNING** Wet activated carbon preferentially removes oxygen from air. In closed or partially closed containers and vessels, oxygen depletion may reach hazardous levels. If workers are to enter a vessel containing carbon, appropriate procedures for potentially low-oxygen environment should be followed.



## Backwashing Filters With Micro Z Media With Fleck Valves

MODEL NO.	ORDERING CODES	VALVE	PIPE SIZE (IN)	TANK SIZE	MEDIA (CU. FT.)	PEAK SERVICE FLOW (GPM)	BACKWASH (GPM)	FLOOR SPACE (DXWXH)	SHIP WT (LBS)
<b>Residential Systems</b>									
N5245-14-285NT	68105830	Fleck F2850 NXT	1 1/2	14X65	3	17	20	15"x16"x75"	278
N5245-16-285NT	68105832	Fleck F2850 NXT	1 1/2	16X65	4	22	20	18"x17"x75"	366
N5245-21-285NT	68105833	Fleck F2850 NXT	1 1/2	21X62	7	38	40	24"x23"x84"	667
N5245-24-315NT	68105836	Fleck F3150 NXT	2	24X72	10	50	50	27"x27"x95"	1015
N5245-30-315NT	68105838	Fleck F3150 NXT	2	30X72	15	80	85	33"x33"x95"	1852
N5245-36-315NT	68110580	Fleck F3150 NXT	2	36X72	20	115	100	48"x40"x107"	2485
N5245-36-39NT	68105842	Fleck F3900 NXT	3	36X72	20	115	100	48"x40"x114"	2525
N5245-36-DVN	68105843	Aquamatic PDVN	2	36X72	20	115	100	48"x40"x90"	2480
N5245-42-DVN	68105844	Aquamatic PDVN	3	42X72	30	155	155	54"x46"x90"	2895
N5245-48-DVN	68105846	Aquamatic PDVN	3	48X72	40	200	200	60"x54"x90"	3882

**Note:** Systems with the Fleck 7000 valve include a 1" By-Pass.

## FILTER MEDIA Properties and Conditions for Operation

**Note:** General reference only; conditions may vary. Ask about your application.

DESCRIPTION	LB/CF	EQUIPMENT USE
<b>Activated Carbon</b>		
Highly activated carbon. Absorbs chlorine, phenois, detergents, pesticides, etc.	28	Carbon Filters
Granular activated carbon. Absorbs larger molecular particles. Good organic trap ahead of deionizers.	28	Carbon Filters
Highly active acid washed carbon. Used in high purity applications such as pharmaceutical and medical.	27	R.O. Pretreatment Special Applications
Highly active carbon manufactured to develop catalytic functionality. Used for hydrogen sulfide and chloramine reduction. Primarily used in medical, aquatic, and bottling applications.	36	R.O. Pretreatment Special Applications
Fine mesh nut-shell activated carbon. Extremely hard, high chlorine capacity.	51	Special Filtration Products
<b>FILTER MEDIA</b>		
Crushed and graded limestone (Neutralizer™). Neutralizes water with low pH and high CO2 on sacrificial basis.	100	Neutralizer Filters
Manganese treated zeolite. Removes iron and manganese. Removes turbidity and hydrogen sulfide on special applications. Requires chemical feed pretreatment.	90	Iron Filter
Granular non-hydrous aluminum silicate for removal of suspended organic matter and turbidity (Filter-Ag)	80	Single Media Turbidity Filters
Regular birm used for iron removal when the oxygen content of the water is at least 15% of the total iron and manganese in the water.	50	Single Media Filters
Washed and graded flint gravel used as underbedding in softeners, filters and some deionizers. Iron and lime free.	100	All Units Except Mixed Bed Deionizers
Washed and graded anthracite filter media.	52	Multi-Media Depth Filters
Filter sand, specially screened.	100	Multi-Media Depth Filters
Garnet filter media, specially sized.	125	Multi-Media Depth Filters

# Drinking Water Systems

*Drinking water systems provide filtration from basic to highly-advanced levels depending on the application and requirements. Basic systems can provide filtration for sediment and taste/odor reduction. Our drinking water systems use proven designs in many configurations to produce high-quality, great-tasting water.*

## Drinking Water System Selection Guide



TYPE OF FEATURE	DESCRIPTION	UNDER COUNTER QUICK-CHANGE (QC)	STANDARD UNDER COUNTER SYSTEMS
Ease of Filter Change	Cartridges removed with a 1/4-turn	✓	
Ease of Filter Change	No filter sumps, no mess, no fuss	✓	
Ease of Filter Change	Water flow shuts off automatically for easy cartridge replacement	✓	
Ease of Filter Change	Cartridges are color coded for easy identification	✓	
Ease of Installation	Hardware kit for complete installation	✓	✓
Ease of Installation	No tank needed, frees up space	✓	✓
Ease of Installation	Installation is quick and easy	✓	✓
Ease of Installation	Easy to install, no tools required		
Ease of Installation	Fully assembled		
Options	Choice of cartridge types and sizes for residential, commercial and foodservice applications	✓	
Options	Faucet options available	✓	✓
Options	UV models available		✓
Options	Automatic shutoff flow meter to indicate cartridge replacement		✓
Options	Ideal for private label marketing	✓	✓
Performance Feature	Low cost alternative to RO	✓	
Performance Feature	No reject water (100% of the water is used)	✓	✓
Performance Feature	No pressure problems, Units work as low as 20 psi / 1.4 bar pressure	✓	✓
Performance Feature	Leaves essential nutrients in water	✓	✓
Performance Feature	Three different cartridge sizes available	✓	
Performance Feature	High flow 3/8" fittings and tubes		
Reliability	Cartridges have double o-rings to prevent leaks	✓	
Reliability	One year limited warranty from date of purchase	✓	✓

## Under Counter Quick-Change (QC) Proprietary Cartridge Drinking Water Systems

### Quick-Change™ System with Ultra-Filtration Technology

Watts drinking water systems with Quick-Change™ filter elements and hollow fiber membranes come complete with sediment cartridge, carbon block cartridge, hollow fiber membrane, long reach chrome faucet, tapping valve and tubing.

#### NOTICE

System requires a minimum of 20psi inlet pressure (1.4 bar) and pressure drop is 3psi at 0.5 GPM.

#### Features & Benefits

- Quick-Change™ cartridges are removed with a 1/4-turn
- No filter sumps, no mess, no fuss
- No tank needed, frees up space
- Cartridges have double O-rings to prevent leaks
- Choice of cartridge types and sizes for residential, commercial and foodservice applications

#### Quick-Change™ Drinking Water Systems Vs. RO Systems

- Low cost alternative to RO
- No reject water (100% of the water is used)
- No pressure problems, Units work as low as 20psi / 1.4 bar pressure
- Installation is quick and easy
- Leaves essential nutrients in water
- Three different cartridge sizes available
- Cartridges are color coded for easy identification



Kits include long reach chrome faucet, Adapt-A-Valve and tubing.

#### Reduces:

- Chlorine taste and odor (97%)
- Particulate
- Sand
- Silt
- Rust particles

### Quick-Change™ (QC) Systems

MODEL NO.	ORDERING CODE	DESCRIPTION	CASE
WQCFU-T-11KIT	WP500462	11" triple sys., bracket, sediment, carbon, UF, faucet and install kit	1



#### Replacement Cartridges

TYPE	MICRON	ORDERING CODES		
		10"	11"	13"
Sediment (melt blown PP)	5	68108816	68108818	68108819
Carbon	5	68108776	68108777	68108779
Hollow fiber membrane (UF)	0.1 Nominal	68108806	68108807	68108808



# Standard Cartridge Drinking Water Systems

Under Counter Standard Cartridge Systems

Fully Assembled Systems in  
“Non-Branded” Generic Packaging\*

### Features & Benefits

- Easy to install
- Long reach, lead-free faucet
- Hardware kit for complete installation

\*Units are sold without cartridges unless otherwise noted.



Model ADWU-DM  
(dual with meter)

### Models




MODEL NO.	ORDERING CODE	TYPE	AUTO SHUTOFF METER	NO. PER CASE
ADWU-D*	68100419	Dual	No	1

\*Cartridges and carbon block cartridge. For other models, cartridges are not included.

## Reverse Osmosis Systems

*Reverse Osmosis (RO) is a proven and dependable technology. RO systems work by forcing water through a semi-permeable membrane that separates the clean water at the molecular level from the majority of impurities. Impurities including sodium, calcium, chloride, sulfates, and heavy metals commonly measured as total dissolved solids (TDS) are typically reduced by 99% and rinsed down the drain. Watts RO systems use proven treatment methods including sediment, carbon, and membrane technology to produce highly-purified, great-tasting water.*

### RO System Selection Guide

		  		
TYPE OF FEATURE	DESCRIPTION	QUICK-CHANGE SERIES (QC)	W-525 SERIES	GTS SERIES
Ease of Filter Change	Uses industry standard cartridges		✓	✓
Ease of Filter Change	No need to disconnect tubing when replacing membranes	✓		
Ease of Filter Change	Disposable encapsulated cartridges	✓		
Ease of Filter Change	Easy to remove/replace 1/4-turn filter cartridges	✓		
Ease of Filter Change	Proprietary filter cartridges	✓		
Ease of Filter Change	Automatic shut off when cartridges are removed	✓		
Ease of Filter Change	"Swing out" feature for easy filter change out	✓		
Ease of Installation	Installation kit is included	✓	✓	✓
Ease of Installation	Inlet water fitting is adaptable to use with 3/8" or 1/2" fittings	✓	✓	✓
Ease of Installation	Quick-Connect fittings on inlet and outlet ports	✓	✓	✓
Options	Many faucet options available	✓	✓	✓
Performance Feature	High Flow 3/8" tank to faucet tubing		✓	✓
Performance Feature	Booster pump upgrade kit available	✓	✓	✓
Performance Feature	Permeate pump upgrade kit available	✓	✓	✓
Performance Feature	50 GPD or greater thin film membrane	✓	✓	✓
Reliability	Clog free brine flow control	✓	✓	✓
Reliability	Proven design - "no label" model			✓
Reliability	One year limited warranty from date of purchase	✓	✓	✓



## Quick-Change (QC) Proprietary Cartridge Systems

*The Best of the Best with Quarter-Turn  
Swing-out Encapsulated Cartridges*

### Features & Benefits

- Swing-out feature for easy filter change out
- Automatic shut off when cartridges are removed
- Disposable encapsulated cartridges
- Easy to remove/install 1/4-turn filter cartridges
- No need to disconnect tubing when replacing membranes
- Proprietary filter cartridges
- Certified Systems
- Inlet water supply fitting is adaptable to use with 3/8" compression or 1/2" compression fittings
- Installation kit is included
- Many faucet options available - See faucets section
- Quick-Connect fittings on inlet and outlet ports
- 50 GPD thin film membrane
- Clog free brine flow control
- Valves are built into the heads to prevent backflow for water quality assurance
- Model WQC4RO13-100MT is WQA Certified to NSF/ANSI Standard 58



### NOTICE

*Proprietary filter cartridges and membranes are installed and removed by a simple 1/4 turn.*



WQC4RO13-100MT is  
Certified by WQA to  
NSF / ANSI  
Standard 58

### Models

MODEL NO.	ORDERING CODES	STAGE	MEMBRANE (GPD)	FAUCET	FITTINGS TANK-FAUCET	TANK
WQC4RO13-100PT	WP520031	4	100	WTM-FAG-C	1/4"	RO PRO®
WQC4RO13-100MT	WP531422	4	100	WTM-FAG-C	1/4"	Metal

### Proprietary Replacement Cartridges

SYSTEM	ELEMENT	SEDIMENT	CARBON	MEMBRANE	GAC
50 GPD System	11"	68108818	68108777	68108809	68108795
100 GPD System	13"	68108819	68108779	68108810	68108796

## Series 415 & 525 Standard Cartridge Systems

Quality Product at a Competitive Price

### Features & Benefits

- Uses industry standard cartridges
- Certified System
- Inlet water supply fitting is adaptable to use with 3/8" compression or 1/2" compression fittings
- Installation kit is included
- Many faucet options available - See faucets section
- Quick-Connect fittings on inlet and outlet ports
- 50 GPD or greater thin film membrane
- Clog free brine flow control



W-525 Premium Series RO

### Replacement Components

COMPONENTS	ORDERING CODES
Pre-filter, sediment, 5 micron	68102348
Pre-filter, carbon, 5 micron	68101466
Membrane	68108604
Post filter	WP560033
Tank	68102431

### Specifications

SPECIFICATION	DATA
Membrane	50 GPD
Maximum pressure	100psi
Minimum pressure	40psi
Maximum TDS	1,800 PPM
Maximum hardness	10 GPG
Maximum Iron	0.2 PPM
Maximum Hydrogen Sulfide	0.0 PPM
Tubing (tank & faucet)	3/8"
Tubing (inlet)	1/4"

### Models

MODEL NO.	ORDERING CODE	PUMP	VOLTS	STAGE	MEMBRANE (GPD)	FAUCET	FITTINGS		TANK	SHIP WT. (LBS.)
							INLET	TANK FAUCET		
W-525-NF	WP500382	No pump	N/A	5	50	not included	1/4" QC	3/8" QC	Metal	29

## Permeate Pump & GTS Series Standard Cartridge Systems

*Quality and Performance at a Competitive Price -  
Ideal for Private Label Marketing*

### Features & Benefits

- Uses industry standard cartridges
- Proven design - "no label" model
- High flow faucet plumbing (3/8" post filter and 3/8" tubing to faucet)
- Inlet water supply fitting is adaptable to use with 3/8" compression or 1/2" compression fittings
- Installation kit is included
- Many faucet options available - See faucets section
- Quick-Connect fittings on inlet and outlet ports
- 50 GPD or greater thin film membrane
- Clog free brine flow control
- Tank options available (metal or plastic)



GTS450S Series



GTS550S Series

### Replacement Components

COMPONENTS	ORDERING CODES
Pre-filter, sediment, 5 micron	68102348
Pre-filters, carbon, 5 micron	68101466
Membrane	68108604
Membrane (MT 100)	68108600
Post filter	68100424
Metal tank	68102431

### Specifications

SPECIFICATION	DATA
Membrane	50 GPD or 100 GPD
Maximum pressure	100psi
Minimum pressure	40psi
Maximum TDS	1,800 PPM
Maximum hardness	10 GPG
Maximum Iron	0.2 PPM
Maximum Hydrogen Sulfide	0.0 PPM
Tubing (tank & faucet)	3/8"
Tubing (inlet)	1/4"

MODEL NO.	ORDERING CODES	STAGE	MEMBRANE (GPD)	FAUCET	FITTINGS		TANK	SHIP WT. (LBS.)	NO. PER PALLET
					INLET	TANK-FAUCET			
Model GTS450									
GTS450S-NAGF-MT	WP500472	4	50	Non Air Gap	1/4" QC	3/8" QC	Metal	26	24
Model GTS550									
GTS550S-NAGF-MT	WP500371	5	50	Non Air Gap	1/4" QC	3/8" QC	Metal	30	24

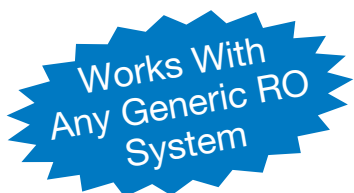
## ZeroWaste® Water Saving Kit or Booster Pump Kit For Generic RO Systems

Designed to convert any existing generic reverse osmosis system to ZeroWaste® technology, this kit is a perfect addition for any environment! Compact design combines the pressure switch and shutoff valve into one device.

### Kit Includes:

- Booster Pump
- Electronic Shutoff Valve
- Pressure Switch Sensor
- Transformer
- Check Valves\*
- Tubing
- Adapt-A-Valve™ for Hot Water Pipe Connection\*

\* In ZeroWaste® Kit Only



W-525 Premium Series RO



WP501026 (ZeroWaste® Kit)  
WP560043 (Booster Pump Kit)

## Reverse Osmosis LC Series

*All systems are frame mounted*

### Features & Benefits

- Compact, sturdy design
- Welded powder coated frame
- Liquid filled pre-filter pressure gauge
- Integrated booster pump(s)
- Sediment & carbon pre-filtration
- Quick-Connect fittings for easy installation
- Can be used with a bladder or atmospheric tank (additional accessories required)



LC-200P-MINI



LC-200P



LC-380PP

### Models

MODEL NO.	ORDERING CODES	GPD	PUMP	STAGE 1	STAGE 2	STAGE 3	STAGE 4	CARTON DIMENSIONS	SHIP WT. (LBS.)
LC-200P-MINI	68105072	200	1	FPMB5-978	FI-CT0010	W-1812-100 (2)	S7708	21 X 21 X 10	40
LC-200P	68105070	200	1	FPMB5-20	FI-CT0020/2	W-1812-100 (2)	FI-GAC020HP	36 x 21 x 10	46
LC-300P	68105074	300	1	FPMB5-20	FI-CT0020/2	W-1812-100 (3)	FI-GAC020HP	36 x 21 x 10	48
LC-380PP	68105075	380	2	FPMB5-20	FI-CT0020/2	W-1812-100 (3)	FI-GAC020HP	36 x 21 x 10	53

### Replacement Parts

MODEL NO.	ORDERING CODES	DESCRIPTION	LC-200P	LC-200P-MINI	LC-300P	LC-380PP
FC-DR850W	68101912	Flow restrictor 850 ML/Min	X	X		
FC-DR1000W	68101901	Flow restrictor 1000 ML/Min			X	
FC-DR1200W	68101903	Flow restrictor 1200 ML/Min				X
PU-6200E60-38-P	68106290	Electric shutoff valve, 3/8"	X	X	X	X
PU-8010TSO/NF	68106293	Tank shutoff valve	X	X	X	X
PU-8800TGI	68106294	Booster Pump	X	X	X	2X
TACS-114-48	68108353	Transformer for single pump	X	X	X	



## Reverse Osmosis R12 Series

*Compact, wall-mounted RO systems*

*Four models for flow rates to 1200 US GPD.*

### Standard features

- Stainless steel frame
- Automatic inlet valve
- Pre-filter housing and cartridge, 10"
- Procon pump (brass)
- 1/2 HP motor
- Liquid filled pump pressure gauge (2-1/2")
- FRP pressure vessels
- Needle valve for concentrate line
- Needle valve for recycle line
- Check valve for product water (stainless steel)
- Low-pressure shut-off with automatic restart
- High tank pressure switch (for use with bladder tank)
- Pretreatment interlock input (dry contact)
- Pump start delay
- Inlet valve delay
- Pre-filter pressure gauges
- Product water flow meter
- Reject water flow meter

### Specifications

Product water & reject water connection (tubing)	3/8"
Feed water requirement (maximum)	2.4 GPM
Feed water pressure requirement (minimum)	10 PSIG
Drain requirement (maximum)	2.4 GPM
Electrical requirement	120v/60hz
Amps	8
Pump	1/2 HP

### Models

MODEL NO.	ORDERING CODES	PACKAGE	GPD	RECOVERY (ADJUSTABLE)	MEMBRANE SIZE	NUMBER OF MEMBRANES	FEED WATER CONNECTION	TYPICAL REJECTION	DIMENSIONS L X H X D	SHIP WT. (LBS.)
R12-0150-2	68106766	2	150	15%-75%	2-1/2"x14"	1	1/2" NPT	98%	22"x32"x12"	50
R12-0250-2	68106769	2	250	15%-75%	2-1/2"x21"	1	1/2" NPT	98%	22"x32"x12"	50
R12-0600-2	68106773	2	600	15%-75%	2-1/2"x40"	1	1/2" NPT	98%	22"x52"x12"	60
R12-1200-2	68106778	2	1200	25%-75%	2-1/2"x40"	2	1/2" NPT	98%	22"x52"x12"	70
R12-0600-3	68106774	3	600	15%-75%	2-1/2"x40"	1	1/2" NPT	98%	22"x52"x12"	60

### NOTICE

Performance specifications are based on 77°F feed water, 3 SDI or less, TDS below 1000 and pH of 7. Please see water temperature conversion charts to determine actual production rate for each installation. Chlorine reduction and other pretreatment may be required. Membrane rejection rates are based on membrane manufacturer's specifications. Pre-filter is Flow-Pro® FPMB5-978 melt blown cartridge. Systems are designed for use with municipal and well water.



Model R12-1200

### Options

MODEL NO	ORDERING CODE	DESCRIPTION
R2350-SD	68106980	Product water float switch
R2288	68106897	Whole house option*

\*Includes 300 gallon tank, product water float switch and repressurization pump with built-in controls.

## Reverse Osmosis R4X40 Series

Three models for flow rates up to 6,600 US GPD

### Standard Features

- Powder coated steel frame
- Inlet solenoid valve
- 20" prefilter
- Prefilter pressure gauge
- Multistage centrifugal pump
- Low-pressure protection with microprocessor auto reset
- Tank level input (dry contact)
- Pretreatment interlock input (dry contact)
- 2 1/2" liquid filled pump pressure gauge
- FRP pressure vessels
- Product flow meter
- Reject flow meter
- Concentrate needle valve
- Non metallic recycle needle valve
- Feed water and product water TDS monitor
- Pump start delay
- Inlet valve close delay

### Applications

- Whole house
- Boiler feed water
- Humidifiers
- Greenhouses
- Process Water
- Electronics
- Car wash spot-free

**Note: For indoor installation only.**

### Specifications

	R4X40	
Membrane Size	4" x 40"	
Average membrane rejection	98%	
Feed Water Connection	3/4" NPTF	
Prefilter	2.5" x 20"	
Product Water Connection	5/8" tubing OD	
Reject Water Connection	5/8" tubing OD	
Feed Water Pressure (minimum)	10 psi	
Electrical Requirement *	120 VAC 60 Hz	230 VAC 60 Hz, 1 PH

### Options

PART NUMBER	ORDERING CODE	DESCRIPTION
R2350-SD	68106980	Product float switch
R2288-165	68106899	165 gal tank whole house option**
R2288	68106897	300 gal tank whole house option**
R2288-500	68106900	500 gal tank whole house option**

\*\*Includes atmospheric storage tank, product float switch, and repressure pump with built in controls.



Model: R4X40-1

## Models

	R4X40-1		R4X40-2		R4X40-3-230*	
Ordering Code	68107122		68107126		68107128	
Maximum Productivity (gallons per day)	2200		4400		6600	
Recovery (user adjustable)	15 - 75 %		25 - 75%		32 - 75 %	
Number Of Membranes	1		2		3	
Feed Water Required (maximum)	10 gpm		12 gpm		14 gpm	
Drain Required (maximum)	10 gpm		12 gpm		14 gpm	
Motor Horse Power	3/4		1		1 1/2	
Dimensions W x D x H (inches)	20 x 20 x 50		20 x 20 x 50		20 x 26 x 50	
Shipping Weight (estimated lbs)	120		150		180	
Electrical Requirement* AMPS	15	8	20	10	13*	13

\* R4X40-3-230 is available only in 230-volt single phase.

