

Watts Water Quality Solutions For Water Professionals



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Full service branches are located throughout North America to provide

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.

location.
Water Hardness Range
fast delivery of products. All branch locations can take orders, quote prices, review inventory and check order status.
Call us at 1-800-659-8400Distribution Centers

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

Hawaii
(Calcium Carbonate)
Calcium Carbonate mg/liter
mg/liter

2 3

1
4

7

Puerto Rico
0-60
61-120 121-180 181-250

6
5

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

Why Choose Watts Water Quality?

Watts offers complete system solutions and a single source for all of the water quality products you need to grow your business. Choose Watts for experienced technical support, timely service, and products engineered to simplify installation. Our product line includes innovative solutions for commercial and residential anti-scale, softening, filtration, RO, and UV treatment applications.

Simplify product selection & quoting

The Watts Select Water Quality Configurator is an online tool that makes it easy to configure and price water quality systems. Select products by name or through the automatic sizing feature. View list pricing, documentation and drawings for each project you save online at any time.



Help customers find you online

The Watts Local Marketing Assistance Program offers a mobile friendly website that you can customize with your logo, specials, and contact information. This program also offers custom print and email advertising and a local phone number with lead tracking.



Expert support for custom engineered and commercial projects

Get the support you need to bid on specialty applications and large



scale commercial projects. Our dedicated team can provide design and sourcing support for jobs of any size.

- Custom skid mounted and preplumbed equipment options
- Programmable logic controllers (PLC) on large RO systems
- Pump skids with VFD controls up to 500 gallons per minute
- 3-D cad drawings
- Field service engineering for equipment start up and training

Contact your local Watts representative to learn more about our product line and support services for water quality dealers.^{diaphragm valves.}
48"x60" Carbon Filter with stainless valve nest featuring Watts stainless steel 3"

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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.
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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,

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

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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:

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:

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

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:

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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 can not 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!

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OneFlow® Scale Control Systems

Calcium scale in pipes and

plumbing equipment often in creases 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 Template Assisted Crystallization (TAC) 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 TAC 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?

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 harm less, inactive microscopic crystal particles which are so small they are easily rinsed away by the water flow.

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Pipe

OneFlow Treated

E-Treat Water Conditioning System with OneFlow Scale Prevention

The Watts E-Treat® Water Conditioning System combines the revolutionary scale

prevention capabilities of OneFlow with a coconut shell-activated carbon filter

designed to improve water taste. The E-Treat's filter reduces unpleasant odors,

chlorine, and organic substances typically found in drinking water. Treated water

enables easier rinsing and reduced water usage in addition to improved taste.

Here's how the E-Treat and OneFlow systems work:

Step #1 (Main Tank)

Water enters the system and flows down through a two cubic foot bed of coconut shell-activated carbon. This initial water treatment process improves water quality by reducing bad tastes, foul odors, chlorine, and organic substances through adsorption.

Step #2 (Inner Tank & Contact Chamber)

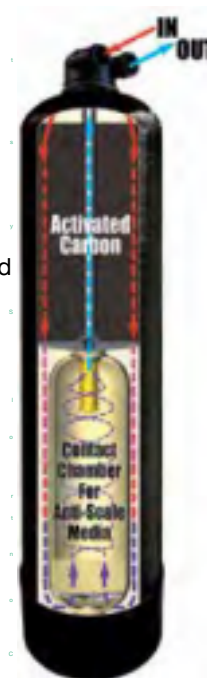
At the same time, water flows upward through the inner tank and through our highly-effective OneFlow anti-scale media. The OneFlow TAC technology pre-emptively attracts hardness minerals and converts them into harmless particles that won't stick to pipes and components.

Installation and Media/Carbon Replacement

E-Treat® water conditioning systems are typically installed where water enters the house for whole house water treatment. Pipe connections are 1" (25mm) in diameter. The anti-scale media is designed to provide whole house water conditioning for up to three years, based on hardness and chlorine levels. We recommend replacing the activated carbon every two years for optimum performance.

Specifications

- Maximum flow rate: 12 gallons per minute



- By-pass valve is included.
- Maximum temperature is 110°F (43°C)
- Minimum temperature 40°F (4°C)
- Maximum hardness: sizing is based on maximum hardness of 25 grains per gallon
- pH range 6.5 to 8.5
- Pressure: Maximum pressure is 125 psi; 8.61 bar (minimum pressure is 20 psi 1.37 bar)
- Tank sizes: Outer tank is 13" x 65". Inner tank is 9" x 30" (outer tank is black)
- Flow pattern: In the outer tank the flow is downward. In the inner tank the flow is up-flow
- Certification: Anti-scale media is NSF/ANSI Standard 61 Certified for material safety

NOTICE

- System comes with 2 cu. ft. of coconut shell carbon and 3 liters of anti-scale media
- A five-micron pre-filter is required if sediment is present in the water
- Hydrogen sulfide, iron, and manganese pretreatment required
- Maximum free chlorine <4 ppm
- Maximum silica 20 ppm**
- Maximum iron 0.3 ppm
- Maximum manganese 0.05 ppm
- Maximum copper 1.3 ppm*
- Oil and grease must be removed prior to E-TREAT • Polyphosphates must be removed prior to E-TREAT

Failure to install the proper pretreatment will cause the scale control media to be ineffective. **Note: OneFlow media does not reduce silica scaling. Silica can act as a binder that makes water spots and scale residue outside the plumbing system difficult to remove. This 20 ppm limitation is for aesthetic purposes.

WARNING

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. *High levels of Copper will foul OneFlow media and typically originates from new Copper plumbing. New copper lines need to be passivated for a minimum of 4 weeks before placing unit into service. Avoid applying excess flux on the inner surfaces of the pipe and to use a low-corrosivity water soluble flux listed under the ASTM B813 standard. Not for use on closed loop systems.

IMPORTANT

The non-electric, "in / out" valve used with E-Treat Systems is designed to be used in both up-flow and down-flow installations. E-Treat Systems are down-flow through the bed of carbon and up-flow through the anti-scale media. Labels are provided; however facing the valve, looking directly into the ports of the valve, the inlet is on the LEFT.

OneFlow® Application Practices (Refer to bottom of Page 10)

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Series OFRES

Whole House OneFlow® Residential Anti-Scale Systems

Connection Size: 1" (25mm)

Flow Rate: Up to 16 gpm (60 lpm)

OneFlow® Residential Anti-Scale Systems provide a home with 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.

These systems are specifically designed for residential applications. OneFlow® Residential systems should be installed at the point-of-entry to a home to treat both the hot and the cold water. OneFlow® Residential systems prevent scale by transforming dissolved hardness minerals into harmless, inactive microscopic crystal particles. These crystals stay suspended in the water and are passed to drain, thereby having a greatly reduced ability to react negatively like dissolved hardness does.

These systems require very little maintenance, no backwashing, no salt, and no electricity. Typical hardness problems, especially build-up of scale in pipes, water heaters, boilers, fixtures, and appliances are no longer a concern. OneFlow® Residential systems are not water softeners or chemical additives (like anti-scalants or sequestrants). They are scale prevention devices with proven third party laboratory test data and years of successful applications. OneFlow® Residential systems are the one water treatment device that effectively provides scale protection in the home and are a great alternative to water softening (ion exchange) or scale sequestering chemicals.



OFRES

Benefits

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
- Perfect system for towns or communities where water softeners are banned or restricted

• OneFlow® - Residential systems can be installed as a pre treatment to reverse osmosis (OneFlow® should be the last stage in treatment unless a point-of-use system is being used downstream.)

PART NUMBER ORDERING CODE

PW7300
096

PW7300
097

PW7300
098

FREQUENCY

OFRES-0835RM Media should be replaced every 3 years
OFRES-0935RM Media should be replaced every 3 years
OFRES-1035RM Media should be replaced every 3 years

- Systems include a bypass valve for a simplified installation

- OneFlow® - Residential systems do not remove minerals or add sodium to the water supply

NOTICE

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

WARNING

Residential Systems are designed to be installed at the point of entry to treat your entire home, to treat the domestic water used in a single family dwelling. 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.

Replacement Media

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	PW7100 487	1" MNPT	8" X 35"	2	8	<15	13" X 9" X 40"
OFRES-0935	PW7100 488	1" MNPT	9" X 35"	3	12	<15	13.5" X 10" X 40"

OFRES-1035	PW7100 489	1" MNPT	10" X 35"	4	16	<15	14" X 11" X 40"
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OneFlow® Application Practices

Systems using OneFlow® technology prevent hard water scale formation inside the plumbing system at influent hardness levels of 25 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.

For additional information, access online literature ES-OFRES. 10

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Model OFTWH-R

OneFlow® Anti-Scale System for

Residential Tankless Water Heaters

Connection Sizes: $\frac{3}{4}$ " (20mm)

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

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

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

Do not add chemicals. It is a party laboratory test (residential and food) (rigent scale solution and (exchange) or scale

OFTWH-R

Features

- Chemical-free scale prevention and protection - converts hardness minerals to harmless, inactive microscopic crystals making OneFlow® an effective alternative technology to a water softener for the prevention of scale due to water hardness
- Virtually maintenance free - No salt bags or other chemicals to constantly add or maintain

Model

MODEL NO.	ORDE RING CODE	PEAK FLOW RATE	CONNECTION SIZE
OFTWH-R	S000218 8	6 gpm (22.71 lpm)	$\frac{3}{4}$ " (20mm) FNPT

Replacement Cartridge

• No control valve, no electricity and MODEL NO. ORDERING CODE
no wastewater • Uses environmentally friendly “green” technology

S000218
9

FREQUENCY

- Improves efficiency of all water heating devices and downstream plumbing components.
- Simple sizing & installation – standard 3/4" 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

OneFlow® Application Practices (Refer to bottom of Page 10)

For additional information, access online literature ES-OFTWH-RES.

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OFTWH-RM-RCartridge should be replaced every 2 YEARS.

WARNING

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

suspended in the water and are passed to a drain, thereby having a greatly reduced ability to react negatively like dissolved hardness minerals do. The system requires very little maintenance, no backwashing, no salt, and no electricity. Typical hardness problems, especially build-up of scale in pipes, water heaters, boilers and on fixtures are no longer a concern. OneFlow® is not a water softener or a chemical additive (like anti-scalants or sequestrants). It is a scale prevention device with proven third party laboratory test data and years of successful residential and commercial applications. OneFlow® is the one water treatment device that effectively provides scale protection and is a great alternative to water softening (ion exchange) or scale sequestering chemicals.

Features

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

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

WARNING

Commercial Systems are designed for long runs and high usage. Do not use where water is microbiologically unsafe or with water of un known quality without adequate disinfection before or after the unit. System must be maintained according to

12

OneFlow® Anti-Scale System

The OneFlow® Anti-Scale System provides protection from scale formation on internal and external plumbing surfaces. The OneFlow® system may be installed at the point-of-entry to a building to treat both hot* and cold water, or it can be located directly before a water heater, boiler, or other hot water-using device that requires protection from the ill effects of hard water. OneFlow® prevents scale by transforming dissolved hardness minerals into harmless, inactive microscopic crystal particles, as water travels through the media filled tank. These precipitated micro-crystals stay



manufacturer's instructions. Pre-Treatment for sediment, iron, hydrogen sulfide, manganese, hydrocarbons and copper may be required depending on conditions.

OneFlow® Application Practices

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

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

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

Models OF744-10, OF844-12,

OF948-16, OF1054-20 and OF1252-30

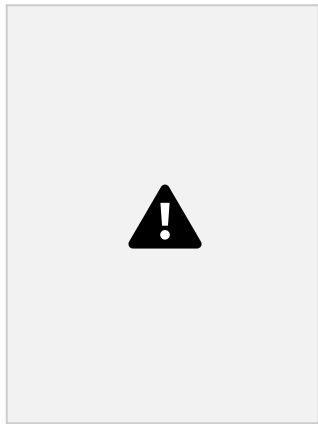
OneFlow® Anti-Scale System

Connection Sizes: 3/4", 1" and 1 1/4" (20, 25, 32mm)

Flow Rates: 10 gpm to 30 gpm (38 lpm to 114 lpm)

Models

OF744-10 OF844-12



OF948-16

M0002100
M0002101
M0002102
M0002103
M0002104
M0002105
M0002106
M0002107
M0002108
M0002109
M0002110
M0002111
M0002112
M0002113
M0002114
M0002115
M0002116
M0002117
M0002118
M0002119
M0002120
M0002121
M0002122
M0002123
M0002124

MODEL NO. ORDERING CODE

OF948-16-E16 GPM, 1" Plastic MPT 90 Elbow
OF1054-20-A20 GPM, 3/4" Sweat OF1054-20-B20
GPM, 1" Sweat OF1054-20-C20 GPM, 1" Plastic MPT
OF1054-20-D20 GPM, 1-1/4" Plastic
MPT OF1054-20-E20 GPM, 1" Plastic
MPT 90 Elbow OF1252-30-A30 GPM,
3/4" Sweat

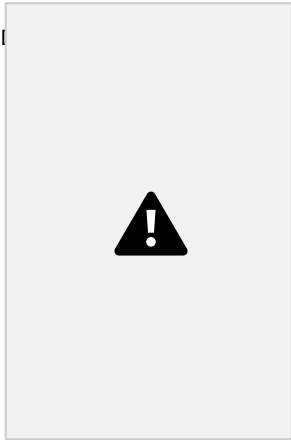
MODEL NO. ORDERING CODE

A000215 4

3/4" and 1" Sweat (20 and 25mm)
1" and 1 1/4" Plastic MPT (25 and 32mm)

Replacement Media

A000215 5
A000215



OF744-10-A10
GPM, 3/4" Sweat
OF744-10-B10
GPM, 1" Sweat
OF744-10-C10
GPM, 1" Plastic
MPT
OF744-10-D10
GPM, 1-1/4"
Plastic MPT
OF744-10-E10
GPM, 1" Plastic
MPT 90 Elbow
OF844-12-A12
GPM, 3/4" Sweat OF844-12-B12 GPM, 1"
Sweat OF844-12-C12 GPM, 1" Plastic MPT
OF844-12-D12 GPM, 1-1/4" Plastic MPT
OF844-12-E12 GPM, 1" Plastic MPT 90 Elbow
OF948-16-A16 GPM, 3/4" Sweat
OF948-16-B16 GPM, 1" Sweat OF948-16-C16
GPM, 1" Plastic MPT OF948-16-D16 GPM,
1-1/4" Plastic MPT

WQA Certified against NSF/ANSI Standard 61 and 372 for Lead Free.

Connection Options

OF1054-20 OF1252-30

6
A000215 7

A000215 8

FREQUENCY

OF1252-30-B30 GPM, 1" Sweat OF1252-30-C30 GPM, 1" Plastic MPT OF1252-30-D30 GPM, 1-1/4" Plastic MPT OF1252-30-E30 GPM, 1" Plastic MPT 90 Elbow

OF744RMMedia should be replaced every 3 years
QF844RMMedia should be replaced every 3 years
OF948RMMedia should be replaced every 3 years
OF1054RMMedia should be replaced every 3 years
OF1252RMMedia should be replaced every 3 years

For additional information, access online literature ES-OF744_844_948_1054_1252

Models

OF1465-50TM and OF1665-75TM

Connections

Inlet & Outlet

Connection 2" (50mm) PVC FNPT

Models

MODEL NO.	ORDERING CODE	MAXIMUM FLOW	M	M710066 2	
OF1465-50TM	M710066 1	50 gpm (18	Replacement Media		
OF1665-75T		75 gpm (28			

For Configurator and Application Tools, please refer to the beginning of this catalog.

MODEL NO. ORDERING CODE

A000216 0

A00021
9 FREQUENCY

OF1465RMMedia should be replaced every 3 years
OF1665RMMedia should be replaced every 3 years

OF1465-50TM,
OF1665TM-75TM

For additional information, access online literature ES-OF1465_1665

Watts.com/dealer

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

OneFlow® Anti-Scale System

Connection Sizes: ½" and ¾" (15 and 20mm)
Flow Rates: From 0.5 gpm to 4 gpm

(1.9 lpm to 15.2 lpm) The OneFlow® Anti-Scale System provides protection from scale formation on internal and external plumbing surfaces. The OneFlow® system is a single cartridge-based system that may be installed on a cold water line prior to a water-using device (water heater, hot-beverage system, appliance, steamer etc.) that requires protection from the ill effects of hard water. OneFlow® prevents scale by transforming dissolved hardness minerals into harmless, inactive microscopic crystal particles. These crystals stay suspended in the water and are passed to a drain, thereby having a greatly reduced ability to react negatively with plumbing surfaces, as opposed to dissolved hardness minerals. The system requires very little maintenance, no backwashing, no salt and no electricity. Typical hardness problems, especially build-up of scale in pipes, water heaters, boilers and on fixtures are no longer a concern. OneFlow® is not a water softener. It does not add chemicals. It is a scale prevention device with proven third party laboratory test data and years of successful Food Service and Commercial applications. OneFlow® is the intelligent scale solution and is a great alternative to water softening (ion exchange) or scale sequestering devices.

Features



OF120-2

- Chemical free scale prevention and protection - converts hardness mineral 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

Models

- 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

Replacement Filters



OF140-4

MODEL NO.	ORDERING CODE	MAXIMUM FLOW RATE	CONNECTION SIZES
OF110-1	S0002148	1 gpm (4 lpm)	1/2" (15mm) FNPT
OF120-2	S0002149	2 gpm (8 lpm)	1/2" (15mm) FNPT
OF140-4	S0002150	4 gpm (15 lpm)	3/4" (20mm) FNPT

MODEL NO. ORDERING CODE

S0002161
S0002162
S0002163

FREQUENCY



OF110-1

OF110RM Cartridge should be replaced every 12 months
OF120RM Cartridge should be replaced every 12 months
OF140RM 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.

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

OneFlow® Anti-Scale System

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

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

The OneFlow® Anti-Scale System with two filter housings provides protection from scale formation and reduces chlorine and other off tastes to improve overall water quality in Food Service applications. The OneFlow® system is a dual cartridge-based system that may be installed on a cold water line prior to a water-using device (coffee maker, espresso machine, post-mix system or other appliance) that requires protection from the ill effects of hard water. OneFlow® works exceptionally well where the water is being heated or brought to steam. OneFlow® prevents scale by transforming dissolved hardness minerals into harmless, inactive microscopic crystal particles. These crystals stay suspended in the water and are passed to a drain, thereby having a greatly reduced ability to react negatively with plumbing surfaces, as opposed to dissolved

hardness minerals. The system requires very little maintenance, no backwashing, no salt, and no electricity. Typical hardness problems, especially build-up of scale in heating elements, boilers, and steamers, are no longer a concern.

