

Product Catalog

Watts Pure Water Residential Filtration & Treatment Products



PFOA/PFOS

PFOA/PFOS are two of the most common PFAS chemicals that do not break down in the environment. These persistent "forever chemicals" move down through soil into groundwater and contaminate drinking water sources. PFOA/PFOS have been linked to an increased risk of adverse health effects.

Lead

Lead can exist in water in a broad array of forms, therefore, more than one type of technology may be needed for adequate removal. Soluble (or dissolved) lead may be removed by ion exchange, reverse osmosis, adsorption, or distillation. Insoluble (or particulate) lead may be removed by fine filtration and adsorption, reverse osmosis, or distillation.

Source: Water Quality Association

Bacteria, Viruses & Cysts

Microbial contaminants can't always be detected through sight, smell or taste. You might go years before realizing a problem exists. Although some waterborne microbes can cause illness, many microbes are harmless or even beneficial. Very small levels of microbes are naturally present in many water supplies, but some are more dangerous than others. Some of the more dangerous microbial contaminants, such as *E. coli*, Giardia, and Cryptosporidium, can cause gastrointestinal problems and flu-like symptoms.

Chlorination

Chlorination is the treatment process in which chlorine gas or a chlorine solution is added to water for disinfection and control of microorganisms. Chlorination is also used in the oxidation of dissolved iron, manganese, and hydrogen sulfide impurities. This method of disinfection involves adding

chlorine to water to make it safer to drink. It's common, cost-effective, and quick, killing many pathogenic microorganisms. It can even oxidize or break down iron, manganese, and hydrogen sulfide, which can result in water that is clearer and tastes better. Some people find that chlorine gives water its own objectionable chemical taste and odor. It also can produce disinfection by-products (which may cause health issues) by reacting with other substances in water when stored. These by-products can often be filtered out with activated carbon.

Scale Deposits

Scale deposits are a typical indicator of hard water. Hardness is a common quality of water where water contains dissolved compounds of calcium and magnesium and, sometimes, other divalent and trivalent metallic elements.

Taste & Odor

While taste issues are only noticed at the faucet where water is used for drinking, bad smelling water can be noticeable any place in or around a home or office where water is used.

Cloudiness & Discoloration

Discoloration of water is another sign of impurities and turbidity. Turbidity refers to the amount of small particles of solid matter suspended in water as measured by the amount of scattering and absorption of light rays caused by the particles. Turbidity blocks light rays and makes the water opaque. Turbidity cannot be directly equated to suspended solids because white particles reflect more light than dark-colored particles and many small particles will reflect more light than an equivalent large particle.



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The information in this literature is not intended to replace the installation instructions provided with each product. Consult the Installation Manual and follow all requirements for each product.

End Cap Merchandising

We've Made
Product Selection
the Easiest in the
Wholesale Channel!

Green Packaging
Indicates under counter
applications

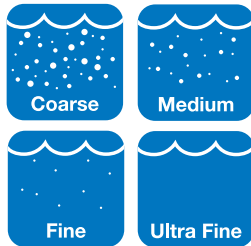
Red Packaging
Indicates whole house
applications

Icons Identify:

Contaminant Reduction



Filtration Effectiveness



End Cap Item



Shelving NOT INCLUDED

Ordering Codes & Recommended End Cap Product Selection

Model	Description	Ordering Code	Case Quantity	Recommended Quantity for End Cap (includes replenishment)
PW-EndCapHeaderPkg* Includes Header, Clips, Planogram, Cross reference hang card & chain		7300617	1	1
PWDWHCL1	Single Stage Lead Reduction Filtration System	7100575	1	2
PWDWTPFAS1	Single Stage Total PFAS Reduction Filtration System	7101116	1	2
PWDWUFKC3	3-Stage Ultra Filtration (UF) System	7100106	1	2
PWROKC4	4-Stage Kwik-Change RO System	7100107	1	2
PWCFHCL1	Replacement Cartridge for Single Stage Lead Reduction Filtration System	7100576	1	4
PWCBTPFAS1	Replacement Cartridge for Single Stage Total PFAS Reduction Filtration System	7101117	1	4
PWFPK2KC4	Semi-Annual replacement filter pack for 3-Stage UF and 4-Stage Kwik-Change RO System	7100116	1	4
PWFPKKCUF	Annual Filter Pack for 3-Stage UF Filtration System	7100118	1	3
PWHIB34WVIH	Valve-In-Head Housing Kit	7100550	4	4
PWHIB10FF	10" Full Flow Housing Kit	7100268	4	4
PWHIB20FF	20" Full Flow Housing Kit	7100269	4	4
PWILGAC10	10" Inline GAC Filter	7100454	6	24
PWMB10M5	10" 5 Micron Melt Blown Sediment Filter	7100331	12	24
PWMB10M50	10" 50 Micron Melt Blown Sediment Filter	7100335	12	12
PWPL10FFM20	10" Full Flow 20 Micron Pleated Sediment Filter	7100411	4	8
PWCB10P	10" 5 Micron Carbon Block Filter	7100446	12	24
PWCB10FFP	10" Full Flow 5 Micron Carbon Block Filter	7100448	4	8
PWCB20FFP	20" Full Flow 5 Micron Carbon Block Filter	7100449	4	8
OFPSYS	OneFlow+ Whole House Scale Prevention System	7100638	1	2
OFPRFC	Replacement Carbon Block Filter Cartridge for OneFlow+ System	7100639	1	2

* No charge when purchasing \$2500.00 USD worth of products for end cap display.
The PW End Cap Header Package includes 2' x 3' Header, Laminated XREF Chart and Chain and Plan-O-Gram.

Watts® Pure Water Visual Test Kits

provide a quick, portable, and convenient way to measure some of the most common water quality test parameters anywhere at any time. Accurate chemistry, simple to read comparator cards with instruction allows for testing on site without having to take water samples back to a chemistry laboratory.



Individual Visual Test Kits

ORDERING CODE	MODEL NUMBER	PARAMETER	TEST TYPE	RANGE (PPM)	# TEST
7100700	PWVTOTALIRON	Total Iron (Fe+3) Kit	Visual Comparator, Colorimetric	0-9	≥ 100
7100701	PWVTFERROUSIRON	Ferrous Iron (Fe+2) Kit	Visual Comparator, Colorimetric	0-9	≥ 100
7100702	PWVTMANGANESE	Manganese Kit	Visual Comparator, Colorimetric	0-10	≥ 100
7100703	PWVTOTALALK	Total Alkalinity Kit	Visual Comparator, Colorimetric	0-500	≥ 100
7100704	PWVTpH	pH Kit	Visual Comparator, Colorimetric	6-8	≥ 100
7100705	PWVTCHLORINE	Chlorine (Free & Total) Kit	Visual Comparator, Colorimetric	0-6	≥ 100
7100706	PWVTHARDNESS	Total Hardness Kit	Visual Drop Count, Titrimetric	0-500/0-30gpg	≥ 100

NOTE: Individual Kits contain all necessary reagents, comparator card, syringe, cuvettes, and instructions to perform measurements. Comparator Holder and handheld TDS Meter are sold separately.



Accessories

ORDER CODE	DESCRIPTION
7100708	Comparator Card Holder



TDS Handheld Meter with Carrying Case

ORDER CODE	DESCRIPTION
7300782	TDS Meter 0 – 99990 (mg/l) Temp 32°F – 176°F

This handheld TDS Meter provides a quick, reliable way to assess water quality. Accurately measures total dissolved solids (TDS) levels. Ideal for evaluating reverse osmosis membrane performance and determining when replacement is needed. Designed for both residential and commercial use. Compact and portable—convenient to carry in a pocket or toolbox.

- **Filtration**
- **Reverse Osmosis**
- **Replacement Filter Kits**
- **Replacement RO Membranes**

Filtration Systems

Residential • Marine • RV



PWDWTFAS1



PWDWLCV2



PWDWUFKC3

Reverse Osmosis

What is reverse osmosis?

Reverse osmosis, often referred to as RO, is an advanced water purification method that was initially developed by the U.S. Navy to produce drinking water from seawater for submarine crews. It is a membrane filtration technology that works by forcing water under pressure through the very tiny pores of a semi-permeable membrane. Modern reverse osmosis units for the home combine membrane technology with carbon and mechanical filtration to produce highly purified, great-tasting water.



PWRO4



PWRO4ZRO



PWROKC4

How does it work?

In a typical residential reverse osmosis (RO) system, water supplied by municipal pressure first passes through a sediment pre-filter that reduces dirt and suspended particles. It then flows through a carbon pre-filter, which reduces chlorine, its by-products, and other organic contaminants.

The water next enters the RO membrane, a highly selective filtration barrier that allows water molecules to pass while rejecting dissolved solids and contaminants such as sodium, lead, and arsenic. A portion of the incoming water continuously rinses the membrane surface and is discharged to the drain as concentrate.

Purified water is stored in a pressurized storage tank until needed. When the dedicated faucet is opened, the stored water passes through a final carbon post-filter to improve taste and quality before being dispensed.

This description represents a simplified four-stage RO system and does not include several essential components, such as flow control devices, check valves, and the automatic shutoff valve that stops water flow when the storage tank is full.

Model PWDWTPFAS1

Single-Stage Total PFAS Filtration System

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

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

Features

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

REDUCES

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



PWDWTPFAS1 is certified by IAPMO R&T to NSF/ANSI 42 for the reduction of Chlorine, Taste and Odor, and Particulates Class 1; NSF/ANSI 53 for the reduction of Total PFAS, Lead, Cyst and Asbestos; NSF/ANSI/CAN 372 for low lead Compliance; NSF/ANSI 401 for reduction of Micro-Plastics; and to CSA B483.1 as verified and substantiated by test data.



PWDWTPFAS1
Ordering Code 7101116

Benefits

- Certified to reduce 99.5% Total PFAS, 99.4% Lead, 99.95% Cyst, 99.9% Asbestos, 98.3% Microplastics, 92.9% Chlorine, Taste and Odor, and 98.3% Particulates Class 1
- Provides superior filtration for all the cold water to your kitchen and bathroom faucets
- No additional hole to drill for faucet in sink or counter-top
- System goes well beyond basic water filtration and typical "pitcher" or "end-of-tap" filter

Replacement Filter

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

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

Model PWDWHCL1



Single Stage High-Capacity Lead Reduction Filtration System

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

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

Features

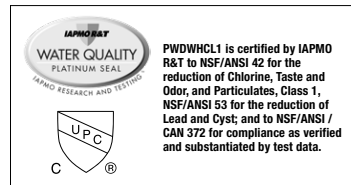
- High-flow system (2 gallons per minute)
- High capacity 0.5 micron carbon fiber filter (7900 gallons) for less frequent filter changes
- System comes complete with fittings and tubing required for a quick and easy standard installation
- Connects directly to most standard kitchen and bathroom cold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

Benefits

- Certified to reduce 99.2% Lead, 99.95% Cysts, 94.8% Chlorine, Taste and Odors, and 99.2% of Particulates, Class 1
- Provides superior filtration for all the cold water to your kitchen and bathroom faucets
- No additional hole to drill for faucet in sink or counter-top
- System goes well beyond basic water filtration and typical "pitcher" or "end-of-tap" filter

REDUCES

- ✓ Lead
- ✓ Cysts
- ✓ Chlorine, Taste and Odors
- ✓ Sediment/Particulates Class 1



PWDWHCL1
Ordering Code 7100575

Replacement Filter

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

For additional information, access online literature ES-PWDWHCL1.

Model PWDWHCUC1

Single Stage High Capacity Carbon Filtration System

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

Features

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

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

Benefits

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

REDUCES

- ✓ Chemicals
- ✓ Chlorine, Taste and Odors
- ✓ Sediment



PWDWHCUC1
Ordering Code 7100642

Replacement Filter

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

NOTE: Water conditions may require more frequent cartridge replacement.

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

Model PWDWLCV2

Under Counter Water Filtration System

Watts Pure Water 2-Stage LCV Drinking Water System produces high-quality, fresh water on demand by reducing unwanted tastes and odors from your incoming water supply. This system was designed for the Home, RV and Marine Industry where space is at a premium and quality water is essential.