### NOTICE

Maximum production based on a feed water of 77°F, SDI < 1, 1000 ppm TDS, and pH 7. Individual membrane productivity may vary (± 15%). May be operated on other feed waters with reduced capacity. Percent Rejection is based on membrane manufacturer's specifications; overall system percent rejection may be less.

## Reverse Osmosis R14 Wall Mount Series

### Compact, wall-mounted RO systems

Three models for flow rates up to 5400 US GPD, available with brass or stainless steel fittings. Fully assembled and ready for installation.

#### Standard features

- Stainless steel frame
- FRP side port pressure vessels
- Pre-filter housing and cartridge, 10" Full-Flow
- Multi-stage centrifugal pump
- Automatic inlet valve
- Low-pressure shut-off with automatic restart
- Tank level input
- Pretreatment interlock input
- Adjustable recycle line
- Pre-filter pressure gauges
- Pump discharge pressure gauge (liquid filled)
- Flow meter for product water
- Flow meter for reject water
- Check valve for product water
- Sample valve for product water
- On / off switch



R14-02-1WM System

#### Specifications

Feed water connection 1"	FNPT
Product water connection (1800 & 3600 GPD)	1/2" tube
Product water connection (5400 GPD)	5/8" tube
Reject water connection (all R14 Wall Mount models)	1/2" tube
Feed water pressure requirement (minimum)	10 PSIG
Drain requirement (maximum)	10 GPM
Electrical requirement	230v/60hz
Phase	1
Amps (1800 & 3600 GPD)	6
Amps (5400 GPD)	9

#### Options

PART NUMBER	ORDERING CODES	DESCRIPTION
R2350-SD	68106980	Product water float switch
R2288	68106897	Whole house option*

\*Includes 300 gallon tank, product water float switch and repressurization pump with built-in controls.

#### Models

MODEL NO.	ORDERING CODES	FITTINGS & VALVES	GPD	PUMP (H.P.)	RECOVERY (ADJ.)	MEMBRANE SIZE	MEMBRANES	FEED WATER REQUIRED* (GPM)	TYPICAL REJECTION	DIMENSIONS L X H X D	SHIP WT. (LBS.)
R14-01-1WM	68106788	SS	1800	1	15%-75%	4" x 40"	1	2.5	98%	49"x53"x15"	200
R14-01-BWM	68106789	Brass	1800	1	15%-75%	4" x 40"	1	2.5	98%	49"x53"x15"	200
R14-02-1WM	68106792	SS	3600	1	25%-75%	4" x 40"	2	5	98%	49"x53"x15"	250
R14-02-BWM	68106796	Brass	3600	1	25%-75%	4" x 40"	2	5	98%	49"x53"x15"	250
R14-03-1WM	68106799	SS	5400	1.5	35%-75%	4" x 40"	3	7.5	98%	49"x53"x15"	300
R14-03-BWM	68106803	Brass	5400	1.5	35%-75%	4" x 40"	3	7.5	98%	49"x53"x15"	300

\*At 50% recovery.

#### NOTICE

Performance specifications are based on 77°F feed water, 3 SDI or less, TDS below 1000 and pH of 7. Please see water temperature conversion charts to determine actual production rate for each installation. Chlorine reduction and other pretreatment may be required. Membrane rejection rates are based on membrane manufacturer's specifications. Pre-filter is Watts WPC5FF975 synthetic pleated cartridge. Systems are designed for use with municipal and well water.

## Reverse Osmosis R14 Series

*Top quality, fully assembled RO systems*

Five models for flow rates to 10,800 US GPD.

### Standard features

- Powder coated steel frame
- Electronic controller with product water conductivity meter
- FRP side-port pressure vessels
- Pre-filter housing and cartridge (20" Full-Flow)
- Vertical heavy-duty multi-stage centrifugal pump
- Automatic inlet valve
- Low-pressure shut-off with automatic restart
- Tank level input
- Pretreatment interlock input
- Adjustable recycle line
- Concentrate auto flush
- Pre-filter pressure gauges
- Pump discharge pressure gauge (liquid filled)
- Reject pressure gauge (liquid filled)
- Flow meter for product water
- Flow meter for reject water
- Flow meter for recycle water
- Check valve for product water
- On / off switch



R14-06-1131100 System

### Specifications

Feed water connection	1" FNPT
Product water connection	3/4" FNPT
Reject water connection	3/4" FNPT
Feed water pressure requirement (min.)	10 PSIG
Drain requirement (maximum)	15 GPM
Electrical requirement	230VAC/60hz
Phase	3
Amps	15

Other voltages available, please contact us for details.

### Models

MODEL NO.	ORDERING CODE	GPD	PUMP (H.P.)	RECOVERY (ADJ.)	MEMBRANE SIZE	MEMBRANES	FEED WATER REQUIRED* (GPM)	TYPICAL REJECTION	DIMENSIONS L X H X D	SHIP WT. (LBS.)
R14-02-1131100	68106791	3600	5/TEFC	25%-75%	4" x 40"	2	5	98%	51"x56 <sup>5</sup> / <sub>16</sub> "x18"	400
R14-03-1131100	68106798	5400	5/TEFC	36%-75%	4" x 40"	3	7.5	98%	51"x56 <sup>5</sup> / <sub>16</sub> "x18"	500
R14-04-1131100	68106805	7200	5/TEFC	42%-75%	4" x 40"	4	10	98%	51"x56 <sup>5</sup> / <sub>16</sub> "x18"	600
R14-05-1131100	68106810	9000	5/TEFC	46%-75%	4" x 40"	5	12.5	98%	51"x56 <sup>5</sup> / <sub>16</sub> "x18"	700
R14-06-1131100	68106813	10800	5/TEFC	50%-75%	4" x 40"	6	15	98%	51"x56 <sup>5</sup> / <sub>16</sub> "x18"	800

### NOTICE

Performance specifications are based on 77°F feed water, 3 SDI or less, TDS below 1000 and pH of 7. Please see water temperature conversion charts to determine actual production rate for each installation. Chlorine reduction and other pretreatment may be required. Membrane rejection rates are based on membrane manufacturer's specifications. Pre-filter is Watts WPC5FF20 synthetic pleated cartridge. Systems are designed for use with municipal and well water.

## Reverse Osmosis R24 Series

Three models for flow rates  
up to 15 GPM.

### Standard features

- Powder coated steel frame
- Electronic controller with product water conductivity meter
- FRP multi-port pressure vessels
- Pre-filter housing and cartridge (20" B-B)
- Vertical multi-stage centrifugal pump
- Automatic inlet valve
- Low-pressure shut-off with auto restart
- Tank level input
- Pretreatment interlock input
- Adjustable recycle line
- Concentrate auto flush
- Pre-filter pressure gauges
- Pump discharge pressure gauge
- Membrane feed pressure gauge
- Reject pressure gauge
- Flow meter for product water
- Flow meter for reject water
- Flow meter for recycle water
- Check valve for product water
- Sample valves for product water
- On / off switch



R24 System

### Specifications

Feed water connection	1" FNPT
Product water connection	1" FNPT
Reject water connection	3/4" FNPT
Feed water pressure requirement (min.)	10 PSIG
Drain requirement (maximum)	17, 21, 25 GPM
Electrical requirement	230VAC/60hz
Phase	3
Amps	20

Other voltages available, please contact us for details.

### Models

MODEL NO.	ORDERING CODES	GALLONS PER MINUTE	PUMP (H.P.)	RECOVERY (ADJ.)	MEMBRANE SIZE	MEMBRANE ARRAY	FEED WATER REQUIRED* (GPM)	TYPICAL REJECTION	DIMENSIONS	SHIP WT. (LBS.)
R24-08-1131100	68106993	10	7.5/TEFC	60%-75%	4" x 40"	2:1:1	17	98%	93"x68"x24"	800
R24-10-1131100	68106998	12.5	7.5/TEFC	60%-75%	4" x 40"	2:2:1	21	98%	93"x68"x24"	900
R24-12-1131100	68107002	15	7.5/TEFC	60%-75%	4" x 40"	3:2:1	25	98%	93"x68"x24"	1000

### NOTICE

Performance specifications are based on 77°F feed water, 3 SDI or less, TDS below 1000 and pH of 7. Please see water temperature conversion charts to determine actual production rate for each installation. Chlorine reduction and other pretreatment may be required. Membrane rejection rates are based on membrane manufacturer's specifications. Pre-filter is 20" Full-Flow plastic housing and Watts WPC5FF20 synthetic pleated cartridge. Systems are designed for use with municipal and well water



## Reverse Osmosis R18 Series

*Top quality, fully assembled RO systems*

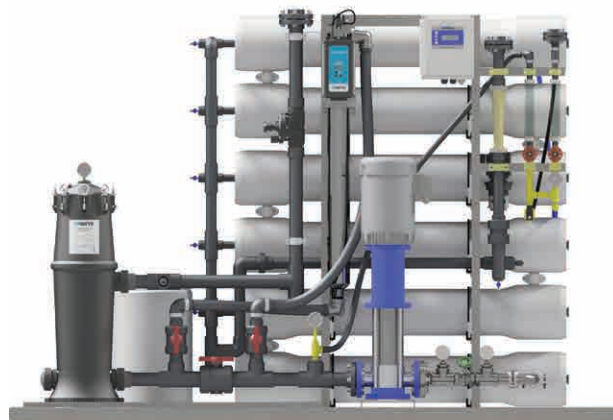
Four models for flow rates up to 30 GPM

### Standard features

- Powder coated steel frame
- Electronic controller with feed and product water conductivity probe
- FRP side-port pressure vessels
- Non metallic "Big Bubba" pre-filter housing
- Vertical heavy-duty multi-stage centrifugal pump
- Automatic inlet valve
- Low-pressure shut-off with automatic restart
- Tank level input
- Pretreatment interlock input
- Adjustable recycle line
- Concentrate auto flush
- Pre-filter pressure gauges
- Pump discharge pressure gauge (liquid filled)
- Reject pressure gauge (liquid filled)
- Flow meter for product water
- Flow meter for reject water
- Flow meter for recycle water
- Check valve for product water

### Options

- Chemical feed pump installed and prewired



R18-06 shown with UV and chemical feed pretreatment options.

### Specifications

Feed water connection	2" Flange
Product water connection	1.5" Flange
Reject water connection	1" Flange
Feed water pressure requirement (minimum)	10 psi
Drain requirement (maximum)	60 gpm
Motor horse power	10
Electrical requirement	230 VAC / 60Hz
Phase	3
Amps	30
Membrane Size	8" x 40"
Typical rejection	98%

Other voltages available, please contact us for details.

### Models

MODEL NO.	ORDERING CODES	PRODUCT GPM	RECOVERY (ADJ.)	MEMBRANE QUANTITY	FEED WATER REQUIRED (MAX)	DIMENSIONS L X H X D	SHIPPING (LBS. EST)
R18-03-1131100	68106824	15	50-75%	3	30 gpm	84" x 77" x 42"	1600
R18-04-1131100	68106827	20	50-75%	4	40 gpm	84" x 77" x 42"	1800
R18-05-1131100	68106829	25	50-75%	5	50 gpm	84" x 77" x 42"	2000
R18-06-1131100	68106831	30	50-75%	6	60 gpm	84" x 77" x 42"	2200

### NOTICE

Performance specifications are based on 77°F feed water, 3 SDI or less, TDS below 2000 and pH of 7. Please see water temperature conversion charts to determine actual production rate for each installation. Chlorine reduction and other pretreatment may be required. Membrane rejection rates are based on membrane manufacturer's specifications. Pre-filter is Watts BBC-150-P5 synthetic pleated cartridge. Systems are designed for use with municipal and well water.

## Reverse Osmosis R48 Series

Five models for flow rates up to 120 GPM.

### Standard features

- Powder coated steel frame
- FRP multi-port pressure vessels
- Stainless steel pre-filter and cartridges
- Vertical multi-stage centrifugal pump
- Automatic inlet valve
- Low-pressure shut-off with auto restart
- Tank level input
- Pretreatment interlock input
- Adjustable recycle line
- Pre-filter pressure gauges
- Pump discharge pressure gauge
- Membrane feed pressure gauge
- Reject pressure gauge
- Flow meter for product water
- Flow meter for reject water
- Flow meter for recycle water
- Check valve for product water
- Sample valves for product water
- On / off switch



R48 System

### NOTICE

Standard electrical requirement is 460 volts 3-phase 60 hz. Other voltages available, please contact us for details.

MODEL NO.	ORDERING CODES	GALLONS PER MINUTE	FEED WATER CONNECTION	PUMP (H.P.)	RECOVERY (ADJ.)	MEMBRANE SIZE	MEMBRANE ARRAY	FEED WATER REQUIRED* (GPM)	TYPICAL REJECTION	DIMENSIONS	SHIP WT. (LBS.)
R48-08-3131100	68107099	40	2" Flange	15/TEFC	65%-75%	8" x 40"	1:1	62	98%	198"x42"x72"	2500
R48-12-3131100	68107104	60	2.5" Flange	20/TEFC	65%-75%	8" x 40"	2:1	93	98%	198"x42"x72"	2800
R48-16-3131100	68107107	80	3" Flange	25/TEFC	65%-75%	8" x 40"	2:2	123	98%	198"x42"x72"	3200
R48-20-3131100	68107113	100	3" Flange	30/TEFC	65%-75%	8" x 40"	3:2	154	98%	198"x42"x72"	3500
R48-24-3231100	68107115	120	3" Flange	30/TEFC	65%-75%	8" x 40"	3:2:1	185	98%	198"x42"x80"	3800

### NOTICE

Performance specifications are based on 77°F feed water, 3 SDI or less, TDS below 1000 and pH of 7. Please see water temperature conversion charts to determine actual production rate for each installation. Chlorine reduction and other pretreatment may be required. Membrane rejection rates are based on membrane manufacturer's specifications. Pre-filter is Flow-Max® FM7x4 filter housing, constructed using 316 stainless steel and 2" MNPT pipe fittings and Flow-Max(R) FM-5-40 synthetic pleated cartridges. Systems are designed for use with municipal and well water.

## SmartStream® Disinfection Systems by Watts

### Watts SmartStream® A Series UV Systems

Flow Rates: From 2 gpm to 12 gpm (7.6 lpm to 45.4 lpm)

The Watts SmartStream line of ultraviolet systems provides water disinfection for residential and light commercial applications with flow rates up to 12 gallons per minute.

Disinfection of water with SmartStream is a simple, rapid physical process. When contaminated water is exposed to SmartStream's 254 nanometer UV light, the UV light penetrates the cell walls of microorganisms and disrupts their genetic deoxyribonucleic acid (DNA) material. This quickly inactivates microorganisms by destroying their ability to replicate and infect. SmartStream UV systems have been tested and verified at their rated flow rate by an accredited third-party lab for disinfecting water with a higher than 99.99999% reduction of E. Coli bacteria and a higher than 99.999% reduction of Hepatitis A virus.

Watts SmartStream UV disinfection systems are engineered to be tough and reliable. The UV chambers are constructed of highly polished 304 stainless steel and the controllers are UL listed.

SmartStream UV disinfection systems can be used as a point of entry or point of use disinfection device. They should be installed as close as possible to the treated water's point of use.



The SmartStream® UV systems are certified by WQA to NSF/ANSI/CAN 372 for lead free compliance.



C US

### Specifications

Chamber materials	304 Stainless Steel
UV dose (end of life)	30 mj/cm2
Lamp life	9,000 hrs
Lamps per chamber	Single

### Water Quality Guideline

Max Water Pressure	100 psi (6.9 bar)
pH	6.5-8.5
Water Temperature	36°F to 104°F (2°C to 40°C)
Turbidity	<5 Nephelometric Turbidity Units (NTU)
Iron (maximum)	0.3 mg/l
Manganese (maximum)	0.05 mg/l
Maximum Ambient Atmospheric Conditions	Temperature 122°F / 50°C 90% Relative Humidity
Oil & H2S	None allowed

**Note:** minimum water quality guidelines are recommended to ensure proper operation and continuous disinfection.

### Watts SmartStream Series UV Systems

ORDERING CODE	MODEL NO.	FLOW RATE (GPM)	SIZE (IN)	VOLTAGE/ PLUG	REPLACEMENT LAMP	REPLACEMENT SLEEVE
<b>Watts SmartStream Systems With A Series Controllers</b>						
T7400000	WA002ABAX	2	3/8" MNPT	120V/US	WUVLAMP2	WUVQS2
T7400016	WA008ADAX	8	3/4" MNPT	120V/US	WUVLAMP8	WUVQS8
T7400024	WA012AEAX	12	1" MNPT	120V/US	WUVLAMP12	WUVQS12

#### SMARTSTREAM UV SYSTEM MODEL NUMBER IDENTIFICATION KEY

Prefix "W"	"Controller Series"	"GPM"	"Connection Type"	"Pipe Size"	"Plug"	"Accessories"
Watts	Controller Type A: Controller A	GPM of System (3-Digits)	Connection Port Types: A: NPT	Pipe Size B: 3/8" C: 1/2" D: 3/4" E: 1"	A: North American 120V	Accessories X: No Accessories

## UV-COM

### Effective and Eco-Friendly UV Water Disinfection System

Watts UV-COM is a state-of-the-art commercial UV water disinfection system for potable water applications. All models are certified by WQA to NSF/ANSI/CAN 61 and 372 and certain models are certified to NSF/ANSI 55-Class A standards.

The proprietary reactor design, built-in automatic self-cleaning wipers, and easily replaceable lamps set Watts UV-COM systems apart in terms of both disinfection performance and ease of maintenance. A 360-degree UV light emission provided by Crossfire® Technology and a two-lamp design prevents fouling of the quartz sleeve by mineral scaling and biofilm.

The advanced design of the Watts UV-COM enables the effective disinfection of legionella contaminated waters with hardness levels as high as 50 grains per gallon and iron levels up to 3 mg/L without pre-treatment in order to maintain water clarity and mitigate scale buildup.

#### Advanced Features for Superior Performance

- Stainless steel manifold, easily accessible UV chamber with safety interlock, quartz sleeve(s), UV lamp(s), and full-color touchscreen controls with BAS integration through Modbus protocol (Modbus function available for specified models only)
- Dual air-mounted lamps with forced air cooling for optimal UV chamber temperature control help to eliminate false lamp alarms
- Dual UV sensor array provides real-time monitoring of UV lamp intensity, UV dose, and net UVT while enabling superior on-board diagnostics for troubleshooting

#### Greater Safety, Reliability, and Longevity

- Mitigates health concerns by being highly effective against Legionella bacteria\*
- Increases overall equipment performance and decreases water heating costs



The UV-COM series of products are certified to NSF/ANSI/CAN 61 for material safety only, and to NSF/ANSI/CAN 372 for lead free compliance. Models C196C, C196CM, C222C, and C222CM are also certified to NSF/ANSI 55 as Class A systems.

\*Minimum of 99.9999% (6-log) inactivation



#### Simplified Installation and Maintenance

- UV lamps in the front cabinet make replacement simple and eliminate the need for maintenance clearance at the top or sides of the system
- Automatic self-cleaning wipers and built-in purging prevents fouling of the quartz sleeve by mineral scaling and biofilm
- Available at up to 100 GPM to simplify installation, maintenance, and repair in high-flow applications

#### Warranty

- 3-year limited warranty on electrical components and quartz sleeves
- 5-year limited warranty for structural, hardware and mechanical components
- 12-month limited warranty on lamps used in models C196, C196M, C196C, C196CM, C222, C222M, C222C and C222CM
- 16-month limited warranty on lamps used in models C403 and C403M
- 12-month limited warranty on sensor probes

## Watts UV-COM Series UV Systems

MODEL	C196 AND C196M	C196C AND C196CM	C222 AND C222M	C222C AND C222CM	C403 AND C403M
Certification/Validation	NSF/ANSI/CAN 61 and NSF/ANSI/CAN 372				
	–	NSF/ANSI 55 Class A	–	NSF/ANSI 55 Class A	–
Flow (single unit)	37 GPM	16.5 GPM	40 GPM	27.4 GPM	100 GPM
UV dose (mJ/cm <sup>2</sup> )	40 (minimum)				
UV transmittance	95% <sup>1</sup>	Min. 75%	95% <sup>1</sup>	Min. 75%	95% <sup>1</sup>
Maximum Water Hardness	50 gpg				
Maximum Iron (in water)	3 ppm				
Air temperature	34 - 104°F				
Water temperature	34 - 131°F <sup>2</sup>				
Water pressure	5 - 100 psig				
Relative humidity (air)	Max 70%				
Max pressure drop	10 psi	22.7 psi <sup>3</sup>	13 psi	22.7 psi <sup>3</sup>	5 psi

<sup>1</sup> Min. water UV Transmittance for 40 mJ/cm<sup>2</sup> dose.

<sup>2</sup> The default setting for water temperature range is 34-104°F except for model C403, which has a default range of 34–95°F. For hot water applications, refer to IOM to change the purging, hot water alarm, and wiper cycle time settings.

<sup>3</sup> Values presented are at 75% of maximum flow capacity. Higher pressure drop due to flow restrictor installed for NSF/ANSI 55 Class A certified systems.

MODEL	C196 AND C196M	C196C AND C196CM	C222 AND C222M	C222C AND C222CM	C403 AND C403M
Voltage	120 VAC/60 Hz				
Power Consumption	196W	196W	222W	222W	403W
Certifications	UL 979				
UV Lamps	Dual (air mounted)				
Typical Lamp Life	9,000 hrs. / 12 months				12,000 hrs. / 16 months
Lamp Cycles	Maximum of 12 per 24 hours				
Sensors <sup>4</sup>	Dual UV				Quad UV
Dry Contacts (built-in)	2 (warning and alarm)				
Interface	Color LCD resistive touchscreen display				
Alarming	Indicator light and audible alarms				
Remote Start/Stop	Built-in				
Onboard Diagnostics	Built-in				
Signals and Communication	4-20mA output/input and modbus (optional)				

<sup>4</sup> Calibrated to NIST standards

MODEL	C196 AND C196M	C196C AND C196CM	C222 AND C222M	C222C AND C222CM	C403 AND C403M
Dimensions (H x W x D)	36.5 x 9.6 x 8.6 in		40.4 x 9.6 x 8.6 in		55.8 x 11.5 x 8.6 in
Weight (dry)	32 lb.		34 lb.		52 lb.
Weight (wet)	36 lb.		38 lb.		58.3 lb.
Body materials	Anodized aluminum and 316 Stainless Steel				
Body configuration	Double door with side hinges				
Inlet/outlet ports	1" MNPT				2" MNPT
Ingress protection rtg.	IP 51				

## BBH150 Big Bubba® Non-Metallic Filter Housings for High Flow

*With optional activated carbon cartridge to remove Chlorine, bad tastes, foul odors and sediment.*

### Rugged Construction

Filter housings are made of rugged, glass-reinforced polypropylene so they will not chip, rust or dent. And because all wetted surfaces are non-metallic, they are ideal when chemical compatibility is an issue and for sea water applications.

