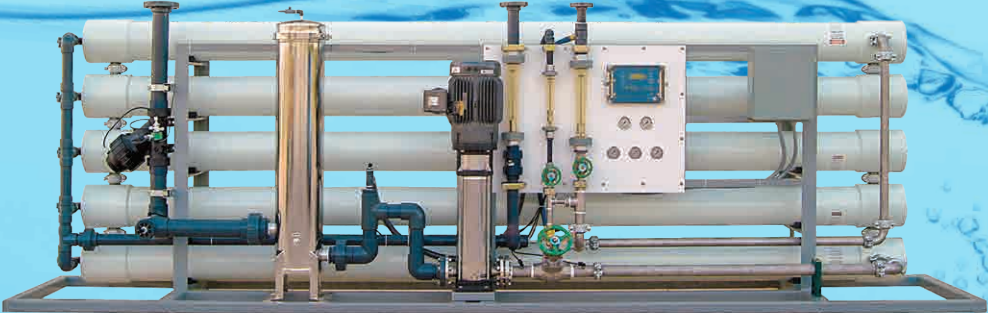


Watts Water Quality Solutions

For Water Professionals



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Sanitron® is a registered trademark of Atlantic Ultraviolet Corporation

ONE Cartridge Tank® is a registered trademark of Enpress LLC



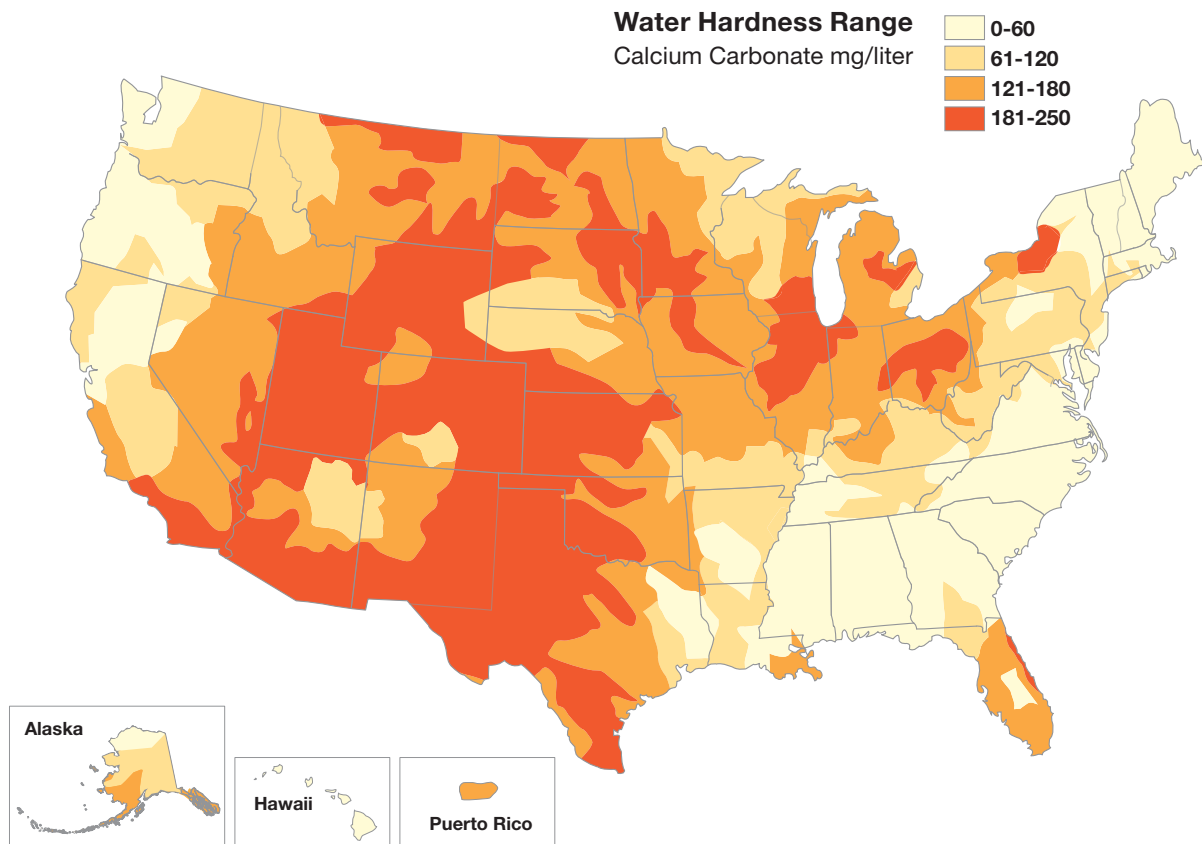
About Watts Water Technologies

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 deems 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.

BUYER'S TERMS AND CONDITIONS: Any conflicting statements or terms listed on Buyer's purchase orders, invoice, confirmations or other Buyer generated documents ("Buyer Documents") are negated by submission of these Credit Application Terms and Conditions ("Terms and Conditions") and the issuance of credit by Seller. All different or additional terms and conditions contained in any Buyer Documents are hereby rejected by Seller. Seller's performance of any contract is expressly made conditional on Buyer's agreement to Seller's terms and conditions, unless otherwise specifically agreed to in writing by Seller. Commencement of performance and/or delivery shall be for Buyer's convenience only and shall not be deemed or construed to be acceptance of Buyer's terms and conditions, or any of them. If a contract is not earlier formed by mutual agreement in writing, acceptance of any goods or services shall be deemed acceptance of the Terms and Conditions stated herein.

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

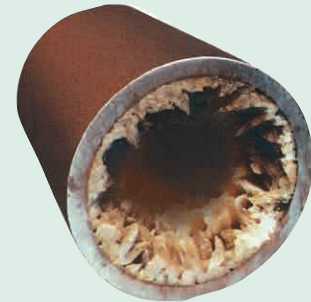
Independent scientific testing has confirmed that MAC technology provides scale reduction of 95+%. Testing was conducted under protocol based on DVGW W512 test to assess control of scale formation. Results may vary and performance is based on water hardness levels, flow rate, and other factors.

DID YOU KNOW?

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

The Problem!

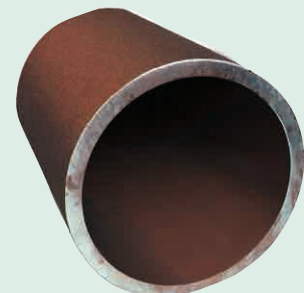
Calcium creates scale in pipes, on appliances and other plumbing surfaces which can lead to higher heating and energy costs and expensive repairs.



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

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 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.)

⚠ 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.



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[†] 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.

Models OF1354-30TM, OF1465-50TM and OF1665-75TM

Connections

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

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



OF1465-50TM,
OF1665TM-75TM

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	✓ Chlorine Taste and Odor
✓ Sediment	

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
OFPSYS	7100638		OneFlow Plus System

For additional information, access online literature ES-OFPSYS

Models OFTWH-C, OFWH-R and OF140-4

OneFlow® Anti-Scale System

Connection Sizes: ¾" (20mm)

Flow Rates: From 0.5 gpm to 6 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.

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



OFTWH-C



OFTWH-R



OFTWH

Model

MODEL NO.	ORDERING CODE	PEAK FLOW RATE	CONNECTION SIZE
OFTWH-C	0002191	5 GPM (18.89 lpm)	¾" (20mm) FNPT
OFTWH-R	0002188	6 gpm (22.71 lpm)	¾" (20mm) FNPT
OFTWH	0002182	10 gpm (38 lpm)	¾" (20mm) FNPT

Replacement Cartridges

MODEL NO.	ORDERING CODE	FREQUENCY
OFTWH-C-RM	0002192	Cartridge should be replaced every 2 YEARS
OFTWH-RM-R	0002189	Cartridge should be replaced every 2 YEARS
OFTWHRM	0002183	Cartridge should be replaced every 2 YEARS

Note: Models OFTWH-C & OFTWH-R are excellent systems for homes where the protection of a single tankless water heater is desired for longer equipment life and reduced energy consumption. Model OFTWH is the ideal system for restaurants, cafeterias, coffee shops and homes where multiple or single equipment protection is desired for longer equipment life and reduced energy consumption

⚠ 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 8)

For additional information, access online literature ES-OFTWH_OFTWH-C_OFTWH-R

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

OneFlow® Anti-Scale System

Connection Sizes: 1/2" and 3/4" (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
- 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 cartridge once per year

Models

MODEL NO.	ORDERING CODE	MAXIMUM FLOW RATE	CONNECTION SIZES
OF110-1	68107393	1 gpm (4 lpm)	1/2" (15mm) FNPT
OF140-4	68107395	4 gpm (15 lpm)	3/4" (20mm) FNPT

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

⚠ 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 8)

For additional information, access online literature ES-OF110_120_140



OF110-1



OF140-4

Model OF240-4

OneFlow® Anti-Scale System

Connection Sizes: 1/2" and 3/4" (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.



OF240-4

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.

Models

MODEL NO.	ORDERING CODE	MAXIMUM FLOW RATE	CONNECTION SIZES
OF240-4	68107398	4 gpm (15 lpm)	3/4" (20mm) FNPT

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

⚠ 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 8)

For additional information, access online literature ES-OF210_220_240

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.

Locksmith™ Dual Media Residential Water Softener System

Watts LOCKSMITH™ CLS-DM Series dual media water treatment system combine water softening and carbon filtration into one compact, whole-house solution designed for residential applications. This system features a simplex, dual-chamber design that removes hardness minerals while reducing chlorine, taste, odors, organic chemicals, sediment, and iron. The system utilizes high-capacity ion exchange resin for hardness removal and Watts activated fine carbon media for effective pre-treatment and filtration.

Powered by the Watts LOCKSMITH™ exclusive controller with a visual color screen, the CLS-DM Series offers advanced programmable features and at-a-glance system status.

Features

- Dual media system combining water softening and carbon filtration
- Complete whole-house water treatment in a compact design
- Reduces hardness, chlorine taste and odor, organic chemicals, sediment, and iron
- Watts LOCKSMITH™ control valve with advanced electronic programming
- Watts activated fine carbon media for effective pre-treatment
- High-capacity ion exchange resin for hardness removal
- Non-corrosive fiberglass resin tank with thermoplastic inner liner
- High-density polyethylene brine tank serves as brine maker and salt storage
- Dual-chamber mineral hardness removal design
- Multiple 12V relay outputs for increased configurability



CLS-DM

VALVE	LOCKSMITH RESIDENTIAL
Valve body	Glass fiber reinforced composite
Pipe Size	1"
Types	Metered demand
Mineral Tank	Corrosion resistant FRP.
Brine Tank	Polyethylene; fully assembled
Media	High capacity A4000 Resin and GAC

MODEL NO.	ORDERING CODE	CAPACITY (MAX.)	PIPE SIZE (IN.)	MINERAL TANK		BRINE TANK		FLOW RATE & PRESSURE			SHIP WT. (LBS.)
				TANK SIZE	RESIN FT3	TANK SIZE	SALT FILL (LBS.)	SERVICE (GPM)	DROP (PSI)	BKW (GPM)	
M3011-L10SM-CR-CMP	68112308	30,000	1	10x54	1	0.5	350	12-16	15-25	2.2	110

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 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

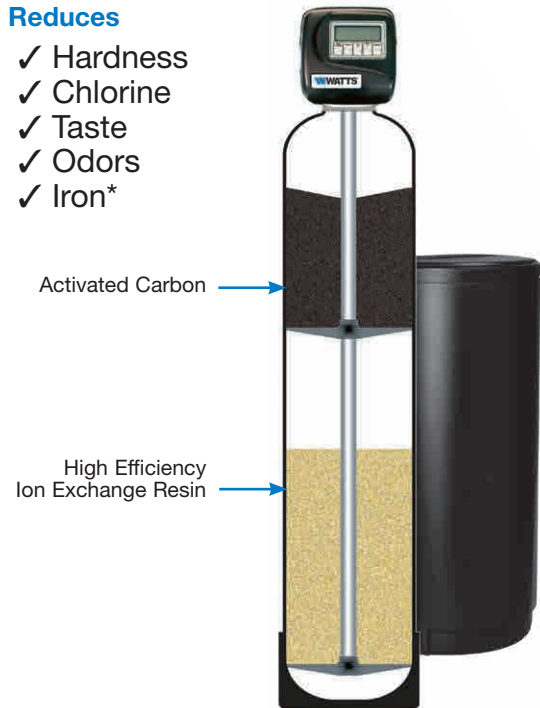
- Combines two technologies in one single tank
- One control valve and mineral tank to reduce costs
- Carbon and resin are in separate chambers
- Proper contact time is provided by using two chambers
- No media migration with carbon and resin separated
- Carbon can be replaced without replacing the resin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

Specifications

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

Reduces

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



Dual-Media and Brine Tank
M3011-W100SM-CR-CMP

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

MODEL NO.	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)	
M3011-W100SM-CR-CMP	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.

*Pre-treatment may be required.

Locksmith™ Residential Water Softening Systems

Softeners for Hardness Reduction with Watts Exclusive Valve Controller.

Locksmith™ controllers, designed to streamline the operation and maintenance of your customer's system without the hassle of multiple platforms or additional system controllers.