Features

- 2-Stage-Includes sediment and 1-micron LCV Carbon Block filters
- Adapt-A-Valve™ for easy installation
- Includes dedicated elegant Chrome long reach faucet
- System comes complete with fittings and tubing required for a quick and easy standard installation

Benefits

- Reduces sediment, chlorine taste odors
- Works in low-pressure applications
- Space saving design installs under sink or in limited spaces

REDUCES

- ✓ Chemicals
- ✓ Chlorine, Taste and Odors
- ✓ Sediment



PWDWLCV2
Ordering Code 7100101

Replacement Filters Packs

MODEL NO.	ORDERING CODE	FREQUENCY	DESCRIPTION
PWFPKLCV	7100111	6 Months	Includes sediment and carbon filter

NOTE: Water conditions may require more frequent cartridge replacement.

For additional information, access online literature ES-PWDWLCV2.

Model PWDWUFKC3

Kwik-Change™ Ultra Filtration Membrane Water Filtration System



Features

- 3-Stage-Includes sediment, carbon block and UF Membrane cartridges
- Hinge bracket and pivot head for ease of accessibility and cartridge replacement
- Automatic shutoff valves in the manifold eliminate the need to shut off the incoming water supply when changing out the filters
- Adapt-A-Valve™ for easy installation
- Includes Designer Faucet in Brushed Nickel finish
- Cartridges disconnect and connect from the unit by simple ¼ turn
- Double seal O-ring cartridges ensure system integrity

Benefits

- Reduces sediment, chlorine, taste and odors and most colloids and impurities as small as 0.1 micron nominal*
- Requires only normal line pressure to operate
- Dispenses a continuous supply of water, no storage tank needed
- Requires minimal maintenance and will provide clean, safe, great tasting water colloids and impurities as small as 0.1 micron nominal

REDUCES*

- ✓ Sediment
- ✓ Chlorine, Taste and Odors



PWDWUFKC3
Ordering Code 7100106

Replacement Filter Packs

MODEL NO.	ORDERING CODE	FREQUENCY	DESCRIPTION
PWFPK2KC4	7100116	6 Months	Includes sediment and carbon pre-filters only
PWFPKCUF	7100118	Annual	Includes all filters and UF membrane

NOTE: Water conditions may require more frequent cartridge replacement.



PWDWUFKC3 is certified by WQA to NSF/ANSI/CAN 372 for lead-free compliance.

*Reduction claims not tested or certified by WQA.

For additional information, access online literature ES-WQ-PWDWUFKC3.

Model PWRO4

4-Stage Reverse Osmosis (RO) System

A tried and true reverse osmosis system that produces crystal clear, high quality and great tasting water!

Features

- 4-Stage-Includes sediment, carbon block, RO Membrane and final filter
- High producing RO Membrane up to 50 gallons per day
- Adapt-A-Valve™ for easy installation
- Includes dedicated elegant Chrome long reach faucet
- System comes complete with fittings, tubing and RO storage tank required for a quick and easy standard installation

Benefits

- Space saving design, installs under sink or in limited space
- Semi-permeable membrane will reduce contaminants down to 1/10,000 of a micron
- Provides great tasting water for drinking and cooking
- Independently tested to reduce Sediment, Chlorine, Taste and Odors *
- Certified to reduce 99.95% of Cysts, and 81% of TDS.

REDUCES

- ✓ Sediment*
- ✓ Chlorine, Taste and Odors*
- ✓ Cyst
- ✓ TDS



PWRO4 is certified by WQA against NSF/ANSI 58 for the reduction of Cyst and TDS, and to NSF/ANSI/CAN 372 for lead free compliance

*Sediment, Chlorine, Taste and Odor, reduction claims not tested or certified by WQA.



PWRO4
Ordering Code 7100103

Replacement Filter Packs

MODEL NO.	ORDERING CODE	FREQUENCY	DESCRIPTION
PWFPKSEDCB	7100110	6 Months	Includes sediment and carbon filter only
PWFPK4R04	7100115		Includes all filters and membrane
PWMEM50	7100122	2 – 5 Years	50 gpd membrane
PWLGC10	7100454	Annual	10" final in-line filter

NOTICE

Water conditions may require more frequent cartridge replacement

For additional information, access online literature ES-WQ-PWRO4.

Model PWRO4ZRO

ZRO-4 ZeroWaste® Reverse Osmosis System

The patented ZeroWastePoint-of-Use Reverse Osmosis (RO) System is the first ever that wastes no water. Comparable systems typically waste up to 4-12 gallons of water for every gallon of RO water produced. This highly efficient Watts RO system provides better-than-bottled water quality for residential applications.

Features

- 4-Stage-Includes sediment, carbon block, RO Membrane and final filter
- Patented technology using advance design – 100% Efficient – NO WASTED WATER
- High producing RO Membrane up to 50 gallons per day
- Adapt-A-Valve™ for easy installation
- Includes elegant Watts Designer Top Mount Chrome faucet with 3/8" high-flow delivery
- System comes complete with fittings, tubing and RO storage tank required for a quick and easy standard installation

Benefits

- Saves as much as 7,000 gallons per year in a typical residential application
- No air gap faucet or drain connection required
- Ideal for low pressure or well applications
- Space saving design, installs under sink or in limited space
- Semi-permeable membrane will reduce contaminants down to 1/10,000 of a micron
- Provides great tasting water for drinking and cooking
- Independently tested to reduce Sediment, Chlorine, Taste and Odors*
- Certified to reduce 99.95% of Cysts and 81% of TDS

REDUCES

- ✓ Sediment*
- ✓ Chlorine, Taste and Odors*
- ✓ Cyst
- ✓ TDS



PWRO4ZRO is certified by WQA against NSF/ANSI 58 for the reduction of Cyst and TDS, and to NSF/ANSI/CAN 372 for lead-free compliance.

*Sediment, Chlorine, Taste and Odor, reduction claims not tested or certified by WQA.



PWRO4ZRO
Ordering Code 7100104

Replacement Filter Packs

MODEL NO.	ORDERING CODE	FREQUENCY	DESCRIPTION
PWFPKSEDCB	7100110	6 Months	Includes sediment and carbon filter only
PWFPK4R04	7100115		Includes all filters and membrane
PWMEM50	7100122	2 – 5 Years	50 gallon per day membrane
PWLGC10	7100454	Annual	10" final in-line filter

NOTICE

Water conditions may require more frequent cartridge replacement

For additional information, access online literature ES-WQ-PWRO4ZRO.

Model PWROKC4

Kwik-Change™ Reverse Osmosis Systems

This four-stage Kwik-Change reverse osmosis system is equipped with a unique swivel valve-in-head Kwik-Change assembly. This allows a simple and sanitary filter change that does not require you to turn off the water source to the system. Stage 1 is a 5 micron sediment filter that traps particulate matter like dirt, rust, sand silt, and sediment*. Stage 2 is a 5 micron carbon block filter that provides a reduction of chlorine, chloramines, and other materials that cause bad taste and odors.* Stage 3 is the reverse osmosis system membrane with production up to 60 gpd. This semi-permeable membrane is 1/10,000 of a micron and will effectively reduce total dissolved solids, sodium, and a wide range of contaminants such as arsenic, lead, percolate, chromium, copper, and radium*. Stage 4 is a high quality GAC final filter. The system is equipped with a 3 gallon storage tank and a high-flow chrome designer faucet.



PWROKC4
Ordering Code 7100107

Features

- 4-Stage-Includes sediment, carbon block, RO Membrane and final filter cartridges
- High producing RO Membrane up to 60 gallons per day
- Hinge bracket and pivot head for ease of accessibility and cartridge replacement
- Cartridges disconnect and connect from the unit by simple ¼ turn
- Automatic shutoff valves in the heads eliminate the need to shut off the incoming water supply when changing out the filters
- Adapt-A-Valve™ for easy installation
- Includes elegant Watts Designer Top Mount Chrome faucet with ¾" high-flow delivery
- Double seal O-ring cartridges ensure system integrity
- System comes complete with fittings, tubing and RO storage tank required for a quick and easy standard installation

Benefits

- Space saving design, installs under sink or in limited space
- Semi-permeable membrane will reduce contaminants down to 1/10,000 of a micron*
- Provides clean, safe, great tasting water for drinking and cooking
- Independently tested and verified to reduce Sediment, Chlorine, Taste and Odors

REDUCES*

- ✓ Sediment
- ✓ Chlorine, Taste and Odors



C US

PWROKC4 is certified to NSF/ANSI/CAN 372 for lead-free compliance.

*Reduction claims not tested or certified by WQA.

Replacement Filter Packs

MODEL NO.	ORDERING CODE	FREQUENCY	DESCRIPTION
PWFPK2KC4	7100116	6 Months	Includes sediment and pre-carbon filters only
PWFPK4KC4	7100117		Includes all filters and membrane
PWMEMKC60	7100125	2 – 5 Years	60 gallon per day membrane
PWKCGAC13	7100462	Annual	GAC final filter

NOTICE Water conditions may require more frequent cartridge replacement

For additional information, access online literature [ES-WQ-PWROKC4](#).

- System for Reduction of PFOA/PFOS, Lead, Cyst, CTO
- Systems for Sediment Reduction
- Systems for Iron, Manganese & Hydrogen Sulfide Reduction
- Systems for Acid Neutralizing
- Systems for Scale Reduction
- Dual Media System - Series PWDML
- Cabinet Water Softener - Series PWSCAB
- Water Softener - Series PWSRL
- Twin Alternating Water Softener - Series PWSRLTA



BB-S101



PWFLAIO



PWSRL



PWSCAB



PWSRLTA



OFRES-K

How does a Water Softener work?

The resin inside the mineral tank is specially designed to remove dissolved hardness particles of calcium and magnesium, by a simple ion exchange process. The resin beads inside the softener tank have a different or opposite electrical charge than the dissolved particles, or ions, of the incoming water. Because of this electrical charge difference, the dissolved particles suspended in your water will cling to the resin beads on contact, thereby ridding the water of these particles, causing the water exiting the unit to be "soft." The resin has a limit to how much of these hardness particles it can hold, which is why there are many different sizes of softeners and also why regeneration or brining is required.

Whole House Water Quality Problems

- ✓ **PFOA/PFOS**
- ✓ **Scale Control**
- ✓ **Hardness**
- ✓ **Chlorine, Bad Taste & Odors**
- ✓ **Iron**
- ✓ **Manganese**
- ✓ **Hydrogen Sulfide**
- ✓ **Acidic Water**
- ✓ **Sediment**
- ✓ **Turbidity**

The continuous water cycle

Nature intended us to have high-quality water. This is why we have the continuous water cycle, whereby water from our oceans, rivers, lakes and streams fall to the ground as rain or snow and becomes filtered as it seeps through the earth's surface. As the water works its way through the ground it picks up minerals by dissolving limestone, causing water hardness. Water may also come into contact with Iron, Manganese, Arsenic, and other contaminants, which cause additional water treatment problems.

The chart below lists typical whole house water quality problems and indicates which equipment effectively corrects any problems you may have in your home.

WATER QUALITY PROBLEMS	SYMPTOMS	RECOMMENDED EQUIPMENT	SERIES NAME
PFOA/PFOS	PFOA and PFOS, the two most common PFAS, are toxic chemicals that simply don't break down. Common in non-stick cookware and food packaging, these "forever toxins" accumulate over time and can lead to major health issues including cancer.	BB-S101	Big Bubba
Hardness	Mineral deposits on dishes and glassware; stiff, dingy laundry; high soap usage and need for fabric softeners; dry, itchy skin and scalp; unmanageable hair; extra work to remove soap curd on bathtubs and shower stalls; high energy costs due to scale build-up in pipes and on appliances.	Water Softener	Series PWSRL Series PWSRLTA Series PWSCAB Series PWDML
Chlorine, foul odors and tastes	Chlorine taste; foul odors; damage to hair; itchy skin.	Backwashing filter using activated carbon	Series PWFLGAC Series PWDML
Iron & Manganese	Unpleasant metallic tastes; rust particles; staining on plumbing fixtures; red water; odors.	Iron filter	Series PWFLAIO
Turbidity	Cloudy water; sediment, sand, silt and rust particles.	Media filter	Series PWFLMZ
Acidic water (low pH)	Green stains on bathroom sinks and other porcelain surfaces; blue green water. (Acidic water may cause corrosion of pipes and plumbing fixtures.)	Acid neutralizer using Calcite	Series PWFLCAL
All of the above	All of the above	Reverse Osmosis System	Series PWRX40
Scale	Internal scale formation on plumbing surfaces, appliances and plumbing fixtures	OneFlow®	Series OFTWH Series OneFlow+ Series OFRES-K

Series BB-S101

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

Connection Size: 1"

Flow Rates: Up to 4 gpm

The Watts® Big Bubba® Model BB-S101 is a smart and connected, complete whole home system solution that helps consumers who want to reduce lead, and Per- and polyfluoroalkyl substances, also known as PFOA/PFOS, cysts, and chlorine, taste and odor, from the water entering their home. This system boasts high flow rates and capacities all while being simple to operate and maintain.