### Low Cost

Filters are an economical replacement for stainless steel filtration equipment because of their non-metallic construction and today's high cost of stainless steel!

### Applications

Big Bubba® Cartridge Filters are ideal for a wide range of applications, including:

- Whole house filtration
- Commercial filtration
- Industrial filtration
- Pre-filtration for reverse osmosis equipment
- Community water systems
- Sea water applications due to their non-corrosive construction
- Replacement for bag filters more filter area
- Replacement for multiple cartridge filters for greater convenience
- Water for livestock and poultry

### Proprietary Cartridges

The replacement cartridge for the Watts whole house filter is totally proprietary, so you may enjoy the replacement cartridge business over the life of the equipment

### Conserves Water!

Watts whole house filters with our proprietary pleated activated carbon cartridge conserves water because back-washing is not required, making them 100% efficient.

### Big Bubba Non-Metallic Plastic Filter Housing & Parts

MODEL NO.	ORDERING CODE	DESCRIPTION
BBH-150	68100639	JUMBO HOUSING 2 IN
BB-ADAPTER	68100608	BBH ADAPTER 2 IN PVC
BB-COUPLER	68100610	BBH COUPLER BLACK
BB-COUPLER-OR	68100611	BBH O-RING FOR COUPLER
BB-DPOR	68100612	BBH DRAIN PLUG ORING
BB-DRAINPLUG	68100613	BBH DRAINPLUG BLACK
BB-ENDCAP	68100614	BBH COUPLER COVER
BB-EYEBOLT	68100615	BBH EYEBOLT 304 STAINLESS STEEL
BB-LID	68100616	BBH LID WITH PRESSURE GAUGE PORT
BB-LID-NP	68100617	BBH LID WITHOUT PRESSURE GAUGE PORT
BB-NUT	68100618	BBH NUT
BB-ORING-E	68100619	BBH O-RING FOR LID EPDM
BB-PR-ASSY	68100621	BBH PRESS RELIEF ASSY
BB-WASHER	68100624	BBH U WASHER FOR LID

### E-Z Change-Out

Cartridge replacement is easy as 1-2-3:

1. Remove swing bolts.
2. Remove lid.
3. Rotate cartridge 1/4 turn and pull-up.



### Parallel installation

Parallel installations are recommended to achieve high flow rates, by installing filters on a common manifold, feeding all filters installed in a row.

### Series installation

Series installations are recommended for applications such as surface water filtration, where cartridges having different micron ratings are used.



Model: BBH-150



## Series BB-S101

*Residential Smart Whole-Home Solution for PFOA/PFOS, Lead, Cyst, CTO Reduction*

**Connection Sizes:** 1" (25mm)  
**Flow Rates:** Up to 4 gpm (15 lpm)

**Watts Whole Home system for PFOA/PFOS, Lead, Cyst, CTO Reduction**

This Watts Big Bubba® BB-S101 is a smart whole-home solution designed for point of entry applications. It is certified to NSF/ANSI standards for the reduction of lead, PFOA/PFOS, chlorine taste and odors and cysts as well as NSF/ANSI Standard 372 for lead free compliance and independently tested to reduce chloramines. Its 0.5 micron carbon block filter cartridge also helps to reduce fine sediment for superior quality water. The system includes a smart volumetric flow monitor that alerts the user via SMS and/or email when filter cartridge replacement is due. It accepts a single filter cartridge for easy installation and servicing. The filter housing of this durable system is constructed of rugged, glass reinforced polypropylene with brass reinforced gauge port so it won't chip, rust or dent. This system includes an inlet pressure gauge, 1 inch FNPT inlet/outlet connections and mounting bolts for floor mounting.

### Features

- Includes a smart volumetric flow monitor that sends SMS/email alerts when filter cartridge replacement is due
- Reduces lead and PFOA/PFOS
- Reduces parasitic cysts
- Reduces chlorine and chloramine taste and odors

#### REDUCES

- ✓ PFOA/PFOS
- ✓ Lead
- ✓ Cysts
- ✓ Chlorine & Chloramines Taste and Odors



Certified by IAPMO R&T to NSF/ANSI 42 and 53, for the reduction of claims verified and substantiated by test data as specified on the performance data sheet. The system is also certified to CSA B483.1, and NSF/ANSI 372 for Lead Free compliance.



BB-S101



BB-M101

MODEL NO.	ORDERING CODE	DESCRIPTION
BB-S101	7100996	Smart Whole-Home Solution System
BB-M101	7100991	Smart Volumetric Flow Monitor
BB-C100	7100980	Replacement CartridgeCarbon Block 0.5 Micron
PWFMZ3	7100694	Time Clock

## Big Bubba® Cartridge Housing

SPECIFICATIONS	DATA
Body (all wetted surfaces)	Glass reinforced PP
Cartridge end caps	Glass reinforced PP
Swing bolts	304 stainless steel
O-rings (cartridges)	EPDM (Viton optional)
O-ring (lid)	EPDM (Viton optional)
Pipe fittings	2" slip
Overall height	40"
Width (vessel OD)	12"

(p/n: for no gauge port use part # BBH-150-NP)

## Low Pressure Drop

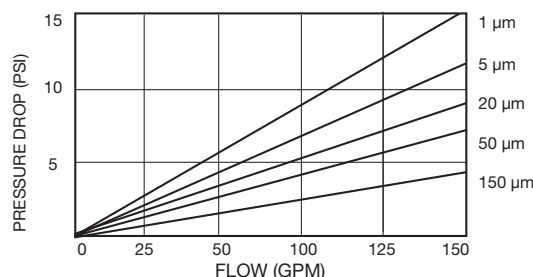
Big Bubba® Cartridge Filters housings are designed to minimize pressure drop, by using 2" pipe fittings and large diameter center tubes. (See chart at right for pressure drop data using pleated cartridges.)

## Big Bubba® Cartridges

SPECIFICATIONS	DATA
Maximum flow rate	150 GPM* (36 M3/hr.)
Maximum flow (carbon)	15 GPM
Maximum flow (1 Micron)	50 GPM
Maximum temperature	125°F (52°C) @ 80 psi
Maximum working pressure	125 psi (8.75 bar)
Burst test	300 psi
Cycle test	100,000

\* Highly dependent on micron rating, solids content and other factors. Please see pressure drop chart below.

Housing number BBH-150 has a wetted brass gauge port for the inlet pressure gauge.



## Big Bubba® Cartridge Filter Specifications

	PLEATED	DEPTH	ACTIVATED CARBON
Media	PP	PP	Activated carbon
End caps	PP + FG	PP + FG	PP
Center tubes	PP	PP	PP
Maximum flow rate (GPM)	150	100	15
Maximum temperature	125°F (52°C)	125°F (52°C)	125°F (52°C)
Maximum ΔP (psi)	30	40	30
Chemical resistance	Excellent	Excellent	Not a factor (for water)
Length (media)	26-1/4"	26-1/4"	26-1/4"
O-rings (dual)	EPDM	EPDM	EPDM
Shipping weight (lbs.)	5	5	7
Carton dimensions	7" x 7" x 31"	7" x 7" x 31"	7" x 7" x 31"
Micron ratings	1, 5, 20, 50, 150	1, 5, 20, 50	5

Flow rates are based on each specific application, micron rating, solids content and a number of other factors. End user should consider these factors when selecting the filter housing (or number of filter housings) needed for their particular requirement.

## Pleated Cartridges

Ideal for more critical applications, offering greater efficiency, more surface area for greater throughput and reduced cost.

MODEL NO.	ORDERING CODE	MEDIA TYPE	MICRON RATING	PER CASE
BBC-150-P1	6100630	PP	1	1
BBC-150-P5	6100632	PP	5	1
BBC-150-P20	6100631	PE	20	1
BBC-150-P50	6100633	PE	50	1
BBC-150-PM150	6100634	Mesh	150	1

5, 20, 50 and 150 micron cartridges are cleanable and reusable to reduce costs.

## Depth Cartridges

Melt blown Polypropylene cartridges are recommended when depth filtration is necessary for gelatinous substances and when chemical resistance may be a requirement.

MODEL NO.	ORDERING CODE	MEDIA TYPE	MICRON RATING	PER CASE
BBC-150-D1	6100626	PP	1	1
BBC-150-D5	6100628	PP	5	1
BBC-150-D20	6100627	PP	20	1
BBC-150-D50	6100629	PP	50	1

## Activated Carbon

Ideal for whole house filtration to reduce chlorine, taste, odors and sediment.

MODEL NO.	ORDERING CODE	MAX. FLOW	CAPACITY	CHLORINE REDUCTION
BBC-150-ACP	68100625	15 GPM	140,000 Gals.	90%

We build filtration systems, or they may be installed on site.

## ONE Cartridge Tank® Filtration System

The ONE® Cartridge Tank® is a direct replacement for small and inefficient 2½" or 4½" housings, or expensive Stainless Steel cartridge housings, and offers extended service and life, and a more cost-effective and efficient filtration solution.

Lightweight and cost effective with multiple configuration options, from high flow commercial/industrial applications to stand-alone residential Point-of-Entry (POE) installations for city and well water applications, this is the filtration solution of the future...100% non-metallic! The Cartridge Tank® is a high performance, NSF 42 listed device and has been tested to 100 psi operating pressure with 4:1 Burst Safety Factor.

### Features & Benefits

- 100% non-metallic!
- Patented no-tools necessary snap-ring design
- Multiple filtration solutions **OR GR YE BL WH**
- Full 1¼" and 2" plumbing connection options
- Large capacity filter configurations
- Simple and easy change-out of cartridges.
- Match the filtration solution with flow rate requirements
- Extended service life, contaminant removal, and dirt holding capacity
- Low pressure drop = high flow
- Replacement option of pitcher, faucet, bottled water and/or refrigerator filters
- Reduction in frequency of replacing common 2½" or 4½" housings...Bigger is Better

### Applications

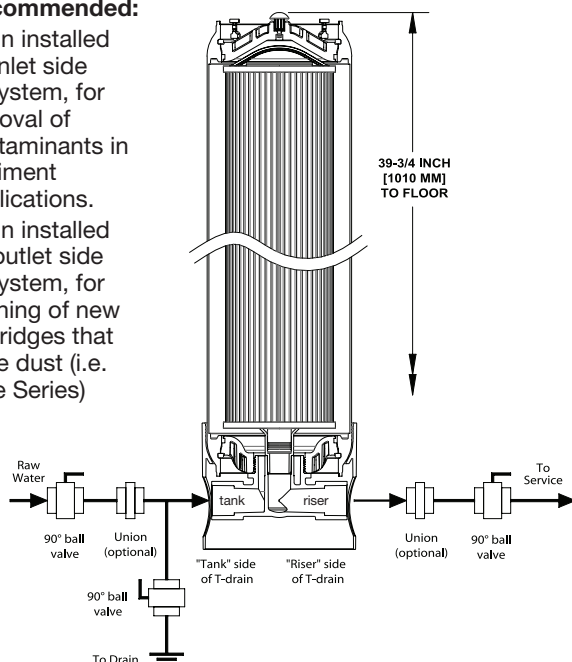
- Ideal for Residential, Foodservice, Rental Fleets, Commercial and Industrial Applications
- Make-up Water, RO Pre-filtration, Cooling Towers, Chill Water Loops, Metal Finishing
- Process Water (turbidity, particulate, colloidal suspensions)
- City water applications where water softeners are a hard sell

### Technical Schematics

#### Recommended:

Drain installed on inlet side of system, for removal of contaminants in sediment applications.

Drain installed on outlet side of system, for flushing of new cartridges that have dust (i.e. Blue Series)



This pressure vessel is tested and certified by NSF International against NSF/ANSI Standard 61 for materials and structural integrity requirements

COMPONENT

**GNE®**  
Water Filtration Simplified®



### Models and Components

Units sold fully assembled. Available Plumbing Connections:

Item #: SCT125 - 1 ¼"

### Color-Coded Cartridge Filtration Series

**OR GR YE BL WH**

Item #: SCT-1/4NPTLID



Top Cap option with pressure release Valve & Removal Handles

Item #: SCT-2.5LID



2.5" Threaded top/bottom Res./LC Cap threaded connection.

Item #: SCT-RETAINRING



Snap Ring with I.D. Tag connection.

Item #: SCT-2.5DRAIN  
SCT-2.5ADAPTER



2.5" Bottom Drain Plumbing for Res./LC Filters.

## Orange Filtration Series

### Dual Gradient Double Pleated Filters

The Orange Filtration Series are dual gradient double pleated filtration solutions for extended life and use, with filtration levels of 5, 10 and 20 microns. The filters are designed with a larger pre-filtration layer externally and the smaller internally, extending filtration level contamination and service life, while achieving high flow and low pressure drop. The Orange Series also provides lower shear water velocity as the raw water passes through the filter, allowing for more contact time and interaction with the extensive surface area of the filters. This results in higher water quality and longer life of the filtration system.

Each filter comes with a unique handle designed top cap for lightweight and easy removal, a bag for proper disposal, and a double o-ring bottom connection into the Cartridge Tank® plumbing adapter for the 2½" assembly and full 1¼" PVC glue socket flow rate connections.

### Features & Benefits

- Dual Gradient Double Pleated Filters
- Double Buna-N O-ring seals
- Filter Belly Bands
- Durable Polyester filter and Polypropylene cap construction
- Extended service life, contaminant removal, and dirt holding capacity
- Low pressure drop = high flow!
- Ensures no bypass of contaminants and high chemical compatibility
- Prevent collapsing of filters under high flow or contaminant load applications
- Reduction in frequency of replacing common 2½" or 4 ½" housings...Bigger is Better!

### Three filter configurations:

**SCT-1005:** External 10 Micron Pleated pre-filter, with 5 Micron Pleated Internal Filter

**SCT-2010:** External 20 Micron Pleated pre-filter, with 10 Micron Pleated Internal Filter

**SCT-5020:** External 50 Micron Pleated pre-filter, with 20 Micron Pleated Internal Filter

### Applications

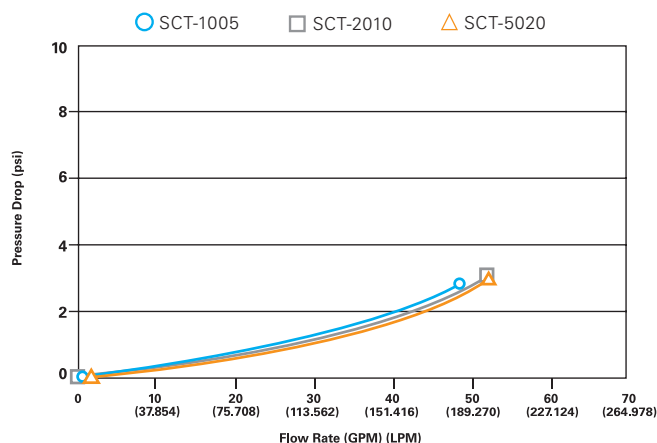
- Ideal for Residential, Foodservice,
- Rental Fleets, Commercial and Industrial Applications
- Make-up Water, RO Pre-filtration, Cooling Towers, Chill Water Loops, Metal Finishing
- Process Water (turbidity, particulate, colloidal suspensions)



### Better Filtration - There's No Competition

**Extended Service Life...6, 12, 18, or 24 months, versus 1-3?:** The total surface area of the dual gradient Orange Series is approximately 100 ft<sup>2</sup>, as compared to a typical single layer 2½"x20 filter, is approximately 7ft<sup>2</sup> of filter media area, and a 4 ½"x20 is approximately 16ft<sup>2</sup>. We have nearly 6.5x open area compared to standard 4.5x20 filters...100ft<sup>2</sup> vs. 16ft<sup>2</sup> and nearly 14.5x open area compared to standard 2.5x20filters...100ft<sup>2</sup> vs. 7ft<sup>2</sup>. Extended Service Life!

### Filter Performance



Performance claims are based on independent lab results and manufacturer's internal test data. Actual performance is dependent on influent water quality, flow rates, system design and applications. Your results may vary. Micron ratings based on 85% or greater removal of a given particle size. Flush new cartridges until water runs clear prior to use.

### NOTICE

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

## Green Filtration Series

### Dual Gradient Double Pleated Filters with NanoAI™ Media

The Green Filtration Series are electropositively charged dual gradient double pleated filtration solutions that successfully remove contaminants from 1 to 0.2 microns, featuring NanoAI™ media. The filters are designed with a larger 20 micron pre-filtration layer externally and the charged media internally, extending filtration level contamination and service life, while achieving high flow and low pressure drop.

All filters feature the use of Agion® technology that provides built-in protection. Each filter comes with a unique handle designed top cap for lightweight and easy removal, a bag for proper disposal, and a double o-ring bottom connection into the Cartridge Tank® plumbing adapter for the 2½" assembly and full 1¼" PVC glue socket flow rate connections.

#### Features & Benefits

- Dual Gradient Double Pleated Filters with electropositively charged NanoAI™ media
- Double Buna-N O-ring seals
- Filter Belly Bands
- PAC solution option
- Agion® technology
- Ensures no bypass of contaminants and high chemical compatibility
- Prevent collapsing of filters under high flow or contaminant load applications

#### Two filter configurations:

**SCT-20NANOAG:** External 20 Micron Pleated pre-filter, with NanoAI™ Pleated Inner Filter w/Agion®

**SCT-20NANOPACAG:** External 20 Micron Pleated pre-filter, with NanoAI™ PAC Pleated Inner Filter w/Agion® and Carbon Block Core

#### Applications

- Primary Filtration in lieu of microporous membranes
- Make Up Water (particulate)
- Polishing Filters (carbon fines, emulsified oil removal)
- RO Prefiltration (SDI reduction)
- Process Water (turbidity, particulate, colloidal suspensions)
- Waste Water (proteins, dyes)
- Cooling Towers, Chill Water Loops (iron removal)



is a trademark of Sciessent LLC, Wakefield, MA, USA

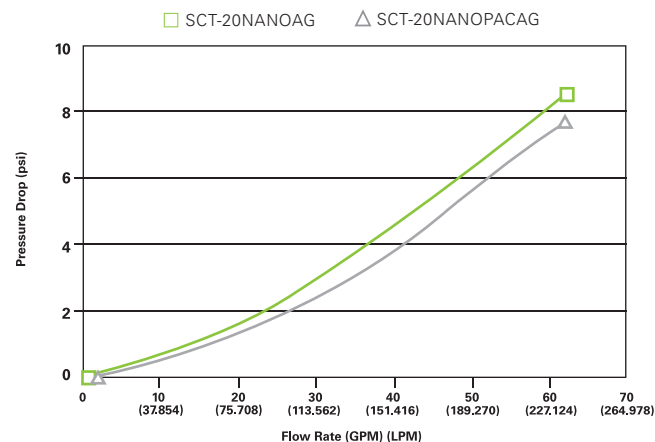
#### Better Filtration - There's No Competition

**Known foulants for RO membranes** that are reduced by this adsorptive technology: Colloids (Iron, Manganese, Silica, etc), Cellular debris is also reduced: Lipids (hydrophobic and hydrophilic), Phospholipid, Proteins, Carbohydrates, and Glucose – mono and poly saccharides (TEP/EPS)

**Data suggests adsorptive filter media** could represent a significant improvement to membrane performance, life and overall operating cost by reducing fouling.

**Additional filtration highlights include:** Removal of Humic Acid based tannins; Endotoxin removal; Selected Heavy Metal Removal: Fe<sub>2</sub>, Fe<sub>3</sub>, Sn, Cu, Cr<sub>3</sub>, Al; Reduces Membrane fouling; Pre-, Post-, and Stand-Alone Filtration Solution

#### Filter Performance



Performance claims are based on independent lab results and manufacturer's internal test data. Actual performance is dependent on influent water quality, flow rates, system design and applications. Your results may vary. Micron ratings based on 85% or greater removal of a given particle size. Estimated capacity using 2ppm free chlorine with greater than 90% reduction. Flush new cartridges until water runs clear prior to use.

#### NOTICE

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



## Yellow Filtration Series

### String Wound Filters with Meltblown Core

The Yellow Filtration Series are dual gradient double pleated filtration solutions for extended life and use, with filtration levels of 5 and 20 microns. This Series offers a combination filter composed of an outer layer of Polypropylene String with a Melt blown Polypropylene core. The precise wound pattern provides greater surface area, higher dirt-loading capacity and greater efficiency than standard wound filter cartridges. As a dual media filter, they provide a cost effective, extended-life product capable of capturing a broad range of particulates with high service flow rates greater than 30+gpm with less than 15 Delta P.

Each filter comes with a unique handle designed top cap for lightweight and easy removal, a bag for proper disposal, and a double o-ring bottom connection into the Cartridge Tank® plumbing adapter for the 2½" assembly and full 1¼" PVC glue socket flow rate connections.

### Features & Benefits

- Outer pre-filter manufactured using 100% polypropylene yarn
- Outer filter captures fine sediment, sand, silt, rust and scale particles
- Melt blown inner filter manufactured using thermally bonded polypropylene fibers
- Consistent downstream flow w/out fiber migration
- High purity
- Excellent chemical resistance
- High dirt holding capacity
- Graded density

### Two filter configurations:

**SCT-2005SWMB:** External 20 Micron String Wound pre-filter, with 5 Micron Meltblown Core

**SCT-5020SWMB:** External 50 Micron String Wound pre-filter, with 20 Micron Meltblown Core

### Applications

- Potable water
- Pre RO
- Electronics
- Plating solutions
- Corrosive fluids
- Concentrated acids and alkali
- Food/beverage
- Fine chemicals
- Metal finishing
- Oxidizing agents
- Gases



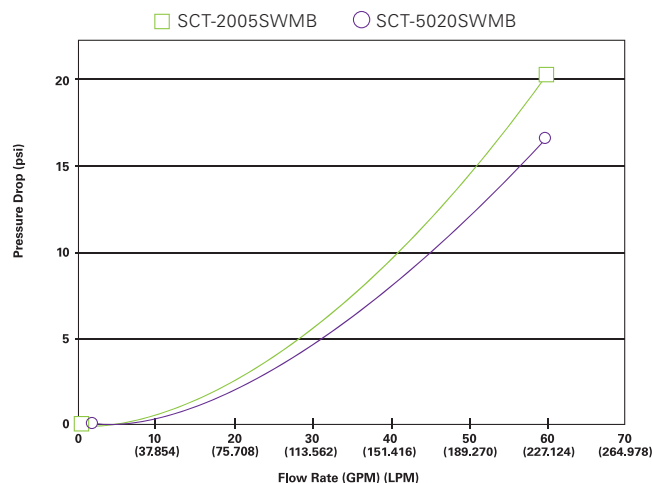
### Better Filtration - There's No Competition

**Extended service life:** 6, 12, 18, or 24 months versus 1-3 months, with 3x media content and 2x surface area to less efficient options!