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

Features

- Uses environmentally friendly "green" technology
- Improves efficiency of all water appliances whether heating the water or not

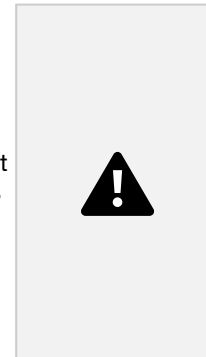
Models

- 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

- 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.

Replacement Filters



OF220-2



OF240-4

MODEL NO.	ORDERING CODE	MAXIMUM FLOW RATE	MODEL NO. ORDERING CODE
OF210-1	S0002151	1 gpm (4 lpm)	S0002161
OF220-2	S0002152	2 gpm (8 lpm)	S0002162
OF240-4	S0002153	4 gpm (15 lpm)	S0002163

FREQUENCY

OF110RMC cartridge should be replaced every 12 months
OF120RMC cartridge should be replaced every 12 months
OF140RMC cartridge should be replaced every 12 months
OF210RCC cartridge should be replaced every 6 months
OF220RCC cartridge should be replaced every 6 months

OF240RCC 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 10)

For additional information, access online literature ES-OF210_220_240

Watts.com/dealer

15

Connection Sizes: 3/4" (20mm)
 Flow Rates: From 0.5 gpm to 10 gpm
 (1.9 lpm to 38 lpm) The OneFlow®

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

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

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



OFTWH

Features

- Chemical-free scale prevention and protection - converts hardness minerals to harmless, inactive microscopic crystals making OneFlow® an effective alternative technology to a water softener for the
- Simple sizing & installation - standard

Model OFTWH

OneFlow® Anti-Scale System

3/4" connections • Perfect system for restaurants, cafeterias, coffee shops and homes where multiple or single equipment protection is desired for longer equipment life

Models

MODEL NO.	OF RI CC
OFTWH	S00C

	2	
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Replacement Cartridge

- prevention of scale due to sumption
water hardness • Inlet ball valve for easy
- Virtually maintenance free
- MODEL NO. ORDERING
and reduced energy con CODE

- 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.

WARNING

- isolation shutoff and filter changes
- OneFlow® cartridge-based systems are easily maintained; change the cartridge unknown quality without adequate disinfection before or after the system.

S00C
FREQUENCY

- cartridge once every two years
- Easily installed mounting bracket included w/filter wrench to allow cartridge change-outs when necessary
- OFTWHRM Cartridge should be replaced every 2 YEARS.

OneFlow® Application Practices (Refer to bottom of Page 10)For

additional information, access online literature ES-OFTWH 16

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Do not use with water that is microbiologically unsafe or of

Water Softeners

YOU
KNOW?

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

Watts water softeners are designed for water conditioning professionals who demand the highest quality, reliability, and value. Our water softeners

ciency advantages of a twin alternating unit with water quality sensors. As the resin bed exhausts, two sensors monitor its exhaustion rate. At the same time the turbine meter in the control valve is feeding water volume data into the controller. The controller compares the exhaustion rate against the water volume used and, at each regeneration cycle, recalculates the water hardness value in the programming. Combining a meter with resin exhaustion sensor technology, ProSense series water softeners solve the efficiency issues

created by changing water hardness.

Features & Benefits

- Resin Exhaustion Sensors To Monitor Water Quality

Water Softeners with ProSense™ Valves

ProSense water softening systems combine the high efficiency

- Meter For Greater Efficiency
- Sophisticated Electronics To Calculate Water Hardness Automatically
- Twin Alternating For 24/7 Soft Water
- 4 Sizes To Choose From

Signal To

Probes

Electrical	120 Volt 60 Hz standard
Valve Body	Xyron
Distributor	1.05" O.D.
Types	Resin Sensor and Turbine Meter Combination
Connection	¾" and 1" MNPT Noryl® Standard
Mineral Tank	Corrosion resistant FRP
Brine Tank	Fully Assembled Polyethylene
Media	High Capacity Cation Resin

Specifications

VALVE	PROSENSE
-------	----------

ProSense Twin Series

ADVANCED SENSOR TECHNOLOGY

- Superior monitoring with non-corrosive 18-karat gold-plated sensor probes
- Replaces traditional metered and time clock controls

ECO-FRIENDLY

- Fewer regeneration and rinse cycles conserve water and regenerant

24/7 MONITORING

- Automatically adjusts to changing water conditions
- A continuous supply of quality water is always available

UPFLOW REGENERATION

- Improves efficiency and eliminates resin bed compaction

MODEL NO.	CAPACITY (MAX.)	PIPE SIZE (IN.)	MINERAL TANK		BRINE TANK		FLOW RATE & PRESSURE			SHIP WT. (LBS)
			TANK SIZE	RESIN FT3	SIZE (IN)	SALT FILL (LBS)	SERVICE (GPM)	DROP (PSI)	BKW (GPM)	
ProSense Series Softeners										
M2056-PRO	22,000	3/4 and 1	8 x 44	0.75	18 x 36	350	9-11	15-25	1.5	150
M2058-PRO	30,000	3/4 and 1	9 x 48	1	18 x 36	350	13-19	15-25	2.0	180
M2059-PRO	45,000	3/4 and 1	10 x 54	1.5	18 x 36	350	14-21	15-25	2.4	250
M2060-PRO	60,000	3/4 and 1	12 x 48	2	18 x 36	350	15-21	15-25	3.5	330

Watts.com/dealer 19

The Watts® Dual Media Water Softener and Filter utilizes Vortech™ patented distributor technology to maximize media efficiency with two separate media chambers in one tank.

Specifications

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

Reduces

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

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 • Vortech™ tank technology for higher backwash rates • No gravel under bedding to reduce costs and weight • Space saving, single tank design
- Vortech™ tanks are NSF standard certified
- Assembled and tested in USA

Activated Carbon



Dual-Media Water Softeners with Watts W100 Valves

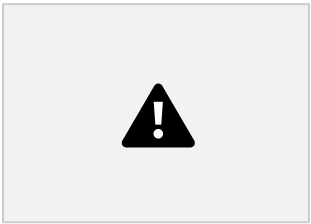
Water softener and carbon filter in one compact design for whole house water treatment!

High Efficiency
Ion Exchange Resin



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

Dual-Media and Brine Tank



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

Vortech™ Mineral Tank No gravel under bedding is required, reducing weight and cost. Also, riser tubes are permanently attached, so they cannot pull out during re bedding.

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

Valves MODEL NO. CAPACITY PIPE SIZE MINERAL TANK BRINE TANK FLOW RATE & PRESSURE SHIP WT

	(MAX)	(IN)	TANK SIZE	RESIN FT3	CAR BO N FT3	SIZE	SALT FILL (LBS)	SERVIC E (GPM)	DROP (PSI)	BKW (GPM)	(LBS)
M3011-W100S M-CR	30,000	1	10x54	1	.5	18x36	350	12-16	15-25	2.7	110
M3013CK10SM CR10	45,000	1	13x54	1.5	1	18x36	350	15-20	15-25	4	150
M3013CKDHSM CR10	45,000	1	13x54	1.5	1	18x36	350	15-20	15-25	4	150
M3013CK10SM CR15	45,000	1	13x65	1.5	1.5	18x36	350	15-20	15-25	4	170
M3013CKDHSM CR15	45,000	1	13x65	1.5	1.5	18x36	350	15-20	15-25	4	170
M3015CK10SM	60,000	1	13x65	2	1	18x36	350	15-20	15-25	4	190

CR10											
M3015CKDHSM CR10	60,000	1	13x65	2	1	18x36	350	15-20	15-25	4	190

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

*When catalytic carbon is used.

**Pre-treatment may be required.

20 Watts.com/dealer

Tri-Plex Water Conditioning Systems with W100 Valves

Multi-Stage water treatment systems for consumers who demand the "best".

Multi-Stage Water Treatment System In a Single Tank To Save Space and Money!

Our metered control valve

Regenerates in an up-flow pattern based on water usage to conserve water and reduce salt requirements. **Pre-Filter**

Our Micro Z filter media is used for pre-filtration to remove particles, five micron and up. Micro Z out performs sand and multimedia to increase particulate removal.

KDF®

This important step enhances the performance of activated carbon (below) and for the well water option, aids in the reduction of iron and hydrogen sulfide.

Activated Carbon

Activated carbon is used for pre-treatment to improve water quality by reducing bad tastes, foul odors, chlorine and organic substances through adsorption.

High Efficiency Ion Exchange Resin

Fine mesh resin is used for increased efficiency to remove water hardness, Calcium, Magnesium and improve performance in high Iron content water.

Components

Tri-Plex water conditioning

systems come with the W100SM metered valve, which features up-flow regeneration to conserve water and increase salt efficiency. Tri-Plex conditioners also use three chamber 10" x 60" Vortech® mineral tanks, (with safety float valves) and come with a 1" by-pass valve.

Media Replacement

Media replacement may be completed using the extraction tool, designed for Tri-Plex water conditioning systems (see bottom photo). Micro Z is typically not replaced because the media is refreshed during backwash. We recommend replacement of the activated carbon and KDF every 1-2 years, depending on chlorine levels.

Resin Replacement

Resin life is dramatically extended due to pre-treatment by activated carbon and KDF. With Tri-Plex conditioners, resin life may be extended indefinitely with adequate carbon pre treatment.



W100 Series

- Bad tastes
- Foul odors
- Heavy metals (KDF)
- Scale
- Damage to appliances due to scale build-up
- Spots on dishes & glassware.
- Soap build-up on shower walls and bath tubs

Other Benefits:

- Soap savings 50% or more because soap and detergents work better in soft water
- Softer, brighter laundry
- Refreshing shower water and no chlorine damage to hair
- Smoother shave with softened water
- Reduced energy costs by scale elimination

Tools

Innovative Design

If you want the most from your investment, Tri-Plex water conditioners are for you! There's nothing else like them anywhere!

Reduces:

- Water hardness
- Calcium
- Magnesium
- Sediment
- Chlorine



D91EXT Extraction Tool

Tri-Plex systems are recommended for hardness levels up to 25 grains per gallon.

MODEL NO.	DESCRIPTION
D91EXT	Extraction Tool
D91INS	Adapter Removal Tool

Hardness

Three Chamber Softeners (MicroZ/KDF, GAC, and Resin)
with Watts W100 Control Valves

MODEL NO. CAPACITY PIPE SIZE MINERAL TANK BRINE TANK FLOW RATE & PRESSURE SHIP WT											
	(MAX)	(IN)	TANK SIZE	RESI N FT3	CAR BON FT3	SIZE	SALT FILL (LBS)	SER VICE (GP M)	DROP (PSI)	BKW (GPM)	(LBS)
M3011-W100SM 5CZ	30,000	3/4 and 1	10x60	1	.5	18x3 6	350	9-13	15-25	7.5	150
M3011-W100SM 8CZ	30,000	3/4 and 1	10x60	1	.5	18x3 6	350	9-13	15-25	7.5	150

Note: Pipe connections are 1".

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Twin Tank-Dual Chamber Water Conditioners

with 9100 Valves

Reduces water hardness, chlorine, tastes and odors 24/7!

- Refreshing shower water without hardness
- Reduces
 - ✓ Calcium
 - ✓ Magnesium
 - ✓ Iron*
 - ✓ Water hardness
 - ✓ Chlorine
 - ✓ Chloramines
 - ✓ Organic matter

*Additional treatment may be required.

Features & Benefits

- Designed for applications when continuous water conditioning is required or desired
- Innovative twin alternating dual chamber system works continuously, 24/7
- Systems regenerate immediately, so soft water is available upon demand
- Soft water is provided when the second tank is being regenerated
- Carbon pre-treatment dramatically extends resin life to reduce costs
- Vortech® tanks, used for superior performance
- Metered valve for greater efficiency and reduced water consumption

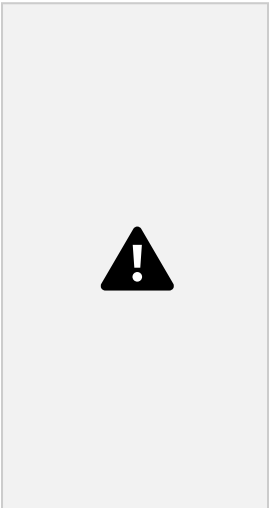
- Softer, brighter laundry
- Reduced soap usage and costs
- No mineral deposits on dishes and glassware
- No chemical damage to hair
- Smoother shave with soft water

Vortech® Tanks

- Large surface area for lower pressure drop.
- Low pressure drop for higher flow.
- Angled slots for greater lift during backwash.
- No gravel under bedding is required.
- Distributor plates are “self cleaning”.
- Backwash duration is reduced.
- Less water for backwash is required.
- Riser tubes are permanently attached.
- Made in the U.S.A.
- NSF certified.

Media

CARBON RESIN



Twin Dual Grey

Metered Valve For Greater Efficiency

Our “9100” control valve is metered for greater efficiency and reduced salt usage, because regeneration of the softener resin is based on 100% water consumption before switching to your second tank!



› Corrosion-free fiber-reinforced polymer valve body.

TYPE		SIZE	16 x 40 Mesh
		Cubic Feet	1.0

TYPE	Twin Tank-Dual Chamber
SIZE	
Cubic Feet	
TYPE	

Twin Tank Softener with 9100 Electromechanical Metered Control Valves and Carbon

MODEL NO.	CAPA CITY (MAX)	PIPE SIZE (IN)	MINERAL TANK			BRINE TANK		FLOW RATE & PRESSURE			SHIP WT (LBS)
			TANK SIZE	RESI N FT3	CARBO N FT3	TANK SIZE	SALT FILL (LBS)	SERVIC E (GPM)	DROP (PSI)	BKW (GPM)	
M3011-9100S M-CR	30,000	1	10x54	1	.5	18x4 0	400	14-21	15-25	2	215

22 Watts.com/dealer

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 be



cause scale is virtually eliminated

for greater efficiency and reduced salt usage, because regeneration of the softener resin is based on water consumption. Push button settings

Complete System

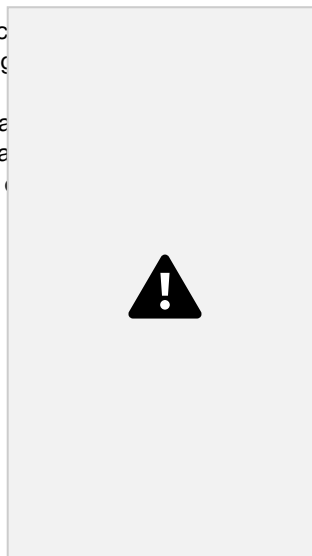
The models listed below are c systems including: • W100 hig metered valve

- Standard or Vortech® minera gravel needed)
- 18" x 36" bla
- Float valve to prevent brine c
- By-pass valve

Metered Valve For

Greater Efficiency W100

Metered valves are metered



provide ease-of-use. usage, water source and other factors.

Vortech Tank and Brine Tank

Model selection is typically based on water hardness, water

MODEL NO.	CAPA CITY (MAX.)	PIPE SIZE (IN.)	MINERAL TANK		BRINE TANK		FLOW RATE & PRESSURE			SHIP WT. (LBS)
			TANK SIZE	RESIN FT3	SIZE	SALT FILL (LBS)	SER VICE (GP M)	DROP (PSI)	BKW (GPM)	

Water Softeners with Watts W100 Control Valves and Vortech Tanks

M3011-W10 OSM	30,000	1	9x48	1	18x36	350	9-12	15-25	2.2	110
M3013-W10 OSM	45,000	1	10x54	1.5	18x36	350	12-16	15-25	2.7	130
M3015-W10 OSM	60,000	1	12x52	2	18x36	350	15-20	15-25	3.2	190
M3017-W10 OSM	90,000	1 1/4 -1 1/2	13x65	3	18x36	350	18-23	15-25	4.2	240
M3019-W10 OSM	120,000	1 1/4 -1 1/2	16x65	4	24x41	600	19-25	15-25	7.5	320
M3021-W10 OSM	210,000	1 1/4 -1 1/2	21x62	7	24x41	600	22-30	15-25	11	585

Water Softeners with Watts W100 Control Valves and Standard Tanks

M3011-CK1 OSM	30,000	1	9x48	1	18x36	350	9-12	15-25	2.2	110
M3013-CK1 OSM	45,000	1	10x54	1.5	18x36	350	12-16	15-25	2.7	130
M3015-CK1 OSM	60,000	1	12x52	2	18x36	350	15-20	15-25	3.5	190

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Water Softeners with W100T Twin Alternating Valves

- 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

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

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. NSF

Brine Tank	Polyethylene; ful
Media	Cation resin; hig

W100T Twin Alternating Series



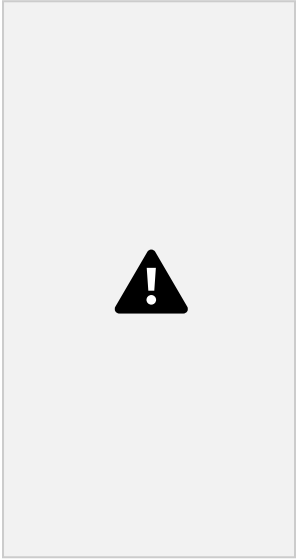
Twin Alternating Water Softeners with W100T Metered Control Valves

MODEL NO.	CAPACITY (MAX.)	PIPE SIZE (IN.)	MINERAL TANK		BRINE TANK		FLOW RATE & PRESSURE			SHIP WT. (LBS)
			TANK SIZE	RESIN FT3	SIZE	SALT FILL (LBS)	SERVIC E (GPM)	DROP (PSI)	BKW (GPM)	
M2058-W10 OT	30,000	1	9 x 48	1	18 x 40	400	13-19	15-25	2.2	230
M2059-W10 OT	45,000	1	10 x 54	1.5	18 x 40	400	14-21	15-25	2.7	290
M2060-W10 OT	60,000	1	12 x 52	2	18 x 40	400	15-21	15-25	3.2	420
M2063-W10 OT	75,000	1	13 x 54	2.5	18 x 40	400	15-21	15-25	4.2	460
M2066-W10 OT	90,000	1	14 x 65	3	18 x 40	400	17-22	15-25	5.3	500
M2069-W10 OT	120,000	1	16 x 65	4	18 x 40	400	17-24	15-25	7.5	650
M2070-W10 OT	150,000	1 1/4 x 1 1/2	18 x 65	5	24 x 41	600	18-25	15-25	10	890
M2072-W10 OT	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 Watts W110 Valves

Reliability Meets Serviceability

Our water softeners with W110 series control valves combine the reliability you've come to expect from Watts with the ease of service you've come to deserve. The timer motor and circuit board are replaceable without tools and a flat head screw driver is all that is needed to access the rest of the components. A one piece seal and spacer assembly makes rebuilding this control valve a snap!