This smart and connected whole home solution monitors its own service schedule as well as water usage. The user is automatically notified by email or text when replacement of the filter cartridge is necessary.

Features

- Automatically notifies user via email or text alerts when filter cartridge replacement is necessary
- Displays percent filter cartridge life remaining, consumed, and volume remaining
- Certified to NSF/ANSI 42 and 53 for the reduction of dissolved and particulate Lead, 99.1% of PFOA/PFOS, 99.95% of Cysts and 97.9% of Chlorine, Taste and Odors
- Certified to NSF/ANI/CAN 372 for lead-free compliance and CSA B483.1
- High capacity carbon block filter cartridge with 0.5 micron nominal particle size reduction and 84,480 gallon rated filter cartridge life span
- Single filter cartridge to replace for speed and ease of service
- Double O-ring style filter cartridge seal prevents unfiltered water bypass
- Filter cartridge only needs a quarter turn to lock into position
- Rated for whole home Point of Entry applications
- System includes the robust Watts Big Bubba filter housing made of glass reinforced polypropylene for trusted and dependable performance
- Union style plumbing connections with 1" NPT ports for fast installation and removal of plumbing
- Dual outlets to accommodate a multitude of plumbing configurations
- Includes floor anchoring hardware and inlet water pressure gauge



BB-S101 is certified by IAPMO R&T to NSF/ANSI 42 and 53, for the reduction of claims verified and substantiated by test data as specified on the performance data sheet. The system is also certified to CSA B483.1, and NSF/ANSI/CAN 372 for lead-free compliance.

BB-C100 and BB-M101 are certified to NSF/ANSI 42, 53, CSA B483.1 and to NSF/ANSI/CAN 372 when used in the BB-S101.



BB-S101



BB-M101

REDUCES

- ✓ PFOA/PFOS
- ✓ Lead
- ✓ Cysts

- ✓ Chlorine, Taste and Odors
- ✓ Chloramine*

*Chloramine reduction claim not tested or certified by IAPMO.

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

For additional information, access online literature [ES-WQ-BB-S101](#).

Big Bubba Housing & Cartridges

With optional activated carbon cartridge to reduce Chlorine, bad tastes, foul odors & sediment.*

Rugged Construction

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

Low Cost

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

Applications

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

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

Proprietary Cartridges

The replacement cartridge for the Watts Big Bubba Housing is totally proprietary, so you may enjoy the replacement cartridge business over the life of the equipment

Conserves Water!

Watts filters with our proprietary pleated activated carbon cartridge conserves water because backwashing is not required, making them 100% efficient.

Easy Change Out!

Simply remove the swing bolts and lid, then rotate the cartridge 1/4 turn and lift it up.

MODEL NO.	ORDERING CODE	DESCRIPTION
PWWJCHSG	7100301	Big Bubba Housing

*Cartridge reduction claims not tested or certified by NSF.



PWWJCHSG is certified to NSF/ANSI/CAN 61 for material safety requirements only.



Parallel installation

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



Series installation

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

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

Big Bubba Housing & Cartridges

Big Bubba® Cartridge Housing

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

NOTE: For no gauge port, use part number BBH-150-NP.

Low Pressure Drop

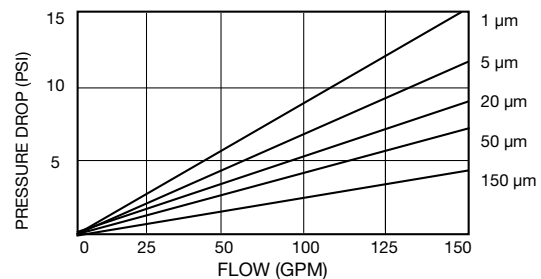
Big Bubba® Cartridge Filters housings are designed to minimize pressure drop, by using 2" pipe fittings and large diameter center tubes. (See chart at right for pressure drop data using pleated cartridges.)

Big Bubba® Cartridges

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

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

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



Big Bubba® Cartridge Filter Specification

	PLEATED	DEPTH	ACTIVATED CARBON
Media	PP	PP	Activated carbon
End caps	PP + FG	PP + FG	PP
Center tubes	PP	PP	PP
Maximum flow rate (GPM)	150	100	15
Maximum temperature	125°F (52°C)	125°F (52°C)	125°F (52°C)
Maximum ΔP (psi)	30	40	30
Chemical resistance	Excellent	Excellent	Not a factor (for water)
Length (media)	26¼"	26¼"	26¼"
O-rings (dual)	EPDM	EPDM	EPDM
Shipping weight (lb)	5	5	7
Carton dimensions	7" x 7" x 31"	7" x 7" x 31"	7" x 7" x 31"
Micron ratings	1, 5, 20, 50, 150	1, 5, 20, 50	5

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

Pleated Cartridges

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

MODEL NO.	ORDERING CODE	MEDIA TYPE	MICRON RATING	PER CASE
PWWJCP1	7100303	PP	1	1
PWWJCP5	7100304	PP	5	1
PWWJCP20	7100305	PP	20	1
PWWJCP50	7100306	PP	50	1
PWWJCP150	7100307	MESH	150	1

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

Depth Cartridges

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

MODEL NO.	ORDERING CODE	MEDIA TYPE	MICRON RATING	PER CASE
PWWJCB1	7100308	PP	1	1
PWWJCB5	7100309	PP	5	1
PWWJCB20	7100310	PP	20	1
PWWJCB50	7100311	PP	50	1

Activated Carbon

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

MODEL NO.	ORDERING CODE	MAX. FLOW	CHLORINE REDUCTION
PWWJCAC5	7100312	15 gpm	1

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

Watts SmartStream® UV Systems

SmartStream® Disinfection Systems by Watts

Flow Rates: From 2 gpm to 12 gpm

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

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

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

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



Specification

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

Water Quality Guideline

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



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



Watts SmartStream Series UV Systems

ORDERING CODE	MODEL NO.	FLOW RATE (GPM)	SIZE (IN.)	VOLTAGE/PLUG	REPLACEMENT LAMP	REPLACEMENT SLEEVE	REPLACEMENT BALLAST
T7400000	WA002ABAX	2	3/8 MNPT	120V/US	68109050	68109055	68109041
T7400016	WA008ADAX	8	3/4 MNPT	120V/US	68109052	68109057	68109043
T7400024	WA012AEAX	12	1 MNPT	120V/US	68109049	68109054	68109043

Series OFRES-K

Smart Whole Home OneFlow® Residential Anti-Scale Systems

Connection Size: 1"

Flow Rate: Up to 16 gpm

Series OFRES-K Smart Whole Home OneFlow® Residential Anti-Scale System provides protection from scale formation on internal plumbing surfaces. Water-using appliances and plumbing fixtures also enjoy a longer lifespan because hardness scale build up on internal parts is reduced. This system is specifically designed for residential applications and includes a WiFi enabled monitor to send email and/or SMS alerts when media replacement is due. OneFlow Residential systems should be installed at the point-of-entry to a home to treat your incoming water. Connection Size: 1 in. MNPT. Flow rates range from 8 gpm (30 lpm) up to 16 gpm (60 lpm).

FEATURES

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

REDUCES

- ✓ Scale*

*Reduction claims not tested or certified by WQA.



OFRES-K

NOTICE

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



OneFlow media (A8210) is certified by WQA to NSF/ANSI/CAN 61 and NSF/ANSI/CAN 372 for lead-free compliance..



U-M311 is tested and certified by WQA to NSF/ANSI/CAN 61 for material safety and to NSF/ANSI/CAN 372 for lead-free Compliance.



#Z64-CC3100MODR1

U-M311 Meets Class. B: ICES & FCC Part 15

Replacement Media

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

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

Smart Elapsed Time Monitor

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



For additional information, access online literature ES-OFRES.

Model OFPSYS

OneFlow®+ Salt-Free Scale Prevention PLUS Water Filtration

Connection Size: 1"

Flow Rates: From 0.5 gpm to 10 gpm

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

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

Features

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



OFPSYS

REDUCES*

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

*Reduction claims independently tested and verified; not tested or certified by WQA.

MODEL NO.	ORDERING CODE	DESCRIPTION
OFPSYS	7100638	OneFlow+ Whole House System

Replacement Cartridges

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



OFPSYS, OFPRFC, OFPSF, and OFPCOM are certified to NSF/ANSI/CAN 372 for lead-free compliance.

For additional information, access online literature ES-OFPSYS.

Models OFTHW-C, OFTWH-R & OFTWH

OneFlow® Anti-Scale Systems for Residential Tankless Water Heaters

Connection Size: ¾"

Flow Rates: From 0.5 gpm to 10 gpm

The OneFlow® Anti-Scale System provides protection from scale formation on internal 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® reduces 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 reduced.

OneFlow® is not a water softener. It does not add chemicals. It is a scale reduction 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 salt-free alternative to water softening (ion exchange) or scale sequestering devices.

Features

- Chemical-free scale reduction and protection - converts hardness minerals to harmless, inactive microscopic crystals making OneFlow® an effective salt-free alternative technology to a water softener for the reduction 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
- Environmentally-friendly technology
- Improves efficiency of all water heating devices and downstream plumbing components.
- Simple sizing and installation – standard ¾" connections
- Inlet ball valve for easy isolation shutoff and filter changes
- OneFlow® cartridge-based systems are easily maintained; change the cartridge once every two years
- Easily installed mounting bracket included w/filter wrench to allow cartridge change-outs when necessary

REDUCES

- ✓ Scale



For additional information, access online literature
[ES-OFTWH-RES](#) and [ES-OFTWH](#).

MODEL NO.	ORDERING CODE	PEAK FLOW RATE	CONNECTION SIZE
OFTWH-C	0002191	5 gpm (18.93 lpm)	¾" (20mm) FNPT
OFTWH-R	0002188	6 gpm (22.71 lpm)	¾" (20mm) FNPT
OFTWH	0002182	10 gpm (38 lpm)	¾" (20mm) FNPT

Replacement Cartridge

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

Watts® Water Softeners

“Hard” water is not considered unhealthy; however, hard-water problems end up costing you money through increased soap usage, reliance on water softening products and a shorter life for appliances due to scale build-up in pipes and other factors.

To correct water hardness, Watts offers a wide range of water conditioning systems, designed to improve water quality throughout your entire household.

Enjoy these many benefits Watts® water softeners provide

- 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 appliances and reduced energy costs because scale is virtually eliminated
- Spot-free car wash (if softened water is used)

Metered valve for greater efficiency

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

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

See page 20 for Water Softener Sizing Information.

Calculate your hardness

Either in PPM (Parts Per Million) or in GPG (Grains Per Gallon)

- If you have PPM convert by dividing by 17.1
- If you have GPG convert by multiplying by 17.1

Until you have reached your grain hardness

Compensated hardness

When sizing water conditioning equipment, the hardness should be based on compensated hardness. Compensated hardness takes into consideration minerals and other factors that will reduce the softening capacity of a softener. These items cannot be picked up in a standard hardness test. To arrive at compensated hardness, multiply the figure on the right by the hardness in grains per gallon.