**2x Surface area:** Wound in a precise pattern, providing greater surface area, higher dirt-loading capacity, and greater efficiency than that of a standard wound cartridge. The precise pattern offers 30-50% improved efficiency. ONE® surface area: = 566.46 sq. inches. Standard 4.5x20 = 283.23 sq. inches. = Two times the surface area.

**3x Media Content:** Both the 50x20 & 20x5 filters have a finished medium weight of 9 pounds, with a yarn content of 7.75 pounds. A standard 4.5x20 cartridge has a medium string weight of 2.5 pounds = Three times the media content.

### Filter Performance



Performance claims are based on independent lab results and manufacturer's internal test data. Actual performance is dependent on influent water quality, flow rates, system design and applications. Your results may vary. Micron ratings based on 85% or greater removal of a given particle size. Flush new cartridges until water runs clear prior to use.

### NOTICE

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

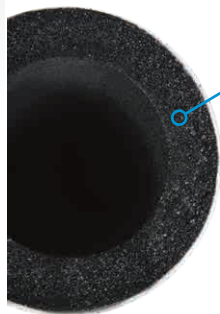


## Blue Filtration Series

### High Performance Carbon Block with Chloramine Reduction

The Blue Filtration Series incorporates surface modified carbon block filter technology that is highly effective reducing bad taste, odor, and the reduction of chlorine and chloramines from potable drinking water. The filters are made using high performance coconut shell carbon, which has more micropores compared to other types of carbon.

All components and materials are made with FDA approved materials and Manufactured from NSF 61 Certified Coconut Shell carbon. Each filter comes with a unique handle designed top cap for lightweight and easy removal, a bag for proper disposal, and a double o-ring bottom connection into the Cartridge Tank® plumbing adapter for the 2½" assembly and full 1¼" PVC glue socket flow rate connections.

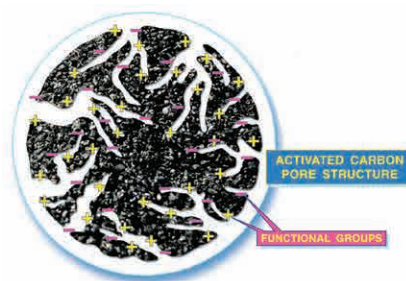


#### Features & Benefits

- High-performance carbon
- Unique binder system
- Proprietary manufacturing process
- Outer Wrap of Polypropylene
- Netting of Polyethylene
- Exceptionally low pressure drop
- High dirt holding capacity
- Excellent contaminant reductions

### Applications

- Ideal for Residential, Food Service, Commercial and Industrial applications
- Effective at reducing unwanted bad taste and odor, along with chlorine and chloramine taste and odor from potable drinking water
- Ideal as polishing or pre-filters in applications requiring fine filtration and high capacity



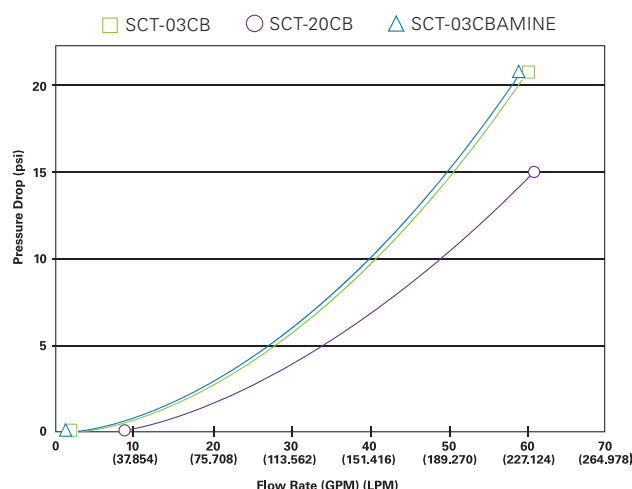
### Three filter configurations:

**Nominal 3 micron (SCT-03CB) rated filter** to treat >250,000 gallons (946,353 Liters) of water @ 15 gpm (56.78 LPM) with greater than 90% reduction, estimated capacity using 2ppm of free chlorine. High capacity carbon block.

**Nominal 20 micron (SCT-20CB) rated filter** to treat >150,000 gallons (567,812 Liters) of water @ 7 gpm (26.50 LPM) with greater than 90% reduction, estimated capacity using 2ppm of free chlorine. High porosity/low pressure drop carbon block.

**Nominal 3 micron Chloramine (SCT-03CBAMINE) rated filter** to treat >50,000 gallons (189,271 Liters) of water @ 7 gpm (26.50 LPM) with greater than 85% reduction, estimated capacity. Chloramine reduction carbon block.

### Filter Performance



Performance claims are based on independent lab results and manufacturer's internal test data. Actual performance is dependent on influent water quality, flow rates, system design and applications. Your results may vary. Micron ratings based on 85% or greater removal of a given particle size. Estimated capacity using 2ppm free chlorine with greater than 90% reduction. Flush new cartridges until water runs clear prior to use.

#### NOTICE

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

## White Filtration Series

### High Capacity Granular Media Bottle with Vortech Plate

The White Filtration Series is a unique and high capacity granular media bottle that allows incorporation of multiple media options and solutions to be used with the series. This filter series is a 0.5 ft<sup>3</sup> empty bottle for filling of granular filtration media. This ONE - Water Filtration Simplified™ filter series is ideal for a wide range of Residential, Food Service, Commercial, and Industrial applications, and can be used for multiple applications from Service DI, POE for city or well-water installations, Rental Programs, Exchange systems, high-purity pre- or post-filtration applications, etc...the options, configurations, and solutions are endless.

Each filter comes with a unique handle designed top cap for lightweight and easy removal, and a double o-ring bottom connection into the Cartridge Tank® plumbing adapter for the 2½" assembly and full 1" PVC glue socket flow rate connections.

### Features & Benefits

- 0.5 cuft empty media bottle
- Polyethylene construction
- Vortech® distributor plate
- Locking or Removable top cap
- Double Buna-N O-ring seals
- Mid-Vortech® distributor plate option
- Extended service life and high capacity contaminant removal
- High chemical resistance
- Low pressure drop=high flow!
- Up-flow or down-flow service and full utilization of the media bed
- Ensures no bypass of contaminants and high chemical compatibility
- Separation of multi-media configurations.

### Applications

- Deal for Residential, Food/Beverage Service, Rental Fleets, Service DI Exchange, Plating solutions, Commercial and Industrial Applications
- Metal finishing, Oxidizing agents, Corrosive fluids, Electronics, Pre-RO, Process Water, Waste Water, Cooling Towers, Make-up Water, Polishing Filters, Primary Filtration
- Effective at reducing unwanted bad taste and odor, along with chlorine and chloramine taste and odor from potable drinking water

### Two filter configurations:

**SCT-MEDIA05** – Full 0.5 ft<sup>3</sup> configuration, able to be filled with any media for up-flow or down-flow service due to use of Vortech® technology.

**SCT-MEDIA05-MID** – Full 0.5 ft<sup>3</sup> configuration with Mid-Vortech® separation plate, able to be filled with any media for up-flow or down-flow service, due to use of Vortech® technology.

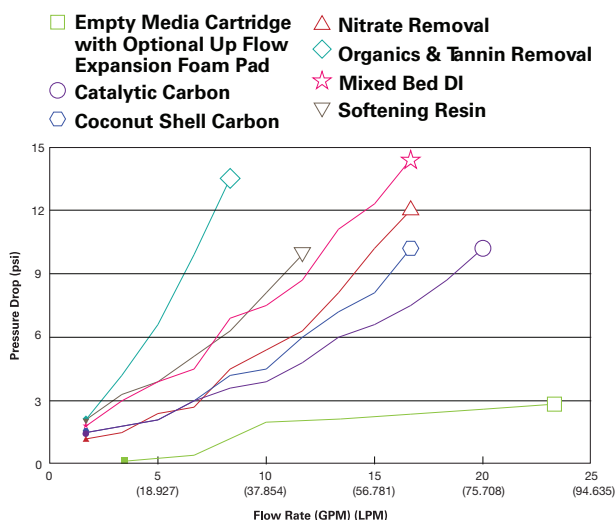
**Optional SCT-MEDIA05-FOAM** – Optional up-flow expansion foam pad can be added to filters used in up-flow service applications to promote consistent service flow rates and reduced pressure drop.

**Optional SCT-MEDIA05-SHIP** – Optional Box and Bag Kit solution for shipping of spent cartridges to facilities for regeneration or reuse of bottle.

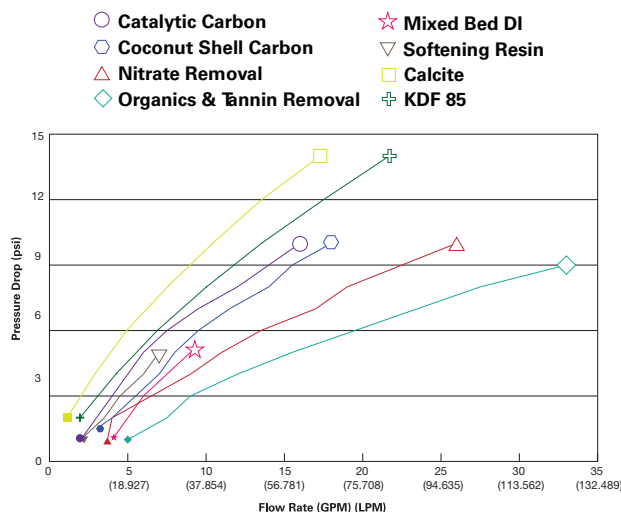


### Filter Performance

#### Up Flow



#### Down Flow



Performance claims are based on independent lab results and manufacturer's internal test data. Actual performance is dependent on influent water quality, flow rates, system design and applications. Your results may vary. Flush new cartridges until water runs clear prior to use.

### NOTICE

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

## Flow-Max Stainless Steel Filter Housings

*Check Out These Many Features And Benefits:*

- 100% stainless steel for durability.
- 304 and 316 stainless steel available.
- Convenient band clamp lid closure is standard for easy cartridge replacement.
- Pipe fittings are readily accessible for easy installation.
- Adjustable top plate accepts variable length cartridges for more options.
- Two drains provided for clean and dirty fluids.
- Legs and mounting tabs are available.
- Knife edge seals are provided at both ends of all DOE cartridges for superior performance.
- Rated for temperatures to 250° F. (No plastic holding rods.)
- Pressure rating to 150 psi.
- Housings for pressures to 300psi are available.
- Optional sanitary connections.
- Models to accept DOE, 222 and cartridges with 226 end caps.
- Protective poly-coat over stainless steel standard finish.
- Electro-polishing is available.
- Standard, Premium Series and Jumbo models are in stock for immediate shipment.



### Specifications

Material	304 and 316 stainless steel are available.
Pressure rating	Housings are rated for pressures to 150 psi (10 bar).
Temperature	Filters are rated for temperatures to 250° F (121° C). Please consider cartridges to be used.
Gaskets & seals	Buna-N is standard. Viton, EDPM and Teflon are available.
Finish	Protective poly-coat over stainless is standard finish. Electro-polishing available.
Pressure drop	Initial pressure drop is <2 psi at maximum flow rates for housings only.
Cartridge types	Housings are designed to accept DOE cartridges. Adapters for 222 & 226 cartridges available.

### Models



## Flow-Max Stainless Steel Filter Housings

Stainless steel filter housings with easy, safe and secure band-clamp lid closure.



4 & 5 Round Models



12 Round



22 Round



Premium Series

### Flow-Max® Commercial Quality Multi-Cartridge Stainless Steel Filter Housings

MODEL NO.	ORDERING CODE	ROUND	MAX. FLOW RATE (GPM) PLEATED	MAX. FLOW RATE (GPM) DEPTH	PIPE SIZE	DRAIN SIZE (NPT)	NO. OF STANDARD CARTRIDGES	CARTRIDGE OPTIONS (LENGTHS)
FM4X1-1-304	68102168	4	25	20	1" NPT	1/2"	4	9-3/4" - 10"
FM5X1-304	68102176	5	30	25	2" NPT	1/2"	5	9-3/4" - 10"

Flow rates shown above are for guidelines only. Actual flow rates are based on cartridge type, micron rating, solids content and a number of other factors.

## Stainless Steel Filter Housings – Tabs

ORDERING CODE	MODEL NO.	DESCRIPTION
68108352	TABS	MOUNTING TABS FOR 457 ROUND

## Flow-Max In-Line Filters

*Single cartridge, metal filter housings for in-line installations.*

### Applications

- High temperatures
- High pressures
- Aggressive chemicals
- Water
- Oils
- Coolants
- Plating solutions
- Solvents
- Lubricants
- Hydraulic fluids

### Models

- Nickel plated brass heads with 304 stainless sumps and T-Handles for easy sump removal
- 304 stainless steel for DOE cartridges
- 316 stainless steel for 222 o-ring end caps
- Carbon steel

### Specifications

- Rated for pressures to 250 PSI (17.5 bar)
- Rated for temperatures to 250°F (121°C)
- Buna-N seals are standard. Optional seals available



### Models With Nickel Plated Brass Heads, 304 Stainless Steel Sumps and T-Handles

MODEL NO.	ORDERING CODE	CARTRIDGE LENGTH	PIPE SIZE (IN.)	NO. OF CARTRIDGES	SUMP	HEAD	SHIPPING WEIGHT (LBS.)
FM10-BN-304-34T	68102137	10" *	3/4	1	304 SS	Nickel / Brass	7
FM20-BN-304-34T	68102155	20"	3/4	1	304 SS	Nickel / Brass	10

### With 304 Stainless Steel Heads And 304 Sumps

MODEL NO.	ORDERING CODE	CARTRIDGE LENGTH	PIPE SIZE (IN.)	NO. OF CARTRIDGES	SUMP	HEAD	SHIPPING WEIGHT (LBS.)
FM10-304-34	68102136	10" *	3/4	1	304 SS	304 SS	7
FM20-304-34	68102153	20"	3/4	1	304 SS	304 SS	10

### NOTICE

Filter housings listed directly above are rated for pressures to 250 psi and temperatures to 250°F.

\*Accepts 10" and 9-7/8" wound or 9-3/4" cartridges with rigid end caps (pleated). Rated for pressures to 250 psi and temperatures to 250°F

## Flow-Max Bag Filters

Filter bags for use in the Flow-Max Bag Filter Housing systems with swing-bolt lid closure.



### #2 Filter Bags

MODEL NO.	ORDERING CODES	NUMBER	SIZE	MATERIAL	MICRON RATING	NO./ CASE
FMPPFB2-50	68102261	#2	7" x 32"	PP	50	50
FMPPFB2-100	68102256	#2	7" x 32"	PP	100	50

Filter bags made with glazed polypropylene felt with galvanized carbon steel rings. #2 filter bags have 4.4 square feet.

### #1 Felt Bags

MODEL NO.	ORDERING CODES	NUMBER	SIZE	MATERIAL	MICRON RATING	NO./ CASE
FMPPFB1-100	68102252	#1	7" x 16"	PP	100	50

Filter bags made with glazed polypropylene felt with galvanized carbon steel rings. #1 bags have 2.0 square feet.



# Resin and Media

Watts offers a variety of high-purity, premium-grade ion exchange resins and media designed for residential or commercial applications.

Our Micro Z® granular filter media outperforms conventional multimedia materials due to its unique structure. Micro Z allows particulate to penetrate deeply into the filter bed, providing superior filtration at increased flow rates.

Our unique Catalytic granular-activated carbon concentrates reactants via adsorption, then promotes their reaction on the surface of the carbon to help remove hydrogen sulfide and chloramines.

Our unique OneFlow® media uses media assisted crystallization (MAC) technology to pre-emptively attract hardness minerals and convert them into harmless particles. The particles won't stick to inside of pipes and components, in turn reducing scale buildup. If you cannot find the correct resin or media in this catalog, please call us for assistance!

## OneFlow® Anti-Scale Media

OneFlow Anti-Scale Media can be purchased in kit or bulk form. For your convenience, we offer a replacement media (RM) kit for each OneFlow system we manufacture. The kit includes the exact, pre-measured, amount of media necessary to re-bed your existing system. Use the Replacement Media Kit chart below to select the appropriate kit for your system.



OneFlow Media is Certified by WQA to NSF/ANSI/CAN 61 and NSF/ANSI/CAN 372.



## OneFlow

### Ordering Information

MODEL NO.	ORDERING CODE	DESCRIPTION	APPLICATION	UNIT OF MEASURE	CONTAINER WT. (LBS.)
A8210	68100381	OneFlow Anti-scale Media	Anti-scale	1 Liter	1.7

## OneFlow® Replacement Media Cartridges

MODEL NO.	ORDERING CODE	RE-BEDS SYSTEM MODEL NO.	SIZE	PEAK FLOW RATE
OFTWH-RM-R	0002189	OFTWH-R	4.5" x 20"	6 gpm
OFTWH-RM	68107406	OFTWH	4.5" x 20"	10 gpm
OF110RM	68107399	OF110-1 & OF210-1	2.5" x 10"	1 gpm
OF120RM	68107400	OF120-2 & OF220-2	2.5" x 20"	2 gpm
OF130RM	68107412	-	4.5" x 10"	3 gpm
OF140RM	68107401	OF140-4 & OF240-4	4.5" x 20"	4 gpm
OF210RC	68107402	OF210-1	2.5" x 10"	1 gpm
OF220RC	68407403	OF220-2	2.5" x 20"	2 gpm
OF240RC	0002166	OF240-4	4.5" x 20"	4 gpm

## OneFlow® Residential Replacement Media

MODEL NO.	ORDERING CODE	RE-BEDS SYSTEM MODEL NO.	LITERS OF MEDIA	CONTAINER WT (LBS.)
OFRES-0835RM	7300096	OFRES-0835	2	6
OFRES-0935RM	7300097	OFRES-0935	3	8
OFRES-1035RM	7300098	OFRES-1035	4	10

## OneFlow® Commercial Replacement Media

MODEL NO.	ORDERING CODE	RE-BEDS SYSTEM MODEL NO.	LITERS OF MEDIA	CONTAINER WT (LBS.)
OF744RM	68100295	OF744-10	2.5	6
OF844RM	68100296	OF844-12	3	8
OF1054RM	68100298	OF1054-20	5	12
OF1354RM	0002222	OF1354-30	7.5	15
OF1465RM	68100300	OF1465-50	12.5	25
OF1665RM	68100301	OF1665-75	19	34

## Micro Z®

### Superior Filtration Media

Micro-Z granular filter media outperforms conventional multi-media materials due to its unique structure, allowing particulate to penetrate deeply into the filter bed to provide superior filtration at increased flow rates.

#### Features & Benefits

- Higher solids loading capability
- Superior filtration performance
- Reduced backwash frequency
- Removes finer particles
- Reduces pressure drop
- Provides higher flow rates
- Light weight
- Reduces shipping costs
- Easy to handle

#### Physical Properties

Color	Light green
Bulk density	55 lbs. per cu. ft.
Specific gravity	2.2 gm/cc
Mesh size	14x40
Uniform coefficient	1.9
Hardness (Mohs scale)	4

#### Conditions of Operation

Recommended bed depth	36" - 48"
Recommended freeboard	50% of bed depth
Service flow rate	12-20 GPM/sq. ft.
Backwash flow rate	12-18 GPM/sq. ft.
Backwash bed expansion	30-40 percent

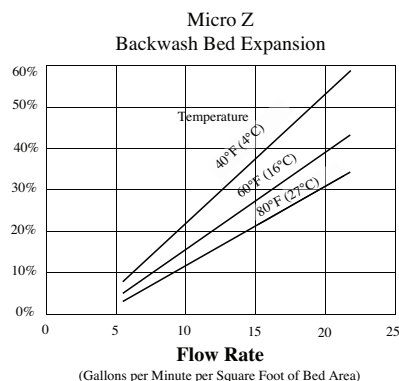
#### NOTICE

Allow bed to soak overnight before initial backwash.



#### MICRO-Z vs. Conventional Filter Media

MEDIA	NOMINAL MICRON RATING	SOLIDS LOADING CAPACITY
Sand	20	1.0 X
Sand & Anthracite	15	1.4 X
Multimedia	12	1.6 X
Micro-Z	< 5	2.8 X



### MICRO-Z Loading Information

VESSEL DIAMETER (INCHES)	MEDIA QUANTITY A7200 (CUBIC FT.)	UNDER BED A7005 (LBS.)	SERVICE FLOW RATE	BACKWASH FLOW RATE (GPM)
9	1	12	5-9	5-8
10	1.5	15	7-10	7-10
12	2	25	9-15	10-14
14	3	40	13-21	13-19
16	4	55	17-28	17-25
21	7	100	30-50	29-43
24	10	200	38-62	38-56
30	15	300	59-98	60-88
36	20	500	85-140	85-127
42	30	700	115-190	115-175
48	35	900	150-250	150-225

#### Ordering Information

## Activated Carbon

### Granular Activated Carbon (GAC)

Granular Activated Carbon (GAC) is a natural material derived from bituminous coal, lignite, wood, coconut shell etc., activated by steam and other means. Carbon is very popular due to its ability to correct many water quality problems.

#### Benefits

- Improve taste and remove odors
- Dechlorination of water
- Removes color from water
- Removal of organic substances
- Removal of synthetic organic substances
- Clear water for drinking, bathing and cooking!

#### Adsorption Influencing Factors

<b>Temperature</b>	Most effective 60°F - 80°F.
<b>pH</b>	Most organics in water are more soluble at pH lower than 7.0.
<b>Contact time</b>	Very important to achieve proper flow rates for any adsorption system to function properly.

#### Carbon Media Types

<b>Bituminous</b>	Basic coal based granular media
<b>Coconut shell</b>	Superior level of hardness; high activity level; trihalomethane removal; longer life expectancy;
<b>Acid washed</b>	Increases adsorptive capacity of carbon base and lowers the level of impurities.
<b>Catalytic</b>	Specialized carbon media to remove hydrogen sulfide gas, iron, and chloramines.

#### Ordering Information

MODEL NO.	ORDERING CODES	DESCRIPTION	TYPE	MESH	CUBIC FEET PER BAG	CONTAINER WT. (LBS)	PER PALLET
A9231-ALLF	68100399	Watts Brand Low Fines Coconut Shell	Coconut	12 x 40	1	27.5	40
A9230-AL	68100396	Watts Brand Acid Washed Coconut Shell	Coconut	12 x 40	1	27.5	40
A9231-AL	68100398	Watts Brand Coconut Shell	Coconut	12 x 40	1	27.5	40
A9232-AL	68100404	Watts Brand Coconut Shell	Coconut	8 x 30	1	27.5	40

#### ⚠ WARNING

Wet activated carbon preferentially removes oxygen from air. In closed or partially closed containers and vessels, oxygen depletion may reach hazardous levels. If workers are to enter a vessel containing carbon, appropriate procedures for potentially low-oxygen environment should be followed.