Features & Benefits

- Glass fiber reinforced composite control valve for years of service.
- Fully automatic metered demand control valve for efficient operation.
- Sophisticated digital electronic controls that store accessible operating history.
- Fully adjustable regeneration cycles tailored to your specific application.
- High-capacity A4000 resin certified for lead-free compliance.
- Highly corrosion resistant fiberglass tanks for long-term durability.
- Locksmith™ Controller offering improved functionality of a basic softener.



Series CLS-100 & CLS-125

Specifications

VALVE	LOCKSMITH RESIDENTIAL
Valve body	Glass fiber reinforced composite
Pipe Size	1" and 1.25"
Types	Metered demand
Mineral Tank	Corrosion resistant FRP.
Brine Tank	Polyethylene; fully assembled
Media	Cation resin; high capacity

Locksmith™ CLS Simplex Residential Water Softening Systems

MODEL NO.	ORDERING CODE	CAPACITY (MAX.)	PIPE SIZE (IN.)	MINERAL TANK		BRINE TANK		FLOW RATE & PRESSURE			SHIP WT. (LBS.)
				TANK SIZE	RESIN FT3	TANK SIZE	SALT FILL (LBS.)	SERVICE (GPM)	DROP (PSI)	BKW (GPM)	
CLS-100 Systems											
M3011-L10SM	68112309	30,000	1	9x48	1	18x36	350	9-12	15-25	2.2	110
M3013-L10SM	68112310	45,000	1	10x54	1.5	18x36	350	12-16	15-25	2.7	130
M3015-L10SM	68112311	60,000	1	12x52	2	18x36	350	15-20	15-25	2.7	190
M3017-L10SM	68112312	90,000	1	14x65	3	18x36	350	18-23	15-25	4.2	240
CLS-125 Systems											
M4032B-L125	68112341	30,000	1.25 / 1.5	9x48	1	18x40	400	9-15	15-25	2.2	116
M4036B-L125	68112342	45,000	1.25 / 1.5	10x54	1.5	18x40	400	10-15	15-25	2.7	136
M4040B-L125	68112343	60,000	1.25 / 1.5	12x52	2	18x40	400	15-20	15-25	4.2	196
M4042B-L125	68112344	90,000	1.25 / 1.5	14x65	3	18x40	400	18-23	15-25	5.3	240
M4046B-L125	68112345	120,000	1.25 / 1.5	16x65	4	18x40	400	19-25	15-25	7.5	320

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

Capacities are based on resin manufacturer's data and are dependent upon influent water TDS, temperature, bed depth, and flow rates. Feed water must be free of oil and color. Pipe size, tank size, and space requirements are in inches. Capacities and flow rates expressed above are per tank. Flow rates listed at 25 psi drops are for intermittent peak flow rates and are not to be used as continuous flows.

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.



Water Softeners with Watts W100 Control Valves

MODEL NO.	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)	
M3011-CK10SM	68105249	30,000	1	9x48	1	18x36	350	9-12	15-25	2.2	110
M3013-CK10SM	68105297	45,000	1	10x54	1.5	18x36	350	12-16	15-25	2.7	130
M3015-CK10SM	68105343	60,000	1	12x52	2	18x36	350	15-20	15-25	3.5	190

Locksmith™ Residential Twin Alternating Water Softening Systems

Softeners for Hardness Reduction with Watts Exclusive Valve Controller.

Designed to streamline the operation and maintenance of your customer's system without the hassle of multiple platforms or additional system controllers.

Features & Benefits

- Glass fiber reinforced composite control valve for years of service.
- Fully automatic metered demand control valve for efficient operation.
- Sophisticated digital electronic controls that store accessible operating history.
- Fully adjustable regeneration cycles tailored to your specific application.
- High-capacity A4000 resin certified for lead-free compliance.
- Highly corrosion resistant fiberglass tanks for long-term durability.
- Locksmith™ Controller offering improved functionality of a basic softener.



CLSTA-100

Specifications

VALVE	LOCKSMITH RESIDENTIAL
Valve body	Glass fiber reinforced composite
Pipe Size	1" and 1.25"
Types	Metered demand
Mineral Tank	Corrosion resistant FRP.
Brine Tank	Polyethylene; fully assembled
Media	Cation resin; high capacity

Locksmith™ Residential CLSTA-100 Water Softening Systems

MODEL NO.	ORDERING CODE	CAPACITY (MAX.)	PIPE SIZE (IN.)	MINERAL TANK		BRINE TANK		FLOW RATE & PRESSURE			SHIP WT. (LBS.)
				TANK SIZE	RESIN FT3	TANK SIZE	SALT FILL (LBS.)	SERVICE (GPM)	DROP (PSI)	BKW (GPM)	
M2058-L10T	68112333	30,000	1	9x48	1	18x40	400	13-19	15-25	2.2	230
M2059-L10T	68112334	45,000	1	10x54	1.5	18x40	400	14-21	15-25	2.7	290
M2060-L10T	68112335	60,000	1	12x52	2	18x40	400	15-21	15-25	2.7	420
M2063-L10T	68112336	75,000	1	13x54	2.5	18x40	400	15-21	15-25	4.2	460
M2066-L10T	68112337	90,000	1	14x65	3	18x40	400	17-22	15-25	5.3	500
M2069-L10T	68112338	120,000	1	16x65	4	18x40	400	17-24	15-25	7.5	650
M2070-L10T	68112339	150,000	1	18x65	5	24x41	600	18-25	15-25	9	890
M2072-L10T	68112340	210,000	1	21x62	7	24x50	800	20-27	15-25	11	1160

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

Capacities are based on resin manufacturer's data and are dependent upon influent water TDS, temperature, bed depth, and flow rates. Feed water must be free of oil and color. Pipe size, tank size, and space requirements are in inches. Capacities and flow rates expressed above are per tank. Flow rates listed at 25 psi drops are for intermittent peak flow rates and are not to be used as continuous flows.

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

MODEL NO.	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)	
M2058-W100T	68105185	30,000	1	9 x 48	1	18 x 40	400	13-19	15-25	2.2	230
M2059-W100T	68105194	45,000	1	10 x 54	1.5	18 x 40	400	14-21	15-25	2.7	290
M2060-W100T	68105203	60,000	1	12 x 52	2	18 x 40	400	15-21	15-25	3.2	420
M2063-W100T	68105208	75,000	1	13 x 54	2.5	18 x 40	400	15-21	15-25	4.2	460
M2066-W100T	68105215	90,000	1	14 x 65	3	18 x 40	400	17-22	15-25	5.3	500
M2069-W100T	68105222	120,000	1	16 x 65	4	18 x 40	400	17-24	15-25	7.5	650
M2070-W100T	68105225	150,000	1 1/4 x 1 1/2	18 x 65	5	24 x 41	600	18-25	15-25	10	890
M2072-W100T	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 fiber reinforced compositew
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

Water Softeners with 5600 Electromechanical Metered Control Valves

MODEL NO.	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)	
M3013	68105283	45,000	3/4	10x54	1.5	18x40	400	10-13	15-25	2.4	130
M3015	68105334	60,000	3/4	12x52	2	18x40	400	12-15	15-25	3.5	190
M3011-SD	68105258	30,000	3/4	9x48	1	18x40	400	9-11	15-25	2.0	110

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.

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
Mineral tank	Corrosion resistant FRP
Brine tank	Fully assembled polyethylene
Media	High capacity cation resin

Twin Tank Softeners with 9100 Electromechanical Metered Control Valves

MODEL NO.	ORDERING CODE	CAPACITY (MAX.)	PIPE SIZE (IN.)	MINERAL TANK		BRINE TANK		FLOW RATE & PRESSURE			SHIP WT. (LBS)
				TANK SIZE	RESIN FT ³	SIZE	SALT FILL (LBS)	SERVICE (GPM)	DROP (PSI)	BKW (GPM)	
M2058-91SE	68110650	30,000	3/4	9x48	1	18x40	400	13-19	15-25	2.2	180
M2059-91SE	68110651	45,000	3/4	10x54	1.5	18x40	400	14-21	15-25	2.4	250
M2060-91SE	68110652	60,000	3/4	12x52	2	18x40	400	15-21	15-25	3.5	330
M2066-91SE	68110653	90,000	1	14x65	3	24x41	600	17-22	15-25	5.0	470
M2069-91SE	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

MODEL NO.	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

M4214B-285NT	68105535	90,000	1 1/2	14x65	3	18x40	400	17-22	15-25	5	240
M4218B-285NT	68105540	120,000	1 1/2	16x65	4	18x40	400	25-40	15-25	7	320
M4222B-285NT	68105545	150,000	1 1/2	18x65	5	24x41	600	30-50	15-25	11	380
M4226B-285NT	68105549	210,000	1 1/2	21x62	7	24x50	800	35-53	15-25	13	585
M4230B-285NT	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

MODEL NO.	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

M2218SE	68105231	60,000	1 1/2	12x52	2	24x41	600	15-20	15-25	3.5	270
M2220SE	68105233	90,000	1 1/2	14x65	3	24x41	600	17-22	15-25	5	550
M2222SE	68105235	120,000	1 1/2	16x65	4	24x41	600	25-40	15-25	7	720
M2224SE	68105236	150,000	1 1/2	18x65	5	24x41	600	30-50	15-25	10	900
M2228SE	68105238	210,000	1 1/2	21x62	7	24x50	800	35-53	15-25	12	1215
M2235SE	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

MODEL NO.	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

M4548WHF	68105566	150,000	2	18x65	5	24x41	600	53-69	15-25	10	400
M4552WH	68105568	210,000	2	21x62	7	24x50	800	66-85	15-25	13	600
M4558WH	68105570	300,000	2	24x72	10	30x50	1200	73-94	15-25	15	710
M4559WH	68105572	450,000	2	30x72	15	39x48	2200	84-109	15-25	25	1160
M4560WH	68105574	600,000	2	36x72	20	39x48	2200	93-119	15-25	35	1560
M4558WH-NH	68110445	300,000	2	24x72	10	30x50	1200	75-97	15-25	15	710
M4559WH-NH	68110446	450,000	2	30x72	15	39x48	2200	88-113	15-25	25	1160
M4560WH-NH	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

MODEL NO.	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

M4043B-29NT	68105390	90,000	2	14x65	3	18x40	400	25-40	15-25	5	350
M4047B-29NT	68105401	120,000	2	16x65	4	18x40	400	35-55	15-25	7	350
M4048B-29NT	68105407	150,000	2	18x65	5	24x41	600	57-65	15-25	10	400
M4052B-29NT	68105414	210,000	2	21x62	7	24x50	800	60-77	15-25	13	600
M4058B-29NT	68105428	300,000	2	24x72	10	30x50	1200	74-97	15-25	15	710
M4059B-29NT	68105443	450,000	2	30x72	15	39x48	2200	80-100	15-25	25	1160
M4060B-29NT	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

M4043TA-29NT	68105393	90,000	2	14x65	3	18x40	400	25-40	15-25	5	450
M4047TA-29NT	68105405	120,000	2	16x65	4	18x40	400	35-55	15-25	7	500
M4048TA-29NT	68105411	150,000	2	18x65	5	24x41	600	57-65	15-25	10	800
M4052TA-29NT	68105420	210,000	2	21x62	7	24x50	800	60-77	15-25	13	1200
M4058TA-29NT	68105435	300,000	2	24x72	10	30x48	1200	74-97	15-25	15	1400
M4059TA-29NT	68105448	450,000	2	30x72	15	39x48	2200	80-100	15-25	25	2200
M4060TA-29NT	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.



MODEL NO.	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

M4610WH	68105575	300,000	3	24x72	10	30x50	1200	98-125	15-25	15	1070
M4612WH	68105576	450,000	3	30x72	15	39x48	2200	144-186	15-25	25	1600
M4614WH	68105577	600,000	3	36x72	20	39x60	2700	172-222	15-25	35	2015
M4616WH	68105578	900,000	3	42x72	30	42x60	3100	190-244	15-25	50	3245
M4618WH	68105579	1,050,000	3	48x72	35	50x60	4500	194-251	15-25	60	4295

Note: Systems available in progressive configurations.

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

MODEL NO.	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

M4110B-39NT	68105467	300,000	3	24x72	10	30x50	1200	120-170	15-25	15	1070
M4112B-39NT	68105480	450,000	3	30x72	15	39x48	2200	158-212	15-25	25	1600
M4114B-39NT	68105493	600,000	3	36x72	20	39x60	2700	185-250	15-25	35	2015
M4116B-39NT	68105504	900,000	3	42x72	30	42x60	3100	200-268	15-25	50	3245
M4118B-39NT	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

M4110TA-39NT	68105473	300,000	3	24x72	10	30x50	1200	120-170	15-25	15	2070
M4112TA-39NT	68105486	450,000	3	30x72	15	39x48	2200	158-212	15-25	25	3000
M4114TA-39NT	68105498	600,000	3	36x72	20	39x60	2700	185-250	15-25	35	4015
M4116TA-39NT	68105509	900,000	3	42x72	30	42x60	3100	200-268	15-25	50	6245
M4118TA-39NT	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.