Your Test Hardness	Multiply By	Compensated Hardness
1 – 20	1.1	= _____
21 – 40	1.2	= _____
41 – 70	1.3	= _____
71 – 100	1.4	= _____
101+	1.5	= _____

Determine if a softener is needed, see defined chart below: Terms Defined

TERM	GPG*	PPM**
Soft	1.0 or less	17.0 or less
Slightly Hard	1.0 to 3.5	17.1 to 60
Moderately Hard	3.5 to 7.0	60 to 120
Hard	7.0 to 10.5	120 to 180
Very Hard	10.5 or over	180 or over

* GPG - Grains Per Gallon

**PPM- Parts Per Million

FLOW RATES IN PIPES NORMAL TO PEAK

¾"	=	10–15 GPM
1"	=	16–30 GPM
1¼"	=	30–35 GPM
1½"	=	40–70 GPM
2"	=	65–120 GPM
2½"	=	80–170 GPM
3"	=	120–270 GPM
4"	=	250–500 GPM
6"	=	500–1100 GPM
8"	=	1000–2000 GPM
10"	=	1500–3000 GPM

Always determine both
(1) Flow Rate and
(2) Capacity Total in Grains

Softener Sizing Selection Chart

		NUMBER OF PEOPLE USING SOFTENED WATER IN HOUSEHOLD							
		1 75 gal	2 150 gal	3 225 gal	4 300 gal	5 375 gal	6 450 gal	7 525 gal	8 600 gal
1–5	15k	15k	15k	15k	15k	15k	30k	30k	30k
	12	12	6	6	4	6	4	4	3
	1700	1600	1500	1500	1400	3500	3400	3300	
6–10	15k	15k	15k	30k	30k	30k	30k	30k	45k
	12	4	3	4	4	3	3	3	4
	800	750	650	1500	1400	1300	1200	2100	
11–15	15k	15k	30k	30k	30k	45k	45k	45k	
	6	3	4	3	3	3	3	2	
	500	400	950	900	800	1300	1200	1100	
16–20	15k	15k	30k	45k	45k	45k	60k	60k	
	4	3	3	4	3	3	3	2	
	375	300	675	1100	1000	900	1200	1100	
21–25	15k	30k	30k	45k	45k	60k	60k	90k	
	4	4	3	3	2	3	2	3	
	250	600	500	800	700	1000	900	1600	
25–30	30k	30k	45k	45k	60k	90k	120k	120k	
	6	3	3	2	2	3	3	3	
	450	400	550	500	700	1000	1500	1400	
31–35	30k	30k	45k	60k	90k	90k	120k	120k	
	6	3	3	3	4	3	3	3	
	400	350	550	700	1200	1100	1500	1400	
36–40	30k	45k	45k	60k	90k	120k	120k	-	
	4	4	2	2	3	3	3	-	
	400	525	450	600	975	1350	1200	-	
41–45	45k	45k	60k	90k	90k	120k	-	-	
	6	3	3	3	3	3	-	-	
	500	400	500	900	800	1000	-	-	
45–50	45k	60k	90k	90k	120k	-	-	-	
	6	4	4	3	3	-	-	-	
	500	600	950	850	1100	-	-	-	

KEY TO EACH HORIZONTAL SEGMENT IN CHART

Softener Size (thousands of grains) model
Number of days between regeneration cycle
Meter setting (gallons used between regeneration cycle)

Meter settings based on softener capacities at minimum brining (6 lb/cu ft).

For large applications, call your Watts representative.

Series PWSRL & PWSRL125

LOCKSMITH® Residential Water Softeners

Connection Size: 1" & 1¼"

Flow Rate: Up to 25 gpm

The new Watts LOCKSMITH Series water softener systems are high-efficiency cation exchange softeners designed for residential point-of-entry applications. Featuring the Watts LOCKSMITH control valve with advanced electronic programming, these pre-engineered systems provide hardness reduction capacities ranging from 30,000 to 120,000 grains and flow rates up to 25 gpm. Metered operation initiates regeneration only when needed, reducing salt consumption while delivering reliable, consistent water softening performance.

Features

- LOCKSMITH Controller offering improved functionality over a basic softener using advanced computer programming to increase efficiency, save salt and water
- Fully adjustable regeneration cycles tailored to your specific application
- Optional Programmable Relays for external equipment for highly configurable systems
- Scheduled Service Alarm
- Programmable Low Salt Level Alarm Warning
- Programmable Service Company Contact Name & Phone Number Screen
- Sophisticated advanced digital electronic controller that stores accessible operating history
- Full Flow Bypass Valve included



PWSRL & PWSRL125

REDUCES

- ✓ Scale

Specification

MODEL NO.	ORDERING CODE	CAPACITY (MAX.)	PIPE SIZE (IN.)	MINERAL TANK		BRINE TANK		FLOW RATE & PRESSURE			SHIP WT. (LB)
				TANK SIZE	RESIN FT3	TANK SIZE	SALT FILL (LB)	SERVICE (GPM)	DROP (PSI)	BKW (GPM)	
PWSRL Systems											
PWSRL130	7101314	30,000	1	9x48	1	18x36	350	9 – 12	15 – 25	2.2	110
PWSRL145	7101315	45,000	1	10x54	1.5	18x36	350	12 – 16	15 – 25	2.7	130
PWSRL160	7101316	60,000	1	12x52	2	18x36	350	15 – 20	15 – 25	4.2	190
PWSRL190	7101317	90,000	1	14x65	3	18x40	350	18 – 23	15 – 25	5.3	270
PWSRL125 Systems											
PWSRL12530	7101333	30,000	1.25 / 1.5	9x48	1	18x40	400	9 – 12	15 – 25	2.2	110
PWSRL12545	7101334	45,000	1.25 / 1.5	10x54	1.5	18x40	400	12 – 16	15 – 25	2.7	130
PWSRL12560	7101335	60,000	1.25 / 1.5	12x52	2	18x40	400	15 – 20	15 – 25	4.2	190
PWSRL12590	7101336	90,000	1.25 / 1.5	14x65	3	18x40	400	18 – 23	15 – 25	5.3	270
PWSRL125120	7101337	120,000	1.25 / 1.5	16x65	4	18x40	400	19 – 25	15 – 25	7.5	350

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 volume, capacity required, feed water analysis, and application requirements.

NOTICE

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

For additional information, access online literature [ES-WQ-PWSRL-PWSRL125-PWSRLTA](#).

Series PWSCAB

Residential Cabinet Water Softener

Connection Size: 1"

Flow Rate: Up to 16 gpm

The Series PWSCAB cabinet water softener is designed for residential applications ranging from 30,000 to 45,000 grains of hardness reduction capacity at flow rates up to 16 gallons per minute.

Features

- Compact cabinet style design
- Salt loading port with sliding cover for convenient filling
- Unique flip-up access window to program the valve without removing the cover
- Complete whole house water treatment system
- State-of-the-art computer programming to increase efficiency, save salt and water
- Uses downflow regeneration
- Demand regeneration for highest efficiency
- Engineered and tested to perform, one of the most reliable valve platforms in the industry
- Full flow bypass valve included

PWSCAB Series Control Valve

Manufactured from high-tech materials, the PWSCAB Series valve has been engineered and tested to perform in the most demanding environments. It has built a reputation for being one of the most reliable valve platforms in the industry. All surfaces contacted by water are made from 100% polymer components so that corrosion from acidic water and brine is no longer a concern.

Electronic Control

The PWSCAB Series valve features an advanced electronic control for easy programming. Adjustable brining, adjustable reserve, high-efficiency regeneration and simplified programming are now standard.

Softening Media

The exchange media is a high-capacity cation polystyrene resin that combines high operating capacity with excellent chemical and physical stability for a long, dependable life.

Resin Tank

Features a non-corrosive fiberglass tank with a thermoplastic inner liner. Unique space-saving resin tank in cabinet design.

Brine Tank / Cabinet

The brine tank is a combination brine maker and salt storage vessel and is made of tough, corrosion-free high-density polyethylene (HDPE). Brine refill is controlled by the advanced electronic controller to provide the correct amount of brine for each regeneration.



PWSCAB Series Softener
Ordering Code 7101109

REDUCES

- ✓ Scale

SPECIFICATION	PWSCAB45K
Maximum/Minimum Ion Exchange Capacity	45,000/30,000
Pounds of salt required for Max/Min capacity	22.5-9
Salt Storage Capacity	208 lb
Flow Rate in GPM @ 15 PSI Drop	12 – 16
Backwash Flow Rate GPM	2.7
Drain Line Connection Size	¾" NPT
Inlet/Outlet Pipe Size	1"
Electrical Requirements	120v60Hz
Mineral Tank Size D X H	12" x 35"
Cabinet Size D X W X H	24.6" x 13.8" x 44.6"
Floor space required in inches W x D	27" x 37"
Approximate Shipping Weight (lb)	130

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

Series PWDML

LOCKSMITH® Residential Dual Media Softener & Filtration System

Connection Size: 1"

Flow Rate: Up to 20 gpm

Watts Pure Water LOCKSMITH PWDML Series Dual Media system is designed for residential applications where the benefits of softened and treated water are required. The Watts LOCKSMITH control valve offers advanced electronic programming. This system has a maximum 45,000 grains of hardness reduction capacity and a peak flow rate up to 20 gpm, that delivers efficient and reliable hardness reduction for residential applications. The PWDML system also contains Granular Activated Carbon (GAC), which reduces chlorine taste, odors in addition to preserving the life of the water softening resin. Metered operation ensures regeneration occurs only when needed, helping reduce salt usage while maintaining consistent performance.

LOCKSMITH Controller offering improved functionality over a basic softener using advanced computer programming to increase efficiency, save salt and water.

Features

- Fully adjustable regeneration cycles tailored to your specific application
- Optional Programmable Relays for external equipment for highly configurable systems
- Scheduled Service Alarm
- Programmable Low Salt Level Alarm Warning
- Programmable Service Company Contact Name & Phone Number Screen
- Sophisticated advanced digital electronic controller that stores accessible operating history
- • Space-saving design
- GAC Media corrects wide range of water quality issues by reducing chlorine taste odors
- GAC and Resin are in separate chambers, reducing media replacement costs
- Mineral Tank Dome Hole for easy access to replace GAC Media
- Full Flow Bypass Valve included



PWDML

REDUCES

- ✓ Scale
- ✓ Chlorine

SPECIFICATION	PWDML545
Max/Min Ion Exchange Capacity	45,000/30,000
Pounds of salt required for Max/Min capacity	22.5/9
Drain Line Connection Size	3/4" NPT
Inlet/Outlet Pipe Size	1"
Electrical Requirements	120v60Hz
Floor space required in inches D X W X H	19" x 32" x 61"
Approximate Shipping Weight (lb)	190

MODEL NO.	ORDERING CODE	CAPACITY (MAX.)	PIPE SIZE (IN.)	MINERAL TANK			BRINE TANK		FLOW RATE & PRESSURE		
				TANK SIZE	RESIN FT3	GAC FT3	TANK SIZE	SALT FILL (LB)	SERVICE (GPM)	DROP (PSI)	BKW (GPM)
PWDML545	7101313	45,000	1	12x52	1.5	0.5	18x36	350	15-20	15-25	2.7

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

Series PWSRLTA

LOCKSMITH® Residential

Twin Alternating Water Softeners

Connection Size: 1"

Flow Rates: Up to 20

The new Watts LOCKSMITH PWSRLTA Series Twin Alternating Water Softener Systems are for applications requiring continuous softened water, the PWSRLTA twin alternating configuration delivers uninterrupted service. These systems are high-efficiency cation exchange water softeners designed for residential point-of-entry applications. Featuring the Watts LOCKSMITH control valve with advanced electronic programming, these pre-engineered systems provide hardness reduction capacities ranging from 30,000 to 60,000 grains and flow rates up to 20 gpm. Metered operation initiates regeneration only when needed, reducing salt consumption while delivering reliable, consistent water softening performance.

Features

- LOCKSMITH Controller offering improved functionality over a basic softener using advanced computer programming to increase efficiency, save salt and water
- Fully adjustable regeneration cycles tailored to your specific application
- Optional Programmable Relays for external equipment for highly configurable systems
- Scheduled Service Alarm
- Programmable Low Salt Level Alarm Warning
- Programmable Service Company Contact Name & Phone Number Screen
- Sophisticated advanced digital electronic controller that stores accessible operating history
- Full Flow Bypass Valve included

REDUCES

- ✓ Scale



PWSRLTA

Specification

MODEL NO.	ORDERING CODE	CAPACITY (MAX.)	PIPE SIZE (IN.)	MINERAL TANK		BRINE TANK		FLOW RATE & PRESSURE			SHIP WT. (LB)
				TANK SIZE	RESIN FT3	TANK SIZE	SALT FILL (LB)	SERVICE (GPM)	DROP (PSI)	BKW (GPM)	
PWSRLTA130	7101330	30,000	1	9x48	1	18x40	400	9 – 12	15 – 25	2.2	230
PWSRLTA145	7101331	45,000	1	10x54	1.5	18x40	400	12 – 16	15 – 25	2.7	290
PWSRLTA160	7101332	60,000	1	12x52	2	18x40	400	15 – 20	15 – 25	2.7	420

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 volume, capacity required, feed water analysis, and application requirements.