Certified to  
NSF/ANSI/CAN 61 .  
(Watts Brands Only).



#### Standard Operating Conditions

Service flow rate	2 - 6 gpm/cu.ft.
Backwash flow rate	10 gpm/sq. ft.
Freeboard	50% of bed depth
pH	6.5 – 7.5

#### Contaminates Adsorbed

- Chlorine
- Organic Chemicals
- Fertilizers
- TCE (Trichloroethylene)
- EDB (Ethylene dibromide)
- THM (Trihalomethanes)
- Sediment
- Chemical odor
- Pesticides
- Detergents
- Chloramines
- Color

#### NOTICE

Service flow rates are calculated at 2-6 gpm/ft<sup>3</sup> for standard taste, odor and chlorine removal application using bituminous carbon. Chloramines and TOC/VOC applications will require lower service flow rates and longer empty bed contact time or specialized carbon formulations.

## Catalytic® Granular Activated Carbon

*Hydrogen sulfide, iron and chloramines removal*

Catalytic carbon is a liquid phase virgin activated carbon that has been manufactured to develop catalytic functionality. The product is unique in that it concentrates reactants via adsorption and then promotes their reaction on the surface of the pores.

### Features & Benefits

- Catalytic activity allows for smaller more compact system sizing and lower capital requirements.
- No safety concerns with exotherms or toxicity like some impregnated medias.
- Improved trace organic capacity per unit volume.
- High hardness reduces fines and losses due to handling.
- Works with low oxidant levels and limits the need for chemicals.
- Simple and reliable equipment design that will handle spikes in concentration without metering of chemicals.
- Reduced carbon requirements, reduced operating costs.
- Enhanced carbon media performance for a greater degree of contaminant removal at reduced costs.
- Thermal reactivation is an option for recycle and reuse to minimize operating costs and eliminates disposal concerns.



Part # A8056-AL



Certified to  
NSF/ANSI/CAN 61

### Specification

Iodine number	Min. 1000 mg/g
Moisture content (as packaged)	Max. 5%
Total ash content	Max. 4%
Ball-pan hardness	Min. 98%
CTC activity	Min. 50%
Catalytic activity	Min. 20° C

### Typical Properties

Surface area (BET)	1060 m <sup>2</sup> /g
Apparent density	490 kg/m <sup>3</sup>
Bed density, backwashed and drained	420 kg/m <sup>3</sup>
pH	10

### Applications

- Chloramines
- Hydrogen sulfide
- Taste and odor
- VOC removal
- Iron removal
- Residential water filters
- Commercial water filters
- Bottling and soft drink industries
- Aquarium water treatment

### Design Considerations

Catalytic carbon is produced from coconut shell using a patented process for the use in liquid phase systems to promote catalytic reactions. The reactant concentration determines the effective contact time. Although it is not impregnated with metals or alkali, it displays the catalytic functionality of these materials.

### Ordering Information

MODEL NO.	ORDERING CODES	DESCRIPTION	TYPE	MESH	CUBIC FEET PER BAG	CONTAINER WT. (LBS.)	PER PALLET
A8056-AL	68100380	Catalytic Carbon	Coconut	12x40	1	27.5	40

### ⚠ WARNING

Wet activated carbon preferentially removes oxygen from air. In closed or partially closed containers and vessels, oxygen depletion may reach hazardous levels. If workers are to enter a vessel containing carbon, appropriate sampling and work procedures for potentially low oxygen spaces should be followed, including all applicable federal and state requirements.

## Resin (Watts, Purolite, Thermax)

### Watts Brand A4000 Resin

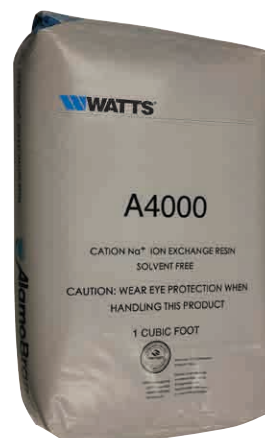
Watts brand A4000 resin is a high purity, premium grade, prewashed, strong acid gel-type cation exchange resin specially designed for water softening applications. A4000 is a bead type, cross-linked, polystyrene divinylbenzene resin that offers excellent bead integrity and very low extractables.

### Resin Properties

Type	8% crosslink polystyrene
Form	Gel- type, light amber bead
Ionic form	Na+ (as shipped)
Functional group	Sulphonic acid
Bead size	16 x 50 mesh
Effective size	0.45 ± 0.07 mm
Bulk density	~ 51 lb/ft <sup>3</sup>
Bead count	min. 90%
Water retention	45-48%
Total capacity	>2.0meq/l
Volume change	Na+ - H+ <5%
Stability, temp.	<300°F
Stability pH	0 – 14



A4000 is tested and certified by WQA against NSF/ANSI/CAN Standard 61 and NSF/ANSI/CAN 372.



### Design Conditions

Bed depth	>30 in
Flow rate	2-5 gpm/ft <sup>3</sup>
Freeboard	50% of bed depth
Backwash expansion	50% of bed depth
NaCl concentration for regeneration	5-25%
NaCl flow rate for regeneration	0.25-0.5 gpm/ft <sup>3</sup>
Turbidity	<5.0 NTU
Free chlorine	<1 ppm

### Ordering Information

#### Cation

MODEL NO.	ORDERING CODES	DESCRIPTION	APPLICATION	IONIC FORM	CUBIC FEET PER BAG	CONTAINER WT. (LBS.)	PER PALLET
A4000	68100326	Watts Brand 8% crosslink	Softening	NA	1	52	40
A4004	68100331	Purolite C-100E	Softening	NA	1	52	40
A4016	68100335	Purolite C-100X10 10% crosslink	Softening	NA	1	52	40
A4012	68100334	Purolite C-100H	DI	H+	1	52	40

#### Anion

MODEL NO.	ORDERING CODES	DESCRIPTION	APPLICATION	IONIC FORM	CUBIC FEET PER BAG	CONTAINER WT. (LBS.)	PER PALLET
A4044	68100339	Purolite A-300 Type II	Alkalinity	CL	1	43	40
A40400H	68100338	Purolite A-400 Type I	DI	CL	1	43	40
A4073	68100341	Purolite A-850 gel acrylic	Tannins	CL	1	43	40
A4050	68100340	Purolite A-520E macro	Nitrates	CL	1	43	40

#### Mixed Bed

MODEL NO.	ORDERING CODES	DESCRIPTION	APPLICATION	IONIC FORM	CUBIC FEET PER BAG	CONTAINER WT. (LBS.)	PER PALLET
A4140	68100334	Purolite MB3720 Semiconductor H/OH Mixed Bed	DI	H+/OH-	1	43	40
A9000-31	68100388	Thermax MB-108P 1:1 volume basis	DI	H+/OH-	1	43	36



## Iron, Hydrogen Sulfide, and Manganese Reduction

### Filox® Media

Filox media is an economical Iron and Hydrogen Sulfide filtration media that out performs traditional Greensand and Birm.

#### Features & Benefits

- Superior high efficiency media for filtration and removal capabilities
- No oxidizing chemicals typically needed for regeneration (See Testing For ORP below)
- High efficiency with 80% manganese dioxide for enhanced performance and capacity.
- Effective, from 6.5 pH to 9.0 pH
- Highest flow rate of any standard iron removal media.

#### Operating Conditions

Active Ingredient	75-85% Manganese Dioxide
Max Service Flow	6 gpm/cu.ft.
Freeboard	30-50% of bed depth
Backwash rate	Backwash rate 16-30 GPM/sq.ft, depending on application specific variables, minimum recommended bed expansion is 15%
Bed depth	20 inch Minimum
pH Range	6.5 – 9.0
Screen size	20 x 40
Bulk density	110 lbs/cu.ft.

#### Removal Capacity

Iron	10 ppm
Hydrogen Sulfide	3 ppm
Manganese	5 ppm

#### Comparative Information

PRODUCT NAME	ACTIVE INGREDIENT
Greensand	0.5% Manganese Dioxide
Filox	75% - 85% Manganese Dioxide

#### Ordering Information

MODEL NO.	ORDERING CODES	DESCRIPTION	CUBIC FEET PER BAG	CONTAINER WT. (LBS.)	PER PALLET
A8033	68100375	Filox media	0.5	55	38

The use of additional oxidizing agents (oxygen, chlorine, ozone, hydrogen peroxide, potassium permanganate, etc.) is recommended. Oxidizers will enhance the performance of Filox. They oxidize the media, which enables Filox to perform quicker and keep cleaner. It is always a safe practice to install an oxidation method upstream (in front) of the Filox bed. Do not exceed 4 ppm free chlorine chlorine in the feed water stream or bed damage may occur.

#### Testing For ORP

Oxidation Reduction Potential (ORP) can be the most important factor to take into consideration in certain waters. Highly reducing waters may cause premature exhaustion or even destruction of the Filox bed. Precautions can be taken prior to installation that can prevent ORP problems. Use one of the screening tests and follow the instructions below if the subject water has reducing properties that will require additional oxidants.

#### NOTICE

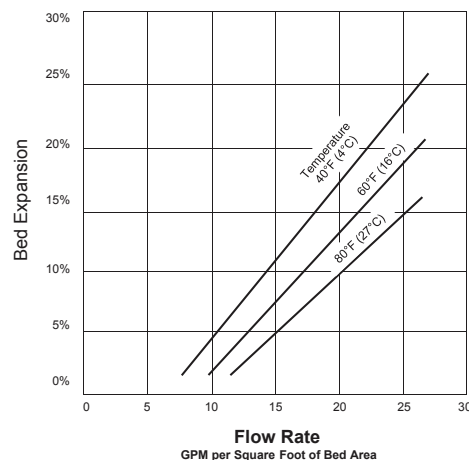
Watts recommends a small scale pilot test anytime the use of oxidizing agents are in question.



Certified to  
NSF/ANSI/CAN 61



Filox Backwash Bed Expansion



#### Simple Filox ORP Test Kit #T10496 Instruction

1. Rinse bottle provided with sample water to be tested
2. Place sample water into bottle up to the fill line
3. Invert reagent dropper bottle 3 times to ensure it is thoroughly mixed
4. Remove reagent cap and add 1 drop of reagent into the bottle containing water sample
5. Cap sample bottle and invert
6. Let solution stand for 15 minutes
7. If solution remains pink, Filox can likely be used without using additional oxidizers
8. If solution does not remain pink and turns yellow or clear, additional oxidizers such as chlorine should be added upstream of the Filox system.

Note: If treating high levels or multiple contaminants, additional oxidants may be required even if the water passes this simple test.

#### ORP Meter Test

##### NOTICE

Must use a calibrated ORP meter. Any reading that is above a negative 170 millivolts indicates that Filox can be used effectively, possibly without additional oxidants. Any reading falling below a negative 170 millivolts indicates that additional oxidants will be required.

See disclaimer on inside front cover



## Acid Neutralizing, Anthracite, Birm, Filter Sand, Garnet, Gravel, Greensand

### Ordering Information Sand

MODEL NO.	ORDERING CODES	DESCRIPTION	APPLICATION	CUBIC FEET PER BAG	CONTAINER WT. (LBS.)	PER PALLET
A7002A	68100350	Filter sand 0.45-0.55 mm	Sediment turbidity	0.5	50	56
A7003A	68100351	Filter sand 0.6-0.8 mm	Sediment, turbidity	0.5	50	56

### Gravel

MODEL NO.	ORDERING CODES	DESCRIPTION	APPLICATION	CUBIC FEET PER BAG	CONTAINER WT. (LBS.)	PER PALLET
A7005A	68100354	Gravel 1/8"x1/16" (#20) red marking	Sediment, bed support	0.5	50	56
A7006A	68100356	Gravel 1/4"x1/8" orange marking	Sediment, bed support	0.5	50	56
A7007A	68100357	Gravel 1/2"x1/4" black marking	Sediment, bed support	0.5	50	56

### Anthracite

MODEL NO.	ORDERING CODES	DESCRIPTION	APPLICATION	CUBIC FEET PER BAG	CONTAINER WT. (LBS.)	PER PALLET
A7050	68100361	Anthracite #1 (0.6-0.8 mm) orange bags	Sediment, turbidity	1	52	50
A7051	68100362	Anthracite #1.5 (0.85-0.95 mm) blue bags	Sediment, turbidity	1	52	50
A7052	68100363	Anthracite #2 (2-4 mm) yellow bags	Sediment, turbidity	1	52	50

### Garnet

MODEL NO.	ORDERING CODES	DESCRIPTION	APPLICATION	CUBIC FEET PER BAG	CONTAINER WT. (LBS.)	PER PALLET
A7084-50	68100367	Garnet #036 (0.5-0.65 mm)	Sediment, turbidity	0.37	50	80
A7085-50	68100368	Garnet #030/40 (0.32-0.39 mm)	Sediment, turbidity	0.37	50	80
A7086-50	68100369	Garnet #050 (0.24-0.33 mm)	Sediment, turbidity	0.37	50	80

### Birm

MODEL NO.	ORDERING CODES	DESCRIPTION	APPLICATION	CUBIC FEET PER BAG	CONTAINER WT. (LBS.)	PER PALLET
A8006	68100371	Birm (regular)	Iron, HS reduction	1	44	40

### Greensand Plus

MODEL NO.	ORDERING CODES	DESCRIPTION	APPLICATION	CUBIC FEET PER BAG	CONTAINER WT. (LBS.)	PER PALLET
A8041-P	68100378	Greensand Plus	Iron, HS reduction	0.5	42	50

### Neutralizer

MODEL NO.	ORDERING CODES	DESCRIPTION	APPLICATION	CUBIC FEET PER BAG	CONTAINER WT. (LBS.)	PER PALLET
A8012A	68100372	Flomag PWT Magnesium Oxide (similar to Corsex)	NSF Neutralizer	0.5	50	60
A8021-50	68100374	Calcite	NSF Neutralizer	0.5	50	60

### Misc.

MODEL NO.	ORDERING CODES	DESCRIPTION	APPLICATION	CUBIC FEET PER BAG	CONTAINER WT. (LBS.)	PER PALLET
A8014-FL	68100373	Filter Lite	Sediment, turbidity	2	50	40

## Cartridges

Watts offers cartridges and filters from the companies and brands of C-Max®, Flowmatic®, Pentair, Intelifil®, Enpress®, and Watts, among others.

### Carbon Cartridges Selection Guide

Carbon Cartridges Selection Guide							Reduction of		
Model No.	Ordering Code	Brands	OD (IN)	Length (IN)	Flow Rate (GPM)	Micron Rating (Nominal)	Chlorine Reduction Gallon Rating*	VOC	Lead
2-1/2 IN OD Cartridges									
S7704A	68107638	Pentair	2 1/2	4 7/8	0.5	5	2,500		
F109009	68101466	Watts	2 1/2	9 3/4	1	5	10,000		
S7700A	68107635	Pentair	2 1/2	9 7/8	1	5	5,000		
F109020	68101468	Watts	2 1/2	20	2	5	20,000		
2-3/8 IN OD Cartridges									
S7648	68107632	Pentair	2 3/8	20	10	5			
2-7/8 IN OD Cartridges									
MAXCL-975	68105668	C-MAX	2 7/8	9 3/4	1	1	20,000		
MAXETW-975	68105674	C-MAX	2 7/8	9 3/4	1	5	10,000		
MAXT-975	68105683	C-MAX	2 7/8	9 3/4	1	5	10,000		
S7708	68107639	Pentair	2 7/8	9 3/4	1	20	5,000		
MAXCL-20	68105667	C-MAX	2 7/8	20	2	1	45,000		

**Note:** For individual chlorine claims see individual product page

## Carbon Cartridges Selection Guide — cont.

Carbon Cartridges Selection Guide — cont.							Reduction of		
Model No.	Ordering Code	Brands	OD (IN)	Length (IN)	Flow Rate (GPM)	Micron Rating (Nominal)	Chlorine Reduction Gallon Rating*	VOC	Lead
4-1/2 IN OD Cartridges									
WCBFF975	68108665	Watts	4 1/2	9 3/4	3	5	25,000		
S7815	68107669	Pentair	4 1/2	20	4	25	100,000		
GAC-BB20	68102565	Watts	4 1/2	20	5	-	15,000		
WCBFF20	68108664	Watts	4 1/2	20	7	5	55,000		
4-5/8 IN OD Cartridges									
MAXCL-FF975	68105670	C-MAX	4 5/8	9 3/4	3	1	80,000		
S7811XA	68107666	Pentair	4 5/8	20	4	5	44,000		
MAXCL-FF20	68105669	C-MAX	4 5/8	20	7	1	160,000		
Inline Encapsulated Cartridges									
AICRO	68100424	Watts	2	10	0.75		✓		
AICRO-JGK	68100426	Watts	2	10	0.75		✓		
GS10CAL/ROB	68102576	Watts	2	10	0.75		✓		
SCL10	68107691	Watts	2	10	0.75		✓		
K2533JJ	68103729	Watts	2	10	0.75		✓		
Quick-Change Encapsulated Proprietary Cartridges									
WQCCC10	68108776	Watts	2 1/2	10		5	1,500		
WQCCC11	68108777	Watts	2 1/2	11		5	2,000		
WQCGAC11	68108795	Watts	2 1/2	11			✓	✓	
WQCCC13	68108779	Watts	2 1/2	13		5	2,500		
WQCGAC13	68108796	Watts	2 1/2	13			✓	✓	

**Note:** For individual chlorine claims see individual product page

## The Watts ChloraBlock Filter

*High Performance Coconut Shell Catalytic Carbon Block*

The Watts ChloraBlock Filter is specially designed to reduce chloramines using coconut shell catalytic carbon block.

### Innovative Features & Benefits

- Large quantity of catalytically-active Nitrogen groups for highly effective chloramine reduction
- Manufactured from advanced, high-performance media
- Unique binder system maximizes availability of catalytic sites
- 1 µm nominal filtration
- High dirt holding capacity
- No carbon fine release
- Low pressure drop
- Ideal for commercial & industrial POU and POE applications
- Greater carbon surface area
- Backed by Watts 40+ years of water quality expertise



The filter's enhanced catalytic functionality has 4 times the capacity for reducing chloramines than standard carbon blocks and 2 times the capacity for reducing chlorine over standard activated carbon.

## The Watts ChloraBlock Filter

### About Chloramine

Chloramine, an alternative to chlorine, is widely used as a residual disinfectant to maintain water safety. Chloramine is formed by mixing chlorine with ammonia, creating a more stable and less reactive compound than chlorine alone. While this stability reduces the formation of Disinfection By Products (DBPs) and provides longer-lasting disinfection, chloramine is difficult to remove using conventional filtration technology. In addition, because chloramine is a more stable chemical, systems designed for reducing chlorine are not effective with chloramine. Effective reduction of chloramine requires catalytic carbons, or surface-modified carbons with active catalytic sites of Nitrogen groups attached to the vast surface of the activated carbon.

### Watts ChloraBlock Filter Models

MODEL NO.	ORDERING CODE	TYPE	OD	LENGTH	MICRON RATING*	FLOW RATE	CHLORINE REDUCTION**	CHLORAMINE REDUCTION***	# / CASE
WCB10-CHLORA	68108655	Standard Wall	2 3/4"	9 3/4"	1 nominal	1 gpm	>25,000 gal @ 1 gpm	3,400 gal @ 0.5 gpm	12

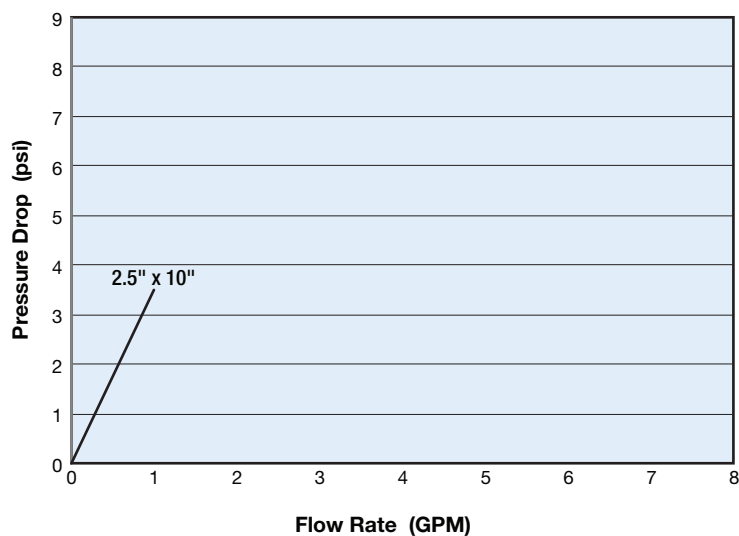
\* Nominal micron rating for all above - 1 micron

\*\* 2ppm free chlorine > 90% reduction

\*\*\* 3ppm monochloramine > 85% reduction

### ChloroBlock Filter Applications

- Residential drinking water
- Food and Office Coffee Service
- Aquaculture: Fish, Amphibians, Reptiles
- Pharmaceutical & biotech
- Breweries & wineries
- General commercial/industrial water



## Carbon Block Filters - C-Max

Full line of solid block activated carbon cartridges for water treatment.

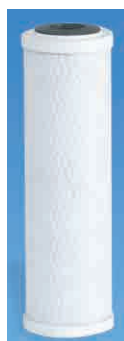


Standard cartridges

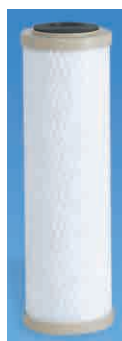


Full-Flow(B-B)

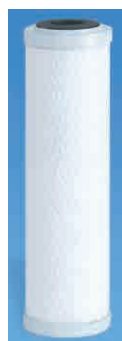
Full Product Line With Color Coded End Caps To Indicate Cartridge Type



MAX-ETW



MAX-C



MAX-T



MAX-CL

### Cartridge Selection Guide

CARTRIDGE TYPE	WALL	CARBON TYPE	MICRON	PARTICLE SIZE	VERY HIGH SEDIMENT REMOVAL	VERY HIGH CHLORINE REDUCTION	VOCs	LEAD
MAXETW	Thick	Coconut shell	5	Medium				
MAXC	Thick	Coconut shell	1	Fine				
MAXT	Thick	Coconut shell	5	Medium				
MAXCL	Thick	Coconut shell	1	Fine		•		

C-MAX® carbon block cartridges are tested and certified by NSF International under NSF / ANSI Standard 42 for materials only. Performance claims are supported by company test results. (Model # MAXETW-30 is not certified by NSF International.)