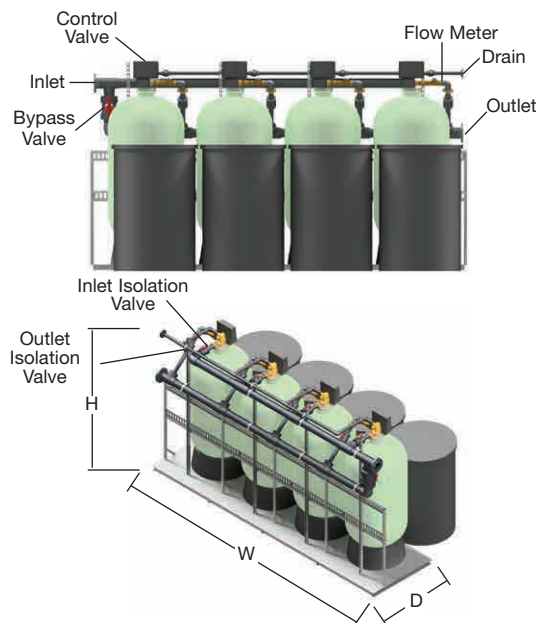
Water Softeners Pre-Plumbed & Skid Mounted with 2900 Control Valves

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)

MODEL NO.	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

M4052TA-PPSM	68105421	210,000	2-1	2-1	21"x62"	7	1-24x50	800	60-77	15-25	12	42" x 82" x 90"	2100
M4052TI-PPSM	68105423	210,000	3-1	2-2	21"x62"	7	2-24X50	1600	120-154	15-25	12	42" x 78" x 90"	2100
M4052TR-PPSM	68105425	210,000	3-1	3-3	21"x62"	7	3-24X50	2400	180-231	15-25	12	42" x 114" x 90"	3050
M4052QD-PPSM	68105418	210,000	4-1	4-4	21"x62"	7	4-24X50	3200	240-308	15-25	12	42" x 150" x 90"	3850
M4058TA-PPSM	68105436	300,000	2-1	2-1	24"x72"	10	1-30X50	1200	74-97	15-25	15	42" x 82" x 95"	2200
M4058TI-PPSM	68105438	300,000	3-1	2-2	24"x72"	10	2-30X50	2400	148-194	15-25	15	42" x 78" x 95"	2320
M4058TR-PPSM	68105440	300,000	4-1	3-3	24"x72"	10	3-30X50	3600	222-291	15-25	15	42" x 114" x 95"	3380
M4058QD-PPSM	68105434	300,000	4-1	4-4	24"x72"	10	4-30X50	4800	296-388	15-25	15	42" x 150" x 95"	4290
M4059TA-PPSM	68105449	450,000	2-1	2-1	30"x72"	15	1-39X48	2200	80-100	15-25	25	48" x 102" x 100"	3450
M4059TI-PPSM	68105451	450,000	3-1	2-2	30"x72"	15	2-39X48	4400	160-200	15-25	25	48" x 91" x 100"	3520
M4059TR-PPSM	68105453	450,000	4-1	3-3	30"x72"	15	3-39X48	6600	240-300	15-25	25	48" x 114" x 100"	4780
M4059QD-PPSM	68105447	450,000	4-1	4-4	30"x72"	15	4-39X48	8800	320-400	15-25	25	48" x 150" x 100"	6090
M4060TA-PPSM	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
M4060TI-PPSM	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
M4060TR-PPSM	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
M4060QD-PPSM	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.

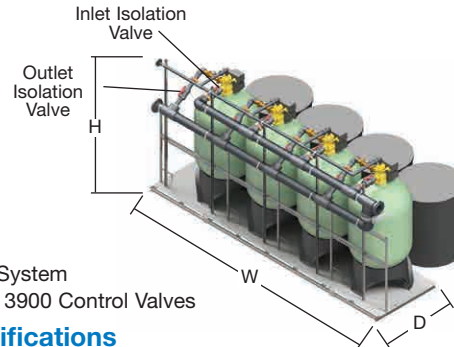
Water Softeners Pre-Plumbed & Skid Mounted with 3900 Control Valves

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)

MODEL NO.	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 FT ³ 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

M4110TA-PPSM	68105474	300,000	3-1	2-1	24"x72"	10	1-30X50	1200	120-170	15-25	15	54" x 110" x 109"	3300
M4110TI-PPSM	68105476	300,000	4-1	2-2	24"x72"	10	2-30X50	2400	240-340	15-25	15	54" x 110" x 109"	3420
M4110TR-PPSM	68105478	300,000	4-1	3-3	24"x72"	10	3-30X50	3600	360-510	15-25	15	52" x 160" x 109"	5030
M4110QD-PPSM	68105472	300,000	6-1	4-4	24"x72"	10	4-30X50	4800	480-680	15-25	15	56" x 205" x 109"	6770
M4112TA-PPSM	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
M4112TI-PPSM	68105489	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
M4112TR-PPSM	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
M4112QD-PPSM	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
M4114TA-PPSM	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
M4114TI-PPSM	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
M4114TR-PPSM	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
M4114QD-PPSM	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
M4116TA-PPSM	68105510	900,000	3-2	2-1	42"x72"	30	1-42X60	3100	200-268	15-25	50	66" x 125" x 121"	7880
M4116TI-PPSM	68105512	900,000	4-2	2-2	42"x72"	30	2-42X60	6200	400-536	15-25	50	66" x 130" x 121"	8230
M4118B-39NT	68105516	900,000	6-2	3-3	42"x72"	30	3-42X60	9300	600-804	15-25	50	66" x 185" x 121"	12230
M4116QD-PPSM	68105508	900,000	6-2	4-4	42"x72"	30	4-42X60	12400	800-1072	15-25	50	66" x 240" x 121"	16230
M4118TA-PPSM	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
M4118TI-PPSM	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
M4118TR-PPSM	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
M4118QD-PPSM	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.

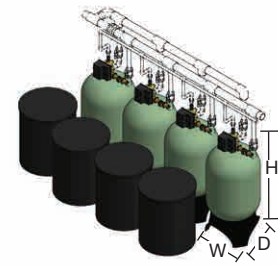
NOTICE

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.

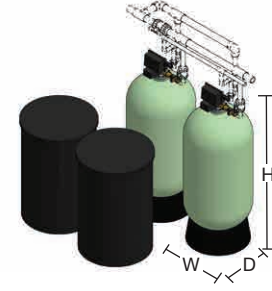
Water Softeners with 2900 and 3900 Control Valves and No Hard Water Bypass Pistons

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.



M4118NT-NH (X4)



M4059NT-NH (X2)

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

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

MODEL NO.	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

M4052NT-NH	68105415	210,000	2	21"x62"	7	24X50	800	60-77	15-25	12	21" x 25" x 81"	600
M4058NT-NH	68105430	300,000	2	24"x72"	10	30X50	1200	74-97	15-25	15	24" x 27" x 88"	710
M4059NT-NH	68105444	450,000	2	30"x72"	15	39X48	2200	80-100	15-25	25	30" x 30" x 94"	1160
M4060NT-NH	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

M4110NT-NH	68105469	300,000	3	24"x72"	10	30X50	1200	120-170	15-25	15	26" x 38" x 95"	1095
M4112NT-NH	68105482	450,000	3	30"x72"	15	39X48	2200	158-212	15-25	25	31" x 41" x 98"	1625
M4114NT-NH	68105494	600,000	3	36"x72"	20	39X60	2700	185-250	15-25	35	37" x 44" x 101"	2040
M4116NT-NH	68105505	900,000	3	42"x72"	30	42X60	3100	200-268	15-25	50	44" x 47" x 109"	3270
M4118NT-NH	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



Steel Tank Series

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

Metered Models

MODEL NO.	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)	
M5076B-29NT	68105587	2900	300,000	2	24 x 60	10	30 x 50	1200	68-94	15-25	15	1930
M5078B-29NT	68105597	2900	450,000	2	30 x 60	15	39 x 48	2200	72-102	15-25	25	2525
M5080B-39NT	68105611	3900	600,000	3	36 x 60	20	39 x 60	2200	185-250	15-25	35	2850
M5082B-39NT	68105623	3900	900,000	3	42 x 60	30	42 x 60	3000	200-268	15-25	50	4800
M5084B-39NT	68105635	3900	1,200,000	2	48 x 60	40	50 x 60	4500	87-120	15-25	60	4950

Twin Alternating Models

MODEL NO.	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)	
M5076TA-29NT	68105590	2900	300,000	2	24 x 60	10	30 x 50	1200	68-94	15-25	15	3860
M5078TA-29NT	68105601	2900	450,000	2	30 x 60	15	39 x 48	2200	72-102	15-25	25	5050
M5080TA-39NT	68105616	3900	600,000	3	36 x 60	20	39 x 60	2200	185-250	15-25	35	5700
M5082TA-39NT	68105627	3900	900,000	3	42 x 60	30	42 x 60	3000	200-268	15-25	50	9600
M5084TA-39NT	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.

Media Filtration Systems

Watts offers a complete line of media filtration systems for a wide variety of applications. 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. 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[™] 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.

Locksmith[™] Residential Automatic Backwashing Carbon Filters

Features & Benefits

- Locksmith Controller offering Improved functionality
- Fully adjustable backwash and flush cycles
- Dry contact lock out switch for remote interface is standard
- High surface area, with a minimum of 1,050 m²/g, low carbon fines, and coconut shell carbon
- Highly corrosion resistant fiberglass tanks
- Durable polypropylene lower distribution system



ACL-100 & ACL-125

MODEL NO.	ORDERING CODE	TANK SIZE	MEDIA (CU FT)	PEAK SERVICE FLOW (GPM)	BACKWASH (GPM)	FLOOR SPACE (DXWXH)	SHIP WT. (LBS.)
NC09-L10F	68112313	9x48	1	4	4.2	12" x 10" x 56"	80
NC10-L10F	68112314	10x54	1.5	6	5.3	12" x 11" x 62"	105
NC12-L10F	68112315	12x52	2	8	7.5	13" x 13" x 60"	145
NC14-L10F	68112316	14x65	3	11	10	15" x 15" x 71"	200
NC16-L10F	68112317	16x65	4	14	10	15" x 17" x 74"	265
NC21-L10F	68112318	21x62	5	20	22	22" x 22" x 75"	365
N2051-L125	68112346	10x54	1.5	6	5.3	12" x 10" x 56"	105
N2052-L125	68112347	12x52	2	7.4	7.5	12" x 11" x 62"	117
N2056-L125	68112348	14x65	3	11.1	10	14" x 15" x 73"	194

NOTICE

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

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 reducing 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)
Residential Systems with Standard Tanks									
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)
Commercial Systems with Standard Tanks									
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.

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)
Residential Systems with Standard Tanks									
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

Locksmith™ Residential Micro Z Systems

Features

- Micro Z filtration media is certified by IAPMO R&T to NSF/ANSI/CAN 61 for material safety and to NSF/ANSI/CAN 372 for lead free compliance.
- Sophisticated digital electronic controls that store operating history that can be accessed by the user
- Watts Locksmith™ proprietary electronic controller allows user friendly programmable function for application specific required control
- Fully adjustable backwash and flush cycles
- Dry contact lock out switch for remote interface is standard
- Highly corrosion resistant fiberglass tanks
- Durable polypropylene lower distribution system



AMZL-100 & AMZL-125

MODEL NO.	ORDERING CODE	TANK SIZE	MEDIA (CU FT)	PEAK SERVICE FLOW (GPM)	BACKWASH (GPM)	FLOOR SPACE (DXWXH)	SHIP WT. (LBS.)
NM09-L10F	68112324	9x48	1	5/9	5.3	12" x 10" x 56"	110
NM10-L10F	68112325	10x54	1.5	7/10	7.5	12" x 11" x 62"	140
NM12-L10F	68112326	12x52	2	9/15	9	13" x 13" x 60"	200
NM14-L10F	68112327	14x65	3	13/21	17	15" x 15" x 71"	310
N5245-09-L125	68112349	9x48	1	9	5.3	12" x 10" x 56"	110
N5245-10-L125	68112350	10x54	1.5	10	7.5	12" x 11" x 62"	140
N5245-12-L125	68112351	12x52	2	15	10	13" x 13" x 60"	167

NOTICE

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

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

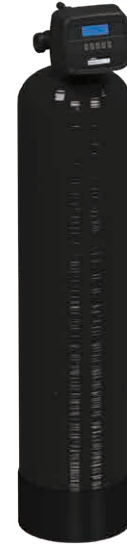
Models with Watts Valves

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)
Residential Systems with Standard Tanks									
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

Locksmith™ Residential AIO Valve Filox Systems

Features

- Locksmith Controller offering Improved functionality
- Filox has highest flow rate of any iron reduction media
- Media performance and efficiency improved through the AIO process
- Fully adjustable backwash and flush cycles
- Dry contact lock out switch for remote interface is standard
- Highly corrosion resistant fiberglass tanks
- Durable polypropylene lower distribution system



FLLAIO-125

MODEL NO.	ORDERING CODE	TANK SIZE	MEDIA (CU FT)	PEAK SERVICE FLOW (GPM)	BACKWASH (GPM)	FLOOR SPACE (DXWXH)	SHIP WT. (LBS.)
N2349-FAIO	68112352	9x48	1	6	7	12" x 10" x 56"	167
N2350-FAIO	68112353	10x54	1.5	9	10	12" x 11" x 62"	235
N2351-FAIO	68112354	12x52	2	12	15	13" x 13" x 60"	318

NOTICE

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

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)
Residential Systems with Standard Tanks									
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.