NOTICE

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

For additional information, access online literature [ES-WQ-PWSRL-PWSRL125-PWSRLTA](#).

Series PWFLGAC & PWCL

Watts LOCKSMITH® Whole House Carbon Filter Systems

Connection Size: 1" & 1¼"

Flow Rate: Up to 14 gpm

The Watts Pure Water LOCKSMITH Series PWFLGAC and PWCL activated carbon filtration systems are proven backwashing filters designed to reduce chlorine, along with taste, odor, and color caused by organic compounds.

Each system features the Watts-exclusive LOCKSMITH Controller, a fully integrated platform that operates 1" and 1.25" single, Twin Alternating, and multi-tank progressive flow filtration and softening systems without requiring an additional controller. The platform also supports external device integration, providing flexibility for a wide range of system configurations and application requirements.

Designed for residential point-of-entry applications, PWFLGAC and PWCL systems support dechlorination flow rates up to 14 gpm (53 lpm) and are available with media bed sizes ranging from 1 to 4 cubic feet. Higher flow rates can be achieved by installing multiple units in parallel. An automatic, programmable backwash and flush cycle removes accumulated sediment and can be initiated by time or demand, eliminating the need for manual operation.

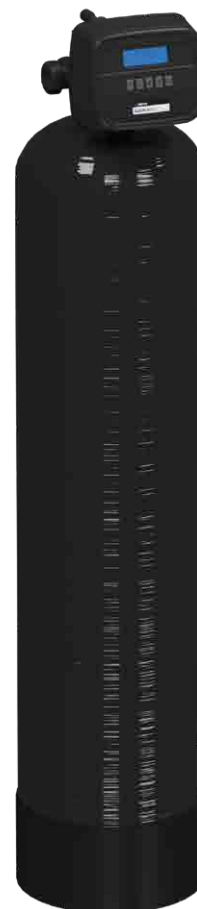
These systems provide reliable dechlorinated water for residential use. Chlorine, commonly used in municipal water treatment, can damage reverse osmosis membranes and ion exchange resins while contributing to undesirable taste and odor. Activated carbon effectively reduces chlorine, organic-related taste, color, and odor, as well as trace hydrocarbons. For applications requiring enhanced organic or hydrocarbon reduction, consult a Watts Pure Water representative to confirm proper system sizing and carbon media selection.

Features

- LOCKSMITH Controller offering improved functionality using advanced computer programming to increase efficiency, save water
- Fully adjustable backwash and flush cycles
- Dry contact lock out switch for remove interface is standard
- Scheduled Service Alarm
- Programmable Service Company Contact Name & Phone Number Screen
- Sophisticated advanced digital electronic controller that stores accessible operating history
- Full Flow Bypass Valve included

REDUCES

- ✓ Chlorine
- ✓ Sediment
- ✓ Chemicals



PWFLGAC & PWCL

MODEL NO.	ORDERING CODE	TANK SIZE	PIPE SIZE	MEDIA (CU FT)	PEAK SERVICE FLOW (GPM)	BACKWASH (GPM)	FLOOR SPACE (DXWXH)	SHIP WT. (LB)
PWFLGAC1	7101318	9x48	1	1	4	4.2	12" x 10" x 56"	80
PWFLGAC15	7101319	10x54	1	1.5	6	5.3	12" x 11" x 62"	105
PWFLGAC2	7101320	12x52	1	2	8	7.5	13" x 13" x 60"	145
PWFLGAC3	7101321	14x65	1	3	11	10	15" x 15" x 71"	200
PWFLGAC4	7101322	16x65	1	4	14	11	15" x 17" x 74"	265
PWCL125GAC1	7101338	9x48	1 1/4	1	4	4.2	12" x 10" x 56"	80
PWCL125GAC15	7101339	10x54	1 1/4	1.5	6	5.3	12" x 11" x 62"	105
PWCL125GAC2	7101340	12x52	1 1/4	2	8	7.5	13" x 13" x 60"	145
PWCL125GAC3	7101341	14x65	1 1/4	3	11	10	15" x 15" x 71"	200

NOTE: Peak service flow rates are intended for intermittent use, should not be considered continuous operating capacities and are based on 15 psi pressure drop. These systems are designed to treat domestic water in single-family residential applications. The service flow rates listed for carbon filtration systems are based on chlorine reduction performance. Slower flow rates may be required depending on specific contaminants.

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

Series PWFLAIO-IRON

Watts LOCKSMITH® Whole House Iron, Hydrogen Sulfide & Manganese Filter Systems

Connection Size: 1¼"

Flow Rate: Up to 12 gpm

The Watts Pure Water LOCKSMITH Series PWFLAIO-IRON Filox® AIO residential filtration system is a proven backwashing media solution for reducing iron, hydrogen sulfide and manganese in your water. Designed for reliability and performance, it combines air injection oxidation (AIO) with advanced media filtration to deliver consistent water quality improvement.

Each system features the Watts-exclusive LOCKSMITH Controller, a fully integrated platform that operates 1" and 1.25" single, Twin Alternating, and multi-tank progressive flow filtration and softening systems without requiring an additional controller. The platform also supports external device integration, providing flexibility for a wide range of system configurations and application requirements.

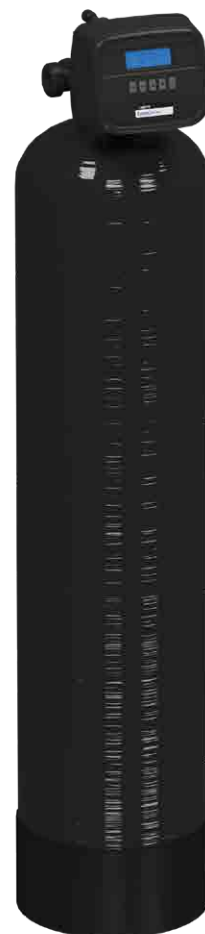
Engineered for residential use, these systems support flow rates up to 12 gpm with media bed sizes ranging from 1 to 2 cubic feet. Higher flow demands can be met by installing multiple units in parallel. Captured contaminants are removed through automatic, programmable backwashing cycles that clean the media and return the system to service without manual intervention.

Filox media provides a chemical-free method for treating red staining iron, hydrogen sulfide odors (rotten egg smell), and black staining manganese. Using AIO technology, oxygen is introduced into the water to oxidize contaminants, which are then captured by the catalytic Filox media. With an 80% or greater manganese dioxide content, Filox delivers industry-leading oxidation efficiency and high flow capacity per cubic foot compared to other iron reduction medias.

Features

- No oxidizing chemicals needed for regeneration
- Media performance and efficiency improved through AIO process
- Higher Flow rates with smaller system space requirement than competing models
- LOCKSMITH Controller offering improved functionality using advanced computer programming to increase efficiency, save water
- Fully adjustable backwash and flush cycles
- Scheduled Service Alarm
- Programmable Service Company Contact Name & Phone Number Screen
- Sophisticated advanced digital electronic controller that stores accessible operating history
- Full Flow Bypass Valve included

For larger residential iron, manganese, and hydrogen sulfide systems, contact Pure Water Technical Support for quote.



PWFLAIO-IRON

REDUCES

- ✓ Iron
- ✓ Hydrogen Sulfide
- ✓ Manganese
- ✓ Sediment

MODEL NO.	ORDERING CODE	TANK SIZE	PIPE SIZE	MEDIA (CU FT)	PEAK SERVICE FLOW (GPM)	BACKWASH (GPM)	FLOOR SPACE (DXWXH)	SHIP WT. (LB)
PWFLAIO125IRON1	7101345	9x48	1 1/4	1	6	7.5	12" x 10" x 56"	167
PWFLAIO125IRON15	7101346	10x54	1 1/4	1.5	9	10	12" x 11" x 62"	235
PWFLAIO125IRON2	7101347	12x52	1 1/4	2	12	15	13" x 13" x 60"	318

NOTICE

Flow rates, dimensions, and capacities are per tank. Pipe size, tank size, and space requirements are in inches. Backwash flow rate may vary depending on temperature changes or specific bed expansion requirements.

NOTICE

Peak service flow rate is for intermittent use only and not be interpreted as continuous flow rate capacity. These systems are designed to treat the domestic water used in a single family dwelling. For irrigation water treatment or higher volume applications, contact your Watts representative.

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

Series PWFLCAL

Watts LOCKSMITH® Whole House Acidic Water Neutralizing Systems

Connection Size: 1"

Flow Rate: Up to 8.5 gpm

Watts LOCKSMITH Series PWFLCAL Acid Neutralizing systems are designed for residential applications to stop the corrosion of metal components and fixtures within a plumbing system by neutralizing the acidic nature of the supply water.

Each system features the Watts-exclusive LOCKSMITH Controller, a fully integrated platform that operates 1" and 1.25" single, Twin Alternating, and multi-tank progressive flow filtration and softening systems without requiring an additional controller. The platform also supports external device integration, providing flexibility for a wide range of system configurations and application requirements.

Series PWFLCAL acid neutralizing systems are designed for point of entry applications where water has a pH of less than 7. These systems use a high quality granular calcite (calcium carbonate) media to accomplish the neutralization process. As low pH water flows down through the media bed it reacts with the calcite media and dissolves it. This causes the pH of the water to move from an acidic state to a neutral state. This dissolving of the calcite media will require calcite to be added to the bed over time.

Features

- Increase the pH of acidic water to a neutral level
- Reduces the corrosion of plumbing and fixtures caused by low pH water
- 1.5 and 2.0 cu ft systems mineral tank have dome hole for easy access to check and add media
- LOCKSMITH Controller offering improved functionality using advanced computer programming to increase efficiency, save water
- Fully adjustable backwash and flush cycles
- Scheduled Service Alarm
- Programmable Service Company Contact Name & Phone Number Screen
- Sophisticated advanced digital electronic controller that stores accessible operating history
- Full Flow Bypass Valve included



PWFLCAL

ADDRESSES

- ✓ Low pH

MODEL NO.	ORDERING CODE	TANK SIZE	CALCITE MEDIA (CU FT)	GRAVEL (LB)	SERVICE FLOW (GPM)*W	BACKWASH (GPM)	FLOOR SPACE (DXWXH)	SHIP WT. (LB)
PWFLCAL15	7101327	10 x 54	1.5	20	3.5	5.3	17.50" x 12" x 62"	183
PWFLCAL2	7101328	12 x 52	2	30	5	9	17.50" x 14" x 60"	256
PWFLCAL3	7101329	14 x 65	3	60	6.5	10	17.50" x 16" x 74"	387
PWFLCAL4	7101391	16 x 65	4	80	8.5	15	17.50" x 18" x 74"	516

NOTE: Peak service flow rate is for intermittent use only and is not to be interpreted as continuous service flow rate capability. These systems are designed to treat the domestic water used in a single family dwelling. For irrigation water treatment or higher volume applications, contact your Watts representative. Peak service flow rates are based on a 15 psi drop. Optimum service flow rate is specific to water chemistry and will vary.

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

Series PWFLMZ & PWML

Watts LOCKSMITH® Whole House Sediment Filter System

Connection Size: 1" & 1¼"

Flow Rates: Up to 13 gpm

The Watts Pure Water LOCKSMITH Series PWFLMZ and PWML Micro Z residential filtration systems are backwashing media filters designed to reduce sediment and suspended solids from water.

Each system features the Watts-exclusive LOCKSMITH Controller, a fully integrated platform that operates 1" and 1.25" single, Twin Alternating, and multi-tank progressive flow filtration and softening systems without requiring an additional controller. The platform also supports external device integration, providing flexibility for a wide range of system configurations and application requirements.

Designed for residential applications, the PWFLMZ and PWML systems support peak flow rates up to 21 gpm with media bed sizes ranging from 1 to 3 cubic feet. Higher flow demands can be accommodated by installing multiple units in parallel. Captured sediment is removed through an automatic, programmable backwash and flush cycle that is time- or demand-initiated and requires no manual intervention.

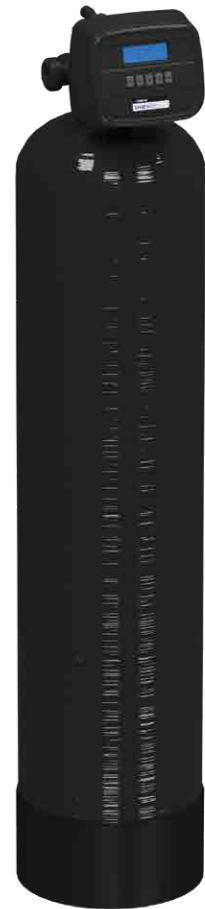
Micro Z, a naturally occurring zeolite, provides superior filtration performance compared to sand, anthracite, and garnet media. Its hydrophilic properties and irregular surface structure allow for a sediment holding capacity up to 2.5 times greater than sand, reducing backwash water consumption while enabling higher service flow rates. Micro Z offers a nominal particle reduction rating of 3–5 microns, compared to 15–30 microns for conventional backwashable media.