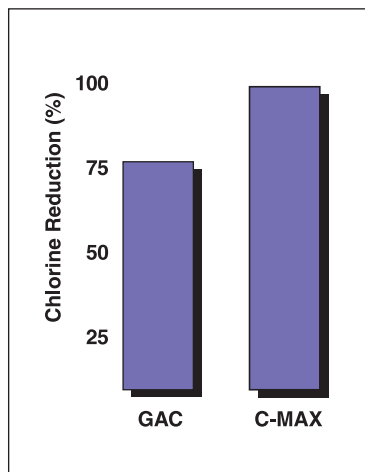
#### NOTICE

C-MAX cartridges are rated for temperatures to 165°F (74°C).



## Carbon Block Filters - C-Max

Full line of solid block activated carbon cartridges for water treatment.



High Chlorine Reduction

### C-MAX®

***Your best choice when both price and performance are required!***

Chlorine reduction with MAXETW carbon block cartridges is dramatically greater than other cartridge types, including granular activated carbon cartridges. The above data is typical for GAC and C-MAX cartridges during their usable life.

MAX-ETW, Economical, thick wall carbon block cartridges for Chlorine taste and odor

MODEL NO.	ORDERING CODE	TYPE	OD	LENGTH	MICRON RATING	CHLORINE REDUCTION	NO. / CASE
MAXETW-975	68105674	Thick Wall	2-7/8"	9-3/4"	5 nominal	10,000 gal @ 1 gpm	12

MAX-C, Thick wall carbon block cartridges for fine particles & extended Chlorine taste & odor reduction

MODEL NO.	ORDERING CODE	TYPE	OD	LENGTH	MICRON RATING	CHLORINE REDUCTION	NO. / CASE
MAXC-975	68105671	Long life	2-7/8"	9-3/4"	1 nominal	20,000 gal @ 1 gpm	12

## Carbon Block Filters - C-Max

Full line of solid block activated carbon cartridges for water treatment.

MAX-T, Acid washed coconut shell carbon block cartridges for RO post treatment and improved, sweeter taste

MODEL NO.	ORDERING CODE	TYPE	OD	LENGTH	MICRON RATING	CHLORINE REDUCTION	NO. / CASE
MAXT-975	68105683	Acid washed	2-7/8"	9-3/4"	5 nominal	10,000 gal @ 1gpm	12

MAX-CL, Thick wall carbon block for long life and high chlorine reduction. Reduces tastes, odors, fine particles. The best choice when a “super chlorine guzzler” is needed!

MODEL NO.	ORDERING CODE	TYPE	OD	LENGTH	MICRON RATING	CHLORINE REDUCTION	NO. / CASE
MAXCL-975	61805668	Thick Wall	2-7/8"	9-3/4"	1 nominal	20,000 gal @ 1 gpm	12
MAXCL-20	61805667	Thick Wall	2-7/8"	20"	1 nominal	45,000 gal @ 2 gpm	6
MAXCL-FF975	61805670	Thick Wall	4-5/8"	9-3/4"	1 nominal	80,000 gal @ 3 gpm	4
MAXCL-FF20	68105669	Thick Wall	4-5/8"	20"	1 nominal	160,000 gal @ 7 gpm	6

Premium quality and economically priced C-Max<sup>®</sup> cartridges are in stock for immediate shipment!

## Carbon Block Filters - Watts

*Thick wall carbon construction for superior performance. Low cost for economy!*

Top-of-the-line coconut shell carbon block filter cartridge for chlorine, taste, odor and sediment reduction.

- Competitively priced!
- Outperform GAC cartridges four ways:
  1. Superior chlorine reduction
  2. Lower pressure drop
  3. Will not channel
  4. Lower cost
- 100% Coconut shell Carbon
- >90% chlorine reduction\*
- FDA grade components & materials

### Recommended Flow Rate

MODEL NO.	ORDERING CODE	OD	LENGTH	GPM
F109009	68101466	2.5"	9-3/4"	1
F109020	68101468	2.5"	20"	2
WCBFF975	68108665	4.5"	9-3/4"	3
WCBFF20	68108664	4.5"	20"	7

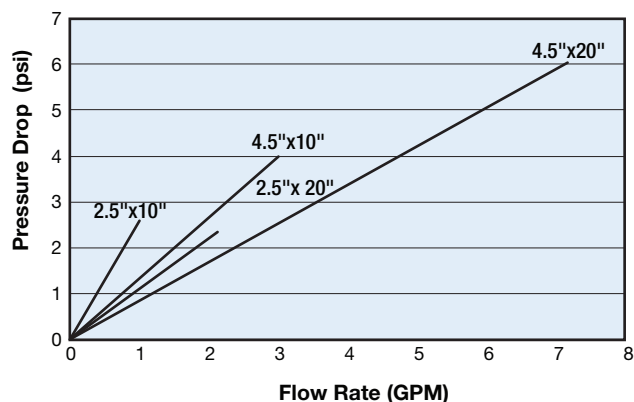
Maximum operating pressure: 125 PSIG  
 Operating temperature: 50° F to 125° F  
 10° C to 52° C

\*Performance tested @ flow with 2ppm chlorine.

\* Tested and verified by independent laboratory testing.



**Initial Pressure Drop**



MODEL NO.	ORDERING CODE	TYPE	OD	LENGTH	MICRON RATING*	CHLORINE REDUCTION*	NO. / CASE
F109009	68101466	Thick Wall	2.5"	9-3/4"	5 nominal	10,000 gal @ 1 gpm	25
F109020	68101468	Thick Wall	2.5"	20"	5 nominal	20,000 gal @ 1 gpm	25
WCBFF975	68108665	Thick Wall	4.5"	9-3/4"	5 nominal	25,000 gal @ 3 gpm	4
WCBFF20	68108664	Thick Wall	4.5"	20"	5 nominal	55,000 gal @ 7 gpm	4

## Carbon Filters – Pentair

MODEL NO.	ORDERING CODE	DESCRIPTION
S7700A	68107635	AC PAPER 9 7/8 IN C1 T AND O 24 CASE NSF
S7704A	68107638	AC PAPER 4 7/8 IN C2 T AND O 24 CASE
S7722A	68107644	AC BLOCK 9 7/8 IN .5M CBC-10 12 CASE
S7811XA	68107666	BB AC BLOCK 20 IN 5M EP-20BB EPSILON 4 CASE
S7708	68107639	AC GRANULAR 9 7/8 IN GAC-10 LIGNITE 12 CASE
S7812	68107667	BB AC GRANULAR 10 IN GAC-BB 8 CASE

## GAC Filters – Flowmatic

Water Washed Coconut Shell Granular Activated carbon Cartridges (GAC)

MODEL NO.	ORDERING CODE	TYPE	O.D.	LENGTH	CAPACITY (GALS.)	NO. / CASE
GAC-BB20	68102565	GAC	4-1/2"	20"	15,000	4

## Inline Filters

*Inline filters for reverse osmosis systems, ice makers and other water treatment needs.*

### Inline Filters

For pre & post RO and ice maker filtration.

- AICRO® (our best selling in-line filter)
- AICRO-JGK\* (With J. Guest fittings.)

\*Coconut shell activated carbon. Rated for flow rates to 0.75 GPM and 1,500 gallons capacity



### Coconut Shell GAC

MODEL NO.	ORDERING CODE	O.D.	LENGTH	MEDIA	TYPE	FITTING SIZE	FITTING TYPE	NO./CASE
AICRO	68100424	2"	10"	GAC	Coconut shell	1/4"	FNPT	25
AICRO-JGK	68100426	2"	10"	GAC	Coconut shell	1/4"	Quick ct	25
CL6ROT33	68101051	2"	6"	GAC	Acid wash coconut shell	1/4"	FNPT	25
K2533JJ	68103729	2"	10"	GAC	Acid wash coconut shell	1/4"	J. Guest	25

### GAC With Phosphate For Scale Reduction

MODEL NO.	ORDERING CODE	O.D.	LENGTH	MEDIA	TYPE	FITTING SIZE	FITTING TYPE	NO./CASE
SCL10	68107691	2"	10"	GAC	Phosphate	1/4"	FNPT	25

### Inline Filters With GAC And Calcite To Raise TDS

MODEL NO.	ORDERING CODE	O.D.	LENGTH	MEDIA	TYPE	FITTING SIZE	FITTING TYPE	NO./CASE
GS10CAL/ROB	68102576	2"	10"	GAC	With Calcite	1/4"	FNPT	25

#### **⚠ WARNING**

Do not use filters listed in this section with water that is microbiologically unsafe or unknown quality without proper disinfection before or after the filter.

## Sediment Cartridges Selection Guide

Sediment Cartridges Selection Guide							Filter Style		
							Pleated	Spun - Melt Blown	String Wound
Model No.	Ordering Code	Brands	OD (IN)	Length (IN)	Micron Rating (Nominal)	Flow Rate (GPM)			
2-1/2 IN OD Cartridges									
FPMB1-5	68102325	FlowPro	2 1/2	5	1	1		✓	
FPMB5-5	68102342	FlowPro	2 1/2	5	5	2		✓	
FPMBG-5-975	68102351	FlowPro	2 1/2	9 3/4	5	5		✓	
FPP-5-975-DOE	68102389	Flow-Max HP	2 1/2	9 3/4	5		✓		
FPMBG-20-975	68102349	FlowPro	2 1/2	9 3/4	20	6		✓	
FPMB5-978	68102343	FlowPro	2 1/2	9 7/8	5	5		✓	
FPMB1-978	68102326	FlowPro	2 1/2	9 7/8	1	3		✓	
FPMB10-978	68102330	FlowPro	2 1/2	9 7/8	10	5		✓	
FPMB20-978	68102335	FlowPro	2 1/2	9 7/8	20	6		✓	
FPMB50-978	68102348	FlowPro	2 1/2	9 7/8	50	9		✓	
FPP-1-10-222	68102368	Flow-Max HP	2 1/2	10	1		✓		
SF1-978	68107731	Watts	2 1/2	10	1				✓
FPP-5-10-222	68102382	Flow-Max HP	2 1/2	10	5		✓		
SF5-978	68107748	Watts	2 1/2	10	5				✓
SF20-978	68107741	Watts	2 1/2	10	20				✓
SF50-978	68107752	Watts	2 1/2	10	50				✓
FPP-0.45-20-DOE	68102366	Flow-Max HP	2 1/2	20	0.45		✓		
FPMB1-20	68102322	FlowPro	2 1/2	20	1	6		✓	
SF1-20	68107727	Watts	2 1/2	20	1				✓
FPMB5-20	68102337	FlowPro	2 1/2	20	5	10		✓	
SF5-20	68107744	Watts	2 1/2	20	5				✓
FPMB20-20	68102331	FlowPro	2 1/2	20	20	12		✓	
SF20-20	68107738	Watts	2 1/2	20	20				✓
FPMB50-20	68102345	FlowPro	2 1/2	20	50	18		✓	
SF50-20	68107750	Watts	2 1/2	20	50				✓
FPMB5-2925	68102339	FlowPro	2 1/2	29 1/2	5	15		✓	
FPP-0.2-30-DOE	68102361	Flow-Max HP	2 1/2	30	0.2		✓		
FPMB1-30	68102323	FlowPro	2 1/2	30	1	9		✓	
SF1-30	68107729	Watts	2 1/2	30	1				✓
FPMB5-30	68102340	FlowPro	2 1/2	30	5	15		✓	
SF5-30	68107746	Watts	2 1/2	30	5				✓



## Sediment Cartridges Selection Guide cont.

							Filter Style		
Model No.	Ordering Code	Brands	OD (IN)	Length (IN)	Micron Rating (Nominal)	Flow Rate (GPM)	Pleated	Spun - Melt Blown	String Wound
<b>2-1/2 IN OD Cartridges (cont.)</b>									
FPMB20-30	68102332	FlowPro	2 1/2	30	20	18		✓	
SF20-30	68107740	Watts	2 1/2	30	20				✓
FPMB50-30	68102346	FlowPro	2 1/2	30	50			✓	
FPF-0.2-40-222	68102362	Flow-Max HP	2 1/2	40	0.2		✓		
FPMB1-40	68102324	FlowPro	2 1/2	40	1	12		✓	
SF1-40	68107730	Watts	2 1/2	40	1				✓
FPMB5-40	68102341	FlowPro	2 1/2	40	5	20		✓	
SF5-40	68107747	Watts	2 1/2	40	5				✓
FPMB20-40	68102333	FlowPro	2 1/2	40	20			✓	
FPMB50-40	68102347	FlowPro	2 1/2	40	50			✓	
<b>2-3/4 IN OD Cartridges</b>									
WPC1-975	68108707	Watts	2 3/4	10	1	4	✓		
WPC5-975	68108723	Watts	2 3/4	10	5	7	✓		
WPC20-975	68108714	Watts	2 3/4	10	20	8	✓		
WPC50-975	68108729	Watts	2 3/4	10	50	10	✓		
WPC1-20	68108704	Watts	2 3/4	20	1	8	✓		
WPC5-20	68108720	Watts	2 3/4	20	5	14	✓		
WPC20-20	68108711	Watts	2 3/4	20	20	16	✓		
WPC50-20	68108726	Watts	2 3/4	20	50	20	✓		
WPC5-2925	68108721	Watts	2 3/4	29 1/4	5	21	✓		
WPC20-2925	68108712	Watts	2 3/4	29 1/4	20	24	✓		
WPC50-2925	68108727	Watts	2 3/4	29 1/4	50	30	✓		
WPC5-40	68108722	Watts	2 3/4	40	5	28	✓		

## Sediment Cartridges Selection Guide cont.

Sediment Cartridges Selection Guide cont.							Filter Style		
Model No.	Ordering Code	Brands	OD (IN)	Length (IN)	Micron Rating (Nominal)	Flow Rate (GPM)	Pleated	Spun - Melt Blown	String Wound
4-1/2 IN OD Cartridges									
WPC1FF975	68108709	Watts	4 1/2	9 3/4	1	10	✓		
FPMB-BB1-10	68102314	FlowPro	4 1/2	9 3/4	1			✓	
WPC5FF975	68108733	Watts	4 1/2	9 3/4	5	15	✓		
WPC20FF975	68108717	Watts	4 1/2	9 3/4	20	15	✓		
WPC50FF975	68102316	Watts	4 1/2	9 3/4	50	15	✓		
FPMB-BB50-10	68102320	FlowPro	4 1/2	9 3/4	50			✓	
SF1-10-425	68107726	Watts	4 1/2	10	1				✓
SF5-10-425	68107743	Watts	4 1/2	10	5				✓
S7805	68107658	Pentair	4 1/2	10	20	10	✓		
SF20-10-425	68107737	Watts	4 1/2	10	20				✓
S7800	68107655	Pentair	4 1/2	10	30	10	✓		
SF50-10-425	68107749	Watts	4 1/2	10	50				✓
WPC1FF20	68108708	Watts	4 1/2	20	1	15	✓		
FPMB-BB1-20	68102315	FlowPro	4 1/2	20	1			✓	
SF1-20-425	68107728	Watts	4 1/2	20	1				✓
WPC5FF20	68108732	Watts	4 1/2	20	5	25	✓		
FPMB-BB5-20	68102319	FlowPro	4 1/2	20	5			✓	
SF5-20-425	68107745	Watts	4 1/2	20	5				✓
WPC20FF20	68108716	Watts	4 1/2	20	20	25	✓		
FPMB-BB20-20	68102317	FlowPro	4 1/2	20	20			✓	
SF20-20-425	68107739	Watts	4 1/2	20	20				✓
WPC50FF20	68108730	Watts	4 1/2	20	50	25	✓		
FPMB-BB50-20	68102321	FlowPro	4 1/2	20	50			✓	
SF50-20-425	68107751	Watts	4 1/2	20	50				✓
Quick-Change Encapsulated Proprietary Cartridges									
WQCSC10	68108816	Watts	2 1/2	10	5				
WQCSC11	68108818	Watts	2 1/2	11	5				
WQCSC13	68108819	Watts	2 1/2	13	5				

## FlowPro® Melt Blown Cartridges

### Features & Benefits

- Low cost
- Excellent chemical resistance
- Food grade for food and beverages
- No media migration
- High dirt holding capacity
- Wide range of lengths
- Five micron ratings

### Applications

- Potable water
- Beverages
- Pre-filtration for RO
- Fine chemicals
- Electronics
- Metal finishing
- Plating solutions
- And more!

Best Seller  
and  
Value Priced!

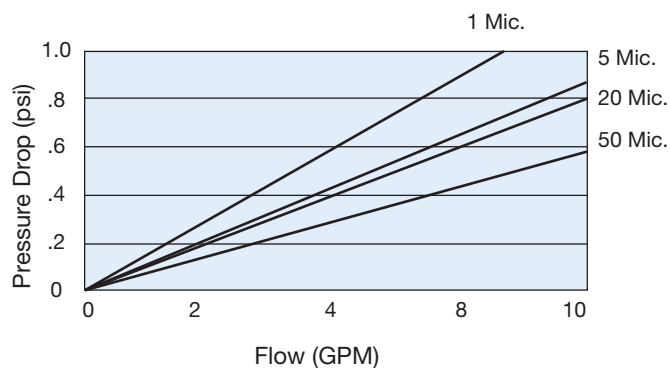


### Specifications

Material	Melt blown polypropylene
Maximum temperature	140° F / 60° C
Maximum pressure	40 PSID
Recommended change out	30 PSID
Maximum flow rate	2-8 GPM based on micron
Cartridge packaging	Shrink wrapped for purity



FlowPro Melt Blown Cartridges  
are tested and certified by WQA  
against NSF/ANSI Standards 42 and 372.



## Flow-Pro® Melt Blown Cartridges

Standard Diameter (2-1/2")

5"

MODEL	ORDERING CODE	LENGTH	OD	MICRON	NO. / CASE
FPMB1-5	68102325	5"	2-1/2"	1	48
FPMB5-5	68102342	5"	2-1/2"	5	48

9-7/8"

FPMB1-978	68102326	9-7/8"	2-1/2"	1	48
FPMB5-978	68102343	9-7/8"	2-1/2"	5	48
FPMB10-978	68102330	9-7/8"	2-1/2"	10	48
FPMB20-978	68102335	9-7/8"	2-1/2"	20	48
FPMB50-978	68102348	9-7/8"	2-1/2"	50	48

20"

FPMB1-20	68102322	20"	2-1/2"	1	24
FPMB5-20	68102337	20"	2-1/2"	5	24
FPMB20-20	68102331	20"	2-1/2"	20	24
FPMB50-20	68102345	20"	2-1/2"	50	24

29-1/4"

FPMB5-2925	68102339	29-1/4"	2-1/2"	5	24
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30"

FPMB1-30	68102323	30"	2-1/2"	1	24
FPMB5-30	68102340	30"	2-1/2"	5	24
FPMB20-30	68102332	30"	2-1/2"	20	24
FPMB50-30	68102346	30"	2-1/2"	50	24

40"

FPMB1-40	68102324	40"	2-1/2"	1	24
FPMB5-40	68102341	40"	2-1/2"	5	24
FPMB20-40	68102333	40"	2-1/2"	20	24
FPMB50-40	68102347	40"	2-1/2"	50	24

### Full-Flow 9-3/4" x 4-1/2" O.D. Cartridges

MODEL NO.	ORDERING CODE	LENGTH	OD	MICRON	NO. / CASE
FPMB-BB1-10	68102314	9-3/4"	4-1/2"	1	24
FPMB-BB5-10	68102318	9-3/4"	4-1/2"	5	24
FPMB-BB20-10	68102316	9-3/4"	4-1/2"	20	24
FPMB-BB50-10	68102320	9-3/4"	4-1/2"	50	24

### Full-Flow 20"x 4-1/2" O.D. Cartridges

MODEL NO.	ORDERING CODE	LENGTH	OD	MICRON	NO. / CASE
FPMB-BB1-20	68102315	20"	4-1/2"	1	12
FPMB-BB5-20	68102319	20"	4-1/2"	5	12
FPMB-BB20-20	68102317	20"	4-1/2"	20	12
FPMB-BB50-20	68102321	20"	4-1/2"	50	12

### Grooved Cartridges For Increased Surface Area

MODEL NO.	ORDERING CODE	LENGTH	OD	MICRON	NO. / CASE
FPMBG-5-975	68102351	9-3/4"	2-1/2"	5	48
FPMBG-20-975	68102349	9-3/4"	2-1/2"	20	48

## Pleated Filter Cartridges – Flow-Max HP Series

### High Efficiency Pleated Filter Cartridges

Flow-Max HP series filter cartridges are cost effective, disposable, filter elements for a wide range of applications. Flow-Max HP cartridges are constructed of highly efficient pleated polypropylene filter media with extended filter area to provide high flow rates, low pressure drop and increased dirt holding capacity.

#### Features

- 100% polypropylene
- Ratings from 0.2 to 50 micron
- FDA listed polypropylene components
- Removal efficiencies to 99.98%
- High surface area
- Long service life & reduced maintenance costs
- Fixed pore construction for reliability

#### Applications

- High purity water
- Traps for DI resin
- Electronics
- Pre filtration for RO
- Magnetic tape coatings
- Aqueous solutions
- Plating solutions
- Chemicals
- Cosmetics
- Inks
- Food & beverage
- Bottled water
- Edible oils
- Waste water

#### Specifications

COMPONENTS	DATA
Filter media	Polypropylene
End caps	Polypropylene
Center tubes	Polypropylene
Cage	Polypropylene
Gaskets & o-rings	EPDM, standard. (Buna-N, Viton and Silicone are optional.)
Micron ratings	0.2, 0.45, 1, 2, 5, 10, 25 & 50
Operating temperature	175° F (80° C) maximum
Collapse pressure	130 psid (8.9 bar) maximum
Change out	35 psid (2.4 bar) maximum
FDA	All materials comply with FDA 174.5, 177.1520 & 177.1630 for contact with foods & beverages

#### Dimensions

Nominal lengths	4-7/8", 9-3/4", 10", 20", 30" & 40"
Outside diameter	2.5" (6.35 cm)
Inside diameter	1.0" (2.54 cm)

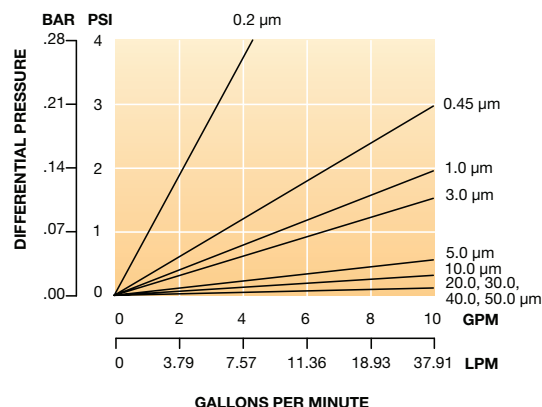


#### Filter Removal Efficiency

BETA RATIO	10000	5000	100	50	10
EFFICIENCY	99.99%	99.98%	99%	98%	90%
0.2 micron	0.35	0.2	0.1	----	----
0.45	0.6	0.45	0.3	0.2	----
1 micron	1.2	1.0	0.6	0.3	0.25
2 micron	2.5	2.0	1.5	1.0	0.8
5 micron	8.0	5.0	4.0	3.0	2.0
10 micron	13.0	10.0	8.0	7.0	5.0
25 micron	32.0	25.0	19.0	15.0	13.0
50 micron	66.0	50.0	44.0	32.0	26.0

Relative performance data was developed using laboratory tests, which may be used for guidelines in cartridge selection. The single-pass test method was used with particle counters and 3 GPM flow per 10" cartridge. Results vary, and actual field tests may be necessary to determine final cartridge selection.