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 - Carbon Filter

MODEL NO.	ORDERING CODE	PIPE SIZE (IN.)	MINERAL TANK		FLOW RATE & PRESSURE			SHIP WT. (LBS)
			TANK SIZE	CARBON FT3	SERVICE (GPM)	DROP (PSI)	BKW (GPM)	
NC12FL150	68110920	1 1/2	12" x 52"	2	7.4	<15 psi	7	161
NC14FL150	68110921	1 1/2	14" x 65"	3	11.1	<15 psi	10	259
NC16FL150	68110922	1 1/2	16" x 65"	4	14.8	<15 psi	12	314
NC18FL150	68110923	1 1/2	18" x 65"	5	18.5	<15 psi	16	424
NC21FL150	68110924	1 1/2	21" x 62"	7	25.9	<15 psi	25	547
NC24FL150	68110925	1 1/2	24" x 72"	10	37	<15 psi	30	819
NC12FL200	68110927	2	12" x 52"	2	7.4	<15 psi	7	169
NC14FL200	68110928	2	14" x 65"	3	11.1	<15 psi	10	267
NC16FL200	68110929	2	16" x 65"	4	14.8	<15 psi	12	322
NC18FL200	68110930	2	18" x 65"	5	18.5	<15 psi	16	432
NC21FL200	68110931	2	21" x 62"	7	25.9	<15 psi	25	555
NC24FL200	68110932	2	24" x 72"	10	37	<15 psi	30	827
NC30FL200	68110933	2	30" x 72"	15	55.5	<15 psi	50	1195
NC36FL200	68110934	2	36" x 72"	20	74	<15 psi	70	1669

AMZL-150 and AMZL-200 - Micro Z

MODEL NO.	ORDERING CODE	PIPE SIZE (IN.)	MINERAL TANK		FLOW RATE & PRESSURE			SHIP WT. (LBS)
			TANK SIZE	MICRO Z FT3	SERVICE (GPM)	DROP (PSI)	BKW (GPM)	
NM12FL150	68110935	1 1/2	12" x 52"	2	11.8	<15 psi	10	161
NM14FL150	68110936	1 1/2	14" x 65"	3	16.0	<15 psi	20	259
NM16FL150	68110937	1 1/2	16" x 65"	4	20.9	<15 psi	20	314
NM18FL150	68110938	1 1/2	18" x 65"	5	26.5	<15 psi	30	424
NM21FL150	68110939	1 1/2	21" x 62"	7	36.1	<15 psi	40	547
NM24FL150	68110940	1 1/2	24" x 72"	10	47.1	<15 psi	50	819
NM12FL200	68110942	2	12" x 52"	2	11.8	<15 psi	10	169
NM14FL200	68110943	2	14" x 65"	3	16.0	<15 psi	20	267
NM16FL200	68110944	2	16" x 65"	4	20.9	<15 psi	20	322
NM18FL200	68110945	2	18" x 65"	5	26.5	<15 psi	30	432
NM21FL200	68110946	2	21" x 62"	7	36.1	<15 psi	40	555
NM24FL200	68110947	2	24" x 72"	10	47.1	<15 psi	50	827
NM30FL200	68110948	2	30" x 72"	15	73.6	<15 psi	80	1195

FLL-150 and FLL-200 - Filox

MODEL NO.	ORDERING CODE	PIPE SIZE (IN.)	MINERAL TANK		FLOW RATE & PRESSURE			SHIP WT. (LBS)
			TANK SIZE	FILOX FT3	SERVICE (GPM)	DROP (PSI)	BKW (GPM)	
NF12FL150	68110905	1 1/2	12" x 52"	2	12	<15 psi	15	161
NF14FL150	68110906	1 1/2	14" x 65"	3	18	<15 psi	20	259
NF16FL150	68110907	1 1/2	16" x 65"	4	24	<15 psi	25	314
NF18FL150	68110908	1 1/2	18" x 65"	5	30	<15 psi	30	424
NF21FL150	68110909	1 1/2	21" x 62"	7	42	<15 psi	45	547
NF12FL200	68110912	2	12" x 52"	2	12	<15 psi	15	169
NF14FL200	68110913	2	14" x 65"	3	18	<15 psi	20	267
NF16FL200	68110914	2	16" x 65"	4	24	<15 psi	25	322
NF18FL200	68110915	2	18" x 65"	5	30	<15 psi	30	432
NF21FL200	68110916	2	21" x 62"	7	42	<15 psi	45	555
NF24FL200	68110917	2	24" x 72"	10	60	<15 psi	60	827

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)
Residential Systems									
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.

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.

Single-Stage Total PFAS Filtration System

Total PFAS, lead, and microplastics are environmental pollutants that can contaminate your home's drinking water. These substances may pose serious health risks due to their persistence in the environment and their ability to accumulate in the human body over time. Lead is often found in older plumbing systems or results from industrial pollution. Microplastics, which are tiny plastic particles from degraded plastic waste, can enter drinking water sources through stormwater and wastewater runoff. Per- and polyfluoroalkyl substances (PFAS), also known as "forever chemicals," are synthetic compounds used in products like non-stick cookware, firefighting foam, and certain food packaging. PFAS can leach into groundwater and surface water, eventually making their way into public water systems.

This Watts Pure Water PWDWTPFAS1 Single-Stage Total PFAS filtration system provides protection from Total PFAS & other contaminants and connects directly to the cold side of most standard kitchen and bathroom faucets. It provides superior filtration for all the cold water to your faucet.



PWDWTPFAS1
Ordering Code: 7100575

Features

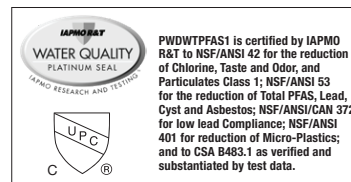
- High-flow system (2.5 gallons per minute) with 0.5 micron carbon block filter (3,200 gallon capacity)
- System comes complete with integrated 3/8" quick connect fittings connection for inlet/outlet & tubing required for a quick and easy standard installation
- Connects directly to most standard kitchen and bathroom cold water faucets
- Filter disconnects and connects from the unit by a simple quarter-turn

Benefits

- Certified to reduce Total PFAS, Lead, Cyst, Asbestos, Microplastics, Chlorine Taste and Odor, and Particulates Class 1
- Provides superior filtration for all the cold water to your kitchen and bathroom faucets
- No additional hole to drill for faucet in sink or counter-top
- System goes well beyond basic water filtration and typical "pitcher" or "end-of-tap" filter

REDUCES

- ✓ Total PFAS
- ✓ Asbestos
- ✓ Lead
- ✓ Cysts
- ✓ Microplastics
- ✓ Chlorine Taste and Odors
- ✓ Particulates Class 1



Replacement Filter

MODEL NO.	ORDERING CODE	FREQUENCY	DESCRIPTION
PWCBTPFAS1	7101117	3,200 Gallons or 6 Months	Carbon Block

For additional information, access online literature [ES-WQ-PWDWTPFAS1](#).

Single Stage High-Capacity Lead Reduction Filtration System

This Watts Pure Water PWDWHCL1 Single-Stage Lead filtration system provides protection from Lead and other contaminants and connects directly to the cold side of most standard kitchen and bathroom faucets. It provides superior filtration for all the cold water to your faucet.

The one-year or 7,900 gallon filtration capacity is up to four times the capacity of other competitive filter systems. It features a high flow 0.5 micron carbon fiber filter, simple quarter turn filter change out and simple under sink installation. This Lead Filtration system is designed and certified to reduce 99.2% of lead in drinking water at any point of use in your household. It also is certified to reduce Parasitic Cyst, Chlorine taste odors and sediment for great-tasting, safer potable water.

Features

- High-flow system (2 gallons per minute)
- High capacity 0.5 micron carbon fiber filter (7900 gallons) for less frequent filter changes
- System comes complete with fittings and tubing required for a quick and easy standard installation
- Connects directly to most standard kitchen and bathroom cold water faucets
- High-capacity filter disconnects and connects from the unit by a simple quarter-turn

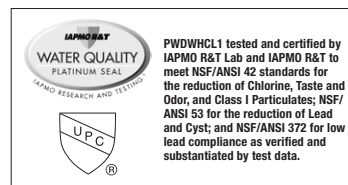
For additional information, access online literature ES-PWDWHCL1.

Benefits

- Certified to reduce Lead, Cysts, Chlorine Taste Odors and Sediment
- Provides superior filtration for all the cold water to your kitchen and bathroom faucets
- No additional hole to drill for faucet in sink or counter-top
- System goes well beyond basic water filtration and typical "pitcher" or "end-of-tap" filter

REDUCES

- ✓ Lead
- ✓ Chlorine
- ✓ Cysts
- ✓ Sediment



PWDWHCL1
Ordering Code: 7100575

Replacement Filter

MODEL NO.	ORDERING CODE	FREQUENCY	DESCRIPTION
PWCFHCL1	7100576	7,900 Gallons or 12 Months	Activated Carbon Block 0.5 Micron

Single Stage High Capacity Carbon Filtration System

This Watts Pure Water PWDWHCUC1 superior carbon filtration system connects to the cold side of your existing kitchen tap. It provides superior filtration for all the cold water to your faucet. The one-year or 10,000 gallon filtration capacity is five times the capacity of other competitive filter systems.

Features

- Single Stage - High Flow 0.5 micron Carbon Block
- 1 year (10,000 gallon) filtration capacity – 5x the capacity of other filter systems†
- Hi-Flow 3/8" Quick Connect Inlet/Outlet connections
- Proprietary cartridge connects to (and disconnects from) the unit by a simple 1/4 turn
- System comes complete with fittings and tubing required for a quick and easy standard installation

†Against similar featured competitive filters at 2,000 gallon capacity

Benefits

- Reduces Sediment, Chlorine Taste and Odors
- Provides superior filtration for all the cold water to your faucet
- System goes well beyond basic water filtration and typical "pitcher" or "end-of-tap" filters

REDUCES

- ✓ Sediment
- ✓ Chemicals
- ✓ Chlorine



PWDWHCUC1
Ordering Code: 7100642

Replacement Filter

MODEL NO.	ORDERING CODE	FREQUENCY	DESCRIPTION
PWCBHCUC1	7100643	10,000 Gallons or 12 Months	Activated Carbon Filter

Note: Water conditions may require more frequent cartridge replacement

For additional information, access online literature ES-WQ-PWDWHCUC1.

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.

Models

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



Model ADWU-DM

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, Adapt-A-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

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 replacement cartridge sizes available
- Cartridges are color coded for easy identification

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



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

Reduces:

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



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



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	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	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
- Proprietary filter cartridges
- 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 on Page #111
- Quick-Connect fittings on inlet and outlet ports
- High Producing RO Membrane
- Clog free brine flow control
- Valves are built into the heads to prevent backflow for water quality assurance



NOTICE

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

Models

MODEL NO.	ORDERING CODES	STAGE	MEMBRANE (GPD)	FAUCET	FITTINGS TANK-FAUCET	TANK
WQC4RO11-50MTNF*	WP520031	4	50	No Faucet	1/4"	Metal
WQC4RO13-100MT	WP531422	4	100	WTM-FAG-C	1/4"	Metal

*Faucet not included.

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 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 on Page #111
- 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	STAGE	MEMBRANE (GPD)	FAUCET	FITTINGS		TANK	SHIP WT. (LBS.)
						INLET	TANK FAUCET		
W-525-NF*	WP500382	No pump	5	50	not included	1/4" QC	3/8" QC	Metal	29

*Faucet not included.

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 on Page #111
- Quick-Connect fittings on inlet and outlet ports
- 50 GPD thin film membrane
- Clog free brine flow control



GTS450S Series



GTS550S Series

Replacement Components

COMPONENTS	ORDERING CODES
Pre-filter, sediment, 5 micron	68102348
Pre-filters, carbon, 5 micron	68101466
Membrane	68108604
Post filter	68100424
Metal 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"

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 for Generic RO Systems

The ZeroWaste® Reverse Osmosis Retrofit Kit is a great way to convert your existing Reverse Osmosis system into an efficient water saving device. By adding this kit to your existing Reverse Osmosis system, you can save hundreds of gallons of water every year. The system works by redirecting the rinse water. This kit pumps the rinse water into the hot water side of your water supply instead of being wasted down the drain. With the use of the supplied 24 volt pump, your hot water supply will accept the rinse water and mix with the hot water. This process can be done because when you use your hot water under normal circumstances, the water coming from your hot water side is not used for potable water. Also by adding this kit to your existing Reverse Osmosis system, you will be able to increase the membrane production and fill the storage tank faster.

Kit Includes:

- Booster Pump
- Electronic Shutoff Solenoid
- Pressure Switch
- Transformer
- Double Check Valve
- Flow Restrictors
- Quick Connect Wiring Harness
- Tubing and Fittings for most standard installations

System Requirements

- Requires a Non-Switch 110 volt electrical outlet independent from the garbage disposal that has continuous power to the pump.
- Not for use on homes equipped with tank-less water heaters.
- Not recommended for use on homes equipped with a backflow prevention on the hot water heater.
- Must be installed a minimum of 25 Pipe Feet from water heater.



WP501026 (ZeroWaste® Kit)

ORDERING CODE
WP501026*

*110v Outlet Required.

Booster Pump Kit for Generic RO Systems

This booster pump kit for RO systems increases the efficiency and flow of water in areas especially in low water pressure applications with water pressure lower than 40 psi. This pump kit is designed to work with any RO water filtration system and comes with everything needed to connect to an existing water filtration device.