Features

- Superior sediment filtration performance
- Higher solids loading capability
- Unique structure allows for higher flow rates
- LOCKSMITH Controller offering improved functionality using advanced computer programming to increase efficiency, save water
- Fully adjustable backwash and flush cycles
- Dry contact lock out switch for remove interface is standard
- Scheduled Service Alarm
- Programmable Service Company Contact Name & Phone Number Screen
- Sophisticated advanced digital electronic controller that stores accessible operating history
- Full Flow Bypass Valve included

REDUCES

- ✓ Sediment



PWFLMZ & PWML

MODEL NO.	ORDERING CODE	TANK SIZE	PIPE SIZE	MEDIA (CU FT)	PEAK SERVICE FLOW (GPM)	BACKWASH (GPM)	FLOOR SPACE (DXWXH)	SHIP WT. (LB)
PWFLMZ1	7101323	9x48	1	1	5/9	5.3	12" x 10" x 56"	110
PWFLMZ15	7101324	10x54	1	1.5	7/10	7.5	12" x 11" x 62"	140
PWFLMZ2	7101325	12x52	1	2	9/15	11	13" x 13" x 60"	200
PWFLMZ3	7101326	14x65	1	3	13/21	15	15" x 15" x 71"	310
PWML125MZ1	7101342	9x48	1 1/4	1	5/9	5.3	12" x 10" x 56"	110
PWML125MZ15	7101343	10x54	1 1/4	1.5	7/10	7.5	12" x 11" x 62"	140
PWML125MZ2	7101344	12x52	1 1/4	2	9/15	11	13" x 13" x 60"	200

NOTE: Peak service flow rate is for intermittent use only and is not to be interpreted as continuous service flow rate capability. These systems are designed to treat the domestic water used in a single family dwelling. For irrigation water treatment or higher volume applications, contact your Watts representative. Peak service flow rates are based on a 15 psi drop. Optimum service flow rate is specific to water chemistry and will vary.

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

Whole House Chemical Feed Pump & Solution Tank

Chemical Feed Pumps for Chlorine and pH adjustment chemicals. Stenner® peristaltic feed pumps will not lose prime because they are self priming. Pumps may operate at pressures up to 100 psi, and may be mounted vertically or horizontally. Tube lubrication is not required.



PWCFP4510



PWCHMTNK15B

Chemical Feed Pump

MODEL NO.	ORDERING CODE	TYPE	DESCRIPTION	MODEL	GALLONS PER DAY	PSI	VOLTAGE	TUBING (SUCTION & DISCHARGE)	WEIGHT (POUNDS/KG)
PWCFP4510	7100522	Single	10 gpd Chemical Feed Pump	45	10	100	120v/60Hz	¼"	8

Chemical Solution Tank

MODEL NO.	ORDERING CODE	CAPACITY (GALLONS/LITERS)	DESCRIPTION	DIAMETER (INCHES/MM)	HEIGHT (INCHES/MM)	WEIGHT (POUNDS/KG)
PWCHMTNK15B	7100563	15/57	15 Gallon Solution Tank	14/355	24/610	7/112

Whole House Retention Tank

Retention tanks are installed to provide optimum contact time during chemical treatment such as chlorine injection. These non-corrosive retention tanks feature simple 1" NPT inlet/outlet connections at the top of the tank and a full ¾" blow down at lowest point of tank with 360° drain orientation.

MODEL NO.	ORDERING CODE	CAPACITY (GALLONS/LITERS)	DESCRIPTION	DIAMETER (INCHES/MM)	HEIGHT (INCHES/MM)	WEIGHT (POUNDS/KG)
PWTNKRET120	7300816	120/454	120 Gallon Retention Tank	24/607	78.5/1,994	80/36



PWTNKRET120

Micro Z®

Superior Filtration Media

Flow Rates: Up to 21 gpm

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

Features & Benefits

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

Physical Properties

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

Conditions of Operation

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

NOTICE

Allow bed to soak overnight before initial backwash.

Micro Z Loading Information

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

Ordering Information

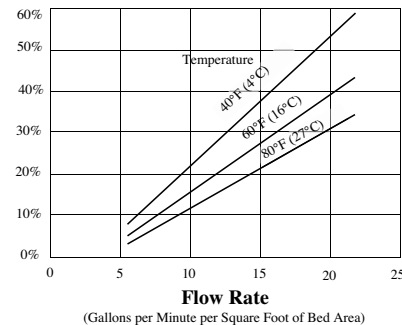
MODEL NO.	ORDERING CODE	DESCRIPTION	CUBIC FEET PER BAG	CONTAINER WT. (LB)	PACKAGE	PER PALLET
PWRMMICROZ	7300105	Micro Z	1	55	Bag	40



Micro Z vs. Conventional Filter Media

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

Micro Z
Backwash Bed Expansion



Activated Carbon

Granular Activated Carbon (GAC)

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

Benefits

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



Adsorption Influencing Factors

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

Carbon Media Types

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

Standard Operating Conditions

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

Contaminates Adsorbed

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

NOTICE

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

Ordering Information

MODEL NUMBER	ORDERING CODE	DESCRIPTION	TYPE	MESH	APPLICATION	CUBIC FEET PER BAG	CONTAINER WT. (LB)	PER PALLET
PWRMGAC	7300111	Granular Activated Carbon	Coconut Shell	12 x 40	Chlorine taste and odor reduction	1	27.5	40

▲ WARNING

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

Catalytic® Granular Activated Carbon

Hydrogen sulfide, iron & chloramines removal

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

Features & Benefits

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



Specification

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

Typical Properties

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

Applications

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

Design Considerations

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

Ordering Information

MODEL NUMBER	ORDERING CODE	DESCRIPTION	TYPE	MESH	APPLICATION	CUBIC FEET PER BAG	CONTAINER WT. (LB)	PER PALLET
PWRMCGAC	7300110	Catalytic Granular Activated Carbon	Coconut Shell	12x40	Chloramine taste and odor reduction	1	27.5	40

⚠ WARNING

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

Iron, Hydrogen Sulfide & Manganese Reduction

Filox® Media

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

Features & Benefits

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

Operating Conditions

Active Ingredient	75 – 85% Manganese Dioxide
Max Service Flow	6 gpm/cu ft
Freeboard	30 – 50% of bed depth
Backwash rate	Backwash rate 16-30 GPM/sq ft depending on application specific variables, minimum recommended bed expansion is 15%
Bed depth	20 inch Minimum
pH Range	6.5 – 9.0
Screen size	12 x 40
Bulk density	110 lb/cu ft

Removal Capacity

Iron	10 ppm
Hydrogen Sulfide	3 ppm
Manganese	5 ppm

Comparative Information

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

Ordering Information

MODEL NUMBER	ORDERING CODE	DESCRIPTION	APPLICATION	CUBIC FEET PER BAG	CONTAINER WT. (LB)	PER PALLET
PWRMFILOX	7300108	Filox Media	Iron, HS reduction & Manganese reduction	0.5	55	38

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

Testing for ORP

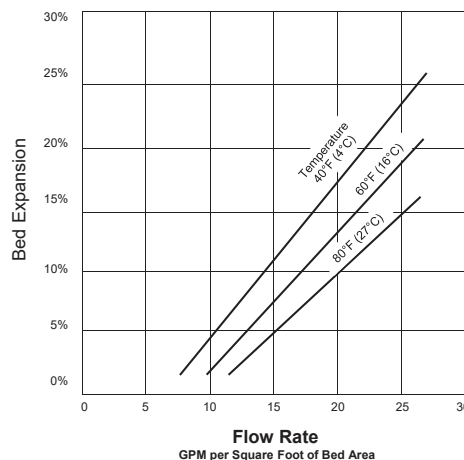
Oxidation Reduction Potential (ORP) can be the most important factor to take into consideration in certain waters. Highly reducing waters may cause premature exhaustion or even destruction of the Filox bed. Precautions can be taken prior to installation that can prevent ORP problems. Use one of the screening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

NOTICE

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



Filox Backwash Bed Expansion



ORP Meter Test

NOTICE

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

Resin

Watts Brand Resin

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



Resin Properties

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

Design Conditions

BED DEPTH	>30 IN
Flow rate	2– 5 gpm/ft³
Freeboard	50% of bed depth
Backwash expansion	50% of bed depth
NaCl concentration for regeneration	5 – 25%
NaCl flow rate for regeneration	0.25 – 0.5 gpm/ft³
Turbidity	<5.0 NTU
Free chlorine	<1 ppm

Ordering Information

Resin

ORDERING CODE	DESCRIPTION	APPLICATION	CUBIC FEET PER BAG	CONTAINER WT. (LB)	PER PALLET
7300100	Cation Resin 16 x 40 mesh 8 % Crosslink	Water Softener Resin	1	52	40

Gravel

ORDERING CODE	DESCRIPTION	APPLICATION	CUBIC FEET PER BAG	CONTAINER WT. (LB)	PER PALLET
7300101	Gravel 1/8" x 1/16" (#20) red marking	Sediment, bed support	0.5	50	56
7300102	Gravel 1/4" x 1/8" orange marking	Sediment, bed support	0.5	50	56
7300103	Gravel 1/2" x 1/4" black marking	Sediment, bed support	0.5	50	56
7300104	Gravel 3/4" x 1/2" purple marking	Sediment, bed support	0.5	50	56

Neutralizer

ORDERING CODE	DESCRIPTION	APPLICATION	CUBIC FEET PER BAG	CONTAINER WT. (LB)	PER PALLET
7300106	Flomag PWT Magnesium Oxide (similar to Corset)	Neutralizer	0.5	55	60
7300107	Calcite	Neutralizer	0.5	55	60

Greensand

ORDERING CODE	DESCRIPTION	APPLICATION	CUBIC FEET PER BAG	CONTAINER WT. (LB)	PER PALLET
7300109	Greensand Plus	Iron, HS reduction	0.5	42	50

Series PWRX40

Whole House Reverse Osmosis Systems

Connection Size: 1 $\frac{3}{4}$ "

Max. Productivity: 2500, 5000 & 7500 gallons per day

The Watts Series PWRX40 reverse osmosis (RO) systems are ideal for Whole House RO applications. These RO systems are a light commercial grade high-pressure RO units for the reduction of total dissolved solids from water. They are designed to supply reverse osmosis quality water with production rates ranging from 2500 to 7500 gallons per day. These units are designed for floor mount installations.

Reverse osmosis is a process where high-pressure feed water is fed into a semi-permeable membrane. In the membrane, quality water is allowed to pass through the membrane material and exit as permeate water. Dissolved mineral salts are not allowed to pass through the membrane and become a concentrated reject stream that is sent to a drain. These RO systems use high-pressure/high-rejection membranes to achieve a nominal average NaCl ionic rejection of 98 percent.

Series PWRX40 RO systems are a time-tested line of RO systems engineered with quality and durability in mind. This series comes with a pre-selected assortment of features.

Features

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

Performance

	PWRX4040011	PWRX4040021	PWRX4040031
Order code	7101124	7101125	7101126
Maximum Productivity (gallons per day)	2500	5000	7500
Quality (average membrane rejection)	98% (min. 96%)		
Recovery (user adjustable)	up to 75%		
Membrane Size	4" x 40"		
Number Of Membranes	1	2	3
Prefilter (system ships with one 5 micron cartridge)	20"		
Feed Water Connection	$\frac{3}{4}$ " NPTF		
Product Water Connection (tubing ID)	$\frac{5}{8}$ "		
Reject Water Connection (tubing ID)	$\frac{5}{8}$ "		
Permeate Water (maximum)	1.74 gpm	3.47 gpm	5.21 gpm
Minimum Concentrate Flow	3 gpm		
Feed Water Pressure (minimum)	10 psi		
Electrical Requirement	110V 12 amps		230V 15 amps
Motor Horse Power	1		1 $\frac{1}{2}$
Dimensions W x D x H (approximate inches)	20 x 22 x 56		20 X 26 X 56
Shipping Weight (estimated pounds)	120	150	180



PWRX40

NOTICE

Feed Water must be pre-treated for scale prevention (softened), de-chlorinated (carbon filter) and free of sediment.