#### Initial pressure drop per 10" cartridge



DOE



222 or 226 / Flat



222 or 226 / Fin

## Pleated Filter Cartridges – Flow-Max HP Series

MODEL NO.	ORDERING CODE	MICRON	LENGTH	END CAP	NO./CASE	SHIP WEIGHT
FPP-1-20-DOE	68102371	1	20"	DOE	12	11 lbs.
FPP-5-975-DOE	68102389	5	9-3/4"	DOE	24	12 lbs.
FPP-5-10-222	68102382	5	10"	222 / flat	24	12 lbs.

**Note:** 2, 10, 25, and 50 micron ratings are also available by special order. (Substitute micron rating at appropriate place in product code.) Standard gaskets and o-rings are EPDM. Buna-N, Viton and Silicone are also available. (For special gaskets or o-rings, add "B" for Buna-N, "V" for Viton or "S" for Silicone at end of product code.) For 226 cartridges, substitute "226" for "222".



## Pleated Filter Cartridges – Watts

*Greater surface area, longer life, reduced filtration costs!*

Watts pleated cartridges outperform wound, spun, melt blown, resin bonded and other “depth” style filter elements because our pleated cartridges provide increased surface area, lower pressure drop and longer service life. Our 100% synthetic media is washable and cleanable, five micron and up, to reduce filtration costs.

### Features

- Filter media is pleated
- Cellulose-FREE, 100% synthetic media
- Wide range of lengths and micron ratings
- Individually wrapped for purity
- Washable and reusable, 5 micron and up
- Micron rating is embossed in the end cap
- Economical price

### Benefits

- More surface area for greater dirt holding capacity; lower initial pressure drop; higher flow rates; longer life; reduced filtration costs
- Superior performance with no additives or binders to break down which may cause foaming and filter degradation
- Full product line to satisfy your application
- Additional security at no additional charge
- Reduce filter replacement costs
- Easily identify standard OD replacements
- Reduced filter costs for higher profits



*Pleated cartridges have eight times the surface area as depth cartridges!*

**This is why Watts® pleated cartridges cost less to use,  
regardless of what they cost to buy!**

## Pleated Filter Cartridges – Watts

*Not all pleated cartridges perform the same!*

“Ours”



“Theirs”



VS.

The difference is the media!

Watts, cellulose-free, 100% synthetic filter media allows the pleats to retain their form, maintaining a large amount of surface area. This allows the cartridge to handle higher solids loading and flow rates with a lower pressure drop that increases the filter efficiency and life, while reducing filter change out costs and frequency.

VS.

The cellulose blended pleats collapsed on one another, blinding off large amounts of the cartridges surface area. Premature blinding of the surface area reduces the flow capacity and efficiency while it raises the differential pressure, and contributes to a limited filter life and frequent filter change outs.

### Flow Rates

Maximum flow rate guidelines for watts cartridges are shown below:

MICRON RATING (NOMINAL)	STANDARD CARTRIDGES (2-3/4" OD)			FULL-FLOW	
	9-3/4"	20"	29-1/4"	9-3/4"	20"
1 Micron	4	8	12	10	15
5 Micron	7	14	21	15	25
20 Micron	8	16	24	15	25
50 Micron	10	20	30	15	25

### Watts Pleated Specifications

Maximum temperature	140°F (60°C)
Minimum Temperature	40°F (4.4°C)
Maximum pressure	40 psid
Recommended change out	25 psid
Filter media (1 & 5 micron)	Polypropylene
Filter media (20 & 50 micron)	Polyester
Material - center tube	Polypropylene
Material - end caps	Molded Polyurethane
ID	1-1/6"

### Washable And Reusable

Watts pleated cartridges are washable and reusable, five micron and up to reduce filtration costs. For best results, direct spray into the pleats to dislodge the sediment.



Standard cartridges (2-3/4" OD)



Full-Flow Cartridges (4-1/2" OD)

### Standard 2-3/4" OD X 9-3/4" Length

MODEL NO.	ORDERING CODE	MEDIA TYPE	MICRON	MICRON IDENTIFIER	CASE / QTY
WPC1-975	68108707	Synthetic	1	Embossed	25
WPC5-975	68108723	Synthetic	5	Embossed	25
WPC20-975	68108714	Synthetic	20	Embossed	25
WPC50-975	68108729	Synthetic	50	Embossed	25

### Standard 2-3/4" OD X 20" Length

MODEL NO.	ORDERING CODE	MEDIA TYPE	MICRON	MICRON IDENTIFIER	CASE / QTY
WPC1-20	68108704	Synthetic	1	Embossed	25
WPC5-20	68108720	Synthetic	5	Embossed	25
WPC20-20	68108711	Synthetic	20	Embossed	25
WPC50-20	68108726	Synthetic	50	Embossed	25

### Standard 2-3/4" OD X 29-1/4" Length

MODEL NO.	ORDERING CODE	MEDIA TYPE	MICRON	MICRON IDENTIFIER	CASE / QTY
WPC5-2925	68108721	Synthetic	5	Embossed	25
WPC20-2925	68108712	Synthetic	20	Embossed	25
WPC50-2925	68108727	Synthetic	50	Embossed	25

### Standard 2-3/4" OD X 40" Length

MODEL NO.	ORDERING CODE	MEDIA TYPE	MICRON	MICRON IDENTIFIER	CASE / QTY
WPC5-40	68108722	Synthetic	5	Embossed	25

### Full-Flow 4-1/2" OD X 9-3/4" Length

MODEL NO.	ORDERING CODE	MEDIA TYPE	MICRON	MICRON IDENTIFIER	CASE / QTY
WPC1FF975	68108709	Synthetic	1	Embossed	18
WPC5FF975	68108733	Synthetic	5	Embossed	18
WPC20FF975	68108717	Synthetic	20	Embossed	18
WPC50FF975	68108731	Synthetic	50	Embossed	18

### Full-Flow 4-1/2" OD X 20" Length

MODEL NO.	ORDERING CODE	MEDIA TYPE	MICRON	MICRON IDENTIFIER	CASE / QTY
WPC1FF20	68108708	Synthetic	1	Embossed	9
WPC5FF20	68108732	Synthetic	5	Embossed	9
WPC20FF20	68108716	Synthetic	20	Embossed	9
WPC50FF20	68108730	Synthetic	50	Embossed	9

## String Wound (Standard / High temp)

*Exceptional value when depth filtration is required.*

### Features & Benefits

- Low cost
- Polypropylene media for chemical resistance
- Food grade ingredients for potable water
- No leachables to contaminate downstream
- Wide range of lengths and micron ratings
- Cartridges with stainless steel center tubes for temperature applications



MODEL NO.	LENGTH	LENGTH	OD	MICRON	NO. / CASE
SF5-978	68107748	9-7/8"	2-1/2"	5	25
SF20-978	68107741	9-7/8"	2-1/2"	20	25
SF50-978	68107752	9-7/8"	2-1/2"	50	25
SF1-20	68107727	20"	2-1/2"	1	25
SF5-20	68107744	20"	2-1/2"	5	25
SF20-20	68107738	20"	2-1/2"	20	25
SF50-20	68107750	20"	2-1/2"	50	15
SF1-30	68107729	30"	2-1/2"	1	15
SF5-30	68107746	30"	2-1/2"	5	25
SF20-30	68107740	30"	2-1/2"	20	15
SF1-40	68107730	40"	2-1/2"	1	10
SF5-40	68107747	40"	2-1/2"	5	25

### Full-Flow 4-1/2" OD Cartridges

MODEL NO.	LENGTH	LENGTH	OD	MICRON	NO. / CASE
SF1-10-425	68107726	9-3/4"	4-1/2"	1	8
SF5-10-425	68107743	9-3/4"	4-1/2"	5	8
SF20-10-425	68107737	9-3/4"	4-1/2"	20	8
SF50-10-425	68107749	9-3/4"	4-1/2"	50	8
SF1-20-425	68107728	20"	4-1/2"	1	4
SF5-20-425	68107745	20"	4-1/2"	5	4
SF20-20-425	68107739	20"	4-1/2"	20	4
SF50-20-425	68107751	20"	4-1/2"	50	4

## Specialty Cartridges Selection Guide

Model No.	Ordering Code	Brands	OD	Length	Micron Rating	Flow Rate (GPM)	Chlorine Reduction (Gallons)
<b>For Calcium &amp; Magnesium Reduction (Softening)</b>							
IF-SM-DI010C INTELIFIL, DI COLOR IND BLUE TO AMBER, 5000 mgI	68103453	Watts	2 1/2	10	10	1	
IF-SM-NIT010 INTELIFIL, 5000 MGL NITRATE REMOVAL	68103474	Watts	2 1/2	10	10	1	
IF-SM-WS010 INTELIFIL, SOFTENING CARTRIDGE, 19,000 mgI	68103485	Watts	2 1/2	10	10	1	
IF-SM-DI020C INTELIFIL, DI COLOR IND BLUE TO AMBER, 11,000 mgI	68103458	Watts	2 1/2	20	10	1	
IF-SM-DI010BC INTELIFIL, DI COLOR IND BLUE TO AMBER, 12,000 mgI	68103452	Watts	4 1/2	10	10	1	
IF-SM-WS010B INTELIFIL, SOFTENING CARTRIDGE, 47,000 mgI	68103486	Watts	4 1/2	10	10	1	
IF-SM-KDF85010 INTELIFIL, 1 LB KDF-85/GAC	68103470	Watts	4 1/2	10	10		10,000
IF-SM-KDF85020B INTELIFIL, 4 LB KDF85/GAC	68103473	Watts	4 1/2	20	10		40,000
<b>Refillable Cartridges (Fill with your choice of media)</b>							
RC-C-975-50	68107350	Watts	2.5	9 3/4			
RC-W-975-50	68107354	Watts	2.5	9 3/4			
RC-C-20-50	68107349	Watts	2.5	20			
RC-W-20-50	68107353	Watts	2.5	20			
RC-C-BB-975-50	68107352	Watts	4.5	9 3/4			
RC-W-BB-975-50	68107356	Watts	4.5	9 3/4			
RC-C-BB-20-50	68107351	Watts	4.5	20			
RC-W-BB-20-50	68107355	Watts	4.5	20			
<b>Showerhead for Chlorine, Lead, Arsenic, Calcium &amp; Magnesium Reduction</b>							
FMSHWR-KDF55	68102272	Watts					

## Specialty Cartridges – Intelifil

MODEL NO.	ORDERING CODEW	DESCRIPTION
IF-SM-DI010BC	68103452	IF 10 IN FULL FLOW 12K MGL DI COLOR IND BLUE TO AMBER
IF-SM-DI010C	68103453	IF 105000 MGL DI COLOR IND BLUE TO AMBER
IF-SM-DI020C	68103458	IF 20K 11K MGL DI COLOR IND BLUE TO AMBER
IF-SM-KDF85010	68103470	IF 10 IN 10000 GALLON 1 LB KDF-85 GAC CART
IF-SM-KDF85020B	68103473	IF 20 IN FULL FLOW 40000 GALLON 4 LB KDF85 GAC CART
IF-SM-NIT010	68103474	IF 10 IN 5000 MGL NITRATE REMOVAL CARTRIDGE
IF-SM-WS010	68103485	IF 10 IN 19000 MGL SOFTENING CARTRIDGE
IF-SM-WS010B	68103486	IF 10 IN FULL FLOW 47000 MGL SOFTENING CARTRIDGE



## Specialty Cartridges – Intelifil

### 9-3/4" X 2-1/2"

MODEL NO.	ORDERING CODE	DESCRIPTION
IF-SM-AA010	68103436	Activated Alumina- Fluoride Reduction
IF-SM-CC010	68103440	Calcite-Increase pH
IF-SM-CG010	68103446	Catalytic GAC- Chloramine/hydrogen sulfide reduction
IF-SM-DI010	68103450	Mixed Bed DI- Dimeralization (to lower TDS)
IF-SM-DI010C	68103453	Mixed Bed DI Color Indicator- Dimeralization (to lower TDS)
IF-SM-KDF010	68103461	1 lb KDF-55/GAC Chlorine Reduction (municipal water)
IF-SM-KDF85010	68103470	1 lb KDF-85/GAC Chlorine Reduction (well water)
IF-SM-NIT010	68103474	Nitrate Removal
IF-SM-SCI010	68103477	Polyphosphate- Scale Prevention
IF-SM-WS010	68103485	Softening- Hardness Reduction



### 20" X 2-1/2"

MODEL NO.	ORDERING CODE	DESCRIPTION
IF-SM-DI020	68103455	Mixed Bed DI- Dimeralization (to lower TDS)
IF-SM-DI020C	68103458	Mixed Bed DI Color Indicator- Dimeralization (to lower TDS)
IF-SM-KDF020	68103465	1 lb KDF-55/GAC Chlorine Reduction (municipal water)
IF-SM-SCI020	68103479	Polyphosphate- Scale Prevention
IF-SM-WS020	68103487	Softening- Hardness Reduction

### 9-3/4" X 4-1/2"

MODEL NO.	ORDERING CODE	DESCRIPTION
IF-SM-CC010B	68103441	Calcite-Increase pH
IF-SM-DI010B	68103451	Mixed Bed DI- Dimeralization (to lower TDS)
IF-SM-DI010BC	68103452	Mixed Bed DI Color Indicator- Dimeralization (to lower TDS)
IF-SM-KDF010B	68103463	1 lb KDF-55/GAC Chlorine Reduction (municipal water)
IF-SM-SCI010B	68103478	Polyphosphate- Scale Prevention
IF-SM-WS010B	68103486	Softening- Hardness Reduction

### 20" X 4-1/2"

MODEL NO.	ORDERING CODE	DESCRIPTION
IF-SM-CC020B	68103444	Calcite-Increase pH
IF-SM-CG020B	68103449	Catalytic GAC- Chloramine/hydrogen sulfide reduction
IF-SM-DI020B	68103456	Mixed Bed DI- Dimeralization (to lower TDS)
IF-SM-DI020BC	68103457	Mixed Bed DI Color Indicator- Dimeralization (to lower TDS)
IF-SM-KDF020B	68103467	1 lb KDF-55/GAC Chlorine Reduction (municipal water)
IF-SM-KDF85020B	68103473	1 lb KDF-85/GAC Chlorine Reduction (well water)
IF-SM-NIT020B	68103476	Nitrate Removal
IF-SM-SCI020B	68103480	Polyphosphate- Scale Prevention
IF-SM-WS020B	68103488	Softening- Hardness Reduction

## Specialty Filter Cartridges - Pentair

MODEL NO.	ORDERING CODE	DESCRIPTION
S7858	68107678	PHOSPHATE 9 7/8 IN CRYSTALS PCC-1 6 CASE

## Refillable Cartridges

*Plastic refillable canisters for activated carbon and other filter media for water treatment.*

### Refillable Canisters For Granular Media

Plastic refillable canisters for activated carbon and other granular filter media. Low cost and reusable! Made using FDA grade polypropylene. Available in white and clear.



### Refillable Canisters For Granular Filter Media

MODEL NO.	ORDERING CODE	LENGTH	OD	COLOR	VOLUME (ML)	VOLUME (CU. IN.)	NO. PER CASE
RC-C-975-50	68107350	9-3/4"	2-1/2"	Clear	803	49	24
RC-W-975-50	68107354	9-3/4"	2-1/2"	White	803	49	24
RC-C-20-50	68107349	20"	2-1/2"	Clear	1,786	109	24
RC-W-20-50	68107353	20"	2-1/2"	White	1,786	109	24
RC-C-BB-975-50	68107352	9-3/4"	4-1/2"	Clear	2,130	130	8
RC-W-BB-975-50	68107356	9-3/4"	4-1/2"	White	2,130	130	8
RC-C-BB-20-50	68107351	20"	4-1/2"	Clear	4,572	279	4
RC-W-BB-20-50	68107355	20"	4-1/2"	White	4,572	279	4

## Alkaline Water Filter

The innovative high-capacity, 3rd-party certified alkaline filter

### Innovative Features & Benefits

- Made in the USA
- Backed by 40+ years of water quality expertise
- Filter life up to 3,000 gallons or 18 months
- Controlled TDS release: 40ppm
- 3rd-party verification by IAPMO for the following specifications:
  - Filter life 18 to 24 months (vs. 6 months with competing filters)
  - Increases pH to levels between 8 and 9.5
  - Decreases ORP between -600 and -150
  - Mixture of 4 proprietary ceramic beads



Vertical installation recommended.

### Choosing the correct filter kit:

- 1/4" Kits fit most standard type RO systems where the Alkaline filter will be installed on a 1/4" tube between the ASO Valve and final in-line filter Tee fitting.
- 3/8" Kits are designed for most Manifold type RO systems where a 1/4" tube is not available and the Alkaline filter must be installed on a 3/8" tank tube.

Installation may vary and additional fittings may be needed in some applications.

### Ordering Information

MODEL NO.	ORDERING CODE	DESCRIPTION	INCLUDES
F560105	68101843	1/4" Alkaline Water Filter Kit	Filter, tubing, fittings & mounting clips
F105377	68101453	Alkaline Replacement Water Filter	Replacement alkaline filter only

## Shower Head Filters

### Great "add on sale"

The Flowmatic® shower filter is a great "add on sale", used to reduce chlorine from shower water. The media is 100% KDF 55, to provide superior performance.

### Dial-A-Date

Flowmatic shower filters come with a unique "save-the-date" ring, which is used to remind your customers when to change cartridges, buy moving the dial to the current month, plus six months.

### Features & Benefits

- Virtually eliminates chlorine from shower water.
- No chemical damage to hair!
- No dry skin!
- Uses KDF 55 media for superior performance.
- Available in an attractive retail box or plain cartons.
- Plastic components will not rust or corrode.
- Dial-A-Date ring reminds customers when to change cartridges.



### Ordering Information

MODEL NO.	ORDERING CODE	DESCRIPTION	NUMBER PER CARTON
FMSHWR-KDF55	68102272	Shower filter in retail box.	1

# DI Tanks, Fittings, Hose, Drop-In Screens

## Portable DI Exchange Tanks\*

MODEL NO.	ORDERING CODE	DESCRIPTION	SIZE	TOP OPENING	COLOR	CAPACITY CU.FT	WEIGHT (LBS)
C2014-N	68100764	XPI-25-3DS w/screen & band	9 x 42	2.5" #8	Natural	1.41	11.1
C2014B	68100766	XTA-45-3-1, DS4, IS-F & band	12 x 42	4.5" #8	Natural	2.61	16.9
C9022-3	68100893	XTA-45-3-1, DS4, IS-F & band	14 x 47	4.5" #8	Natural	3.65	26

\*Complete exchange tank package with head/manifold (as listed) and boot. 150 psi max 120°F max

## Park Quick Disconnect Unions

MODEL NO.	ORDERING CODE	DESCRIPTION	SIZE	PARK® FITTING NO
Q2005	68106577	Female union x hose barb	3/4"	UHB-75
Q2007	68106579	Male union x hose barb	3/4"	HB-75
Q2009	68106580	Male union x male NPT	3/4"	MA-75
Q2011	68106584	Female union x male NPT	3/4"	UMA-75
Q2015	68106589	Male union x hose barb	1"	HB-100
Q2016	68106591	Female union x hose barb	1"	UHB-100
Q2017	68106593	Male union x male NPT	1"	MA-100
Q2019	68106595	Female union x male NPT	1"	UMA-100
Q2010	68106582	3/4" & 1" Protective cap	1"	-
Q2012	68106586	3/4" & 1" Protective plug	1"	-
Q2014	68106588	3/4" & 1" O-ring 215 for Park QD's	1"	-

Max operating conditions: 160°F max @ 150 psi



Q2005



Q2007



Q2009



Q2010



Q2011



Q2012

## FDA hose for Hi-purity

MODEL NO.	ORDERING CODE	DESCRIPTION	SIZE	LENGTH
Q56075	68106616	PVC grey braided	3/4"	100'
Q56100	68106617	PVC grey braided	1"	100'
Q56150	68106620	PVC grey braided	1-1/2"	100'

## Drop-in Screens

MODEL NO.	ORDERING CODE	DESCRIPTION
D4005	68101194	PVC for 3/4" Flow-coupling or 3/4" Park Quick Disconnect



D4005

## Bladder Tanks (Fiberglass)

### Flexwave® Composite Tanks for RO Storage

- Large water chamber with longer life span design
- Butyl diaphragm on airbag with better air permeable prevention
- Better Chlorine resistant
- Max working pressure – 125 psi
- Max working temperature – 120°F



MODEL NO.	ORDER CODE	*CAPACITY (GAL.)	DIAMETER	HEIGHT	FITTING SIZE (NPT)	WEIGHT (LBS.)	DRAWDOWN 10 PSI PRE-CHARGE 50 PSI SUPPLY (GAL.)	DRAWDOWN 10 PSI PRECHARGE 60 PSI SUPPLY (GAL.)
FWR020	68102457	22	16.5"	34.10"	1" NPT	25	13.6	14.7
FWR040	68102458	40	21.4"	36.90"	1-1/4" NPT	38	24.7	26.8
FWR080	68102459	80	24.2"	64.10"	1-1/4" NPT	62	49.5	53.6

**Note:** All tanks are individually boxed.

### Flexwave® Steel Tanks for RO Storage

- Butyl diaphragm on airbag with better air permeable prevention
- Dome assemblage detached to tank with better dome welds to avoid leaks
- Max working pressure – 125 psi
- Max working temperature – 140°F



MODEL NO.	ORDER CODE	*CAPACITY (GAL.)	DIAMETER	HEIGHT	FITTING SIZE (NPT)	WEIGHT (LBS.)	DRAWDOWN 10 PSI PRECHARGE 50 PSI SUPPLY (GAL.)	DRAWDOWN 10 PSI PRE-CHARGE 60 PSI SUPPLY (GAL.)
FSR020	68102434	20	16"	29"	1" NPT	36	12.4	13.4
FSR040	68102436	44	21"	36.25"	1-1/4" NPT	67	27.3	29.5
FSR080	68102437	85	26"	44.5"	1-1/4" NPT	121	52.7	56.9
FWR-360	68102454	119	26"	60"	1-1/4" NPT	153	73.5	79.6

**Note:** All tanks are individually boxed.

\* Capacity presents total capacity, not water storage capacity.