Features & Benefits

- Ease of Service
- Flexible Programming
- Entire valve can be serviced with a flat head screw driver
- Models for capacities to 120,000 grains
- User friendly Watts W110 control valves
- Brine tanks with grid plate for maximum brine storage
- High flow poly by-pass valve is included
- Safety brine valve with air check

Pipe Size	1" MNPT
Types	Metered
Bypass	Included
Mineral Tank	Corrosion resistant FRP. NSF
Brine Tank	Tank Polyethylene; fully assembled
Media	High capacity cation resin

Metered Models (W110 Valve)

Specifications W110 Series

VALVE	WATTS W110 TOP MOUNT VALVE
Valve body	Glass reinforced Noryl®

MODEL NO.	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-W 110	30,000	1	9 x 48	1	18 x 40	400	12	15	2	110
M3013-W 110	45,000	1	10 x 54	1.5	18 x 40	400	12	15	2.4	130
M3015-W 110	60,000	1	12 x 52	2	18 x 40	400	13	15	3.5	190
M3017-W 110	90,000	1	14 x 65	3	18 x 40	400	14	15	5	230

M3019-W 110	120,000	1	16 x 65	4	18 x 40	400	15	15	7	310
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Note: Brine tanks come with safety float valve.

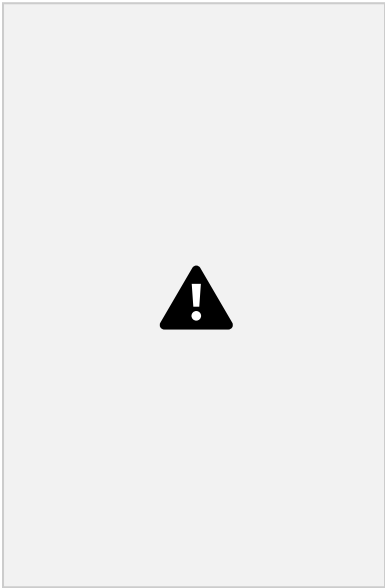
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Water Softeners

With Watts W111X Valves

Features & Benefits

- 1-1/4" fiber-reinforced polymer, UV-resistant, valve body for high service and backwash rates
- Models for capacities to 210,000 grains
- Brine tanks with grid plate for maximum saturation
- 32 mm distribution system
- Safety brine valve with air check
- Easy to program XTR2 controller
- Fully adjustable 3 or 5 cycle control
- Optical sensor for precision cycle positioning
- Soft water refill for a cleaner brine tank
- Designed with double backwash for reduced hardness leakage
- Diagnostics for historical valve performance
- Programming stored in memory and will not be lost due to power outages



Watts Water Softener with W111X Valve
[Specifications](#)

Bypass	Bypass included (MNPT)
Mineral tanks	Corrosion resistant FRP. NSF.
Brine tanks	Polyethylene; fully assembled
Media	Cation resin; high capacity



XTR2 Control

VALVE	FLECK 7000 WITH SE ELECTRONICS
Valve body	Fiber reinforced polymer
Valve type	Electronic - metered
Pipe size	1" - 1-1/2"

XTR2 Controller Features & Benefits

- Time of day super capacitor backup for power loss
- Large color LCD touch screen for easy electronic programming
- Programmable relay output
- Remote lockout and regeneration input
- Error alarm
- Master settings by category
- Password lockout screen for added security
- Vacation mode
- Enhanced diagnostics

Water Softeners with Watts W111X Metered Control Valves

MODEL 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)	
M3011-W111X	30,000	1	9 x 48	1	18 x 40	400	15.2	15	2	110
M3013-W111X	45,000	1	10 x 54	1.5	18 x 40	400	16.4	15	2.4	130
M3015-W111X	60,000	1	12 x 52	2	18 x 40	400	20.5	15	3.5	190
M3017-W111X	90,000	1 1/4 - 1 1/2	14 x 65	3	18 x 40	400	21.9	15	5	240
M3019-W111X	120,000	1 1/4 - 1 1/2	16 x 65	4	18 x 40	400	23.4	15	7	320
M3021-W111X	210,000	1 1/4 - 1 1/2	21 x 62	7	24 x 41	600	25.0	15	11	585

Note: Brine tanks are black and mineral tanks are black on 9" thru 12" and Almond / Natural on 14" thru 21". Other options are available. Please specify when ordering. Connectors available: 1", 1-1/4", 1-1/2", NPT.

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.

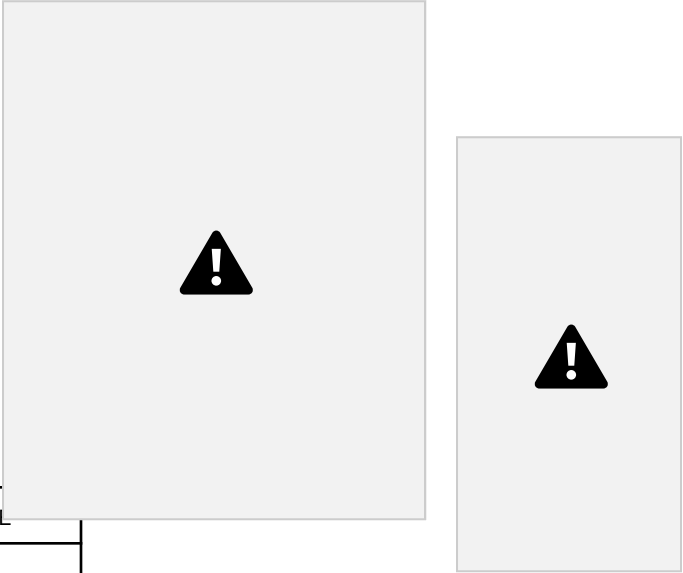
Water Softeners with Fleck 5600 Valves

Features & Benefits

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

Specifications

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



5600 Series

MODEL 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)	

Water Softeners with 5600 Electromechanical Time Clock Control Valves

M2010	30,000	¾"	9x48	1	18x40	400	9-11	15-25	2.0	110
M2012	45,000	¾"	10x54	1.5	18x40	400	10-13	15-25	2.4	130
M2014	60,000	¾"	12x52	2	18x40	400	12-15	15-25	3.5	190

Water Softeners with 5600 Electromechanical Metered Control Valves

M1248	22,500	3/4	8x44	0.75	14x34	225	9-11	15-25	1.5	70
M3011	30,000	3/4	9x48	1	18x40	400	9-11	15-25	2.0	110
M1286	30,000	3/4	10x35	1	Cabinet	225	9-11	15-25	2.4	110
M3013	45,000	3/4	10x54	1.5	18x40	400	10-13	15-25	2.4	130
M3015	60,000	3/4	12x52	2	18x40	400	12-15	15-25	3.5	190

NOTICE

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

MODEL 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)	

Same Day Water Softeners with 5600 Valves for Quick Shipment

M2010-SD*	30,000	3/4	9x48	1	18x40	400	9-11	15-25	2.0	110
M3011-SD	30,000	3/4	9x48	1	18x40	400	9-11	15-25	2.0	110
M3013-SD	45,000	3/4	10x54	1.5	18x40	400	10-13	15-25	2.4	130
M3015-SD	60,000	3/4	12x52	2	18x40	400	12-15	15-25	3.5	190

*Regeneration is timeclock initiated.

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.

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Water Softeners with Fleck 2510 Valves



2510 Series

MODEL	CAPACITY	PIPE	MINERAL TANK	BRINE TANK	FLOW RATE & PRESSURE	SHIP
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NO.	Y (MAX.)	SIZE (IN.)	TANK SIZE	RESIN FT3	SIZE	SALT FILL (LBS)	SERVIC E (GPM)	DROP (PSI)	BKW (GPM)	WT. (LBS)
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Water Softeners With 2510 Electromechanical Time Clock Control Valves

M2012D	45,000	3/4	10x54	1.5	18x40	400	10-13	15-25	2.4	135
M2012D-1	45,000	1	10x54	1.5	18x40	400	10-13	15-25	2.4	135
M2014D	60,000	3/4	12x52	2	18x40	400	12-15	15-25	3.5	195

Water Softeners With 2510 Electromechanical Metered Control Valves

M2010E	30,000	3/4	9x48	1	18x40	400	9-11	15-25	2.0	110
M2012E	45,000	3/4	10x54	1.5	18x40	400	10-13	15-25	2.4	135
M2014E	60,000	3/4	12x52	2	18x40	400	12-17	15-25	3.5	195

Water Softeners with Fleck 2750 Valves

Ideal for commercial applications
with capacities to 120,000 grains.

LC-100 series softeners with Fleck 2750 brass control valves are our best selling light commercial softeners because they are ideal, considering price and performance!

Features & Benefits

- Top quality components
- Models for capacities to 120,000 grains
- User friendly Fleck 2750 control valves
- Brine tanks with grid plate for maximum saturation of brine (some models)
- Safety brine valve with air check

VALVE	FLECK 2750 SXT OF VALVE
Valve body	Brass
Pipe size	1"
Types	Time clock and metered
By-pass	None
Mineral tanks	Corrosion resistant
Brine tanks	Polyethylene; fully a
Media	Cation resin; high ca



Specifications

MODEL NO.	CAPACIT Y (MAX.)	PIPE SIZE (IN.)	MINERAL TANK		BRINE TANK		FLOW RATE & PRESSURE			SHIP WT. (LBS)
			TANK	RESIN	SIZE	SALT	SERVICE	DROP	BKW	

			SIZE	FT3		FILL (LBS)	(GPM)	(PSI)	(GPM)	
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Water Softeners with Fleck 2750 SXT Time Clock Valves

M4040-SE	60,000	1	12x52	2	18x40	400	15-20	15-25	4	200
M4042-SE	90,000	1	14x65	3	18x40	400	18-23	15-25	5	240
M4046-SE	120,000	1	16x65	4	18x40	400	19-25	15-25	7	320

Water Softeners with Fleck 2750 SXT Metered Control Valves

M4040B-SE	60,000	1	12x52	2	18x40	400	15-20	15-25	4	200
M4042B-SE	90,000	1	14x65	3	18x40	400	18-23	15-25	5	240
M4046B-SE	120,000	1	16x65	4	18x40	400	19-25	15-25	7	320

Water Softeners with Fleck 2750 NXT Metered Control Valves

M4032B-27 5NT	30,000	1	9x48	1	18x40	400	9-15	15-25	4	116
M4036B-27 5NT	45,000	1	10x54	1.5	18x40	400	10-15	15-25	4	136
M4040B-27 5NT	60,000	1	12x52	2	18x40	400	15-20	15-25	4	196
M4042B-27 5NT	90,000	1	14x65	3	18x40	400	18-23	15-25	5	240
M4046B-27 5NT	120,000	1	16x65	4	18x40	400	19-25	15-25	7	320

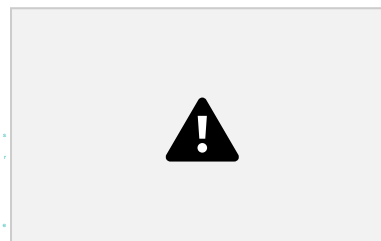
NOTICE

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.

For Configurator and Application Tools, please refer to the beginning of this catalog.

Watts.com/dealer

Water Softeners with Fleck 9100 Valves



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

9100 Series

Specifications

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 3/4" to 1 1/4" bypass and connection options
- Safety brine valve with air check included

VALVE	FLECK 9100 MECHANICAL OR DIGITAL VALVE
Electrical	120 Volt 60 Hz standard
Valve body	Xyron
Distributor	1.05" O.D.

Types	3/4" meter immediate initiated
Connection	3/4" MNPT Noryl® Standard
Mineral tank	Corrosion resistant FRP
Brine tank	Fully assembled polyethylene
Media	High capacity cation resin

Twin Tank Softeners with 9100 Electromechanical Metered Control Valves

MODEL 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)	
M2058-91	30,000	3/4	9x48	1	18x40	400	13-19	15-25	2.2	180
M2059-91	45,000	3/4	10x54	1.5	18x40	400	14-21	15-25	2.4	250
M2060-91	60,000	3/4	12x52	2	18x40	400	15-21	15-25	3.5	330
M2066-91	90,000	1	14x65	3	24x41	600	17-22	15-25	5.0	470
M2069-91	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.

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Water Softeners with Fleck 9000 Valves

Ideal Softeners When Soft Water
Is Required 24 / 7, Without Interruption.
Suitable for light commercial applications

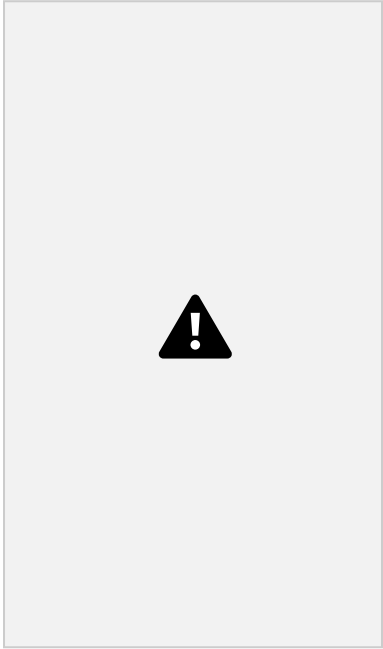
ranging from 20,000 to 120,000 grains of
hardness removal capacity, at flow rates to
24 GPM.

Features & Benefits

- Top quality components
- Models for capacities to 120,000 grains
- Fleck 9000 SE control valves with "SE" electronics
- Brine tanks with grid plate for maximum saturation of brine
- Stainless steel by-pass valve is for LCTA-75 only
- Safety brine valve with air check

Specifications

VALVE	FLECK 9000
Valve body	Brass
Pipe sizes	3/4" and 1"
Types	Metered
By-pass	Additional (L
Mineral tanks	Corrosion r
Brine tanks	Polyethylene
Media	Cation resin



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MODEL NO.	CAPA CITY (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 9000 Electromechanical Metered Control Valves

M2055	15,000	3/4	8x35	0.5	18x40	400	5-8	15-25	1.5	175
M2056	25,000	3/4	10x35	0.75	18x40	400	8-10	15-25	2.4	220
M2058	30,000	3/4	9x48	1	18x40	400	13-19	15-25	2.0	230
M2059	45,000	3/4	10x54	1.5	18x40	400	14-21	15-25	2.4	290
M2060	60,000	3/4	12x52	2	18x40	400	15-21	15-25	4.0	400

Twin Tank Softeners With 9000 Digital SXT Metered Control Valves

M2058-SE	30,000	3/4	9x48	1	18x40	400	13-19	15-25	2	230
M2059-SE	45,000	3/4	10x54	1.5	18x40	400	14-21	15-25	2.4	290
M2060-SE	60,000	3/4	12x52	2	18x40	400	15-21	15-25	3.5	420
M2063-SE	75,000	3/4	13x54	2.5	18x40	400	15-21	15-25	4	460
M2066-SE	90,000	3/4	14x65	3	18x40	400	17-22	15-25	5	500
M2069-SE	120,000	3/4	16x65	4	18x40	400	17-24	15-25	7	650
M2058B-SE	30000	1	9x48	1	18x40	400	13-19	15-25	2	230
M2059B-SE	45000	1	10x54	1.5	18x40	400	14-21	15-25	2.4	290
M2060B-SE	60000	1	12x52	2	18x40	400	15-21	15-25	3.5	420
M2063B-SE	75000	1	13x54	2.5	18x40	400	15-21	15-25	4	460
M2066B-SE	90000	1	14x65	3	18x40	400	17-22	15-25	5	500
M2069B-SE	120000	1	16x65	4	18x40	400	17-24	15-25	7	650

NOTICE

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For Configurator and Application Tools, please refer to the beginning of [this catalog](#).

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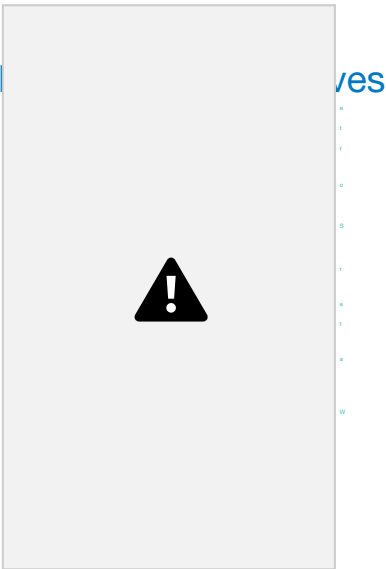
Water Softeners

with Watts 1½" Valves

These water softeners are suitable for commercial applications ranging from 40,000 to 300,000 grains of hardness removal capacity at flow rates up to 68 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 coin cell lithium battery provides an 8-hour backup. A stainless steel turbine flow meter provides accurate flow measurement and allows for efficient operation.

Control Valve - The Watts 1½" 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 NSF/FDA-approved epoxy coating that resists corrosion and maintains a quality appearance over time.



CWS150 Series

Water Softeners with Watts 1½" Digital

MODEL 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)	
M4410 W	60,000	1 1/2	12x52	2	18x40	400	28-38	15-25	4	210
M4414 W	90,000	1 1/2	14x65	3	18x40	400	35-46	15-25	5	240
M4418 W	120,000	1 1/2	16x65	4	18x40	400	40-51	15-25	7	320
M4422 W	150,000	1 1/2	18x65	5	24x41	600	44-57	15-25	11	380
M4426 W	210,000	1 1/2	21x62	7	24x50	800	50-64	15-25	13	585
M4430 W	300,000	1 1/2	24x72	10	30x50	1200	53-68	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.