RO system REQUIRES separate RO Storage tank and Delivery Pump. See 36 or contact Pure Water Technical Support at 1-800-659-8400 for details.

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

For additional information, access online literature ES-WQ-PWRX40.

Series PWTNKPKG

Atmospheric Tank & Pump Packages

Size: 165, 300, 500 gallons (625, 1135, 1893 liters)

Ideal for whole house and light commercial applications. Reduce installation labor with these complete tank and pump packages with components pre-installed to save time and money.

Grundfos® Scala 1 Pump

This unique pump is included in the package for re-pressurization. It is a stand alone component, operating independently. Simply plug it in directly to a 110 VAC outlet and the pump turns itself on and off based on flow.



PWTNKPKG

Features

- Pre-installed float switch
- Polyethylene atmospheric storage tanks with float switch
- Atmospheric storage tank with bulkhead fittings installed
- Junction box connects to the float switch RO system
- UV inhibitors added to storage tank
- Storage tank manufactured from sturdy polyethylene
- Tank walls are translucent for level viewing
- Gallon indicators on side wall
- Basic installation fittings included from storage tank to pump (additional fittings and pipe may be required depending upon application)



Pre-Installed Float Switch

MODEL NO.	ORDERING CODE	TANK SIZE GALLONS	DIAMETER X HEIGHT	OPENING	FLOAT SWITCH & JUNCTION BOX	BULKHEAD FITTINGS	OVERFLOW	PUMP	WEIGHT
PWTNK165PKG	7100459	165	31" x 56"	8" Lid, 2" Drain FDA	Installed	Installed	Installed	Grundfos® MQ3	112
PWTNK300PKG	7100460	300	36" x 79"	16" Lid, 2" Drain FDA	Installed	Installed	Installed	Grundfos MQ3	132
PWTNK500PKG	7100461	500	48" x 72"	16" Lid, 2" Drain FDA	Installed	Installed	Installed	Grundfos MQ3	184

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

Plastic Filter Housings

Top Quality & Economical Plastic Filter Housings

Single Cartridge Filter Housings

Size: ¼" – 1½"

Our poly filter housings are manufactured from the highest quality, 100% polypropylene and acrylic styrene (for clear housings). Leak-proof sealing is accomplished by compression against a top seated EPDM O-ring located in the housing's sump. Thick wall and added ribs make the housings ideal for a wide range of applications. Polypropylene construction provides excellent chemical resistance with most acids, alcohol, ammonia, oils, plating solutions and many aggressive chemicals. Housings supplied with pressure relief valves.

Full product line

We offer a complete line of poly filter housings for virtually every application where single cartridge housings are typically used. Select from standard, full-flow and valve-in-head models.

Features

- Full product line for more types, models, pipe fittings and options
- Heavy-duty construction, made using high-quality polypropylene
- Superior chemical resistance from many aggressive chemicals
- Buttress thread design for superior security
- Thick side walls with heavy-duty ribs to provide greater strength
- Temperature rated to 100° F/37.8° C
- Cap, sump and top-seated O-rings compress to provide leak proof sealing



PWHP Housings

PWHIB Series

Individually Boxed Plastic Housings Kits



Watts Pure Water PWHIB Housing Kits come complete with housing, mounting bracket and screws and wrench



PWHIB10FF

MODEL NO.	ORDERING CODE	SIZE	PIPE SIZE	TYPE	SUMP	CAP	CASE QTY.
PWHIB34WVIH	7100550	10"	¾"	Valve-In-Head	White	White	4
PWHIB10FF	7100268	10"	1"	Full Flow (FF)	Blue	Black	4
PWHIB10FFC	7100679	10"	1"	Full Flow (FF)	Blue	Black	4
PWHIB20FF	7100269	20"	1"	Full Flow (FF)	Blue	Black	4

Poly Filter Housing

MODEL NO.	ORDERING CODE	SIZE	PIPE	SUMP	CAP	# CASE
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White Housings

PWHP512W	7100589	5"	½"	White	White	12
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Clear Housings

PWHP1034CPR	7100554	10"	¾"	Clear	White PR	4
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10" Residential Housings

PWHP1014BPR	7100277	10"	¼"	Blue	Black PR	4
PWHP1012BPR	7100279	10"	½"	Blue	Black PR	4
PWHP1034BPR	7100281	10"	¾"	Blue	Black PR	4
PWHP10FF1BPR	7100288	10"	1"	Blue	Black PR	4

10" Full Flow Housings

PWHP10FF34BPR	7100286	10"	¾"	Blue	Black PR	4
PWHP10FF1BPR	7100288	10"	1"	Blue	Black PR	4

20" Full Flow Housings

PWHP20FF34BPR	7100291	20"	¾"	Blue	Black PR	4
PWHP20FF1BPR	7100293	20"	1"	Blue	Black PR	4

High Temp Housings (200°F/93°C)

PWHPHT1034	7100296	10"	¾"	Red	Red	4
PWHPHT2034	7100297	20"	¾"	Red	Red	4

Mounting Brackets - Includes housing mounting screws

PWMBVIH	7300605	Brkt, VIH Housing				1
PWMBSTD1	7100463	Single, 10" & 20" Residential Housings				1
PWMBFF1	7100466	Single, 10" & 20" Full Flow Housing				1
PWMBFF2	7100467	Double, 10" & 20" Full Flow Housing				1

Wrenches

PWWRSTDHSG	7100298	Wrench for Residential Housings				1
PWWRFFHSG	7100299	Wrench for Full Flow Housing				1
PWWRHSHSG	7300618	Hi Temp Housing Wrench				1
PWWRCOM	7300806	Wrench for Commercial Housing				1
PWWRDUAL	7100300	Dual Wrench for Membrane and Residential Filter Housings				1

Mounting Screws

PWMSSTDHSG	7300393	Mounting Screws for Standard Housings				1
PWMSFFHSG	7300395	Mounting Screws for Full Flow Housings				1
PWMSCOMHSG	7300809	Mounting Screws for Commercial Housings				1

O-Rings

PWORSTDHSG	7300397	O-Ring for Standard housings				1
PWORFFHSG	7300398	O-Ring for Full Flow housings				1
PWORHSHSG	7300399	O-Ring for High Temp housings				1
PWORCOMHSG	7300807	O-Ring for Commercial Housings				1



Blue/Black

- Melt Blown Filter Cartridges
- Wound Cartridges
- Pleated Filter Cartridges
- Carbon Block Filter Cartridges
- Granular Activated Carbon (GAC) Cartridges
- In-Line Filters



PWILGAC10



PWCB10LED



GAC Filters



Carbon Block Filter Cartridges



Pleated Filter Cartridges



Melt Blown Filter Cartridges

Melt Blown Filter Cartridges


Flow Rates: Up to 20 gpm on 4½" x 20" cartridges

Watts Pure Water series of Melt Blown Cartridges reduce sediment, dirt, rust and particles.* Food grade for use with beverages, food, and potable water. A wide range of lengths and micron ratings are available.

Features

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

Applications

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



Melt Blown Filter Cartridges



Certified to NSF/ANSI 42 for material safety and to NSF/ANSI/CAN 372 for lead free compliance.

*Reduction claims not certified by WQA.

Standard Diameter (2½")

MODEL NO.	ORDERING CODE	LENGTH	OD	NOMINAL MICRON RATING	NO. / CASE	WEIGHT	
						lb	kg
5"							
PWMB5M5	7100587	5"	2½"	5	24	7.2	3.27
9¾"							
PWMB10M1	7100330	9¾"	2½"	1	12	3.6	1.6
PWMB10M5	7100331	9¾"	2½"	5	12	3.6	1.6
PWMB10M10	7100332	9¾"	2½"	10	12	3.6	1.6
PWMB10M20	7100333	9¾"	2½"	20	12	3.6	1.6
PWMB10M50	7100335	9¾"	2½"	50	12	3.6	1.6
20"							
PWMB20M1	7100336	20"	2½"	1	6	3.6	1.6
PWMB20M5	7100337	20"	2½"	5	6	3.6	1.6
PWMB20M20	7100338	20"	2½"	20	6	3.6	1.6
PWMB20M50	7100339	20"	2½"	50	6	3.6	1.6

Full Flow (FF) 4½" x 9¾"

9¾"							
PWMB10FFM1	7100348	9¾"	4½"	1	4	4.4	2.0
PWMB10FFM5	7100349	9¾"	4½"	5	4	4.4	2.0
PWMB10FFM20	7100350	9¾"	4½"	20	4	4.4	2.0
PWMB10FFM50	7100351	9¾"	4½"	50	4	4.4	2.0

Full Flow (FF) 4½" x 20"

20"							
PWMB20FFM1	7100352	20"	4½"	1	4	8	3.6
PWMB20FFM5	7100353	20"	4½"	5	4	8	3.6
PWMB20FFM20	7100354	20"	4½"	20	4	8	3.6
PWMB20FFM50	7100355	20"	4½"	50	4	8	3.6

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

Series PWSW

Wound Polypropylene Filter Cartridges

Exceptional value when depth filtration is required.

Watts Pure Water series of String Wound Cartridges reduce sediment, dirt, rust and particles. Food grade for use with beverages, food, and potable water. A wide range of lengths and micron ratings are available.

Features

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

Specification

Material – Polypropylene
 Maximum Operating Temperature (Plastic Core) – 140°F (60°C)
 Flow Rate (2.5" x 10" Cartridge)
 1 micron - 3 gpm @ 4psi drop
 5 micron - 6 gpm @ 3psi drop
 20 micron - 9 gpm @ 2psi drop
 50 micron - 9 gpm @ 1psi drop
 Maximum Differential Pressure – 60 psid @ 73°F



PWSW10



PWSW10FF

Filter Cartridges

Standard Diameter (2½")

MODEL NO.	ORDERING CODE	LENGTH	OD	NOMINAL MICRON RATING	NO. / CASE	WEIGHT	
						lb	kg
PWSW10M1	7100356	9⅞"	2½"	1	12	12.0	5.4
PWSW10M5	7100357	9⅞"	2½"	5	12	12.0	5.4
PWSW10M20	7100358	9⅞"	2½"	20	12	12.0	5.4
PWSW10M50	7100359	9⅞"	2½"	50	12	12.0	5.4
PWSW20M1	7100360	20"	2½"	1	6	13.5	6.1
PWSW20M5	7100361	20"	2½"	5	6	13.5	6.1
PWSW20M20	7100362	20"	2½"	20	6	6	6.1
PWSW20M50	7100363	20"	2½"	50	6	13.5	6.1

Full Flow (FF) 4½" OD Cartridges

PWSW10FFM1	7100370	9¾"	4½"	1	4	9.6	4.4
PWSW10FFM5	7100371	9¾"	4½"	5	4	9.6	4.4
PWSW10FFM20	7100372	9¾"	4½"	20	4	9.6	4.4
PWSW10FFM50	7100373	9¾"	4½"	50	4	9.6	4.4
PWSW20FFM1	7100374	20"	4½"	1	4	9.6	4.4
PWSW20FFM5	7100375	20"	4½"	5	4	9.6	4.4
PWSW20FFM20	7100376	20"	4½"	20	4	9.6	4.4
PWSW20FFM50	7100377	20"	4½"	50	4	9.6	4.4

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

Series PWPL

Pleated Filter Cartridges

Greater surface area for longer life & reduced filtration costs.

Watts Pure Water Pleated filter cartridges reduce sediment, dirt, rust, and particles. They outperform wound, spun, melt blown, resin bonded, and other “depth” type filter elements because of their high surface area.

Lower pressure drop is another significant advantage. Using pleated cartridges allows for increased flow rates and the use of smaller filter housings to reduce capital equipment costs.

Further savings are provided because our 100% synthetic filter media is cleanable, 5 micron and up, to lower cartridge replacement costs. Our Pleated filters outperform other pleated elements because our high-performance filter media is systematically produced using 100% synthetic fibers, with no binders or additives to leave a residue, foam or contaminants.

Our filter media is dramatically thicker than other products. For this reason, Pleated cartridges provide “depth” filtration for greater sediment removal, along with more surface area.