Kit Includes:

- Booster Pump
- Pressure Switch
- Transformer
- Tubing and Fittings for most standard installations

System Requirements

- Requires a Non-Switch 110 volt electrical outlet independent from the garbage disposal that has continuous power to the pump.



WP560043 (Booster Pump Kit)

ORDERING CODE
WP560043*

*110v Outlet Required.

Reverse Osmosis RX-40 Series

Connection Size: 3/4"Max. Productivity: 2500, 5000 and 7500 GPD

Features & Benefits

- Built-in Feed and Permeate Water Conductivity meter with high conductivity alarm output
- Ultra low energy membranes, 98% nominal salt rejection
- Membrane Auto Flush
- Powder coated steel support frame
- Corrosion resistant 300 psi FRP high-pressure membrane housings
- Pressure gauge for pre-filter pump discharge
- Low feed water pressure safety switch
- Digital microprocessor based controller with 4 line, 20 character LCD backlit display
- 20" prefilter
- Multistage centrifugal pump
- Tank level and pretreatment interlock inputs
- Permeate, reject recycle, and reject water flow meters
- Adjustable reject and reject recycle valves
- Permeate check valve
- Automatic inlet solenoid valve
- Dedicated outlet from RO panel for chemical feed control



RX-4040-03-1

Reverse Osmosis Systems

MODEL NO.	ORDERING CODES	MAXIMUM PRODUCTIVITY (GPD)	MEMBRANE SIZE (IN)	# OF MEMBRANES	FEED WATER CONNECTION	PRODUCT WATER CONNECTION	REJECT WATER CONNECTION	PERMEATE WATER (GPM)	ELECTRICAL REQUIRED	DIMENSIONS (IN)	SHIP WT. (LBS.)
RX-4040-01-1	68111204	2500	4" x 40"	1	3/4" NPTF	5/8"	5/8"	1.74	110V 12 amps	20 x 22 x 56	120
RX-4040-02-1	68111205	5000	4" x 40"	2	3/4" NPTF	5/8"	5/8"	3.47	110V 12 amps	20 x 22 x 56	150
RX-4040-03-1	68111206	7500	4" x 40"	3	3/4" NPTF	5/8"	5/8"	5.21	230V 15 amps	20 X 26 X 56	180

Reverse Osmosis LC-25 Series

Connection Size: 3/8" Max. Productivity: 200 and 300 GPD

Features & Benefits

- Ultra low energy membranes with 98.5% nominal salt rejection
- Three-way valve for feed blending
- TDS sensor for permeate water quality monitoring
- Membrane Auto Flush
- Compact Wall mount bracket
- FRP high-pressure membrane housings
- Pressure gauge for pre-filter pump discharge pre-filter feed pressure, permeate product
- High water pressure safety switch
- 10" sediment filter for pre-treatment, and carbon blocks for pre-treatment and post-treatment
- High Flow Booster Pump
- Permeate, reject recycle, and reject water flow meters
- Tank high pressure switch
- Permeate check valve
- Automatic inlet solenoid valve



Series LC-2521-01-1

MODEL NO.	ORDERING CODES	MAXIMUM PRODUCTIVITY (GPD)	MEMBRANE SIZE	# OF MEMBRANES	FEED WATER CONNECTION	PRODUCT WATER CONNECTION	REJECT WATER CONNECTION	PERMEATE WATER (GPM)	ELECTRICAL REQUIRED	DIMENSIONS (IN)	SHIP WT. (LBS.)
LC-2514-01-1	68111200	200	2.5" x 14"	1	3/8 tubing	3/8 tubing	3/8 tubing	0.14	110V 1.0A	9 x 20 x 19	42
LC-2521-01-1	68111201	300	2.5" x 21"	1	3/8 tubing	3/8 tubing	3/8 tubing	0.21	110V 1.0A	9 x 27 x 19	50

Reverse Osmosis LC-30 Series

Connection Size: 1/2" (IN), 3/8" (OUT) Max. Productivity: 750 and 1500 GPD

Features & Benefits

- Built-in Permeate Water Conductivity meter with high conductivity alarm output (optional)
- Three-way valve for feed blending
- Powder coated steel support frame
- Corrosion resistant 300 psi FRP high-pressure membrane housings
- Pressure gauge for pre-filter pump discharge pre-filter feed pressure, permeate product
- Low feed water pressure safety switch
- Sediment filter and carbon block for pre-treatment (carbon block for LC-3018-01-1 only)
- High efficiency carbonator motor with rotary pump
- Ultra low energy membranes 98.5% nominal salt rejection
- Permeate, reject recycle, and reject water flow meters
- Adjustable reject and reject recycle valves
- Permeate check valve
- Automatic inlet solenoid valve to allow pre-treatment interlock



LC-3018-02-1

MODEL NO.	ORDERING CODES	MAXIMUM PRODUCTIVITY (GPD)	MEMBRANE SIZE	# OF MEMBRANES	FEED WATER CONNECTION	PRODUCT WATER CONNECTION	REJECT WATER CONNECTION	PERMEATE WATER (GPM)	ELECTRICAL REQUIRED	DIMENSIONS (IN)	SHIP WT. (LBS.)
LC-3018-01-1	68111202	750	3" x 18"	1	1/2" QC	3/8" QC	3/8" QC	0.52	110V 6.6A	17 x 13 x 34	50
LC-3018-02-1	68111203	1500	3" x 18"	2	1/2" QC	3/8" QC	3/8" QC	1.04	110V 8.2A	17 x 13 x 34	60

Reverse Osmosis LC-40 Series

Connection Size: 1" Max. Productivity: 2500, 5000, 7500, 10K, 15K and 20K GPD

Features & Benefits

- Built-in Permeate Water Conductivity meter with high conductivity alarm output
- Ultra low energy membranes, 98% nominal salt rejection
- Membrane Auto Flush
- Powder coated steel support frame
- Corrosion resistant 300 psi FRP high-pressure membrane housings
- Pressure gauge for pre-filter pump discharge
- Low feed water pressure safety switch
- Digital microprocessor based controller with 4 line, 20 character LCD backlit display
- 20" prefilter
- Multistage centrifugal pump
- Tank level and pretreatment interlock inputs
- Permeate, reject recycle, and reject water flow meters
- Adjustable reject and reject recycle valves
- Permeate check valve
- Automatic inlet solenoid valve
- Dedicated outlet from RO panel for chemical feed control



LC-4040-08-1

MODEL NO.	ORDERING CODES	MAXIMUM PRODUCTIVITY (GPD)	MEMBRANE SIZE (IN)	# OF MEMBRANES	FEED WATER CONNECTION	PRODUCT WATER CONNECTION	REJECT WATER CONNECTION	PERMEATE WATER (GPM)	ELECTRICAL REQUIRED	DIMENSIONS (IN)	SHIP WT. (LBS.)
LC-4040-01-1	68111207	2500	4" x 40"	1	1" FNPT	1/2" QC	1/2" QC	1.74	220V, 60Hz, 1pH, 8.5A	25 x 16 x 55	
LC-4040-02-1	68111208	5000	4" x 40"	2	1" FNPT	1/2" QC	1/2" QC	3.47		25 x 16 x 55	
LC-4040-03-1	68111209	7500	4" x 40"	3	1" FNPT	1/2" QC	1/2" QC	5.21	220V, 60Hz, 1pH, 11A	32 x 24 x 55	
LC-4040-04-1	68111210	10,000	4" x 40"	4	1" FNPT	1" FNPT	1" FNPT	6.94		32 x 24 x 55	
LC-4040-06-1	68111211	15,000	4" x 40"	6	1" FNPT	1" FNPT	1" FNPT	10.42		32 x 24 x 55	
LC-4040-08-1	68111212	20,000	4" x 40"	8	1" FNPT	1" FNPT	1" FNPT	13.89		32 x 24 x 55	120

Reverse Osmosis HC-40 Series

Connection Size: 1" Max. Productivity: 2000 GPD to 24K GPD

Features & Benefits

- Built-in Permeate Water Conductivity meter with high conductivity alarm output
- Ultra low energy membranes, 98% nominal salt rejection
- Membrane Auto Flush
- Powder coated aluminum support frame
- Corrosion resistant 300 psi FRP high-pressure membrane housings
- Pressure gauge for pre-filter pump discharge
- Low feed water pressure safety switch
- Digital microprocessor based controller with 2 line, 20 character LCD backlit display
- 20" prefilter
- Multistage centrifugal pump
- Tank level and pretreatment interlock inputs
- Permeate, reject recycle, and reject water flow meters
- Adjustable reject and reject recycle valves
- Permeate check valve
- Automatic inlet solenoid valve
- Dedicated outlet from RO panel for chemical feed control



HC-4040-12-1

MODEL NO.	ORDERING CODES	MAXIMUM PRODUCTIVITY (GPD)	MEMBRANE SIZE	# OF MEMBRANES	FEED WATER CONNECTION	PRODUCT WATER CONNECTION	REJECT WATER CONNECTION	PERMEATE WATER (GPM)	ELECTRICAL REQUIRED	DIMENSIONS (IN)	SHIP WT. (LBS.)
HC-4040-01-1	68111213	2000	4" x 40"	1	1" FNPT	3/4" FNPT	3/4" FNPT	1.4	220V, 60Hz, 1pH, 8.8A	26 x 26 x 60	250
HC-4040-02-1	68111214	4000	4" x 40"	2	1" FNPT	3/4" FNPT	3/4" FNPT	2.8		26 x 26 x 60	290
HC-4040-03-1	68111215	6000	4" x 40"	3	1" FNPT	3/4" FNPT	3/4" FNPT	4.2		26 x 26 x 60	330
HC-4040-04-1	68111216	8000	4" x 40"	4	1" FNPT	1" FNPT	1" FNPT	5.6		32 x 26 x 60	370
HC-4040-05-1	68111217	10,000	4" x 40"	5	1" FNPT	1" FNPT	1" FNPT	7.0	220V, 60Hz, 1pH, 16A	32 x 26 x 60	430
HC-4040-06-1	68111218	12,000	4" x 40"	6	1" FNPT	1" FNPT	1" FNPT	8.4		32 x 26 x 60	470
HC-4040-08-1	68111219	16,000	4" x 40"	8	1" FNPT	1" FNPT	1" FNPT	11.2		32 x 50 x 60	540
HC-4040-10-1	68111220	20,000	4" x 40"	10	1" FNPT	1" FNPT	1" FNPT	14		32 x 50 x 60	620
HC-4040-12-1	68111221	24,000	4" x 40"	12	1" FNPT	1" FNPT	1" FNPT	16.8		32 x 50 x 60	700

Reverse Osmosis HC-40 Series

Connection Size: 2" - 4" Max. Productivity: 22 GPM to 238 GPM

Features & Benefits

- Built-in Feed and Permeate Water Conductivity meter with high conductivity alarm output
- Low energy heavy duty brackish membranes, 99.1% nominal salt rejection. 440 sqft
- Membrane Auto Flush
- Powder coated carbon steel support frame
- Corrosion resistant 300 psi FRP high-pressure membrane housings
- Pressure gauge for pre-filter pump discharge
- Low feed water pressure safety switch
- Digital microprocessor based controller with 2 line, 20 character LCD backlit display
- 20" prefilter in a stainless steel filter housing
- Multistage centrifugal pump
- Tank level and pretreatment interlock inputs
- Permeate, and reject water flow meter sensors
- Adjustable reject and reject recycle valves
- Permeate check valve
- Automatic inlet solenoid valve /actuated control valve
- Dedicated outlet from RO panel for chemical feed control



HC-8040-07-6

Optional Features

- Feed blending valve
- Advanced controller with more complex monitoring & controlling functions (default for HC-8040-06-2 and larger)
- pH sensor
- ORP sensor
- Permeate sampling port
- Various power option: 220VAC 3PH 50Hz, 380VAC 3PH 50Hz, 460VAC 3PH 60Hz

MODEL NO.	ORDERING CODES	MAXIMUM PRODUCTIVITY (GPD)	MEMBRANE SIZE	# OF MEMBRANES	FEED WATER CONNECTION	PRODUCT WATER CONNECTION	REJECT WATER CONNECTION	PERMEATE WATER (GPM)	ELECTRICAL REQUIRED	DIMENSIONS (IN)	SHIP WT. (LBS.)
HC-8040-04-1	68111222	22	8" x 40"	4	2" FNPT	1.5" FNPT	1.25" FNPT	22	230V, 60Hz, 3pH	72x35x74	1305
HC-8040-05-1	68111223	27.5	8" x 40"	5	2" FNPT	1.5" FNPT	1.25" FNPT	27.5		72x35x74	1385
HC-8040-06-1	68111224	33	8" x 40"	6	2" FNPT	1.5" FNPT	1.25" FNPT	33		72x35x80	1465
HC-8040-04-2	68111225	44	8" x 40"	8	2" FNPT	2" FNPT	1.25" FNPT	44		112x38x74	1585
HC-8040-05-2	68111226	55	8" x 40"	10	2" FNPT	2" FNPT	1.25" FNPT	55		112x38x74	1735
HC-8040-06-2	68111227	66	8" x 40"	12	3" FNPT	2.5" FNPT	1.5" FNPT	66		112x35x80	1885
HC-8040-04-4	68111228	88	8" x 40"	16	3" FNPT	2.5" FNPT	1.5" FNPT	88		194x41x78	2275
HC-8040-05-4	68111229	110	8" x 40"	20	3" FNPT	3" FNPT	2" FNPT	110		194x41x78	2645
HC-8040-06-4	68111230	132	8" x 40"	24	3" FNPT	3" FNPT	2" FNPT	132		194x41x85	2910
HC-8040-05-6	68111231	165	8" x 40"	30	4" FNPT	3" FNPT	2" FNPT	165		276x60x85	3500
HC-8040-06-6	68111232	200	8" x 40"	36	4" FNPT	3" FNPT	2" FNPT	200		276x60x85	3930
HC-8040-07-6	68111233	238	8" x 40"	42	4" FNPT	4" FNPT	2" FNPT	238		276x60x85	4450

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
Watts SmartStream Systems With A Series Controllers						
T7400000	WA002ABAX	2	3/8" MNPT	120V/US	68109050	68109055
T7400016	WA008ADAX	8	3/4" MNPT	120V/US	68109052	68109057
T7400024	WA012AEAX	12	1" MNPT	120V/US	68109049	68109054

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.