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
Valve body	Brass
Pipe size	1-1/2"
Types	Time clock
By-pass	None

Mineral tanks	Corrosion resistant FRP. NSF.
Brine tanks	Polyethylene; fully assembled
Media	Cation resin; high capacity



2850 Series

Water Softeners
with Fleck 2850
Valves

Ideal for commercial

MODEL 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)	

M4210SE	60,000	1 1/2	12x52	2	18x40	400	15-20	15-25	4	210
M4214SE	90,000	1 1/2	14x65	3	18x40	400	17-22	15-25	5	240
M4218SE	120,000	1 1/2	16x65	4	18x40	400	25-40	15-25	7	320
M4222SE	150,000	1 1/2	18x65	5	24x41	600	30-50	15-25	11	380
M4226SE	210,000	1 1/2	21x62	7	24x50	800	35-53	15-25	13	585
M4230SE	300,000	1 1/2	24x72	10	30x50	1200	40-55	15-25	15	710

Water Softeners with 2850 Digital SXT Metered Control Valves

M4210BSE	60,000	1 1/2	12x52	2	18x40	400	15-20	15-25	4	210
M4214BSE	90,000	1 1/2	14x65	3	18x40	400	17-22	15-25	5	240
M4218BSE	120,000	1 1/2	16x65	4	18x40	400	25-40	15-25	7	320
M4222BSE	150,000	1 1/2	18x65	5	24x41	600	30-50	15-25	11	380
M4226BSE	210,000	1 1/2	21x62	7	24x50	800	35-53	15-25	13	585
M4230BSE	300,000	1 1/2	24x72	10	30x50	1200	40-55	15-25	15	710

Water Softeners with 2850 NXT Metered Control Valves

M4210B-285NT	60,000	1 1/2	12x52	2	18x40	400	15-20	15-25	4	210
M4214B-285NT	90,000	1 1/2	14x65	3	18x40	400	17-22	15-25	5	240
M4218B-285NT	120,000	1 1/2	16x65	4	18x40	400	25-40	15-25	7	320
M4222B-285NT	150,000	1 1/2	18x65	5	24x41	600	30-50	15-25	11	380
M4226B-285NT	210,000	1 1/2	21x62	7	24x50	800	35-53	15-25	13	585
M4230B-285NT	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.

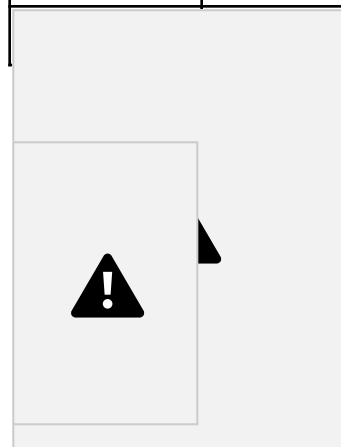
Features & Benefits

- 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

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
	Ion exchange resin



9500 Series

MODEL 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)	

Twin Tank Softeners with 9500 Digital SXT Metered Control Valves

M2218 SE	60,000	1 1/2	12x52	2	24x41	600	15-20	15-25	3.5	270
M2220 SE	90,000	1 1/2	14x65	3	24x41	600	17-22	15-25	5	550
M2222 SE	120,000	1 1/2	16x65	4	24x41	600	25-40	15-25	7	720
M2224 SE	150,000	1 1/2	18x65	5	24x41	600	30-50	15-25	10	900
M2228 SE	210,000	1 1/2	21x62	7	24x50	800	35-53	15-25	12	1215

M2235 SE	300,000	1 1/2	24x72	10	30x50	1200	40-55	15-25	15	1750
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NOTICE

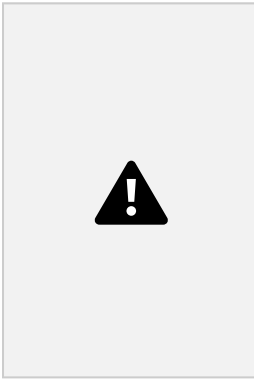
Flow rates listed above are based on pressure drop only. Selecting a system based on pressure drop alone does not guarantee that the system will provide adequately softened water. System selection should be based on resin quantity, capacity required, feed water analysis, and application requirements.

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For Configurator and
Application Tools, please
refer to the beginning of
this catalog.

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 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 electro-statically-applied, NSF/FDA-approved epoxy coating that resists corrosion and maintains a quality appearance over time. The 2.0" H valves include a built in turbine meter for flow monitoring which reduces cost, simplifies installation, and saves space.



CWS200 Series



CWS200H Heavy

Water Softeners
with Watts 2" Valves

These water softeners are suitable for commercial applications ranging from 60,000 grains of hardness removal

MODEL 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)	

Water Softeners With Watts 2" Digital Metered Control Valves

M4543 W	90,000	2	14x65	3	18x40	400	39-50	15-25	5	265
M4547 W	120,000	2	16x65	4	18x40	400	47-60	15-25	7	350
M4548 W	150,000	2	18x65	5	24x41	600	53-69	15-25	10	400
M4552 W	210,000	2	21x62	7	24x50	800	66-85	15-25	13	600
M4558 W	300,000	2	24x72	10	30x50	1200	73-94	15-25	15	710
M4559 W	450,000	2	30x72	15	39x48	2200	84-109	15-25	25	1160
M4560 W	600,000	2	36x72	20	39x48	2200	93-119	15-25	35	1560
M4548 WH	150,000	2	18x65	5	24x41	600	53-69	15-25	10	400
M4552 WH	210,000	2	21x62	7	24x50	800	66-85	15-25	13	600
M4558 WH	300,000	2	24x72	10	30x50	1200	73-94	15-25	15	710
M4559 WH	450,000	2	30x72	15	39x48	2200	84-109	15-25	25	1160
M4560 WH	600,000	2	36x72	20	39x48	2200	93-119	15-25	35	1560

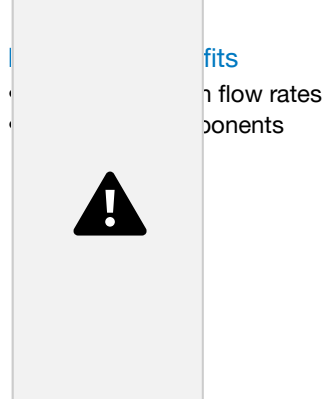
NOTICE

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.



- 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

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

2900 Series

Specifications

MODEL 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)	

Water Softeners with Fleck 2900 Time Clock Valves

M4043-29NT	90,000	2	14x65	3	18x40	400	25-40	15-25	5	350
M4047-29NT	120,000	2	16x65	4	18x40	400	35-55	15-25	7	350
M4048-29NT	150,000	2	18x65	5	24x41	600	57-65	15-25	10	400
M4052-29NT	210,000	2	21x62	7	24x50	800	60-77	15-25	13	600
M4058-29NT	300,000	2	24x72	10	30x50	1200	74-97	15-25	15	710
M4059-29NT	450,000	2	30x72	15	39x48	2200	80-100	15-25	25	1160
M4060-29NT	600,000	2	36x72	20	39x60	2700	84-105	15-25	35	1560

Water Softeners with Fleck 2900 NXT Metered Control Valves

M4043B-29NT	90,000	2	14x65	3	18x40	400	25-40	15-25	5	350
M4047B-29NT	120,000	2	16x65	4	18x40	400	35-55	15-25	7	350

M4048B-29 NT	150,000	2	18x65	5	24x41	600	57-65	15-25	10	400
M4052B-29 NT	210,000	2	21x62	7	24x50	800	60-77	15-25	13	600
M4058B-29 NT	300,000	2	24x72	10	30x50	1200	74-97	15-25	15	710
M4059B-29 NT	450,000	2	30x72	15	39x48	2200	80-100	15-25	25	1160
M4060B-29 NT	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-2 9NT	90,000	2	14x65	3	18x40	400	25-40	15-25	5	450
M4047TA-2 9NT	120,000	2	16x65	4	18x40	400	35-55	15-25	7	500
M4048TA-2 9NT	150,000	2	18x65	5	24x41	600	57-65	15-25	10	800
M4052TA-2 9NT	210,000	2	21x62	7	24x50	800	60-77	15-25	13	1200
M4058TA-2 9NT	300,000	2	24x72	10	30x48	1200	74-97	15-25	15	1400
M4059TA-2 9NT	450,000	2	30x72	15	39x48	2200	80-100	15-25	25	2200
M4060TA-2 9NT	600,000	2	36x72	20	39x60	2700	84-105	15-25	35	3000

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.

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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.

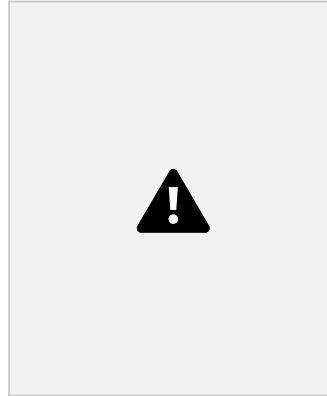
Heavy Duty Water Softeners with Watts 3" Valves

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.

Heavy Duty

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 NSF/FDA-approved epoxy coating that resists corrosion and maintains a quality appearance over time.



CWS300H

MODEL 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)	

Water Softeners with Watts 3" Digital Metered Control Valves

M4610 WH	300,000	3	24x72	10	30x50	1200	98-125	15-25	15	1070
M4612 WH	450,000	3	30x72	15	39x48	2200	144-186	15-25	25	1600
M4614 WH	600,000	3	36x72	20	39x60	2700	172-222	15-25	35	2015
M4616 WH	900,000	3	42x72	30	42x60	3100	190-244	15-25	50	3245
M4618 WH	1,050,000	3	48x72	35	50x60	4500	194-251	15-25	60	4295

NOTICE

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

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

valves are suitable for flow rates to 280 GPM. Models with time clock and metered controls are available.

- 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



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. NSF.
Brine tanks	Polyethylene; fully assembled
Media	Cation resin; high capacity

Specifications

MODEL 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)	
1000	100	1/2"	100	10	100	100	100	100	100	100
2000	200	3/4"	200	20	200	200	200	200	200	200
3000	300	1"	300	30	300	300	300	300	300	300
4000	400	1 1/4"	400	40	400	400	400	400	400	400
5000	500	1 1/2"	500	50	500	500	500	500	500	500
6000	600	2"	600	60	600	600	600	600	600	600
7000	700	2 1/4"	700	70	700	700	700	700	700	700
8000	800	2 1/2"	800	80	800	800	800	800	800	800
9000	900	3"	900	90	900	900	900	900	900	900

Water Softeners with Fleck 3900 Time Clock Control Valves

M4110-39 NT	300,000	3	24x72	10	30x50	1200	120-17 0	15-25	15	1070
M4112-39 NT	450,000	3	30x72	15	39x48	2200	158-21 2	15-25	25	1600
M4114-39 NT	600,000	3	36x72	20	39x60	2700	185-25 0	15-25	35	2015
M4116-39 NT	900,000	3	42x72	30	42x60	3100	200-26 8	15-25	50	3245
M4118-39 NT	1,050,00 0	3	48x72	35	50x60	4500	213-28 0	15-25	60	4295

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

M4110B-3 9NT	300,000	3	24x72	10	30x50	1200	120-17 0	15-25	15	1070
M4112B-3 9NT	450,000	3	30x72	15	39x48	2200	158-21 2	15-25	25	1600
M4114B-3 9NT	600,000	3	36x72	20	39x60	2700	185-25 0	15-25	35	2015
M4116B-3 9NT	900,000	3	42x72	30	42x60	3100	200-26 8	15-25	50	3245
M4118B-3 9NT	1,050,00 0	3	48x72	35	50x60	4500	213-28 0	15-25	60	4295

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

M4110TA-3 9NT	300,000	3	24x72	10	30x50	1200	120-17 0	15-25	15	2070
M4112TA-3 9NT	450,000	3	30x72	15	39x48	2200	158-21 2	15-25	25	3000
M4114TA-3 9NT	600,000	3	36x72	20	39x60	2700	185-25 0	15-25	35	4015
M4116TA-3	900,000	3	42x72	30	42x60	3100		15-25	50	6245

9NT							200-268			
M4118TA-3 9NT	1,050,000	3	48x72	35	50x60	4500	213-280	15-25	60	8295

NOTICE

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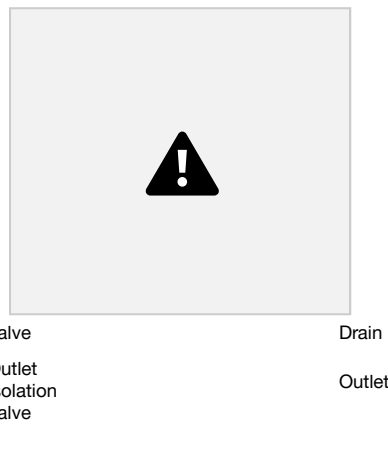
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capacities are required.

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

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



Ideal for commercial
and industrial
applications where
high flow and high

- 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. NSF.
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.	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	210,000	2-1	2-1	21"x62"	7	1-24 X50	800	60-77	15-25	12	42" x 82" x 90"	2100
M4052TI-PPSM	210,000	3-1	2-2	21"x62"	7	2-24 X50	1600	120-154	15-25	12	42" x 78" x 90"	2100
M4052TR-PPSM	210,000	3-1	3-3	21"x62"	7	3-24 X50	2400	180-231	15-25	12	42" x 114" x 90"	3050
M4052QD-PPSM	210,000	4-1	4-4	21"x62"	7	4-24 X50	3200	240-308	15-25	12	42" x 150" x 90"	3850
M4058TA-PPSM	300,000	2-1	2-1	24"x72"	10	1-30 X50	1200	74-97	15-25	15	42" x 82" x 95"	2200
M4058TI-PPSM	300,000	3-1	2-2	24"x72"	10	2-30 X50	2400	148-194	15-25	15	42" x 78" x 95"	2320
M4058TR-PPSM	300,000	4-1	3-3	24"x72"	10	3-30 X50	3600	222-291	15-25	15	42" x 114" x 95"	3380
M4058QD-PPSM	300,000	4-1	4-4	24"x72"	10	4-30 X50	4800	296-388	15-25	15	42" x 150" x 95"	4290
M4059TA-PPSM	450,000	2-1	2-1	30"x72"	15	1-39 X48	2200	80-100	15-25	25	48" x 102" x 100"	3450
M4059TI-PPSM	450,000	3-1	2-2	30"x72"	15	2-39 X48	4400	160-200	15-25	25	48" x 91" x 100"	3520
M4059TR-PPSM		4-1	3-3		15					25	48" x 114" x	4780

PSM	450,000			30"x72"		3-39 X48	6600	240-300	15-25		100"	
M4059QD-PPSM	450,000	4-1	4-4	30"x72"	15	4-39 X48	8800	320-400	15-25	25	48" x 150" x 100"	6090
M4060TA-P PSM	600,000	2-1 1/2	2-1	36"x72"	20	1-39 X60	2200	84-105	15-25	35	48" x 102" x 100"	4250
M4060TI-P PSM	600,000	3-1 1/2	2-2	36"x72"	20	2-39 X60	4400	168-210	15-25	35	48" x 91" x 100"	4320
M4060TR-P PSM	600,000	4-1 1/2	3-3	36"x72"	20	3-39 X60	6600	252-315	15-25	35	48" x 114" x 100"	5980
M4060QD-PPSM	600,000	4-1 1/2	4-4	36"x72"	20	4-39 X60	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.

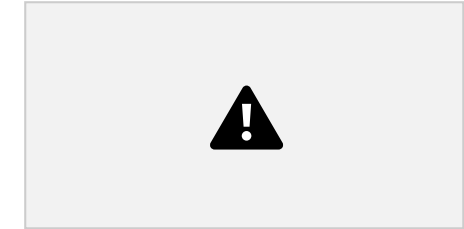
NOTICE

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.

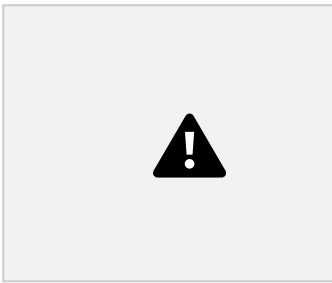
Watts' pre-engineered,

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 40 pipe. Inlet Isolation Valve



Valve Inlet Outlet Isolation Valve, H

Flow Meter



Drain Outlet



and drain headers. [Features &](#)

with 3900 Control

Benefits

Valves Specifications

- Pre-plumbed and skid mounted for ease of installation
- QD System

80 PVC pre-plumbed inlet, outlet

- 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

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. NSF.
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.	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)	BK W (GPM)		

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

M4110TA-P PSM	300,000	3-1	2-1	24"x 72"	10	1-30 X50	1200	120-170	15-25	15	54" x 110" x 109"	3300
M4110TI-P PSM	300,000	4-1	2-2	24"x 72"	10	2-30 X50	2400	240-340	15-25	15	54" x 110" x 109"	3420
M4110TR-P PSM	300,000	4-1	3-3	24"x 72"	10	3-30 X50	3600	360-510	15-25	15	52" x 160" x 109"	5030
M4110QD-PPSM	300,000	6-1	4-4	24"x 72"	10	4-30 X50	4800	480-680	15-25	15	56" x 205" x 109"	6770
M4112TA-P PSM	450,000	3-1 1/2	2-1	30"x 72"	15	1-39 X48	2200	158-212	15-25	25	54" x 110" x 112"	4230
M4112TI-P PSM	450,000	4-1 1/2	2-2	30"x 72"	15	2-39 X48	4400	316-424	15-25	25	54" x 110" x 112"	4480
M4112TR-P PSM	450,000	6-1 1/2	3-3	30"x 72"	15	3-39 X48	6600	474-636	15-25	25	52" x 160" x 112"	6620

M4112QD-PPSM	450,000	6-1 1/2	4-4	30"x72"	15	4-39 X48	8800	632-848	15-25	25	56" x 205" x 112"	8890
M4114TA-PPSM	600,000	3-1 1/2	2-1	36"x72"	20	1-39 X60	2700	185-250	15-25	35	54" x 110" x 115"	5250
M4114TI-PPSM	600,000	4-1 1/2	2-2	36"x72"	20	2-39 X60	5400	370-500	15-25	35	54" x 110" x 115"	5310
M4114TR-PPSM	600,000	6-1 1/2	3-3	36"x72"	20	3-39 X60	8100	555-750	15-25	35	52" x 160" x 115"	7860
M4114QD-PPSM	600,000	6-1 1/2	4-4	36"x72"	20	4-39 X60	10800	740-1000	15-25	35	56" x 205" x 115"	10550
M4116TA-PPSM	900,000	3-2	2-1	42"x72"	30	1-42 X60	3100	200-268	15-25	50	66" x 125" x 121"	7880
M4116TI-PPSM	900,000	4-2	2-2	42"x72"	30	2-42 X60	6200	400-536	15-25	50	66" x 130" x 121"	8230
M4116TR-PPSM	900,000	6-2	3-3	42"x72"	30	3-42 X60	9300	600-804	15-25	50	66" x 185" x 121"	12230
M4116QD-PPSM	900,000	6-2	4-4	42"x72"	30	4-42 X60	12400	800-1072	15-25	50	66" x 240" x 121"	16230
M4118TA-PPSM	1,050,000	3-2	2-1	48"x72"	35	1-50 X60	4500	213-280	15-25	60	66" x 125" x 121"	9930
M4118TI-PPSM	1,050,000	6-2	2-2	48"x72"	35	2-50 X60	9000	426-560	15-25	60	66" x 130" x 121"	10330
M4118TR-PPSM	1,050,000	6-2	3-3	48"x72"	35	3-50 X60	13500	639-840	15-25	60	66" x 185" x 121"	15380
M4118QD-PPSM	1,050,000	6-2	4-4	48"x72"	35	4-50 X60	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.