## Bladder Tanks



FRO-132-WH

## RO Storage Tanks

MODEL NO.	ORDERING CODE	CAPACITY (GALS.)	DIAMETER	HEIGHT	FITTING SIZE (NPT)	MATERIAL	COLOR	SHIP. WT. (LBS.)
FRO-132-WH	68102431	4	12"	16"	1/4"	Metal	White	11
FRO-132-BL	68102430	4	12"	16"	1/4"	Metal	Blue	11
FRO-1070-BL	68102427	14	15.2"	22.5"	1/4"	Metal	Blue	24
FRO-1070-WH	68102428	14	15.2"	22.5"	1/4"	Metal	White	24
FRO-122-WH	68102429	3.2	10"	15"	1/4"	Metal	White	6.2



## Storage Tanks Polyethylene



MODEL NO.	ORDERING CODE	DESCRIPTION
C8009	68100877	165 GAL 31 IN X 56 IN 8 IN LID 2 IN DRAIN FDA
C8013	68100880	300 GAL 36 IN X 79 IN 16 IN LID 2 IN DRAIN FDA
C8017	68100882	500 GAL 48 IN X 72 IN 16 IN LID 2 IN DRAIN FDA

### Tank Level Float Switches

MODEL NO.	ORDERING CODE	DESCRIPTION
R2350-SD	68106980	High cutoff float - closed down, open up, 115 volts, 15 amps, no plug
R2353-SD	68106983	High cutoff float - closed down, open up, 115 volts, 15 amps, piggy back plug



## Retention Tanks Fiberglass

### Features:

- Convenient Inlet/Outlet piping connection at the top of the tank
- Inlet/Outlet Adapter easily accommodates the use of a vacuum breaker
- Inlet/Outlet Buttress thread for strength
- Full 1" blow down drain at lowest point of tank
- 360° degree drain orientation
- Black one piece polyethylene liner for impact and corrosion resistance
- 1¼" x 1½" PVC Straight Solvent Fitting Kit
- 1¼" Plastic Straight Male NPT Fittings
- Maximum Operating Pressure 75 psi (517 kPa)
- Maximum Operating Temperature 120°F (49°C)
- Maximum Allowable Operating Vacuum 0
- A Vacuum/Pressure Relief Valve of adequate size must be incorporated in the plumbing

### Retention Tanks

MODEL NO.	ORDERING CODE	CAPACITY (GAL)	TANK SIZE	SHIP. WT. (LBS.)
C52-C2251	68100866	80	21" x 67"	66
C52-C2252	68100867	120	24" x 78"	80

## Brine Tanks

*Watts brine tanks come fully assembled in your choice of round or square configuration in a variety of colors. We also offer a selection of brine control valves and components. Contact us today for assistance in finding the parts you need.*

### Fully Assembled Round Brine Tanks

MODEL NO.	ORDERING CODE	SIZE	COLOR	INTERNALS
G2001-1836A	68102475	18X36	Black	474 SBV w /well & tubing
G2002BS	68102491	18X40	Black	474 SBV w/ well, grid, tubing
G2003A	68102495	24X41	Black	2300 SBV, w/ well, grid, tubing
G2008C	68102509	39X48	Black	900 AIR CHECK
G2009A	68102512	30X50	Black	900 AIR CHECK

### Fully Assembled Square Brine Tanks

MODEL NO.	ORDERING CODE	SIZE	TANK & COVER	COVER	INCLUDED COMPONENTS (IN ADDITION TO TANK, COVER & TUBING)	NO./ CASE
WST-TB-1111SF38	68108959	11X11X38	Black	Blow molded	Overflow FTG, 2310 safety valve w/float, air check	1
G21517B	68110211	15X17X36	Black	Blow molded	Overflow FTG, 2310 safety valve w/float, air check	1



G2008

## Flowmatic - Plastic Filter Housing

### 5" Clear And Opaque Housings

MODEL NO.	ORDERING CODE	SIZE	PR	SUMP	CAP	PIPE SIZE	NO./ CASE	SHIPPING WT. (LBS.)	CARTON SIZE (")
FH500WW12	68102003	5"	No	White	White	1/2"	12	18	19x14x8



### All White Housings

MODEL NO.	ORDERING CODE	SIZE	PR	SUMP	CAP	PIPE SIZE	NO./ CASE	SHIPPING WT. (LBS.)	CARTON SIZE (")
FH4200WW14	68101982	10"	No	White	White	1/4"	12	24	19x14x13
FH4200WW38	68101987	10"	No	White	White	3/8"	12	24	19x14x13
FH4200WW12	68101979	10"	No	White	White	1/2"	12	24	19x14x13
FH4200WW12PR	68101981	10"	Yes	White	White	1/2"	12	24	19x14x13
FH4200WW34	68101983	10"	No	White	White	3/4"	12	24	19x14x13
FH7000WW38	68102009	20"	No	White	White	3/8"	6	26	17x12x24

### All Black Housings

MODEL NO.	ORDERING CODE	SIZE	PR	SUMP	CAP	PIPE SIZE	NO./ CASE	SHIPPING WT. (LBS.)	CARTON SIZE (")
FH4200BB14	68101954	10"	No	Black	Black	1/4"	12	24	19x14x13
FH4200BB34	68101955	10"	No	Black	Black	3/4"	12	24	19x14x13
HD4500BB34PR	68102654	10"	Yes	Black	Black	3/4"	12	38	22x17x13
FH8000BB34PR	68102011	20"	Yes	Black	Black	3/4"	6	33	18x12x24

### 10" Residential Blue / Black Housings

MODEL NO.	ORDERING CODE	SIZE	PR	SUMP	CAP	PIPE SIZE	NO./ CASE	SHIPPING WT. (LBS.)	CARTON SIZE (")
FH4200BL14	68101959	10"	No	Blue	Black	1/4"	12	24	19x14x13
FH4200BL14PR	68101960	10"	Yes	Blue	Black	1/4"	12	24	19x14x13
FH4200BL38	68101964	10"	No	Blue	Black	3/8"	12	24	19x14x13
FH4200BL38PR	68101965	10"	Yes	Blue	Black	3/8"	12	24	19x13x13
FH4200BL12	68101957	10"	No	Blue	Black	1/2"	12	24	19x14x13
FH4200BL12PR	68101958	10"	Yes	Blue	Black	1/2"	12	24	19x14x13
FH4200BL34	68101961	10"	No	Blue	Black	3/4"	12	24	19x14x13
FH4200BL34PR	68101962	10"	Yes	Blue	Black	3/4"	12	24	19x13x13

### Specifications

Material, sumps & caps	FDA grade polypropylene.
Material, o-rings	EPDM is standard; Viton is available as a spare part.
Maximum temperature (standard)	100°F (37.8°C)
Maximum temperature (full flow) and (valve in head)	100°F (37.8°C)
Minimum temperature	40°F (4°C)
Maximum pressure (standard)	100 psi (6.9 bar)
Maximum pressure (full flow)	90 psi (6.21 bar)
Maximum pressure (valve in head)	100 psi (6.9 bar)
Burst test	Tested to 500 psi. (150,000 cycles from 0 to 125 psi)

## Flowmatic - Plastic Filter Housing

### 20" Residential Blue / Black Housings

MODEL NO.	ORDERING CODE	SIZE	PR	SUMP	CAP	PIPE SIZE	NO./ CASE	SHIPPING WT. (LBS.)	CARTON SIZE (")
FH7000BL38	68102007	20"	No	Blue	Black	3/8"	6	26	17x12x24
FH7000BL12	68102005	20"	No	Blue	Black	1/2"	6	26	17x12x24



### 10" Commercial Blue / Black Housings

MODEL NO.	ORDERING CODES	SIZE	PR	SUMP	CAP	PIPE SIZE	NO./ CASE	SHIPPING WT. (LBS.)	CARTON SIZE (")
HD4500BL34	68102656	10"	No	Blue	Black	3/4"	12	38	22x17x13
HD4500BL34PR	68102657	10"	Yes	Blue	Black	3/4"	12	38	22x17x13

### 20" Commercial Blue / Black Housings

MODEL NO.	ORDERING CODES	SIZE	PR	SUMP	CAP	PIPE SIZE	NO./ CASE	SHIPPING WT. (LBS.)	CARTON SIZE (")
FH8000BL34	68102014	20"	No	Blue	Black	3/4"	6	33	18x12x24
FH8000BL34PR	68102015	20"	Yes	Blue	Black	3/4"	6	33	18x12x24

## Miscellaneous - Wrenches



### Wrenches

MODEL NO.	ORDERING CODES	DESCRIPTION	COLOR	NO./CASE
S7593P	68107617	SW-1 Wrench for Slim line Housing	Black	1
S7594P	68107618	SW-3 Wrench 10"BB	Black	1
S7595P	68107619	SW-4 Wrench 20"BB	Grey	1
F164003	68101522	Dual Filter/Membrane Housing Wrench	White	1
WR100	68108845	Housing Wrench 10" Standard	White	1
WR200	68108854	Housing Wrench 10" Heavy Duty	White	1

## Pentair - Mounting Brackets, Spanner Wrenches

MODEL NO.	ORDERING CODES	DESCRIPTION
S7570	68107611	BRACKET KIT FOR 3/4 IN MC-1A KIT
S7577	68107613	BRACKET KIT FOR BB
S7594P	68107618	SPANNER WRENCH SW-3 PLASTIC F 10 IN BB HOUSING

## Pentair - Plastic Filter Housings

### Specifications

#### Max Temperature

Slimline and Standard 10" and 20" 125°F

Big Blue 10" and 20" 100°F

#### Max Pressure

Slimline and Standard 10" and 20" 125 PSI

Big Blue 10" 100 PSI

Big Blue 20" 90 PSI



PENTEK  
Pentair Water



### 10" Housings

MODEL NO.	ORDERING CODES	PENTEK MODEL NO.	SIZE	DESCRIPTION	PIPE SIZE	NO./CTN.	SHIP WT. (LBS.)
S7520	68107574	158005	#10	Slim line blue w/pr	3/8"	12	26
S7537	68107584	158195	#10	Slim blue w/pr	1/2"	12	26
S7537A	68107585	158196	#10	Slim blue wo/pr	1/2"	12	26
S7509	68107564	150067	#10	Blue w/pr w/mb cap	3/4"	12	38
S7513	68107566	150071	#10	Clear w/pr w/mb cap	3/4"	12	35

### 20" Housings

MODEL NO.	ORDERING CODES	PENTEK MODEL NO.	SIZE	DESCRIPTION	PIPE SIZE	NO./CTN.	SHIP WT. (LBS.)
S7545	68107589	150069	#20	Blue w/pr w/mb cap	3/4"	8	38
S7546	68107590	150070	#20	Blue wo/pr w/mb cap	3/4"	8	38

### 10" Big Blue Housings

MODEL NO.	ORDERING CODES	PENTEK MODEL NO.	SIZE	DESCRIPTION	PIPE SIZE	NO./CTN.	SHIP WT. (LBS.)
S7555A	68107595	150237	#10	Big Blue w/pr	1"	6	33
S7557A	68107597	150238	#10	Big Blue wo/pr	1"	6	33

### 20" Big Blue Housings

MODEL NO.	ORDERING CODES	PENTEK MODEL NO.	SIZE	DESCRIPTION	PIPE SIZE	NO./CTN.	SHIP WT. (LBS.)
S7562A	68107599	150233	#20	Big Blue w/pr	1"	4	28
S7563A	68107602	150234	#20	Big Blue wo/pr	1"	4	28
S7564A	68107604	150235	#20	Big Blue w/pr	1.5"	4	30
S7565A	68107605	150236	#20	Big Blue wo/pr	1.5"	4	30

## Chemical Feed Pumps and Parts - Stenner

Self-priming, peristaltic type feed pumps for chlorine and pH adjustment chemicals.

### Peristaltic Type Feed Pumps

Stenner® peristaltic feed pumps will not loose prime because they are self priming. Pumps may operate at pressures up to 100 psi, and may be mounted vertically or horizontally. Tube lubrication is not required.



### Models

MODEL NO.	ORDERING CODES	TYPE	MODEL	GPD	PSI	VOLTAGE	INJECTION CHECK	TUBING (SUCTION & DISCHARGE)	SHIP WT.
T55-45MHP2	68108065	Single	45	3	100	120v/60hz	T55-UCDBINJ	1/4"	8
T55-45MHP10	68108063	Single	45	10	100	120v/60hz	T55-UCDBINJ	1/4"	8
T55-45MHP10-220	68108064	Single	45	10	100	220v/60hz	T55-UCDBINJ	1/4"	8
T55-85MHP40	68108069	Single	85	40	100	120v/60hz	T55-UCDBINJ	1/4"	8

### Parts

MODEL NO.	ORDERING CODES	DESCRIPTION	NUMBER PER PACKAGE
T55-UCCP201	68108092	Replacement tube #1	2
T55-UCCP202	68108093	Replacement tube #2	2
T55-UCDBINJ	68108095	Injection check valve for 1/4" tubing	1
T55-UC3ASYD	68108089	Roller assembly	1
T55-UCTHC2D	68108097	CHM FDR Stenner Tube Housing	1
T55-MCCVDBO	68108074	Check Valve Duck Bills	5



T55-MCCVDBO



T55-UC3ASYD



T55-UCDBINJ

## Chemical Tanks

MODEL NO.	ORDERING CODE	DESCRIPTION
T4120	68107986	SOLUTION TANK 15 GAL 14 IN X 24 IN UV BLUE
T4121	68107988	SOLUTION TANK 15 GAL 14 IN X 24 IN NAT
T4122	68107989	SOLUTION TANK 35 GAL NAT
T4123	68107990	SOLUTION TANK 35 GAL 18 IN X 32 IN BLUE
T5102	68108062	SOLUTION TANK 50 GAL 22 IN X 40 IN



T4120



T4122



G1015



## Water Treatment Chemicals and Cleaners

MODEL NO.	ORDERING CODE	DESCRIPTION
T2041	68107907	PRO-RES CARE 1QT BOTTLE 12 CASE
T2042	68107908	PRO-RES CARE 1GAL BOTTLE 4 CASE

## Watts Visual Test Kits

Watts® water quality Visual Test Kits provide a quick, portable, and convenient way to measure key common water quality test parameters. Accurate chemistry, patented delivery device, and easy to read comparator cards with instruction provide a reliable and easy-to-use solution for testing on site with instant and accurate result without having to bring water samples back to a chemistry laboratory.



MODEL NO.	ORDERING CODE	DESCRIPTION	SPECIFICATION
T10000-KIT	68107806	Fe <sup>+</sup> <sup>3</sup> , Fe <sup>+</sup> <sup>2</sup> , Mn, TA, pH, Cl <sub>2</sub> , TH, Comparator, and Carrying Case	Colorimetric
T10460	7100706	Total Hardness Kit	Colorimetric, Drop Count, 0-5000ppm/0-30gpg, >100 tests (depends on water hardness)
T10489	7100703	Total Alkalinity Kit	Colorimetric, 0-500 ppm, >100 tests
T10490	7100700	Total Iron (Fe <sup>+</sup> <sup>3</sup> ) Kit	Colorimetric, 0-9 ppm, > 100 tests
T10491	7100701	Ferrous Iron (Fe <sup>+</sup> <sup>2</sup> ) Kit	Colorimetric, 0-9 ppm, > 100 tests
T10492	7100704	pH Kit	Colorimetric, 6-8 ppm, >100 tests
T10493	7100702	Manganese Kit	Colorimetric, 0-10 ppm, >100 tests
T10494	7100705	Chlorine (Free & Total) Kit	Colorimetric, 0-6 ppm, >100 tests
T10496	7100707	Filox ORP Simple Test Kit	Visual, > 100 tests
T27035	7100709	Carrying Case	—
T29224	7100708	Comparator	—

## Water Test Kits

MODEL NO.	ORDERING CODE	DESCRIPTION
T3007	68107946	SOFT WATER SOAP TEST KIT
T3023	68107951	SOFCHECK F TOTAL HARDNESS 50 TESTS BOTTLE 12 CS
T3031	68107953	SDI TESTER WITH 10 FILTER DISCS
WTDS-3	68109020	TDS METER 0-9990 TEMP 0-80 DEG C ATC HAND HELD WITH CASE
TDS-999-MINI	68108387	TDS POCKET METER 1-1999 PPM 3V BATTERY INCLUDED

## Top Quality Designer Faucets

Large Selection of Designer Faucets to Suit Your Taste

Why Crawl Under The Sink When  
You Can Install It From The Top!

### Designer Top Mount Twist Faucets

#### Features & Benefits

- Easy Installation from the top of the sink
- Reduces Installation Labor
- Easy Twist on and off faucet tops enable the end user to change faucet styles and colors without the need to disconnect the faucet from the filtration system.
- Lead Free\*
- Models with filter change monitors are available to remind customers when to change cartridges for water quality assurance
- Ceramic disc for durability
- One style works for both air gap and non-air gap installations
- Quick-Connect fittings for all tubes including air gap



Available in brushed nickel, black, white and oil rubbed bronze

*Monitor faucets remind customers when cartridge replacements are necessary to eliminate guesswork and provide top water quality assurance!*

#### How the Monitor Faucets work:

- Monitor tracks time and estimates gallons based on time when handle is in "on" position.
- Blue LED indicates filter life remaining.
- Red LED flashes after 6 months or estimated 2000 gallons indicating filter replacement required.
- Removal and reinstallation of battery will reset the monitor.

### Designer Top Mount Faucets

Twist



Curve

Non Twist



WTMF

### Designer Faucets



Series 303



Series 133



Series 703



Series 888



Series 905

## Top Quality Designer Faucets

MODEL NO.	ORDERING CODES	VALVE TYPE	FINISH	SIZE (IN)	CASE QTY	AIR GAP	FILTER MONITOR
<b>Series 303 Faucets</b>							
FNP3033CP-US05	68102285	Lever Style	Chrome	1/4	50		
FNP3033NP	68102287	Lever Style	Brushed Nickel	1/4	50		
<b>Airgap</b>							
FU-AGLR.C/3	68102443	Lever Style	Brushed Nickel	1/4	50	X	
<b>Series 703 Faucets</b>							
FNCP7033CP	68102276	Ceramic Disc	Chrome	1/4	30		
FNCP7033NP	68102277	Ceramic Disc	Brushed Nickel	1/4	30		
<b>Series 888 Faucets</b>							
FNCP8883CP	68102280	Ceramic Disc	Chrome	1/4	20		
FNCP8883NP	68102281	Ceramic Disc	Brushed Nickel	1/4	20		
<b>Series 905 Faucet</b>							
FU-WDF-905-CP	68102449	Ceramic Disc	Chrome	1/4	30		
<b>Top Mount Twist Faucets</b>							
WTMTFA-CRVBN14	WP116187	Ceramic Disc	Brushed Nickel	1/4	15	X	X
<b>Top Mount (non-Twist) Series Faucets</b>							
WTMFAG-C-M	WP116094	Ceramic Disc	Chrome	3/8	15	X	X
WTMFAG-C	WP116091	Ceramic Disc	Chrome	3/8	15	X	
WTMFAG-BN-M	WP116093	Ceramic Disc	Brushed Nickel	3/8	15	X	X
WTMFAG-BN	WP116095	Ceramic Disc	Brushed Nickel	3/8	15	X	

### Twist Faucets



curve

### Non-Twist Faucet



WTM

### Designer Faucets



Series 303



Series 703



Series 888



Series 905

## Residential RO Membranes

Top quality membranes for residential reverse osmosis systems.



Watts® Residential Membranes are certified to NSF/ANSI Standard 58 with the RO Data Transfer protocol.



### Watts® Residential Membranes (thin film composite)

MODEL NO.	ORDERING CODES	APPLICATION	O.D.	LENGTH	CAPACITY (GPD)	NO. PER CASE
W-1812-24	68108602	Tap water	1.8"	11.75"	24	25
W-1812-36	68108603	Tap water	1.8"	11.75"	36	25
W-1812-50	68108604	Tap water	1.8"	11.75"	50	25
W-1812-75	68108605	Tap water	1.8"	11.75"	75	25

### Watts Membrane Specifications

DATA	W-1812-24	W-1812-36	W-1812-50	W-1812-75
Membrane type	TCF	TCF	TCF	TCF
Material	Polyamide	Polyamide	Polyamide	Polyamide
Charge	Negative	Negative	Negative	Negative
Configuration	Spiral-wound	Spiral-wound	Spiral-wound	Spiral-wound
Salt rejection	95%	95%	95%	95%
Max. operating temp.	113°F / 45°C	113°F / 45°C	113°F / 45°C	113°F / 45°C
Max. operating pressure	125 psi	125 psi	125 psi	125 psi
Max. turbidity (NTU)	1	1	1	1
Max. SDI	5	5	5	5
pH range	3-10	3-10	3-10	3-10
Permeate Rate	24 gpd	36 gpd	50 gpd	75 gpd

**Note:** Specifications based on 77°F (25°) temperature and 60 psid pressure and 500 ppm TDS



### Filmtec® By Dow® Residential Membranes (thin film)

MODEL NO.	ORDERING CODES	APPLICATION	O.D.	LENGTH	CAPACITY (GPD)	NO. PER CASE
TW30-1812-50	68108432	Tap water	1.8"	11.75"	50	25

**Note:** \*Desalinization chlorine tolerant

## Commercial RO Membranes

MODEL NO.	ORDERING CODES	SIZE	DESCRIPTION	CAPACITY (GPD)
R96310	68107305	3" X 10"	Watts Brand, Thin Film, Tape Wrapped - Used on R13 Systems	250
R96320	68107306	3" X 10"	Watts Brand, Thin Film, Tape Wrapped - Used on R13 Systems	600
W-2514-TW	68108606	2.5" X 14"	Watts Brand, Thin Film, Tape Wrapped, Standard Element	200
W-2521-TW	68108607	2.5" X 21"	Watts Brand, Thin Film, Tape Wrapped, Standard Element	300
W-2540-TW	68108608	2.5" X 40"	Watts Brand, Thin Film, Tape Wrapped, Standard Element	600
W-4021-TW	68108609	4" x 21"	Watts Brand, Thin Film, Tape Wrapped, Standard Element	800
W-4040-LE	68108611	4" x 40"	Watts Brand, Thin Film, Tape Wrapped, Low Energy	2200
F210016	68101550	4" x 40"	Watts Brand, Thin Film, Tape Wrapped, XLE	2600
R9640-TM	68107307	4" x 40"	Toray Brand, Thin Film, FRP Wrapped, Brackish Water	2000
R9642-TM400	68107308	8" x 40"	Toray Brand, Thin Film, FRP, 400 Ft, Standard Element	11,000



R96310



R96320



F210016



W-2514-TW



W-2521-TW



W-2540-TW



W-4040-LE



R9642-TM400



R9640-TM













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