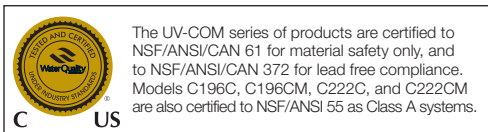
The advanced design of the Watts UV-COM enables the effective disinfection of legionella contaminated waters with hardness levels as high as 50 grains per gallon and iron levels up to 3 mg/L without pre-treatment in order to maintain water clarity and mitigate scale buildup.

Advanced Features for Superior Performance

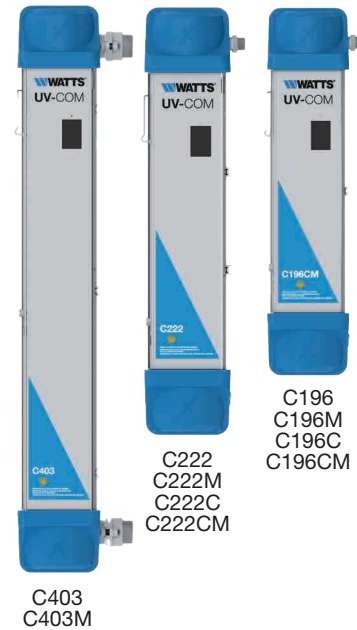
- Stainless steel manifold, easily accessible UV chamber with safety interlock, quartz sleeve(s), UV lamp(s), and full-color touchscreen controls with BAS integration through Modbus protocol (Modbus function available for specified models only)
- Dual air-mounted lamps with forced air cooling for optimal 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



*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	
Ordering Code	68111100	68111105	68111101	68111106	68111102	68111107	68111103	68111108	68111104	68111109
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 ²)	40 (minimum)									
UV transmittance	95% ¹		Min. 75%		95% ¹		Min. 75%		95% ¹	
Maximum Water Hardness	50 gpg									
Maximum Iron (in water)	3 ppm									
Air temperature	34 - 104°F									
Water temperature	34 - 131°F ²									
Water pressure	5 - 100 psig									
Relative humidity (air)	Max 70%									
Max pressure drop	10 psi		22.7 psi ³		13 psi		22.7 psi ³		5 psi	

¹ Min. water UV Transmittance for 40 mJ/cm² dose.

² 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.

³ 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 ⁴	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)									

¹Calibrated 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.

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
- High capacity carbon block filter cartridge with 0.5 micron nominal particle size reduction and 84,480 gallon rated filter cartridge life span
- Single filter cartridge to replace for speed and ease of service
- System includes Watts' robust Big Bubba filter housing made of glass reinforced polypropylene for trusted and dependable performance
- Union style plumbing connections with 1" NPT ports for fast installation and removal of plumbing
- Dual outlets to accommodate a multitude of plumbing configurations
- Includes floor anchoring hardware and inlet water pressure gauge

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 Cartridge Carbon 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

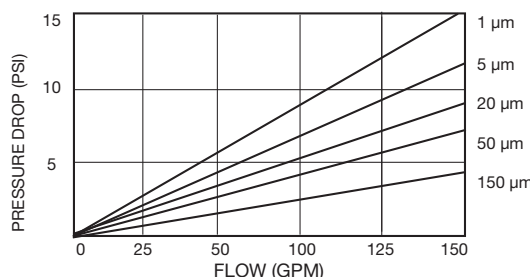
Big Bubba® Cartridge Filters housings are designed to minimize pressure drop, by using 2" pipe fittings and large diameter center tubes. (See chart at right for pressure drop data using pleated cartridges.)

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

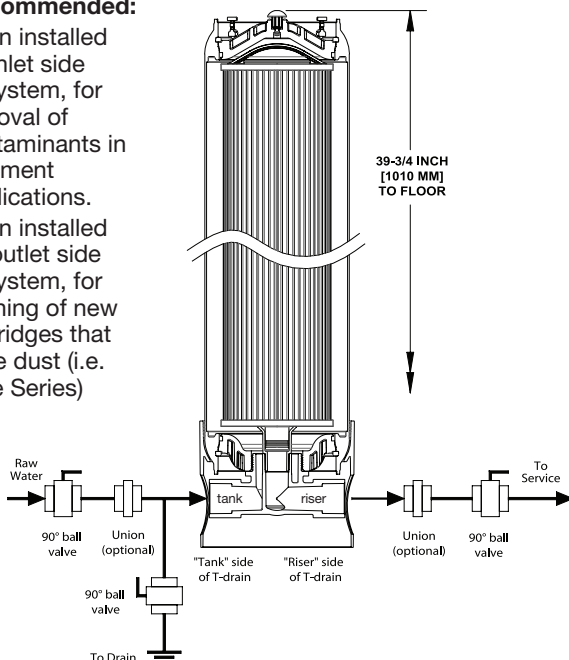
Applications

- 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

ONE
Water Filtration Simplified®



Models and Components

Units sold fully assembled. Available Plumbing Connections:

Ordering Code - 68107722 Model # SCT125 - 1-1-4"

Color-Coded Cartridge Filtration Series

OR GR YE BL WH

Ordering Code - 68107695 Model #SCT-1/4NPTLID



Top Cap option with pressure release Valve & Removal Handles

Ordering Code - 68107701 Model #SCT-2.5LID



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

Ordering Code - 68107719 Model SCT-RETAINRING



Snap Ring with I.D. Tag connection.

Ordering Code - 68107700 Model SCT-2.5DRAIN

Ordering Code - 68107699 Model 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!

MODEL NO.	ORDERING CODE	MICRON RATING
SCT-1005	68107696	External 10 Micron Pleated pre-filter with 5 micron pleated internal filter
SCT-2010	68107703	External 20 Micron Pleated pre-filter with 10 micron pleated internal filter
SCT-5020	68107710	External 50 Micron Pleated pre-filter with 20 micron pleated internal filter

Applications

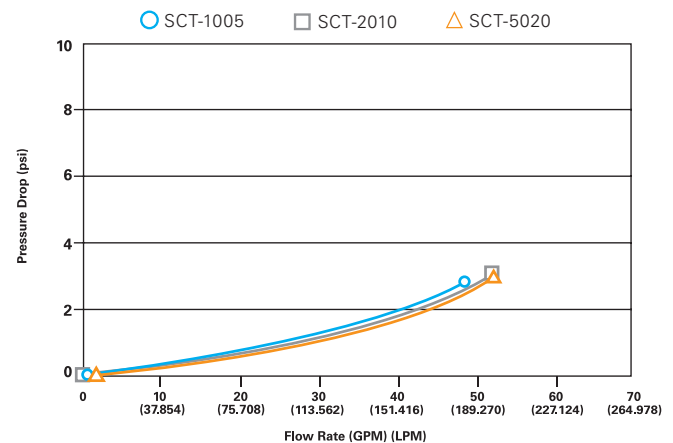
- Ideal for Residential, Foodservice,
- Rental Fleets, Commercial and Industrial Applications
- Make-up Water, RO Pre-filtration, Cooling Towers, Chill Water Loops, Metal Finishing
- Process Water (turbidity, particulate, colloidal suspensions)



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 ft², as compared to a typical single layer 2½"x20 filter, is approximately 7ft² of filter media area, and a 4 ½"x20 is approximately 16ft². We have nearly 6.5x open area compared to standard 4.5x20 filters...100ft² vs. 16ft² and nearly 14.5x open area compared to standard 2.5x20filters...100ft² vs. 7ft². 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

MODEL NO.	ORDERING CODE	MICRON RATING
SCT-20NANOAG*	68107705	External 20 Micron Pleated pre-filter with NanoAI+™ Pleated inner filter w/Agion+®

*Cartridge SCT-20NANOPACAG is RESTRICT in QAD

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

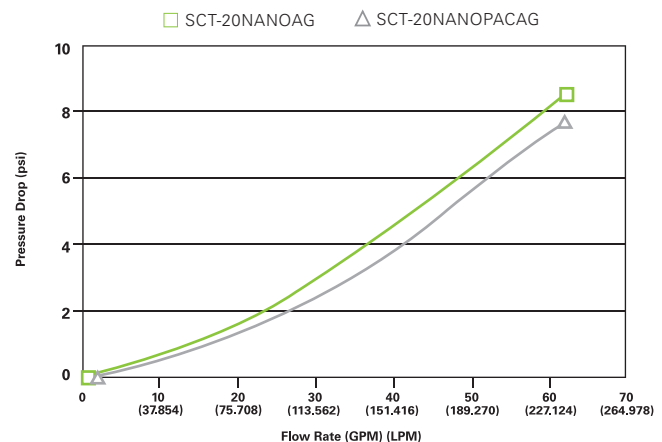
Better Filtration - There's No Competition

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 hydrophylic), 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: Fe₂, Fe₃, Sn, Cu, Cr₃, 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

MODEL NO.	ORDERING CODE	MICRON RATING
SCT-2005SWMB	68107702	External 20 Micron String Wound pre-filter with 5 micron Melt Blown Core
SCT-5020SWMB	68107711	External 50 Micron String Wound pre-filter with 20 micron Melt Blown Core

Applications

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



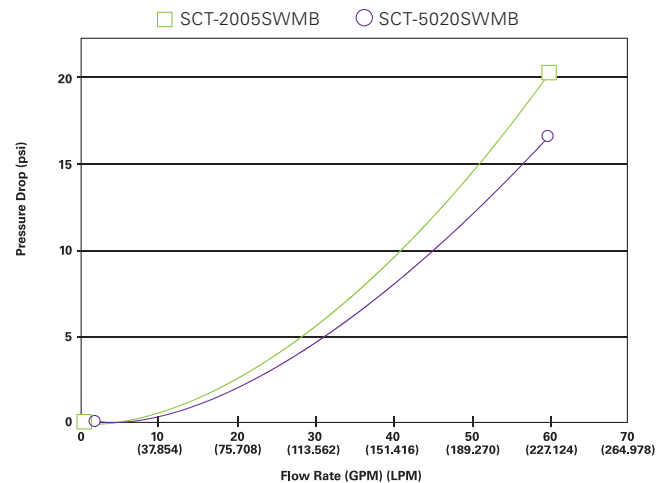
Better Filtration - There's No Competition

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

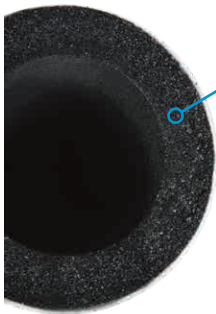
Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

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.