Watts.com/dealer

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

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

footprint needs to be flexible.

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

Features & Benefits

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

Options

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

Specifications

VALVE	FLECK 2900 & 3900 TOP MOUNT
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MODEL NO.	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	210,000	2	21"x62"	7	24X50	800	60-77	15-25	12	21" x 25" x 81"	600
M4058NT-NH	300,000	2	24"x72"	10	30X50	1200	74-97	15-25	15	24" x 27" x 88"	710

M4118NT-NH (X4)

H

W D

M4059NT-NH (X2)

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

M4059NT -NH	450,00 0	2	30"x7 2"	15	39X4 8	2200	80-100	15-25	25	30" x 30" x 94"	1160
M4060NT -NH	600,00 0	2	36"x7 2"	20	39X6 0	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	300,00 0	3	24"x7 2"	10	30X5 0	1200	120-170	15-25	15	26" x 38" x 95"	1095
M4112NT -NH	450,00 0	3	30"x7 2"	15	39X4 8	2200	158-212	15-25	25	31" x 41" x 98"	1625
M4114NT -NH	600,00 0	3	36"x7 2"	20	39X6 0	2700	185-250	15-25	35	37" x 44" x 101"	2040
M4116NT -NH	900,00 0	3	42"x7 2"	30	42X6 0	3100	200-268	15-25	50	44" x 47" x 109"	3270
M4118NT -NH	1,050,0 00	3	48"x7 2"	35	50X6 0	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 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. Pre-plumbing and skid mounting are not available on these systems. For pre-plumbed skid mounted systems see catalog page 34 & 35.

Heavy-Duty Steel Tank

Water Softeners with Fleck Valves

Heavy duty softeners for heavy duty commercial applications!

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

Features & Benefits

- Regeneration by time clock or meter
- Automatic brine refill by timer or controller

- Models for capacities to 1,200,000 grains
- Fleck control valves
- Steel tanks rated for 100 psi
- Exterior tanks primed for protection
- Face piping is galvanized
- Electronic controls are available
- All systems shipped with high capacity Cation resin

Specifications

VALVE	(SEE CHART BELOW)
Valve body	Brass
Pipe sizes	2" and 3" (see below)

Types	Time clock (meter optional)
By-pass	None
Mineral tanks	Epoxy lined steel interior
Brine tanks	Brine maker / salt storage is PE
Brine supply	Automatic brine refill
Media	Cation resin; high capacity

Heavy-Duty Steel Tank Water Softeners

Steel Tank Series											
MODEL NO.	FLECK VALVE NO.	CAPA CITY (MAX.)	PIPE SIZE (IN.)	MINERAL TANK		BRINE TANK		FLOW RATE & PRESSURE			SHIP WT. (LBS)
				TANK SIZE	RESIN FT3	SIZE	SALT FILL (LBS)	SERVIC E (GPM)	DROP (PSI)	BKW (GPM)	
M5076-29	2900	300,000	2	20 x 60	10	30 x 50	1200	68-94	15-25	15	1930
M5078-29	2900	450,000	2	30 x 60	15	39 x 48	2200	72-102	15-25	25	2525
M5080-31	3150	600,000	2	36 x 60	20	39 x 48	2200	78-107	15-25	35	2700
M5080-39	3900	600,000	3	36 x 60	20	39 x 48	2200	185-250	15-25	35	2850
M5082-31	3150	900,000	2	42 x 60	30	42 x 60	3000	84-118	15-25	50	4650
M5082-39	3900	900,000	3	42 x 60	30	42 x 60	3000	200-268	15-25	50	4800
M5084-31	3150	1,200,000	2	48 x 60	40	50 x 60	4500	87-120	15-25	60	4950
M5084-39	3900	1,200,000	3	48 x 60	40	50 x 60	4500	213-280	15-25	60	4100

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.

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Heavy-Duty Steel Tank Water Softeners with Fleck Valves

Metered Models

MODEL NO.	FLECK VALVE NO.	CAPA CITY (MAX.	PIPE SIZE (IN.)	MINERAL
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Twin Alternating Models

MODEL	FLECK	CAPA	PIPE	MINERAL TANK	E
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)		TANK SIZE	RESIN FT3	SIZ
M5076B-29	2900	300,000	2	24 x 60	10	30 x
M5078B-29	2900	450,000	2	30 x 60	15	39 x
M5080B-31	3150	600,000	2	36 x 60	20	39 x
M5080B-39	3900	600,000	3	36 x 60	20	39 x
M5082B-31	3150	900,000	2	42 x 60	30	42 x
M5082B-39	3900	900,000	3	42 x 60	30	42 x
M5084B-31	3150	1,200,000	2	48 x 60	40	50 x
M5084B-39	3150	1,200,000	2	48 x 60	40	50 x
M5076B-29NT	2900	300,000	2	20 x 60	10	30 x
M5078B-29NT	2900	450,000	2	30 x 60	15	39 x
M5080B-39NT	3900	600,000	3	36 x 60	20	39 x
M5082B-31NT	3150	900,000	2	42 x 60	30	42 x
M5082B-39NT	3900	900,000	3	42 x 60	30	42 x
M5084B-31NT	3150	1,200,000	2	48 x 60	40	50 x
M5084B-39NT	3150	1,200,000	2	48 x 60	40	50 x

NO.	VALVE NO.	CITY (MAX.)	SIZE (IN.)	TANK SIZE
M5076TA-29	2900	300,000	2	24 x 60
M5078TA-29	2900	450,000	2	30 x 60
M5080TA-31	3150	600,000	2	36 x 60
M5080TA-39	3900	600,000	3	36 x 60
M5082TA-31	3150	900,000	2	42 x 60
M5082TA-39	3900	900,000	3	42 x 60
M5084TA-31	3150	1,200,000	2	48 x 60
M5084TA-39	3150	1,200,000	2	48 x 60
M5076TA-29NT	2900	300,000	2	20 x 60
M5078TA-29NT	2900	450,000	2	30 x 60
M5080TA-39NT	3900	600,000	3	36 x 60
M5082TA-31NT	3150	900,000	2	42 x 60
M5082TA-39NT	3900	900,000	3	42 x 60
M5084TA-31NT	3150	1,200,000	2	48 x 60
M5084TA-39NT	3150	1,200,000	2	48 x 60

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.

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.

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

DID YOU KNOW?



Models with Watts Valves

MODEL NO.	VALVE	PIPE SIZE (IN.)	TANK SIZE	MEDIA (CU. FT.)	PEAK SERVICE FLOW (GPM)	BACK WASH (GPM)	FLOOR SPACE (D X W X H)	SHIP WT (LBS)
Residential Systems with Standard Tanks								
NM09-CK10 F	W100	1	9 x 48	1	5/9	5.3	16 x 10 x 55	110
NM10-CK10 F	W100	1	10 x 54	1.5	7/10	7.5	16 x 11 x 62	140
NM12-CK10 F	W100	1	12 x 52	2	9/15	11	17 x 13 x 60	200
NM14-CK10 F	W100	1 1/4 - 1 1/2	14 x 65	3	13/21	15	18 x 15 x 74	310
NM16-CK10 F	W100	1 1/4 - 1 1/2	16 x 65	4	17/28	25	20 x 17 x 74	425
NM09-W110	W110	1	9 x 48	1	9	7	16 x 10 x 55	110
NM10-W110	W110	1	10 x 54	1.5	10	7	16 x 11 x 62	140
NM12-W110	W110	1	12 x 52	2	15	12	17 x 13 x 60	200
NM14-W110	W110	1	14 x 65	3	21	15	18 x 15 x 74	310
Residential Systems with Vortech Tanks								
NM09-W100 F	W100	1	9 x 48	1	5/9	5.3	16 x 10 x 55	110
NM10-W100 F	W100	1	10 x 54	1.5	7/10	7.5	16 x 11 x 62	140

NM12-W10 0F	W100	1	12 x 52	2	9/15	11	17 x 13 x 60	200
NM14-W10 0F	W100	1 1/4 - 1 1/2	14 x 65	3	13/21	15	18 x 15 x 74	310
NM16-W10 0F	W100	1 1/4 - 1 1/2	16 x 65	4	17/28	25	20 x 17 x 74	425

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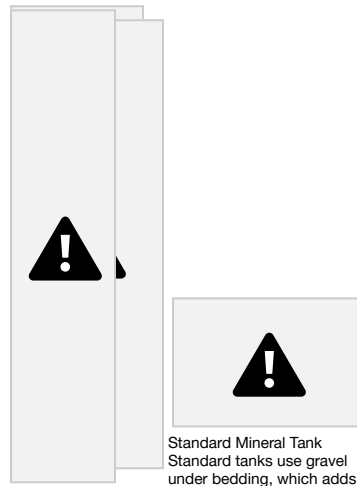
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Automatic Backwashing Filox® and GreensandPlus™ Filters

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.



weight and cost. Also, re-bedding is more difficult, should riser tubes pull out of the gravel bed.



Two Media Types

Filox®

- Effective from 6.2 to 8.5 pH Vortech™ Mineral Tank

Backwashing Filox Filters

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

W110 Valve 2510 Valve W100 Valve

No gravel under bedding is required, reducing weight and cost. Also, riser tubes are permanently attached, so they cannot pull out during re-bedding.

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.

MODEL NO.	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	W100	1	9X48	1	6	7.5	16X10X55	167

NF10-CK10F	W100	1	10X54	1.5	9	10	16X11X62	235
NF12-CK10F	W100	1	12X52	2	12	15	17X13X60	318
NF14-CK10F	W100	1 1/4 - 1 1/2	14X65	3	18	20	18X15X74	460
NF16-CK10F	W100	1 1/4 - 1 1/2	16X65	4	24	25	20X17X74	611
N2410-F	Fleck 2510	3/4	8X44	0.5	3	7	12X10X54	97
N2349-F	Fleck 2750	1	9X48	1	6	7	13X11X58	122
N2350-F	Fleck 2750	1	10X54	1.5	9	9	14X12X46	125
N2352-FA	Fleck 2750	1	12X52	2	12	15	14X14X63	303
N2353-F	Fleck 2750	1	13X54	2.5	15	15	15X15X63	342
N2415-F	Fleck 2850	1 1/2	14X65	3	18	20	16X16X58	367
NF09-W110	W110	1	9X48	1	6	7	16X10X55	167
NF10-W110	W110	1	10X54	1.5	9	10	16X11X62	235
NF12-W110	W110	1	12X52	2	12	15	17X13X60	318
NF14-W110	W110	1	14X65	3	18	20	18X15X74	460
Residential Systems with Vortech Tanks								
NF09-W100F	W100	1	9 X 48	1	6	7.5	16X10X55	157
NF10-W100F	W100	1	10 X 54	1.5	9	10	16X11X62	220
NF12-W100F	W100	1	12 X 52	2	12	15	17X13X60	300
NF14-W100F	W100	1 1/4 - 1 1/2	14 X 65	3	18	20	18X15X74	410
NF16-W100F	W100	1 1/4 - 1 1/2	16 X 65	4	24	25	20X17X74	515
N2349-FAIO	Fleck 2510AIO	1	9X48	1	6	8	13X11X61	148
N2350-FAIO	Fleck 2510AIO	1	10X54	1.5	9	10	14X12X67	209
N2351-FAIO	Fleck 2510AIO	1	12X52	2	12	15	14X13X65	270
N2352-FAIO	Fleck 2510AIO	1	13X54	2.5	15	15	18X15X76	337
N2353-FAIO	Fleck 2510AIO	1	14X65	3	18	20	18X16X76	411

NOTICE

The information listed above is for residential applications only and should not be used for commercial applications.46

Automatic Backwashing Filox[®]

and GreensandPlus[™] Filters (cont.)

Backwashing GreensandPlus[™] Filters

MODEL NO.	VALVE	PIPE SIZE	TANK SIZE	MEDIA (CU. FT.)	PEAK SERVICE FLOW (GPM)	BACKWASH H (GPM)	FLOOR SPACE (DXWXH)	SHIP WT (LBS)
Residential Systems with Standard Tanks								
NGP09-CK10 F	W100	1	9X48	1	3	5.3	16X21X55	137
NGP10-CK10 F	W100	1	10X54	1.5	4	7.5	16X22X62	190
NGP12-CK10 F	W100	1	12X52	2	5	10	17X24X60	258
NGP14-CK10 F	W100	1 1/4 - 1 1/2	14X65	3	6	12	18X33X74	370
NGP16-CK1 0F	W100	1 1/4 - 1 1/2	16X65	4	7	20	20X35X74	491
NGP09-W11 0	W110	1	9X48	1	3	5	16X21X55	137
NGP10-W11 0	W110	1	10X54	1.5	4	7	16X22X62	190
NGP12-W11 0	W110	1	12X52	2	5	10	17X24X60	258
NGP14-W11 0	W110	1	14X65	3	6	12	18X33X74	370

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.	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								
N1041-3	None	3/4	9 x 48	1	4	None	10X10X53	85
N1042A	None	3/4	8 x 44	1	4	None	9X9X49	80
N1042A-1	None	1	8 x 44	1	4	None	9X9X49	80
N1043B-1	None	1	12 x 52	2.5*	10	None	13X13X57	125
N1043-SD	None	2	10 x 54	2	8	None	11X11X59	95

Note: The N1043B-1 also has 12 lbs of KDF55 installed.

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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

Automatic Backwashing Carbon Filters

*Fully assembled backwashing filters
with
activated carbon and Micro Z™*

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

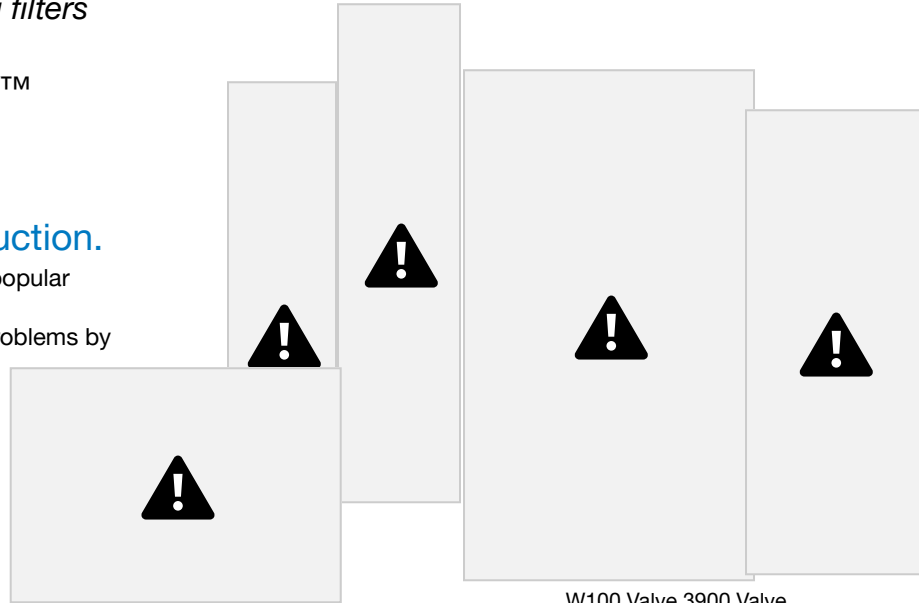
Our activated carbon filters are highly popular because they correct a wide range of water quality problems by removing

Vortech™ Mineral Tank
Media contact time is improved with Vortech tanks by enhancing the water flow path.

W110 Valve

5600 Valve

W100 Valve 3900 Valve



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

MODEL NO.	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	Fleck F5600	3/4	9X48	1	4	4	16"x10"x5 5"	90
N2050	Fleck F2510	3/4	9X48	1	4	4	13"x11"x5 8"	90
N2051	Fleck F2510	3/4	10X54	1.5	6	5	12"x11"x6 5"	105
N2051-1	Fleck F2750	1	10X54	1.5	8	5	12"x11"x6 5"	90
N2052	Fleck F2510	3/4	12X52	2	6	7	14"x13"x6 5"	117
N2052-1	Fleck F2750	1	12X52	2	8	7	14"x13"x6 5"	105

N2056	Fleck F2750	1	14X65	3	11	10	16"x15"x7 7"	194
N2058	Fleck F2750	1	16X65	4	15	12	18"x17"x7 7"	254
NC09-CK 10F	W100	1	9X48	1	4	4.2	16"x10"x5 5"	80
NC10-CK 10F	W100	1	10X54	1.5	6	5.3	16"x11"x6 2"	105
NC12-CK 10F	W100	1	12X52	2	8	7.5	17"x13"x6 0"	145
NC14-CK 10F	W100	1 1/4 - 1 1/2	14X65	3	11	10	18"x15"x7 4"	200
NC16-CK 10F	W100	1 1/4 - 1 1/2	16X65	4	14	11	20"x17"x7 4"	265
NC21-CK 10F	W100	1 1/4 - 1 1/2	21X62	5	20	25	22"x23"x7 0"	365
NC09-W1 10	W110	1	9X48	1	4	4	16"x10"x5 5"	80
NC10-W1 10	W110	1	10X54	1.5	6	5	16"x11"x6 2"	105
NC12-W1 10	W110	1	12X52	2	8	7	17"x13"x6 0"	145
NC14-W1 10	W110	1	14X65	3	11	10	18"x15"x7 4"	200
NC16-W1 10	W110	1	16x65	4	14	12	20"x17"x7 4"	265
Residential Systems with Vortech™ Tanks								
NC09-W1 00F	W100	1	9X48	1	4	4.2	10"x20"x4 8"	80
NC10-W1 00F	W100	1	10X54	1.5	6	5.3	12"x20"x6 5"	105
NC12-W1 00F	W100	1	12X52	2	8	7.5	14"x20"x6 5"	145
NC14-W1 00F	W100	1 1/4 - 1 1/2	14X65	3	11	10	16"x20"x7 7"	200
NC16-W1 00F	W100	1 1/4 - 1 1/2	16X65	4	14	11	18"x20"x7 7"	265

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Note: Systems with Fleck 5600 and 2510 valves include a 0.75" bypass.