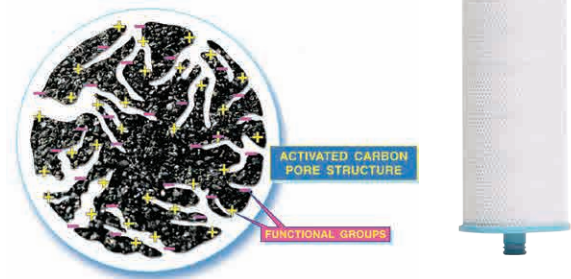


Features & Benefits

- 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

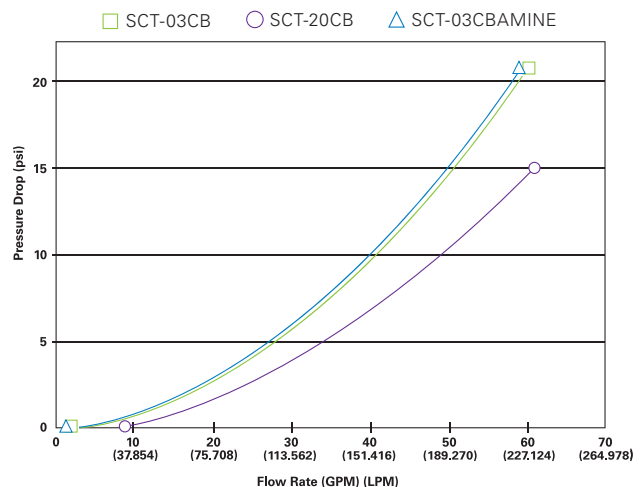
Applications

- 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



MODEL NO.	ORDERING CODE	MICRON RATING
SCT-03CB	68107693	3 micron nominal
SCT-20CB	68107704	20 micron nominal

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 ft³ 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

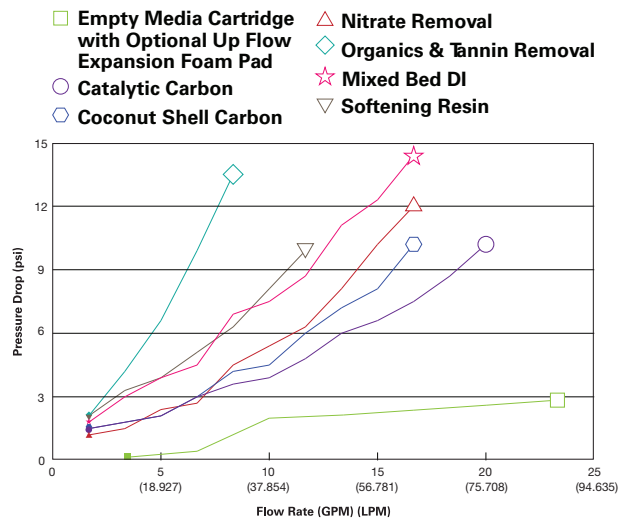
- Deal for Residential, Food/Beverage Service, Rental Fleets, Service DI Exchange, Plating solutions, Commercial and Industrial Applications
- Metal finishing, Oxidizing agents, Corrosive fluids, Electronics, Pre-RO, Process Water, Waste Water, Cooling Towers, Make-up Water, Polishing Filters, Primary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

MODEL NO.	ORDERING CODE	MICRON RATING
SCT-MEDIA05	68107714	Full 0.5ft ³ able to be filled with any media for up-flow or down-flow

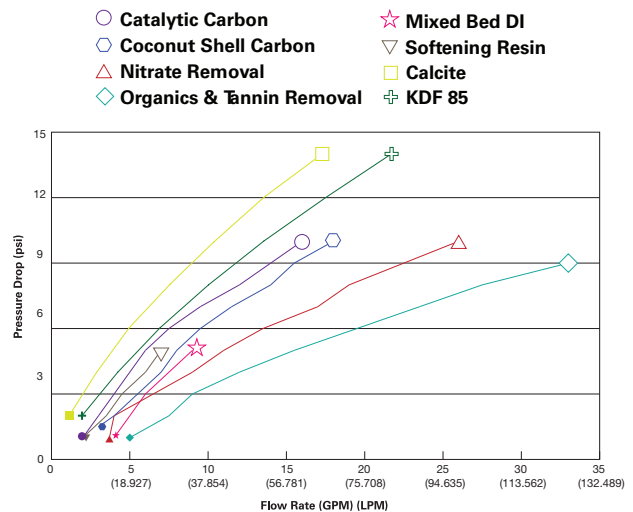


Filter Performance

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.

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"
FM4X3	68102171	4	90	80	2" NPT	1/2"	4	29-1/4" - 30"
FM4X4	68102172	4	120	105	2" NPT	1/2"	4	40" (or two 20" per rod)
FM5X4	68102177	5	150	135	2" NPT	1/2"	5	40" (or two 20" per rod)
FM12X3	68102146	12	250	225	3" flange	1/2"	12	29-1/4" - 30"
FM12X4	68102147	12	300	265	3" flange	1/2"	12	40" (or two 20" per rod)
FM22X3	68102160	22	500	445	3" flange	1/2"	22	29-1/4" - 30"
FM22X4	68102161	22	600	535	3" flange	1/2"	22	40" (or two 20" per rod)

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.

Flow-Max® Jumbo Series Housings

MODEL NO.	ORDERING CODE	MATERIAL	MAX. FLOW RATE (GPM)	CARTRIDGE STYLE	NO. OF STANDARD CARTRIDGES	PIPE SIZE	LID CLOSURE
FMJCH40	68102223	316SS	50	"40"	1	2" NPT	V-Band
FMJCH90	68102224	316SS	100	"90"	1	2" NPT	V-Band
FMJCH170	68102222	316SS	150	"170"	1	2" NPT	V-Band

Flow-Max® Jumbo Series Housings

MODEL NO.	ORDERING CODE	MATERIAL	MAX. FLOW RATE (GPM)	CARTRIDGE STYLE	NO. OF STANDARD CARTRIDGES	PIPE SIZE	LID CLOSURE
FMJCH40	68102223	316SS	50	"40"	1	2" NPT	V-Band
FMJCH90	68102224	316SS	100	"90"	1	2" NPT	V-Band
FMJCH170	68102222	316SS	150	"170"	1	2" NPT	V-Band

Flow-Max® Jumbo Housing Cartridges

MODEL NO.	ORDERING CODE	MICRON RATING	LENGTH	O.D. (IN.)	CARTON SIZE (IN.)	SHIPPING WEIGHT (LBS.)
FMHC-40-0.35EZ	68102208	0.35	9-5/8	7-3/4	10X12X12	4
FMHC-40-1EZ	68102211	1	9-5/8	7-3/4	10X12X12	3
FMHC-40-5EZ	68102214	5	9-5/8	7-3/4	10X12X12	3
FMHC-40-20EZ	68102212	20	9-5/8	7-3/4	10X12X12	3
FMHC-40-50EZ	68102213	50	9-5/8	7-3/4	10X12X12	3
FMHC-40-100	68102209	100	9-5/8	7-3/4	10X12X12	3
FMHC-90-0.35EZ	68102215	0.35	19-1/2	7-3/4	8X8X20	6
FMHC-90-1EZ	68102218	1	19-1/2	7-3/4	8X8X20	5
FMHC-90-5EZ	68102221	5	19-1/2	7-3/4	8X8X20	5
FMHC-90-20EZ	68102219	20	19-1/2	7-3/4	8X8X20	5
FMHC-90-100	68102216	100	19-1/2	7-3/4	8X8X20	5
FMHC-90-150M	68102217	150	19-1/2	7-3/4	8X8X20	5
FMHC-170-0.35EZ	68102200	0.35	30-3/4	7-3/4	8X8X31	15
FMHC-170-1EZ	68102204	1	30-3/4	7-3/4	8X8X31	14
FMHC-170-5EZ	68102207	5	30-3/4	7-3/4	8X8X31	14
FMHC-170-10EZ	68102202	10	30-3/4	7-3/4	8X8X31	14
FMHC-170-20EZ	68102205	20	30-3/4	7-3/4	8X8X31	14
FMHC-170-50EZ	68102206	50	30-3/4	7-3/4	8X8X31	14
FMHC-170-100EZ	68102201	100	30-3/4	7-3/4	8X8X31	14

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
FMPPFB2-1	68102256	#2	7" x 32"	PP	1	50
FMPPFB2-5	68102260	#2	7" x 32"	PP	5	50
FMPPFB2-10	68102257	#2	7" x 32"	PP	10	50
FMPPFB2-25	68102259	#2	7" x 32"	PP	25	50
FMPPFB2-50	68102261	#2	7" x 32"	PP	50	50
FMPPFB2-100	68102258	#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 preemptively 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-R-RM	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

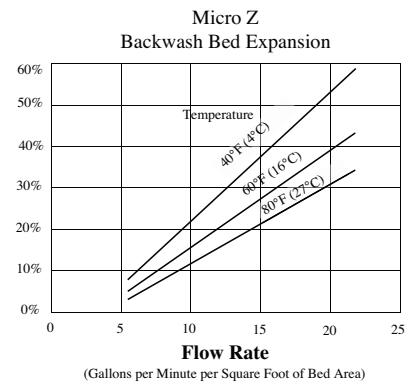
Recommended bed depth	36" - 48"
Recommended freeboard	50% of bed depth
Service flow rate	12-20 GPM/sq. ft.
Backwash flow rate	12-18 GPM/sq. ft.
Backwash bed expansion	30-40 percent

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

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

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

Carbon Media Types

Bituminous	Basic coal based granular media
Coconut shell	Superior level of hardness; high activity level; trihalomethane removal; longer life expectancy;
Acid washed	Increases adsorptive capacity of carbon base and lowers the level of impurities.
Catalytic	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/ft³ 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 ² /g
Apparent density	490 kg/m ³
Bed density, backwashed and drained	420 kg/m ³
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/ft3
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/ft3
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/ft3
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.



Certified to NSF/ANSI/CAN 61

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.

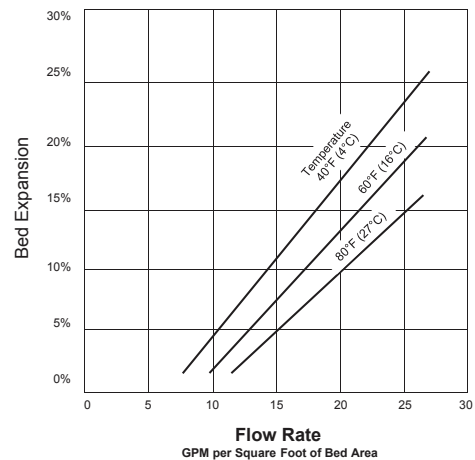
Testing For ORP

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.

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

Model No.	Ordering Code	Brands	OD (IN)	Length (IN)	Flow Rate (GPM)	Micron Rating (Nominal)	Reduction of		
							Chlorine Reduction Gallon Rating*	Chloramine Reduction Gallon Rating	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		
2-3/4 IN OD Cartridges									
WCB10-CHLORA	68108655	Watts	2 3/4	9 3/4	1	1	25,000	3,400	
2-7/8 IN OD Cartridges									
MAXCL-975	68105668	C-MAX	2 7/8	9 3/4	1	1	20,000		
MAXPB	68105678	C-MAX	2 7/8	9 3/4	1	0.5	20,000		✓
MAXETW-975	68105674	C-MAX	2 7/8	9 3/4	1	5	3,000		
MAXETW-20	68105672	C-MAX	2 7/8	20	1	5	6,000		
MAXETW-30	68105672	C-MAX	2 7/8	30	1	5	9,000		
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		
S7722A	68107644	Pentair	2 7/8	9 7/8	1	0.5	-		

Note: For individual chlorine claims see individual product page

Carbon Cartridges Selection Guide — cont.

Model No.	Ordering Code	Brands	OD (IN)	Length (IN)	Flow Rate (GPM)	Micron Rating (Nominal)	Reduction of	
							Chlorine Reduction Gallon Rating*	
4-1/2 IN OD Cartridges								
WCBFF975	68108665	Watts	4 1/2	9 3/4	3	5	25,000	
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			✓
SCL10	68107691	Watts	2	10	0.75			✓
K2533JJ	68103729	Watts	2	10	0.75			✓
GS10CAL/ROB	68102576	Watts	2	10	0.75			✓

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.

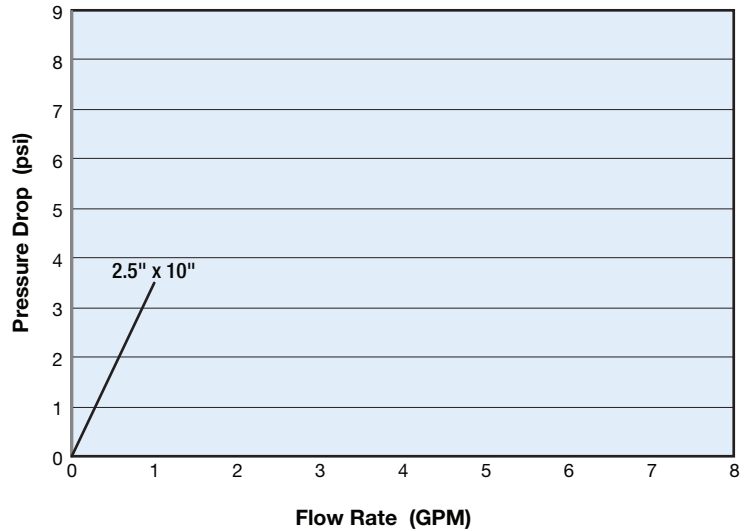
Watts ChloraBlock Filter Models

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

ChloraBlock 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

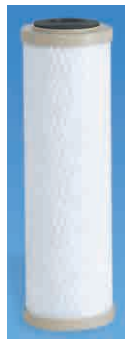


Full-Flow(B-B)

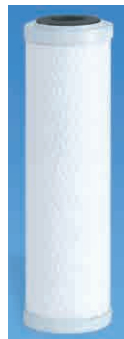
Full Product Line With Color Coded End Caps To Indicate Cartridge Type



MAX-ETW



MAX-C



MAX-T



MAX-CL



MAX-PB

Cartridge Selection Guide

CARTRIDGE TYPE	WALL	CARBON TYPE	MICRON (NOMINAL)	PARTICLE SIZE	CHLORINE	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	✓	
MAXPB	Thick	Coconut shell	0.5	Fine		✓

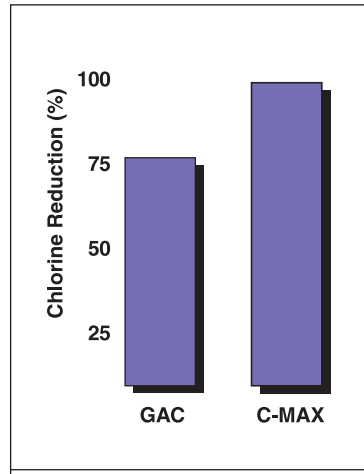
C-MAX® carbon block cartridges are tested and certified by NSF International under NSF / ANSI Standard 42 for materials only. Performance claims are supported by company test results. (Model # MAXETW-30 is not certified by NSF International.)

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.



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.

High Chlorine Reduction

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
MAXETW-20	68105672	Thick Wall	2-7/8"	20"	5 nominal	20,000 gal @ 2 gpm	6
MAXETW-30	68105673	Thick Wall	2-7/8"	30"	5 nominal	25,000 gal @ 2 gpm	6
MAXETW-FF975	68105677	Thick Wall	4-5/8"	9-3/4"	5 nominal	25,000 gal @ 3 gpm	4
MAXETW-FF20	68105676	Thick Wall	4-5/8"	20"	5 nominal	55,000 gal @ 7 gpm	6

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

MAX-PB, Coconut shell block cartridges for lead reduction

MODEL NO.	ORDERING CODE	TYPE	OD	LENGTH	MICRON RATING	CHLORINE REDUCTION	NO. / CASE
MAXPB-975	68105678	Lead	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

MAX-ETW, Thick Walled Carbon for Chlorine Taste and Odor Reduction

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
MAXETW-20	68105672	Thick Wall	2-7/8"	20"	5 nominal	20,000 gal @ 2 gpm	6
MAXETW-30	68105673	Thick Wall	2-7/8"	30"	5 nominal	25,000 gal @ 2 gpm	6
MAXETW-FF975	68105677	Thick Wall	4-5/8"	9-3/4"	5 nominal	25,000 gal @ 3 gpm	4
MAXETW-FF20	68105676	Thick Wall	4-5/8"	20"	5 nominal	55,000 gal @ 7 gpm	6

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*

Recommended Flow Rate

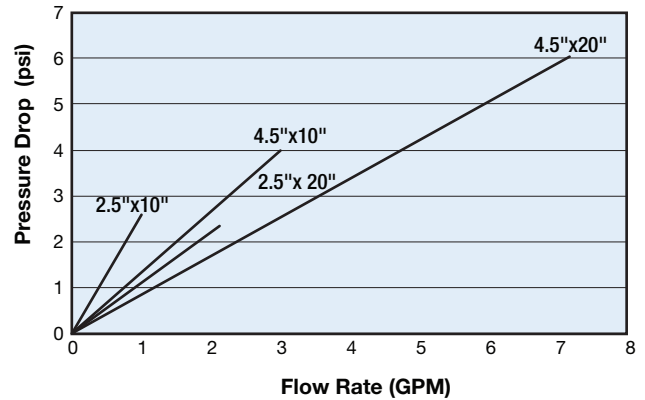
MODEL NO.	ORDERING CODE	OD	LENGTH	GPM
F109009	68101466	2.5"	9-3/4"	1
F109020	68101468	2.5"	20"	2
WCBFF975	68108665	4.5"	9-3/4"	3
WCBFF20	68108664	4.5"	20"	7



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
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

Model No.	Ordering Code	Brands	OD (IN)	Length (IN)	Micron Rating (Nominal)	Flow Rate (GPM)	Filter Style		
							Pleated	Spun - Melt Blown	String Wound
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.

Model No.	Ordering Code	Brands	OD (IN)	Length (IN)	Micron Rating (Nominal)	Flow Rate (GPM)	Filter Style		
							Pleated	Spun - Melt Blown	String Wound
2-1/2 IN OD Cartridges (cont.)									
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			✓	
FPP-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			✓	
2-3/4 IN OD Cartridges									
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.

Model No.	Ordering Code	Brands	OD (IN)	Length (IN)	Micron Rating (Nominal)	Flow Rate (GPM)	Filter Style		
							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!

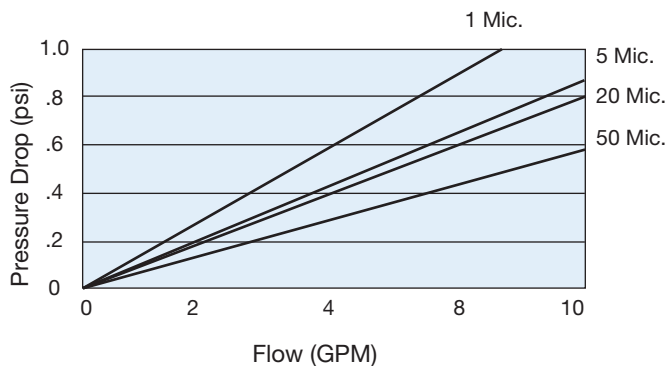


Specifications

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
- All filters are manufactured of virgin polypropylene materials
- 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 requirements for food contact per CFR 21 174.5, 177.1520 and 177.1630. All Components meet USP Class VI Plastics biological reactivity tests.

Dimensions

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

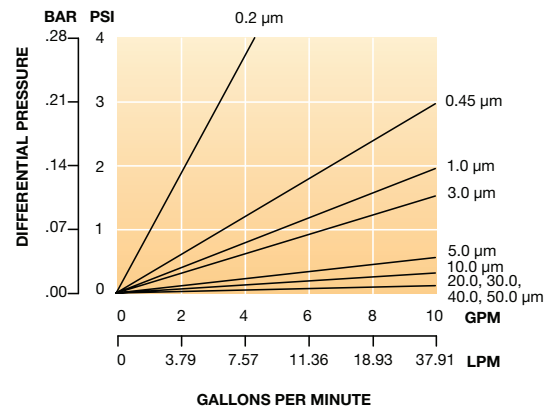


Filter Removal Efficiency

BETA RATIO	10000	5000	100	50	10
EFFICIENCY	99.99%	99.98%	99%	98%	90%
1 micron	1.2	1.0	0.6	0.3	0.25
5 micron	8.0	5.0	4.0	3.0	2.0

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

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.

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

Wound Cartridges With 304 Stainless Steel Center Tubes - For Temperatures To 200°F (93°C)

MODEL NO.	LENGTH	LENGTH	OD	MICRON	NO. / CASE
MS10FS5	68105721	9-7/8"	2-1/2"	5	30
MS10FS20	68105720	9-7/8"	2-1/2"	20	30
MS10FS50	68105722	9-7/8"	2-1/2"	50	30
MS20FS5	68105729	20"	2-1/2"	5	15
MS20FS20	68105728	20"	2-1/2"	20	15
MS30FS5	68105731	30"	2-1/2"	5	15
MS30FS20	68105730	30"	2-1/2"	20	15
MS40FS5	68105733	40"	2-1/2"	2	10
MS40FS20	68105732	40"	2-1/2"	20	10

Specialty Cartridges Selection Guide

MODEL NO.	ORDERING CODE	BRANDS	OD	LENGTH	CAPACITY
Specialty Media Filter Cartridges - 2-1/2" x 9-3/4"					
IF-SM-AA010 - Fluoride Reduction	68103436	Watts	2.5	9 3/4	4,500 mg/l
IF-SM-CC010 - Calicte to Increase pH	68103440	Watts	2.5	9 3/4	5,000 Gallons
IF-SM-CG010 - Chloramine, Hydrogen Sulfide Reduction	68103446	Watts	2.5	9 3/4	1,500 Gallons
IF-SM-DI010 - Demineralization to Lower TDS	68103450	Watts	2.5	9 3/4	5,000 mg/l
IF-SM-DI010C - Demineralization to Lower TDS	68103453	Watts	2.5	9 3/4	5,000 mg/l
IF-SM-KDF010 - GAC/KDF Chlorine Reduction (City Water)	68103461	Watts	2.5	9 3/4	15,000 Gallons
IF-SM-KDF85010 - GAC/KDF Chlorine Reduction (Well Water)	68103470	Watts	2.5	9 3/4	10,000 Gallons
IF-SM-NIT010 - Nitrate Reduction	68103474	Watts	2.5	9 3/4	5,000 mg/l
IF-SM-SCI010 - Phosphate - Scale Prevention	68103477	Watts	2.5	9 3/4	25,000 Gallons
IF-SM-WS010 - Softening - Hardness Reduction	68103487	Watts	2.5	9 3/4	19,000 mg/l
Specialty Media Filter Cartridges - 2-1/2" x 20"					
IF-SM-AA020 - Fluoride Reduction	68103438	Watts	2.5	20	10,000 mg/l
IS-SM-DI020 - Demineralization to Lower TDS	68103455	Watts	2.5	20	11,000 mg/l
IF-SM-DI010C - Demineralization to Lower TDS with Color Indicator	68103458	Watts	2.5	20	11,000 mg/l
IF-SM-KDF020 - GAC/KDF Chlorine Reduction (City Water)	68103465	Watts	2.5	20	30,000 Gallons
IF-SM-SCI020 - Phosphate - Scale Prevention	68103479	Watts	2.5	20	60,000 Gallons
IF-SM-WS020 - Softening - Hardness Reduction	68103487	Watts	2.5	20	42,000 mg/l
Specialty Media Filter Cartridges - 4-1/2" x 9-3/4"					
IF-SM-CC010B - Calicte to Increase pH	68103441	Watts	4.5	9 3/4	12,000 Gallons
IF-SM-DI010B - Demineralization to Lower TDS	68103451	Watts	4.5	9 3/4	12,000 mg/l
IF-SM-DI010BC - Demineralization to Lower TDS with Color Indicator	68103452	Watts	4.5	9 3/4	12,000 mg/l
IF-SM-KDF010B - GAC/KDF Chlorine Reduction (City Water)	68103463	Watts	4.5	9 3/4	30,000 Gallons
IF-SM-SCI010B - Scale Prevention with Chlorine Reduction	68103478	Watts	4.5	9 3/4	60,000 Gallons
IF-SM-WS010B - Softening - Hardness Reduction	68103486	Watts	4.5	9 3/4	47,000 mg/l
IF-SM-NIT010B - Nitrate Reduction	68103475	Watts	4.5	9 3/4	12,000 mg/l
Refillable Cartridges with 50 Nominal Micron Rating (Fill with your choice of media)					
RC-C-975-50 - Clear	68107350	Watts	2.5	9 3/4	
RC-W-975-50 - White	68107354	Watts	2.5	9 3/4	
RC-C-20-50 - Clear	68107349	Watts	2.5	20	
RC-W-20-50 - White	68107353	Watts	2.5	20	
RC-C-BB-975-50 - Clear	68107352	Watts	4.5	9 3/4	
RC-W-BB-975-50 - White	68107356	Watts	4.5	9 3/4	
RC-C-BB-20-50 - Clear	68107351	Watts	4.5	20	
RC-W-BB-20-50 - White	68107355	Watts	4.5	20	
Showerhead for Chlorine, Lead, Arsenic, Calcium & Magnesium Reduction					
FMSHWR-KDF55	68102272	Watts			

Media Description

CODE	MEDIA	FUNCTION
AA	Activated Alumnia	Fluoride Reduciton
CC	Calcium Carbonate	Increase pH
CG	Catalytic Carbon	Chloramine, Hydrogen Sulfide Reduction
DI	Mixed Bed Dionization	Demineralization to Lower TDS
DIC	Mixed Bed DI with Color Indication	Demineralization to Lower TDS
KDF	KDF 55 Mixed Copper & Zinc/GAC	Chlorine Reduction (City Water)
KDF	KDF 85 Mixed Copper & Zinc/GAC	Chlorine Reduction (Well Water)
NIT	Anion Resin	Nitrate Reduction
SCI	Polyphosphate	Scale Pevention
SCIG	Polyphosphate/GAC	Scale Pevention with Chlorine Reduction
WS	Cation Resin	Hardness Reduction
NIT	Anion Resin	Nitrate Reduction
SCI	Polyphosphate	Scale Pevention
SCIG	Polyphosphate/GAC	Scale Pevention with Chlorine Reduction
WS	Cation Resin	Hardness Reduction
WS	Cation Resin	Hardness Reduction

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 Reduction
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-AA020	68103438	Activated Alumina - Fluoride Reduction
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
IF-SM-NIT010B	68103475	Nitrate 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 Reduction
IF-SM-SCI020B	68103480	Polyphosphate- Scale Prevention
IF-SM-WS020B	68103488	Softening- Hardness Reduction

Specialty Filter Cartridges - Pentair

MODEL NO.	ORDERING CODE	DESCRIPTION
IF-SM-SCI010	68103477	9.75"x2.75" Polyphosphate Scale & Corrosion Inhibitor Filter

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

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, by 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 PRECHARGE 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 assemblene 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 PRECHARGE 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
C8041	68100885	1500 GAL 64x116 16 LID

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" White Housing

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

MODEL NO.	ORDERING CODES	DESCRIPTION
S7570	68107611	BRACKET KIT FOR 3/4 IN MC-1A KIT
S7577	68107613	BRACKET KIT FOR BB

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



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



T4121



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 ⁺ , Fe ²⁺ , Mn, TA, pH, Cl ₂ , TH, Comparator, and Carrying Case	Colorimetric
T10460	7100706	Total Hardness Kit	Colorimetric, Drop Count, 0-5000ppm/0-30pgg, >100 tests (depends on water hardness)
T10489	7100703	Total Alkalinity Kit	Colorimetric, 0-500 ppm, >100 tests
T10490	7100700	Total Iron (Fe ⁺) Kit	Colorimetric, 0-9 ppm, > 100 tests
T10491	7100701	Ferrous Iron (Fe ²⁺) Kit	Colorimetric, 0-9 ppm, > 100 tests
T10492	7100704	pH Kit	Colorimetric, 6-8 ppm, >100 tests
T10493	7100702	Maganese Kit	Colorimetric, 0-10 ppm, >100 tests
T10494	7100705	Chlorine (Free & Total) Kit	Colorimetric, 0-6 ppm, >100 tests
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



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

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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