Backwashing Filters With Activated Carbon

For Taste, Odor And Chlorine Reduction (cont.)

MODEL NO.	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								
N2050-27 5NT	Fleck F2750 NXT	1	9X48	1	3.7	4	13"x12"x6 0"	90
N2051-27 5NT	Fleck F2750 NXT	1	10X54	1.5	5.5	5	13"x12"x6 5"	105
N2052-27 5NT	Fleck F2750 NXT	1	12X52	2	7.4	7	14"x13"x6 5"	117
N2056-27 5NT	Fleck F2750 NXT	1	14X65	3	11.1	10	16"x15"x7 5"	194
N2058B	Fleck 2850	1 1/2	16X65	4	15	12	18"x17"x7 7"	260
N2058-28 5NT	Fleck 2850 NXT	1 1/2	16X65	4	14.8	12	18"x17"x7 5"	254
N7022-28 50	Fleck 2850	1 1/2	21X62	6	22	26	24"x23"x8 4"	410
N2059-28 5NT	Fleck 2850 NXT	1 1/2	21X62	7	25.9	26	24"x23"x8 4"	471
N7032-28 50	Fleck 2850	1 1/2	24X72	10	37	30	26"x25"x9 2"	670
N7022	Fleck 2900	2	21X62	5	18	25	24"x23"x8 8"	416
N7032	Fleck 2900	2	24X72	10	37	30	26"x25"x9 6"	680
N2332	Fleck 3150	2	24X72	8	30	30	28"x24"x1 07"	735
N2332-31	Fleck 3150	2	24X72	10	37	30	27"x27"x9	735

5NT	NXT						5"	
N2333	Fleck 3150	2	30X72	10	37	50	38"x30"x107"	1432
N2333-31 5NT	Fleck 3150 NXT	2	30X72	15	55.5	50	33"x33"x95"	1432
N2334	Fleck 3150	2	36X72	20	74	70	48"x40"x107"	3038
N4110	Fleck 3900	3	30X72	14	52	50	38"x30"x114"	1450
N4112	Fleck 3900	3	36X72	20	74	70	48"x40"x114"	1965
N4112-39 NT	Fleck 3900 NXT	3	36X72	20	74	70	48"x40"x114"	1965
N4114	Fleck 3900	3	42X72	27	100	90	54"x46"x114"	2955
N4114-39 NT	Fleck 3900 NXT	3	42X72	30	111	90	54"x46"x114"	3038
N4116	Fleck 3900	3	48X72	35	130	100	60"x52"x114"	3645
N4116-39 NT	Fleck 3900 NXT	3	48X72	35	129.5	100	60"x52"x114"	3645
N5010	Aquamatic PDVN	2	24X72	8	30	30	36"x27"x90"	680
N5011	Aquamatic PDVN	2	30X72	15	55	50	42"x33"x90"	1025
N5012	Aquamatic PDVN	2	36X72	20	74	70	48"x40"x90"	1530
N5013	Aquamatic PDVN	2	42X72	30	111	90	57"x50x90"	2050
N5014	Aquamatic PDVN	2	48X72	35	130	120	60"x54"x90"	3095
N5015	Aquamatic PDVN	3	63X86	64	237	210	75"x69"x98"	4091

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.

For Configurator and
Application Tools, please
refer to the beginning of
this catalog.

Backwashing Filters With Calcite and Magnesium Oxide To Increase pH

MODEL NO.	VALVE	PIPE SIZE (IN)	TANK SIZE	MEDIA (CU. FT.)	PEAK SERVICE FLOW (GPM)	BACKWASH (GPM)	FLOOR SPACE (DXWXH)	SHIP WT (LBS)
Residential Systems								
N2070	Fleck F2510	3/4	9x48	1	4	4	13"x11"x58"	165
N2070-56	Fleck F5600	3/4	9X48	1	4	4	16"x10"x55"	130
N2076	Fleck F2750	1	14X65	3	16	10	16"x15"x77"	392
N2078	Fleck F2750	1	16X65	4	17	12	18"x17"x77"	537

Backwashing Filters With Micro Z™ Media With Fleck Valves

MODEL NO.	VALVE	PIPE SIZE (IN)	TANK SIZE	MEDIA (CU. FT.)	PEAK SERVICE FLOW (GPM)	BACKWASH H (GPM)	FLOOR SPACE (DXWXH)	SHIP WT (LBS)
Residential Systems								
N5245-09	Fleck F2750	1	9x48	1	7	7	13"x11"x 58"	110
N5245-10	Fleck F2750	1	10x54	1.5	9	7	12"x11"x 65"	140
N5245-12	Fleck F2750	1	12x52	2	13	10	14"x13"x 65"	167
N5245-13	Fleck F2750	1	13X54	2.5	15	15	18"x14"x 66"	178
Commercial Systems								
N5245-09-27 5NT	Fleck F2750 NXT	1	9x48	1	7	7	13"x12"x 60"	118
N5245-10-27 5NT	Fleck F2750 NXT	1	10x54	1.5	9	7	13"x12"x 65"	147
N5245-12-27 5NT	Fleck F2750 NXT	1	12x52	2	13	10	14"x13"x 65"	173
N5245-14	Fleck F2850	1 1/2	14X65	3	17	20	18"x15"x 74"	258
N5245-14-28 5NT	Fleck F2850 NXT	1 1/2	14X65	3	17	20	15"x16"x 75"	278
N5245-16	Fleck F2850	1 1/2	16X65	4	22	20	18"x17"x 77"	364
N5245-16-28 5NT	Fleck F2850 NXT	1 1/2	16X65	4	22	20	18"x17"x 75"	366
N5245-22	Fleck F2850	1 1/2	21X62	7	38	40	24"x23"x 84"	595
N5245-21-28 5NT	Fleck F2850 NXT	1 1/2	21X62	7	38	40	24"x23"x 84"	667
N5245-24-31 50	Fleck F3150	2	24X72	10	50	50	28"x24"x 107"	1053

N5245-24-31 5NT	Fleck F3150 NXT	2	24X72	10	50	50	27"x27"x 95"	1015
N5245-30-31 50	Fleck F3150	2	30X72	15	80	85	38"x30"x 107"	1967
N5245-30-31 5NT	Fleck F3150 NXT	2	30X72	15	80	85	33"x33"x 95"	1852
N5245-30-39 00	Fleck F3900	3	30X72	15	80	85	38"x30"x 114"	2007
N5245-36-31 50	Fleck F3150	2	36X72	20	115	100	48"x40"x 107"	2485
N5245-36-39 00	Fleck F3900	3	36X72	20	115	100	48"x40"x 114"	2525
N5245-36-39 NT	Fleck F3900 NXT	3	36X72	20	115	100	48"x40"x1 14"	2525
N5245-36-DV N	Aquamatic PDVN	2	36X72	20	115	100	48"x40"x 90"	2480
N5245-42-DV N	Aquamatic PDVN	3	42X72	30	155	155	54"x46"x 90"	2895
N5245-48-DV N	Aquamatic PDVN	3	48X72	40	200	200	60"x54"x 90"	3882

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

FILTER MEDIA Properties and Conditions for Operation

Note: General

For Configurator and Application Tools, please reference only; conditions may vary. Ask about your application. refer to the beginning of this catalog.

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

Automatic Backwashing Systems without Media

NX Series Backwashing Filters - No Media

NX Series Backwashing Filters

Our popular backwashing filter systems are now available without media. The NX series come complete with control valve and internals. A by-pass valve is included on residential system.

- Add your “Special” media or blend that works best for your customers
 - Save on Shipping
 - Reduce your inventory
 - Complete backwashing system just add media
 - Drain line flow control washer included (sized for approximately 12 GPM per square foot) for residential systems.
- Drain line flow controller sold separately on commercial systems.



W111 Valve

W100 Valve

NX W111 Filters

MODEL NO.	VALVE	PIPE SIZE	TANK SIZE	MEDIA (CU. FT.)	GRAVEL (LBS)	BACK WASH (GPM)	FLOOR SPACE (DXWXH)	SHIP WT (LBS)
Residential Systems with Standard Tanks								
NX09-W111X	W111X	1”	9X48	1	10	5	16X10X60	55

NX10-W111X	W111X	1"	10X54	1.5	10	7	16X11X66	66
NX12-W111X	W111X	1"	12X52	2	20	10	17X13X64	92
NX14-W111X	W111X	1.25"	14X65	3	50	12	18X15X77	120
NX16-W111X	W111X	1.25"	16X65	4	50	20	20X17X77	157
NX21-W111X	W111X	1.25"	21X62	5	100	25	22X23X74	230

Note: The W111X valve has a color touch screen controller and a 32mm riser port.

NX Series Backwashing Filters without Media

MODEL NO.	VALVE	PIPE SIZE	TANK SIZE	MEDIA (CU. FT.)	GRAVEL (LBS)	BACK WASH (GPM)	FLOOR SPACE (DXWXH)	SHIP WT (LBS)
Residential Systems with Standard Tanks								
NX09-CK10F	W100	1	9X48	1	10	4.2	16X10X55	53
NX10-CK10F	W100	1	10x54	1.5	10	5.3	16X11X62	64
NX12-CK10F	W100	1	12X52	2	20	7.5	17X13X60	90
NX14-CK10F	W100	1 1/4 - 1 1/2	14X65	3	50	15	18X15X74	118
NX16-CK10F	W100	1 1/4 - 1 1/2	16X65	4	50	20	20X17X74	155
NX21-CK10F	W100	1 1/4 - 1 1/2	21X62	5	100	25	22X23X70	228
NX09-W110	W110	1	9X48	1	10	5	16X10X55	53
NX10-W110	W110	1	10X54	1.5	10	7	16X11X62	64
NX12-W110	W110	1	12X52	2	20	10	17X13X60	90
NX14-W110	W110	1	14X65	3	50	12	18X15X74	118
Commercial Systems with FRP Tanks								
NX09T2750	Fleck 2750	1	9X48	1	10	N/A	11X10X60	75
NX10T2750	Fleck 2750	1	10X54	1.5	10	N/A	12X11X66	50
NX14T2750	Fleck 2750	1	14x65	3	50	N/A	16X15X77	82
NX16T2750	Fleck 2750	1	16X65	4	50	N/A	18X17X77	89
NX18T2750	Fleck 2750	1	18X65	5	100	N/A	20X19X77	110
NX21T2750	Fleck 2750	1	21X62	7	100	N/A	23X22X77	125
NX12T2850	Fleck 2850	1 1/2	12X52	2	20	N/A	15X13X64	85
NX14T2850	Fleck 2850	1 1/2	14X65	3	50	N/A	16X15X77	90
NX16T2850	Fleck 2850	1 1/2	16X65	4	50	N/A	18X17X77	94
NX18T2850	Fleck 2850	1 1/2	18X65	5	100	N/A	19X19X77	125

NX21T2850	Fleck 2850	1 1/2	21X62	7	100	N/A	24X23X84	144
NX24T2850	Fleck 2850	1 1/2	24X72	10	200	N/A	26X25X92	203

Note: Gravel and media amounts listed above are for reference only. Gravel and media is not included with the system.

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NX Series Backwashing Filters without Media (cont.)

MODEL NO.	VALVE	PIPE SIZE	TANK SIZE	MEDIA (CU. FT.)
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Commercial Systems with FRP Tanks (cont.)			
NX12TW150	W15F	1 1/2	12X52
NX14TW150	W15F	1 1/2	14X65
NX16TW150	W15F	1 1/2	16X65
NX18TW150	W15F	1 1/2	18X65
NX21TW150	W15F	1 1/2	21X62
NX24TW150	W15F	1 1/2	24X72
NX30TW150	W15F	1 1/2	30X72
NX12T2900	Fleck 2900	2	12X52
NX14T2900	Fleck 2900	2	14X65
NX16T2900	Fleck 2900	2	16X65
NX18T2900	Fleck 2900	2	18X65
NX21T2900	Fleck 2900	2	21X62
NX24T2900	Fleck 2900	2	24X72
NX16T3150	Fleck 3150	2	16X65
NX18T3150	Fleck 3150	2	18X65
NX21T3150	Fleck 3150	2	21X62
NX24T3150	Fleck 3150	2	24X72
NX30T3150	Fleck 3150	2	30X72
NX36T3150	Fleck 3150	2	36X72
NX42T3150	Fleck 3150	2	42X72
NX48T3150	Fleck 3150	2	48X72
NX12TW200	W20F	2	12X52
NX14TW200	W20F	2	14X65
NX16TW200	W20F	2	16X65
NX18TW200	W20F	2	18X65
NX21TW200	W20F	2	21X62
NX24TW200	W20F	2	24X72
NX30TW200	W20F	2	30X72

NX36TW200	W20F	2	36X72	20
NX18TW200 H	W20FH	2	18X65	5
NX21TW200 H	W20FH	2	21X62	7
NX24TW200 H	W20FH	2	24X72	10
NX30TW200 H	W20FH	2	30X72	15
NX36TW200 H	W20FH	2	36X72	20
NX42TW200 H	W20FH	2	42X72	30
NX48TW200 H	W20FH	2	48X72	35
NX24TDVN	Aquamatic PDVN	2	24X72	10
NX30TDVN	Aquamatic PDVN	2	30X72	15
NX36TDVN	Aquamatic PDVN	2	36X72	20
NX42TDVN	Aquamatic PDVN	2	42X72	30
NX48TDVN	Aquamatic PDVN	2	48X72	35
NX24T3900	Fleck 3900	3	24X72	10
NX30T3900	Fleck 3900	3	30X72	15
NX36T3900	Fleck 3900	3	36X72	20
NX42T3900	Fleck 3900	3	42X72	30
NX24TW300 H	W30FH	3	24X72	10
NX30TW300 H	W30FH	3	30X72	15

NX36TW300H	W30FH	3	36X72
NX42TW300H	W30FH	3	42X72
NX48TTW300H	W30FH	3	48X72
NX24TDVN3	Aquamatic PDVN	3	24X72
NX30TDVN3	Aquamatic PDVN	3	30X72
NX36TDVN3	Aquamatic PDVN	3	36X72
NX42TDVN3	Aquamatic PDVN	3	42X72
NX48TDVN3	Aquamatic PDVN	3	48X72

NX63TDVN3	Aquamatic PDVN	3	63X86	50
Commercial Systems with Steel Tanks				
NX24T3150-STL	Fleck 3150 SM	2	24X60	10
NX30T3150-STL	Fleck 3150 SM	2	30X60	15
NX36T3150-STL	Fleck 3150 SM	2	36X60	20
NX36T3900-STL	Fleck 3900 SM	3	36X60	20
NX42T3150-STL	Fleck 3150 SM	2	42X60	30
NX42T3900-STL	Fleck 3900 SM	3	42X60	30

Note: Gravel and media amounts listed above are for reference only. Gravel




and media is not included with the system. Watts.com/dealer

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 while

advanced systems provide basic filtration plus reduce cysts. Our drinking water systems use proven designs in many configurations to produce high-quality, great-tasting water.

DID YOU KNOW?

	Water System Selection				
TYPE OF FEATURE	DESCRIPTION	UNDER COUNTER QUICK-TWIST (QT)	UNDER COUNTER QUICK-CHANGE (QC)	STANDARD UNDER COUNTER SYSTEMS	COUNTER TOP SYSTEMS
Ease of Filter Change	Cartridges removed with a 1/4-turn	✓	✓		
Ease of Filter Change	No filter sumps, no mess, no fuss	✓	✓		
Ease of Filter Change	Water flow shuts off automatically for easy cartridge replacement	✓	✓		
Ease of Filter Change	Cartridges are color coded for easy identification		✓		
Ease of Installation	Hardware kit for complete installation	✓	✓	✓	✓
Ease of Installation	No tank needed, frees up space	✓	✓	✓	✓
Ease of Installation	Installation is quick and easy	✓	✓	✓	✓
Ease of Installation	Easy to install, no tools required				✓
Ease of Installation	Fully assembled				✓
Options	Choice of cartridge types and sizes for residential, commercial and foodservice applications		✓		
Options	Faucet options available	✓	✓	✓	

Options	UV models available			✓	
Options	Automatic shutoff flow meter to indicate cartridge replacement			✓	
Options	Ideal for private label marketing	✓	✓	✓	✓
Performance Feature	Low cost alternative to RO	✓	✓		
Performance Feature	No reject water (100% of the water is used)	✓	✓	✓	✓
Performance Feature	No pressure problems, Units work as low as 20 psi / 1.4 bar pressure	✓	✓	✓	✓
Performance Feature	Leaves essential nutrients in water	✓	✓	✓	✓
Performance Feature	Three different cartridge sizes available		✓		
Performance Feature	High flow 3/8" fittings and tubes	✓			
Performance Feature	Certified by independent lab		✓		
Reliability	Cartridges have double o-rings to prevent leaks	✓	✓		
Reliability	One year limited warranty from date of purchase	✓	✓	✓	✓

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Under Counter Quick-Twist (QT) Proprietary Cartridge Drinking Water Systems

E-Treat Drinking Water Systems

The Ideal, Low Cost Alternative To

Reverse Osmosis Technology!



- No tank
- No reject water
- No pressure problems
- No sumps
- No mess
- No fuss
- Easy installation
- Low cost

Benefits:

- Great tasting drinking water for only pennies a gallon
 - No trips to the store to buy bottled water •
- Water flow shuts off when cartridges are removed

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E-Treat Drinking Water Systems

ETDWS38-T

Three stage filtration system with sediment, carbon block and hollow fiber membrane filter cartridges.

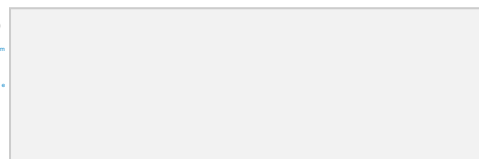
MODEL NO.	DESCRIPTION
ETDWS38-D	Dual unit with bracket, heads, seal fittings
ETDWS38-T	Triple unit with bracket, heads, seal fittings
ETDWS38-T-KIT	Triple unit with bracket, heads, seal fittings and faucet

Replacement Cartridges

MODEL NO.	DESCRIPTION
ETRCs	E-Treat Melt blown sediment cartridge
ETRCAC	E-Treat carbon block cartridge
ETRCHFM	E-Treat hollow fiber membrane cartridge

Watts.com/dealer

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



Quick-Change™ System with Ultra-Filtration Technology

Watts drinking water systems with Quick-Change™ filter

elements and hollow fiber membranes come complete with

sediment cartridge, carbon block cartridge, hollow fiber

membrane, long reach chrome faucet, tapping valve and

tubing.

NOTICE

System requires a minimum of 20psi inlet pressure

(1.4 bar) and pressure drop is 3psi at 0.5 GPM.

Features & Benefits

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

Quick-Change™ Drinking Water Systems
Vs. RO Systems

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

identification Quick-Change™

(QC) Systems

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

Reduces:

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

MODEL NO.	DESCRIPTION	CASE
WQCFU-T-11KIT	10" triple sys., bracket, sediment, carbon, UF, faucet and install kit	1

Replacement Cartridges

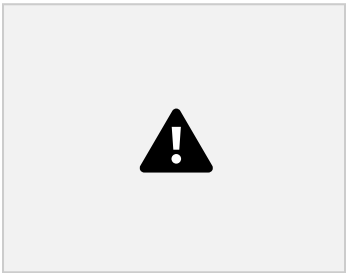
TYPE	MICRON	MODELS		
		10"	11"	13"
Sediment (melt blown PP)	5	WQCSC10	WQCSC11	WQCSC13
Carbon	5	WQCCC10	WQCCC11	WQCCC13
Hollow fiber membrane (UF)	0.1 Nominal	WQCHF10	WQCHF11	WQCHF13

Drinking Water Systems

Under Counter Standard Cartridge Systems

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

Features & Benefits

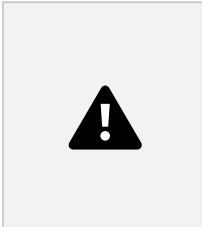


UV LIGHT



Standard Cartridge

*Units are sold without cartridges



unless otherwise noted.

Models

- Easy to install
- Long reach, lead-free faucet
- Hardware kit for complete installation
- UV models available
- Models available with automatic shutoff flow meter to indicate cartridge replacement

Model ADWU-TM (triple with meter)

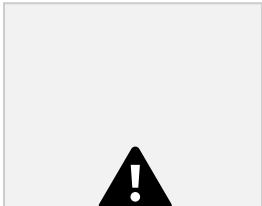
Model ADWU-S (single)

Model ADWU-DM (dual with meter)
Model ADWU-D-UV (Dual model with UV lamp and

MODEL NO.	TYPE	AUTO SHUTOFF METER	NO. PER CASE
ADWU-S	Single	No	1
ADWU-D	Dual	No	1
ADWU-DM	Dual with meter	Yes	1
ADWU-D-UV*	Dual with UV	No	1
ADWU-T	Triple	No	1
ADWU-TM	Triple with meter	Yes	1

*ADWU-D-UV model includes UV lamp, ballast, sediment cartridge and carbon block cartridge. For other models, cartridges are not included. The recommended maximum flow rate for ADWU-D-UV system is 1 GPM.

Counter Top Cartridge Systems



Features & Benefits

- Easy to install, no tools required
- Long reach adjustable spout
- Hardware kit for complete installation
- Fully assembled
- Ideal for private label marketing

Conventional Models

Models

MODEL NO.	TYPE	HOUSING	SPOUT	INLET FITTING	ELBOW	DIVERTER	CASE
ACT-C	Chrome	SS4000VWW	LRS-C-OR	C-22N	C-21-1	SDV-14S	12

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.

DID YOU KNOW?

Selection Guide						
TYPE OF FEATURE	DESCRIPTION	QUICK-CHANGE SERIES (QC)	QUICK TWIST SERIES (QT)	ONE PIECE MANIFOLD SERIES	W-415/W-525 SERIES	PERMEATE PUMP / GTS SERIES
Ease of Filter Change	Uses industry standard cartridges			✓	✓	✓
Ease of Filter Change	No need to disconnect tubing when replacing membranes	✓	✓	✓		
Ease of Filter Change	Disposable encapsulated cartridges	✓	✓			
Ease of Filter Change	Easy to remove/replace 1/4-turn filter cartridges	✓	✓			
Ease of Filter Change	Proprietary filter cartridges	✓	✓			
Ease of Filter Change	Automatic shut off when cartridges are removed	✓	✓			
Ease of Filter Change	"Swing out" feature for easy filter change out	✓				
Ease of Installation	Installation kit is included	✓	✓	✓	✓	✓
Ease of Installation	Inlet water fitting is adaptable to use with 3/8" or 1/2" fittings	✓	✓	✓	✓	✓
Ease of Installation	Quick-Connect fittings on inlet and outlet ports	✓	✓	✓	✓	✓

Options	Many faucet options available	✓	✓	✓	✓	✓
Options	Advanced MCD technology booster pump or ZeroWaste kit ready	✓				
Options	Built-in Booster Pumps				✓	
Options	Tank options available (metal or plastic)	✓	✓			✓
Performance Feature	High Flow 3/8" tank to faucet tubing		✓	✓	✓	✓
Performance Feature	Advanced MCD technology booster pump upgrade kit available	✓	✓	✓	✓	✓
Performance Feature	Permeate pump upgrade kit available	✓	✓	✓	✓	✓
Performance Feature	50 GPD or greater thin film membrane	✓	✓	✓	✓	✓
Reliability	Clog free brine flow control	✓	✓	✓	✓	✓
Reliability	Proven design - "no label" model			✓		✓
Reliability	One year limited warranty from date of purchase	✓	✓	✓	✓	✓

Quick-Change (QC) Proprietary Cartridge Systems

The Best of the Best with Quarter-Turn

Swing-out Encapsulated

Cartridges Certified by

WQA

Features & Benefits

- Swing-out feature for easy filter change out
 - Automatic shut off when cartridges are removed
 - Disposable encapsulated cartridges
 - Easy to remove/install 1/4-turn filter cartridges
 - No need to disconnect tubing when replacing membranes
 - Proprietary filter cartridges
 - Certified Systems
 - Inlet water supply fitting is adaptable to use with 3/8" compression or 1/2" compression fittings
 - Installation kit is included
 - Many faucet options available - See faucets section
- Internal valve shuts off flow during cartridge and membrane*

replacement.
Cartridges have double O-rings to

prevent leaks!

Hinge bracket for easy cartridge removal and replacement make changing cartridges so easy,

anyone can do it!

NOTICE



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

- Quick-Connect fittings on inlet and outlet ports
- 50 GPD thin film membrane
- Clog free brine flow control
- Tank options available (metal or plastic)
- Valves are built into the heads to prevent backflow for water quality assurance
- Quick-Change RO Model WQA Certified to NSF/ANSI Standard 58

WQA Gold Seal
 Certified to
 NSF / ANSI
 Standard 58

Models

FAUCET FITTINGS TANK-FAUCET
 TANK

MODEL NO. STAGE MEMBRANE (GPD)

WQC4RO11-50P TNF	4	50	No faucet	1/4"	RO PRO®
WQC4RO11-50M TNF	4	50	No faucet	1/4"	Metal
WQC4RO13-100 PT	4	100	WTM-FAG-C	1/4"	RO PRO®
WQC4RO13-100 MT	4	100	WTM-FAG-C	1/4"	Metal

Proprietary Replacement Cartridges

MODEL NO.	ELEMENT	SEDIMENT	CARBON	MEMBRANE	GAC
50 GPD System	11"	WQCSC11	WQCCC11	WQCM11-50	WQCGAC11
100 GPD System	13"	WQCSC13	WQCCC13	WQCM13-100	WQCGAC13

Quick-Twist (QT) Series

Proprietary Cartridge Systems

Quarter-Turn High Flow Encapsulated Cartridges

Features & Benefits

- Disposable encapsulated cartridges
- Automatic shut off when cartridges are removed
- Easy to remove/replace 1/4-turn filter cartridges
- No need to disconnect tubing when replacing membranes •

Proprietary filter cartridges

- High flow faucet plumbing (3/8" tubing from RO tank to faucet post filter and 3/8" tubing to faucet)
 - Inlet water supply fitting is adaptable to use with 3/8" compression or 1/2" compression fittings
 - Installation kit is included
 - Many faucet options available - See faucets section •
- Quick-Connect fittings on inlet and outlet ports



- 50 GPD thin film membrane • Clog free brine flow control

- Tank options available (metal or plastic)

Watts "Quick-Twist" reverse osmosis systems are highly effective because they provide four-step water treatment:

Specifications

micron depth filter to remove particulates, sand, silt, rust particles and other solid matter.

Stage #2

PRE-CARBON FILTER

Water is filtered with an activated carbon block cartridge to protect the RO membrane by removing Chlorine.

Stage #3

RO MEMBRANE Metals, salts & dissolved solids are rejected by the RO membrane during this step, so only high quality water is sent to the storage tank.

Stage #4

POST-CARBON FILTER

Water from the storage tank is treated with a polishing carbon filter to remove unpleasant tastes and foul odors.

Stage #1

PRE-FILTER

Water is filtered with a five

FACTORS	REQUIREMENTS	Maximum pressure	100psi (7 bar)
Maximum Total Dissolved Solids (TDS)	1,800 ppm		
Iron, Maximum	0.2 ppm		
Hardness (less than)	10 gpg		
Hydrogen Sulfide	0.0 ppm		
Manganese (less than)	0.05 ppm		
Turbidity (less than)	1 NTU		
pH	3-11		
Minimum pressure	40psi (2.8 bar)		

Double O-rings prevent leaks. Flow shuts off automatically when cartridges are removed.

MODEL NO.	STAGE	MEMBRANE (GPD)	FAUCET	FITTINGS TANK-FAUCET	TANK
WQT4RO11-50PT	4	50	Not Included	3/8"	RO PRO®
WQT4RO11-50MT	4	50	Not Included	3/8"	Metal

Proprietary Replacement Cartridges

MODEL NO.	ELEMENT	SEDIMENT	CARBON	MEMBRANE	GAC
50 GPD System	10"	WQTSC-10	WQTCBC-10	WQTCM50-10	WQTCGAC-10

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- Quick-Connect fittings on inlet and outlet ports
- 50 GPD or greater thin film membrane
- Clog free brine flow control

Standard Cartridge One Piece Manifold

Systems *Top Quality*

Systems—Ideal for private label marketing

Features & Benefits

- Uses industry standard cartridges
- High flow faucet plumbing (3/8" tubing from RO storage tank to faucet post filter and 3/8" tubing to faucet)
- Proven Manifold design - "no label" model
- Inlet water supply fitting is adaptable to use with 3/8" compression or 1/2" compression fittings
- Installation kit is included
- Many faucet options available - See faucets section



FMRO4-MAN

Specifications FMRO4-MAN

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

Single-piece manifold design eliminates many hose connections for greater security. Comes with filter elements installed to reduce installation labor.

Replacement Components (FMRO4-MAN)

COMPONENTS	MODEL
Pre-filter, sediment, 5 micron	FPMB5-978
Pre-filter, carbon, 5 micron	F109009
Membrane	F110015
Post filter	F109009

Faucet	F116023
Tank	FRO-132-WH
Fittings (inlet, outlet)	John Guest
Feed water valve	F560080
Auto shutoff valve	F610020
Check valve	F134015
Flow restrictor	F122051
Wrench	F164003

MODEL NO.	STAGE	MEMBRANE (GPD)	FAUCET	FITTINGS		TANK	SHIP WT. (LBS.)	NO. PER PALLET
				INLET	TANK-FAUCET			
FMRO4-MAN	4	50	Non Air Gap	1/4" QC	3/8" QC	Metal	21	24

Note: Permeate pump and Booster pump kits can be used with this system.

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Series 415 & 525 Standard Cartridge

Systems Quality

Product at a Competitive Price

Features & Benefits

- Uses industry standard cartridges
- High flow faucet plumbing (3/8" tubing between RO storage tank and faucet)
- Built-in Booster Pump with choice of 110 or 220 volt systems (W-525P system only)
- Certified Systems
- Inlet water supply fitting is adaptable to use with 3/8" com

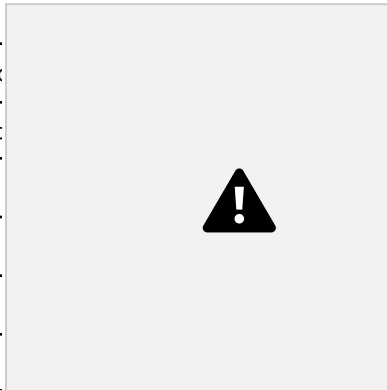
- Watts.com/wqcp
pression or 1/2" compression fittings
- Installation kit is included
 - Many faucet options available - See faucets section •
 - Quick-Connect fittings on inlet and outlet ports
 - 50 GPD or greater thin film membrane
 - Clog free brine flow control

Models

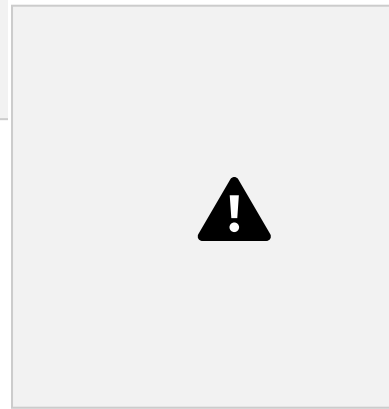
Maximum pressure	100
Minimum pressure	40
Maximum TDS	1,800
Maximum hardness	10
Maximum Iron	0.2
Maximum Hydrogen Sulfide	0.0
Tubing (tank & faucet)	3/8"
Tubing (inlet)	1/4"

Replacement Components

COMPONENTS
Pre-filter, sediment, 5 microns
Pre-filter, carbon, 5 microns
Membrane
Post filter *
Faucet
Tank
Fittings (inlet, outlet)
Feed water valve
Auto shutoff valve
Check valve
Flow restrictor
Wrench



W-415-NF



W-525P With Built-In Booster Pump

Specifications

SPECIFICATION
Membrane

* W-415 & W-525 models only

MODEL NO.	PUMP	VOLTS	STAGE	MEMBRANE (GPD)	FAUCET	FITTINGS		TANK	SHIP WT. (LBS.)
						INLET	TANK FAUCET		
W-415-NF	No pump	N/A	4	50	not included	1/4" QC	3/8" QC	Metal	26
W-525	No pump	N/A	5	50	FU-WDF-905-CP	1/4" QC	3/8" QC	Metal	30
W-525-NF	No pump	N/A	5	50	not included	1/4" QC	3/8" QC	Metal	29
W-525P	Aquatec	110	5	50	FU-WDF-905-CP	1/4" QC	3/8" QC	Metal	33

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Permeate Pump & GTS Series Standard Cartridge Systems

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

Features & Benefits

- Uses industry standard cartridges
- Proven design - "no label" model
- High flow faucet plumbing (3/8" post filter and 3/8" tubing to faucet)
- Permeate pump uses no electricity and

- provides * (Model FMRO4G-ERP)
- a) More water in storage tank;
 - b) Better contaminant reduction;
 - c) Faster tank filling;
 - d) Reduces waste water by 67%
- Inlet water supply fitting is adaptable to use with 3/8" compression or 1/2" compression fittings
 - Installation kit is included
 - Many faucet options available - See faucets section
 - Quick-Connect fittings on inlet and outlet ports
 - 50 GPD or greater thin film membrane
 - Clog free brine flow control
 - Tank options available (metal or plastic)

Specifications

Flow restrictor	F12
Flow restrictor (MT 100)	F12
Wrench	WF

Replacement Components

COMPONENTS	
Pre-filter, sediment, 5 micron	
Pre-filters, carbon, 5 micron	
Membrane	
Membrane (MT 100)	
Post filter	
Faucet (non air gap)	
Faucet (air gap)	
Metal tank	
Plastic tank	
Fittings (inlet, outlet)	
Feed water valve	
Auto shutoff valve	
Check valve	

GTS450S Series

GTS550S Series

FMRO4G-ERP*
Non-electric permeate pump dramatically increases water production! Permeate pump reduces back pressure on the membrane for improved performance.

SPECIFICATION	DATA
Membrane	50 GPD or 100 GPD
Maximum pressure	100psi
Minimum pressure	40psi
Maximum TDS	1,800 PPM
Maximum hardness	10 GPG
Maximum Iron	0.2 PPM
Maximum Hydrogen Sulfide	0.0 PPM

Tubing (tank & faucet)	3/8"
Tubing (inlet)	1/4"

MODEL NO.	STAG E	MEMBRANE (GPD)	FAUCET	FITTINGS INLET TANK-FAUCET		TANK	SHIP WT. (LBS.)	NO. PER PALLET
Model GTS450								
GTS450S-NAGF-MT	4	50	Non Air Gap	1/4" QC	3/8" QC	Metal	26	24
GTS450S-NAGF-PT	4	50	Non Air Gap	1/4" QC	3/8" QC	Plastic	26	24
Model GTS550								
GTS550S-NAGF-MT	5	50	Non Air Gap	1/4" QC	3/8" QC	Metal	30	24
GTS550S-NAGF-PT	5	50	Non Air Gap	1/4" QC	3/8" QC	Plastic	30	24
GTS550S-AGF-MT	5	50	Air Gap	1/4" QC	3/8" QC	Metal	30	24
Permeate Pump Model								
FMRO4G-ERP	4	50	Non Air Gap	1/4" QC	3/8" QC	RO Pro®	27	24

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

Designed to convert any existing generic reverse osmosis system to ZeroWaste® technology, this kit is a perfect ad

dition for any environment! Compact design combines the pressure switch and shutoff valve into one device.

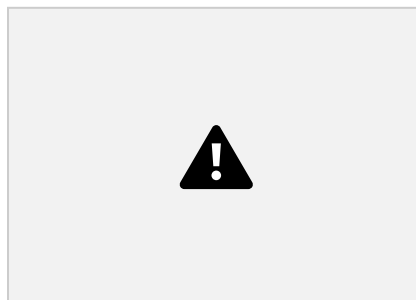
Kit Includes:

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

* In ZeroWaste® Kit Only

F501026 (ZeroWaste® Kit)

F560043 (Booster Pump Kit)



W-525 Premium Series RO

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Reverse Osmosis LC Series

All systems are frame mounted

Features & Benefits

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





LC-200P-MINI LC-200P LC-380PP

Reverse Osmosis R12 Series

Compact, wall-mounted RO systems

Four models for flow rates to 1200 US GPD.

Standard features (package #1)

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

Additional features included in package #2

- Pre-filter pressure gauges
- Product water flow meter

Models

MODEL NO.	GP D	PUM P	STAGE 1	STA
LC-200P-MINI	200	1	FPMB5-978	FI-CT
LC-200P	200	1	FPMB5-20	FI-CT
LC-300P	300	1	FPMB5-20	FI-CT
LC-380PP	380	2	FPMB5-20	FI-CT

Replacement Parts

MODEL NO.	DESCRIPTION
FC-DR850W	Flow restrictor 850 ML/Min
FC-DR1000W	Flow restrictor 1000 ML/Min
FC-DR1200W	Flow restrictor 1200 ML/Min
PU-6200E60-38-P	Electric shutoff valve, 3/8"
PU-8010TSO/NF	Tank shutoff valve
PU-8800TGI	Booster Pump
TACS-114-48	Transformer for single pump
K4541034-ASY	Transformer for dual pump

Amps	8
Pump	1/2 HP

- Reject water flow meter

Additional features included in package #3

- Automatic fast flush for concentrate

Specifications Options

Model R12-1200

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

Models

MODEL NO	DESCRIPTION
R2864	Stainless steel leg kit
R2350-SD	Product water float switch
R2288	Whole house option*

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

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

NOTICE

Performance specifications are based on 77°F feed water, 3 SDI or less, [For Configurator and Application Tools](#), please charts to determine actual production rate for each installation. Chlorine [refer to the beginning of this catalog](#). Membrane rejection rates are based on membrane manufacturer's specifications. Pre-filter is Flow-Pro® FPMB5-978 melt blown cartridge. Systems are designed for use with municipal and well water.

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Compact, wall-mounted RO Systems

Three models for flow rates to 1200 US GPD

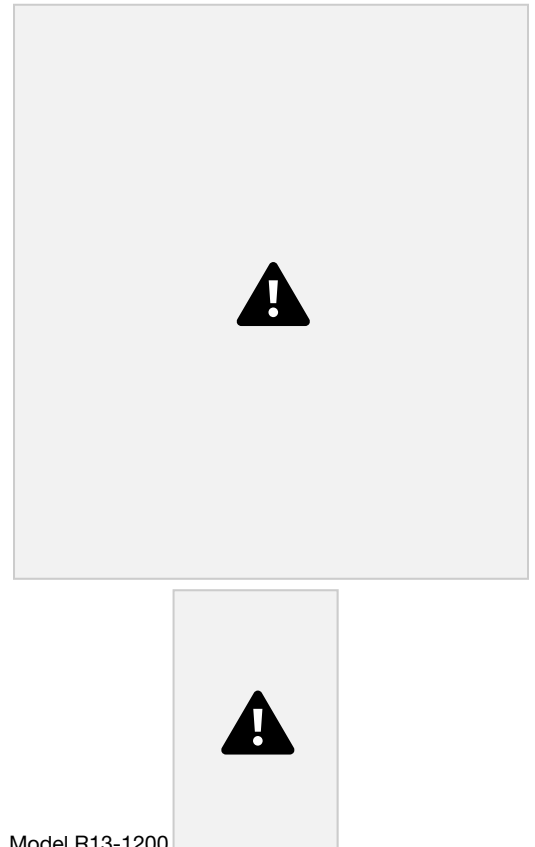
Standard features

- Powder coated steel frames
- Inlet solenoid valve
- Pre-filter
- 1/2 HP motor
- Brass pump
- Liquid filled pre-filter pressure gauge
- 2 1/2" liquid filled pump pressure gauge
- Product water & reject water flow meters
- High pressure, non-metallic membrane housings
- SS needle valves for concentrate and recycle lines
- Stainless steel product water check valve
- On / Off toggle switch
- Low-pressure shut-off with auto restart
- Feed water and product water TDS monitor
- High tank level input (dry contact)
- Pretreatment interlock input (dry contact)
- Pump start delay
- Inlet valve delay

Applications

- Whole house
- Ice makers
- Labs
- Beverages
- Coffee shops
- Restaurants

Specifications



Model R13-1200
Proprietary Membranes (for R13 systems)

Reverse Osmosis R13 Series

Feed water connection	3/4" NPTF
Product water connection	3/8" Tubing OD
Reject water connection	3/8" Tubing OD
Feed water required (max.)	2.4 GPM
Feed water pressure (min.)	10 PSI
Drain required (max.)	2.4 GPM
Electrical requirements	120 VAC 60 Hz
Amps	8
Pump (H.P.)	1/2

Models

Options

PART NUMBER	DESCRIPTION
R2868	Leg Kit
R2350-SD	Product float switch
R2288	Whole house option*

*Includes 300 gal tank, product float switch and repressurization pump with built in controls.

	R13-0250	R13-0600	R13-1200
Maximum production (gallons per day)	250	600	1200
Average membrane rejection rate	98 %	98 % 9	8 %
Recovery (adjustable)	8 - 75 %	17 -75%	34 - 75 %
Membrane size	3" x 10"	3" x 20"	3" x 20"
Number of membranes	1 (P/N R96310)	1 (P/N R96320)	2 (P/N R96320)
Pre-filter (system ships with one 5 micron cartridge)	10"	20"	20"
Dimensions, approximate (W x H x D)	26" x 26" x 9"	26" x 36" x 9"	26" x 36" x 9"
Shipping Weight, estimated (lbs.)	50	60	75

NOTICE

Performance specifications are based on 77°F feed water, SDI < 3, TDS below 1000 ppm and pH of 7. Individual membrane productivity and rejection rates are based on manufacturer's specifications. Please see water temperature conversion charts for production factor. Chlorine reduction and other pretreatment may be required. Systems are designed for use with municipal and well water.

Reverse Osmosis R4X40 Series

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

Standard Features

- Powder coated steel frame
- Inlet solenoid valve
- 20" prefilter
- Prefilter pressure gauge
- Multistage centrifugal pump
- Low-pressure protection with microprocessor auto reset
- Tank level input (dry contact)
- Pretreatment interlock input (dry contact)
- 2 ½" liquid filled pump pressure gauge
- FRP pressure vessels
- Product flow meter
- Reject flow meter
- Concentrate needle valve
- Non metallic recycle needle valve
- Feed water and product water TDS monitor
- Pump start delay
- Inlet valve close delay

Applications



- Humidifiers
- Greenhouses
 - Process Water • Electronics
 - Car wash spot-free

Model: R4X40-1

- Whole house • Boiler feed water •

	Hz	60 Hz, 1 PH
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Note: For indoor installation only.

Specifications

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

Models

Options

PART NUMBER	DESCRIPTION
R2350-SD	Product float switch
R2288-165	165 gal tank whole house option**
R2288	300 gal tank whole house option**
R2288-500	500 gal tank whole house option**

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

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

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

NOTICE

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

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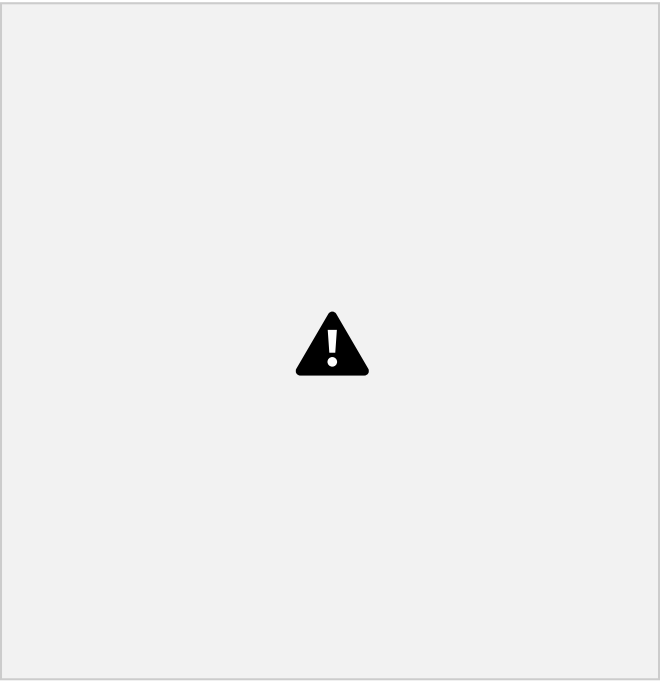
Reverse Osmosis R14 Wall Mount Series

Compact, wall-mounted RO systems

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

Standard features

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



R14-02-1WM System

SpecificationsOptions

Feed water connection 1"	FNPT
Product water connection (1800 & 3600 GPD)	1/2" tube
Product water connection (5400 GPD)	5/8" tube
Reject water connection (all R14 Wall Mount models)	1/2" tube
Feed water pressure requirement (minimum)	10 PSIG

Drain requirement (maximum)	10 GPM
Electrical requirement	230v/60hz
Phase	1
Amps (1800 & 3600 GPD)	6
Amps (5400 GPD)	9

PART NUMBER	DESCRIPTION
R2350-SD	Product water float switch
R2288	Whole house option*

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

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

*At 50% recovery.

NOTICE

Performance specifications are based on 77°F feed water, 3 SDI or less, TDS below 1000 and pH of 7. Please see water temperature conversion charts to determine actual production rate for each installation.

Chlorine reduction and other pretreatment may be required. Membrane rejection rates are based on membrane manufacturer's specifications.

Pre-filter

is Watts WPC5FF975 synthetic pleated cartridge.

Systems are designed for use with municipal and well water.

Top quality, fully assembled RO systems

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

Standard features

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

R14-06-1131100 System

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For Configurator and Application Tools, please refer to the beginning of this catalog.

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Reverse Osmosis R14 Series

Specifications

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

Other voltages available, please contact us for details.

Models

MODEL NO.	GPD	PUMP (H.P.)	RECOVER Y (ADJ.)	MEMB RANE SIZE	ME
R14-02-11311 00	360 0	5/TEFC	25%-75 %	4" x 40"	
R14-03-11311 00	540 0	5/TEFC	36%-75 %	4" x 40"	
R14-04-11311 00	720 0	5/TEFC	42%-75 %	4" x 40"	
R14-05-11311 00	900 0	5/TEFC	46%-75 %	4" x 40"	
R14-06-11311 00	108 00	5/TEFC	50%-75 %	4" x 40"	

NOTICE

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

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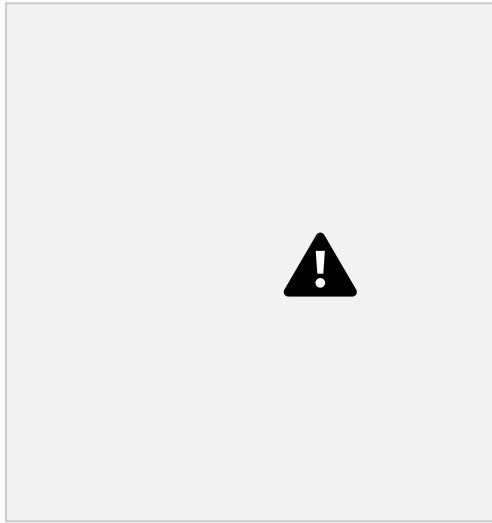
For Configurator and Application Tools, please refer to the beginning of this catalog.

R24 Series

Three models for flow rates up to 15 GPM.

Standard features

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



Reverse Osmosis

Specifications
R24 System

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

Other voltages available, please contact us for details.

Models

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

NOTICE

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

- Tank level input
- Pretreatment interlock input
- Adjustable recycle line
- Concentrate auto flush
- Pre-filter pressure gauges

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For Configurator and Application Tools, please refer to the beginning of this catalog.

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Reverse Osmosis R44 Series

Three models for flow rates up to 30 GPM.

Standard features

- Powder coated steel frame
- Electronic controller with product water conductivity meter
- FRP multi-port pressure vessels
- Stainless steel pre-filter and cartridges
- Vertical multi-stage centrifugal pump
- Automatic inlet valve
- Low-pressure shut-off with auto restart

R44 System

- Pump discharge pressure gauge
- Membrane feed pressure gauge
- Reject pressure gauge
- Flow meter for product water
- Flow meter for reject water
- Flow meter for recycle water
- Check valve for product water



- Sample valves for product water
- On / off switch

R44-24-1131100	30	10/TEFC	65%-75%	4" x 40"	4:2	
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NOTICE

Specifications

Feed water connection	2" Flange
Product water connection	1.5" Flange
Reject water connection	1" Flange
Feed water pressure requirement (min.)	10 PSIG
Drain requirement (maximum)	31, 39, 46 GPM
Electrical requirement	230VAC/60hz
Phase	3
Amps	30

Other voltages available, please contact us for details.

MODEL NO.	GALLONS PER MINUTE	PUMP (H.P.)	RECOVERY (ADJ.)	MEMBRANE SIZE	
R44-16-1131100	20	10/TEFC	65%-75%	4" x 40"	
R44-20-1131100	25	10/TEFC	65%-75%	4" x 40"	

TDS below 1000 and pH of 7. Please see water temperature conversion charts to determine actual production rate for each installation. Chlorine reduction and other pretreatment may be required. Membrane rejection rates are based on membrane manufacturer's specifications. Pre-filter is Flow-Max® FM4X3 filter housing, constructed using 316 stainless steel and 2" MNPT pipe fittings and Watts WPC5-2925 synthetic pleated cartridges. Systems are designed for use with municipal and well water.

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For Configurator and Application Tools, please refer to the beginning of this catalog.

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Performance specifications are based on 77°F feed water, 3 SDI or less,

Reverse Osmosis R18

Series *Top quality, fully assembled RO systems*

Four models for flow rates up to 30 GPM

Standard features

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



- Pump discharge pressure gauge (liquid filled)
- Reject pressure gauge (liquid filled)
- Flow meter for product water
- Flow meter for reject water
- **Standard options**
- UV System preplumbed pre or post RO

- Flow meter for recycle water
- Check valve for product water

Chemical feed pump installed and prewired

Electrical requirement
Phase
Amps
Membrane Size
Typical rejection

Specifications

Feed water co
Product water
Reject water c
Feed water pre (minimum)
Drain requirem
Motor horse p

Other voltages available, please contact us for details.

Models

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

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

NOTICE

Performance specifications are based on 77°F feed water, 3 SDI or less, TDS below 2000 and pH of 7. Please see water temperature conversion charts to determine actual produc tion rate for each installation. Chlorine reduction and other pretreatment may be required. Membrane rejection rates are based on membrane manufacturer’s specifications.

Pre-filter is Watts BBC-150-P5 synthetic pleated cartridge. Systems are designed for use with mu nicipal and well water.

Standard features

- Powder coated steel frame
- FRP multi-port pressure vessels
- Stainless steel pre-filter and cartridges
- Vertical multi-stage centrifugal pump
- Automatic inlet valve
- Low-pressure shut-off with auto restart
- Tank level input
- Pretreatment interlock input
- Adjustable recycle line
- Pre-filter pressure gauges
- Pump discharge pressure gauge
- Membrane feed pressure gauge

- Reject pressure gauge
- Flow meter for product water
- Flow meter for reject water
- Flow meter for recycle water
- Check valve for product water
- Sample valves for product water
- On / off switch

Additional features included

- CI-2000 electronic controller with feed and product water conductivity meter with percent rejection
- Programmable concentrate auto flush

Standard electrical requirement is 460 volts 3-phase 60 hz. Other voltages available, please contact us for details.
R48 System

NOTICE

MODEL NO.	GALLONS PER MINUTE	FEED WATER CONNECTION	PUMP (H.P.)	RECOVERY (ADJ.)	MEMBRANE SIZE	MEMBRANE ARRAY	FEED WATER REQUIRED* (GPM)	TYPICAL REJECTION	DIMENSIONS	SHIP WT. (LBS.)
R48-08-313 1100	40	2" Flange	15/TEFC	65%-75 %	8" x 40"	1:1	62	98%	198"x42" x72"	2500
R48-12-313 1100	60	2.5" Flange	20/TEFC	65%-75 %	8" x 40"	2:1	93	98%	198"x42" x72"	2800
R48-16-313 1100	80	3" Flange	25/TEFC	65%-75 %	8" x 40"	2:2	123	98%	198"x42" x72"	3200
R48-20-313 1100	100	3" Flange	30/TEFC	65%-75 %	8" x 40"	3:2	154	98%	198"x42" x72"	3500
R48-24-323 1100	120	3" Flange	30/TEFC	65%-75 %	8" x 40"	3:2:1	185	98%	198"x42" x80"	3800

NOTICE

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

Controller (PLC).

Standard features

- Allen-Bradley Micro 850 PLC
- 14 each digital inputs (6 high speed)
- 8 each analog (4-20 ma) inputs
- 10 each relay outputs (24 VAC)
- Embedded Ethernet port for higher performance connectivity compared to serial port
- Compatible with SCADA applications with support for Modbus over serial and Ethernet communications
- Color touch screen (7" diagonal) HMI to display System status



Reverse Osmosis R48 Series

With Programmable Logic

Options

- Larger touch screens
 - Variable Frequency Drive (VFD) •
- Permeate shutdown flush

Call for a quote.

R48-24 System

Watts.com/dealer