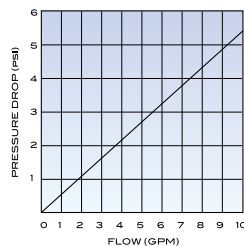
Pleated Filter Cartridges

Features

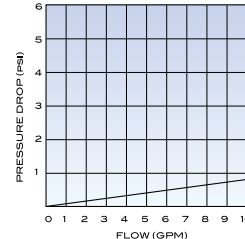
- Filter media is pleated for greater surface area
- Synthetic filter media is cellulose-free
- “Thicker” filter media has a greater capacity to capture and retain particles, compared to thin, more rigid media types, which have less void space for particle retention
- 0.35 media use a multi-ply laminate for superior performance
- Long lengths have netting to hold pleats in place
- All cartridge types and lengths are wrapped
- Full product line (Large selection of types, lengths and micron ratings)
- Low pressure drop, long life, and reduced filtration costs, compared to wound and spun cartridges
- No additives or binders, which may cause foaming.
- Increased dirt holding capacity, longer life, fewer cartridge replacements needed, and reduced filtration costs, compared to other pleated cartridge suppliers
- Increased particle removal efficiency
- Superior performance and appearance

Lower pressure drop for higher flow rates

These cartridges are pleated, so initial pressure drop is significantly less compared to depth cartridges, such as wound, spun, melt blown and resin bonded. As a result, higher flow rates are possible, reducing filter housing size requirements to lower capital equipment costs.

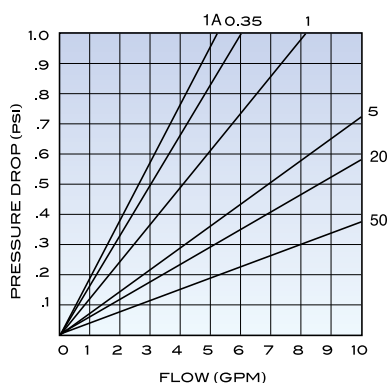


Depth Cartridge
(5 micron)

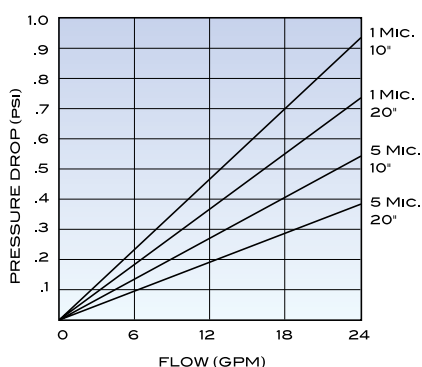


Pleated® Cartridge
(5 micron)

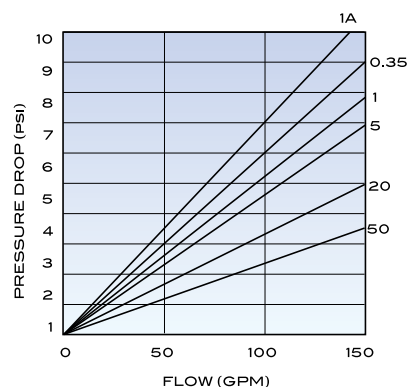
Use the pressure drop charts shown below to help determine the ideal flow rate for your particular application:



Standard Cartridges (9 3/4")



Full Flow (FF) Cartridges



Jumbo Cartridges

NOTE: Pressure drop data shown above include filter housing and cartridge.

Flow rates

Maximum flow rate guidelines for our cartridges are shown below:

Nominal Micron Rating	MAXIMUM FLOW RATES PER CARTRIDGE (GPM)							
	Standard Cartridge			10" Full Flow	20" Full Flow	Jumbo Cartridge		
	9 3/4"	20"	29 3/4"			40	90	170
0.35 micron	4	8	12	9	13	25	50	100
1 micron	4	8	12	10	15	30	60	120
5 micron	7	14	21	15	25	50	100	150
20 micron	8	16	24	15	25	50	100	150
50 micron	10	20	30	15	25	50	100	150

NOTICE Filter housing selection should also be considered when flow rate per cartridge is determined.

Standard 2¾" x 9¾" Length

MODEL NO.	ORDERING CODE	MEDIA TYPE	NOMINAL MICRON RATING	NUMBER PER CASE
PWPL10M.35	7100388	Synthetic	0.35	12
PWPL10M1	7100389	Synthetic	1	12
PWPL10M5	7100390	Synthetic	5	12
PWPL10M20	7100391	Synthetic	20	12
PWPL10M50	7100392	Synthetic	50	12



PWPL10FF

Standard 2¾" x 20" Length

MODEL NO.	ORDERING CODE	MEDIA TYPE	NOMINAL MICRON RATING	NUMBER PER CASE
PWPL20M.35	7100398	Synthetic	0.35	6
PWPL20M1	7100399	Synthetic	1	6
PWPL20M5	7100400	Synthetic	5	6
PWPL20M20	7100401	Synthetic	20	6
PWPL20M50	7100402	Synthetic	50	6

Full Flow (FF) 4½" x 9¾" Length

MODEL NO.	ORDERING CODE	MEDIA TYPE	NOMINAL MICRON RATING	NUMBER PER CASE
PWPL10FFM.35	7100408	Synthetic	0.35	4
PWPL10FFM1	7100409	Synthetic	1	4
PWPL10FFM5	7100410	Synthetic	5	4
PWPL10FFM20	 7100411	Synthetic	20	4
PWPL10FFM50	7100412	Synthetic	50	4

NOTE: Cartridges listed above fit in Full-Flow and Big-Blue® filter housings.

Full Flow (FF) 4½" x 20" Length

MODEL NO.	ORDERING CODE	MEDIA TYPE	NOMINAL MICRON RATING	NUMBER PER CASE
PWPL20FFM.35	7100414	Synthetic	0.35	4
PWPL20FFM1	7100415	Synthetic	1	4
PWPL20FFM5	7100416	Synthetic	5	4
PWPL20FFM20	7100417	Synthetic	20	4
PWPL20FFM50	7100418	Synthetic	50	4

NOTE: Cartridges listed above fit in Full-Flow and Big-Blue® filter housings.

Premium Carbon Block Filter Cartridges



Flow Rates: Up to 4 gpm (15 lpm)

Thick wall carbon construction for superior performance

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

Features

- Superior chlorine reduction
- Low-pressure drop
- Will not channel
- Cost savings
- 100% coconut shell carbon

- FDA grade components and materials
- Solid Block Activated Carbon for long life

Temperature

Operating temperature: 40°F to 165°F (4.4°C to 73.8°C)



Dimensions

MODEL NO.	ORDERING CODE	TYPE	OD		LENGTH		MICRON RATING	CHLORINE REDUCTION*	NO. / CASE
			in.	mm	in.	mm			
PWCB5P**	7100588	Thick Wall	2 7/8"	73	5"	127	5 nominal	3,000 Gal @ 1 gpm	6
PWCB10P	7100446	Thick Wall	2 7/8"	73	9 3/4"	248	5 nominal	>6,000 Gal @ 1 gpm	12
PWCB20P	7100447	Thick Wall	2 7/8"	73	20"	508	5 nominal	>12,000 Gal @ 2 gpm	6
PWCB10FFP	7100448	Thick Wall	4 5/8"	117	9 3/4"	248	5 nominal	>20,000 Gal @ 2 gpm	4
PWCB20FFP	7100449	Thick Wall	4 5/8"	117	20"	508	5 nominal	>40,000 Gal @ 4 gpm	4

* Estimated capacity using 2ppm free chlorine with greater than 90% reduction.

** 5" CB's are sold as 2-packs.

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

LCV Carbon Block & Lead Out Filters

LCV (Lead, VOCs)

Carbon Block Filter Cartridges are specially formulated and independently tested and verified for the reduction of lead and volatile organic chemicals (VOCs), chlorine, taste and odor, sediment, dirt, rust and particles. Filters down to 1 micron. Excellent application for campers and RV units, also can be easily installed in your standard 10 inch filter bowl.

Lead Out

Independently tested and verified for the reduction of lead, chlorine, taste and odor, reduces sand, silt, sediment and rust. Filter uses unique Lead Out Filtration Media. Filters down to 1 micron. Excellent product for campers and RV units, also can be easily installed in your standard 10 inch filter bowl.



Dimensions

MODEL NO.	ORDERING CODE	OD		LENGTH		MICRON RATING	CHLORINE REDUCTION*	LEAD REDUCTION	VOC CAPACITY*	NO./ CASE
		in.	mm	in.	mm					
PWCB10LCV	7100451	2 3/4"	70	9 3/4"	248	1 Nominal	25,000 gallons @ 1 gpm	1,500 gallons @ 0.5 gpm	N/A	12
PWCB10LED	7100452	2 1/2"	70	9 7/8"	249	1 Nominal	6,500 gallons @ 0.75 gpm	2,500 gallons @ 0.75 gpm	N/A	12

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

*Estimated capacity using 2ppm free chlorine with greater than 90% reduction.

For residential Point of Use applications, campers, and RVs only.

GAC Filter Replacement Cartridges

Granular Activated Carbon (GAC) Cartridges

Size: 2¾" x 10", 2¾" x 20", 4½" x 10" & 4½" x 20"

GAC filters are an effective way of reducing volatile compounds from drinking water for better tasting water. They are used to reduce chlorine, taste and odors from water. Polishing RO water with a Watts GAC cartridge improves its taste.

Specification

Media	Water washed coconut shell activated carbon
Minimum / Maximum Working Pressure	20 psi/125 psi
Minimum / Maximum Temperature	40°F/100°F (4°C/38°C)
Maximum Flow Rate	1 GPM (9¾"), 3 GPM (4.5" x 9¾"), 5 GPM (4.5" x 20")



GAC Filters

Water Washed Coconut Shell Granular Activated Carbon Cartridges (GAC)

MODEL NO.	ORDERING CODE	TYPE	O.D.	LENGTH	CAPACITY (GALS.)	NO. / CASE
PWGAC10	7100442	GAC	2¾"	9¾"	2,500	12
PWGAC20	7100443	GAC	2¾"	20"	5,000	6
PWGAC10FF	7100444	GAC	4½"	9¾"	7,500	4
PWGAC20FF	7100445	GAC	4½"	20"	15,000	4

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

Series PWFIL



In-Line Filters

Connection Size: 1/4" FNPT

Perfect for residential ice makers as well as refrigerators, drinking fountains, coffee and tea brewers, motor homes, and campers.



PWILGAC10

Features

- Final polishing filter
- Reduces bad taste and odor
- GAC model with phosphate to help reduce scale
- GAC models with calcite to balance pH
- GAC model with KDF for reduction of scale build-up
- Coconut shell activated carbon. Rated for flow rates to 0.75. GPM and 1,500 gallons capacity

In-Line Filters RO Filters

Coconut Shell GAC – Ideal for RO Post Filter

MODEL NO.	ORDERING CODE	O.D.	LENGTH	MEDIA	TYPE	FITTING SIZE	FITTING TYPE	NO./CASE
PWILGAC10	7100454	2"	10"	GAC	Coconut shell	1/4"	FNPT	6
PWILGAC6	7100453	2"	6"	GAC	Coconut shell	1/4"	FNPT	6

GAC with phosphate for scale reduction

PWILGACPH10	7100455	2"	10"	GAC/ Phosphate	Coconut shell/Phosphate	1/4"	FNPT	6
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In-line Filters with GAC and Calcite to balance pH

PWILGACCL10	7100456	2"	10"	GAC/Calcite	Coconut shell/Calcite	1/4"	FNPT	6
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In-line Filters with GAC and KDF** - Ideal for residential icemakers/refrigerators

PWGACKDFFTGS	7100457	2.5"	10"	KDF/GAC	KDF/Coconut shell	1/4"	FNPT	5
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**These Filters reduce scale build-up in appliances GAC and KDF inline filter lasts up to 20,000 gallons.

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

- Pressurized Steel Storage Tanks
- Pumps - Boosters and Demand/Delivery
- Standard Drinking Water Faucets (Air Gap & Non Air Gap)
- Designer Watts Top Mount Drinking Water Faucet
- Designer RO Drinking Water Faucets — Series 703 & 905



PWFCT303



PWFCTTM



PWFCT905



PWFCT703



Permeate Pump



Storage Tank

Pressurized Steel Storage Tanks

These tanks are used for storing reverse osmosis water. The inside of the tank has a polypropylene liner and utilizes a butyl diaphragm for the water storage area.



Pressurized RO Storage Tanks

MODEL NO.	ORDERING CODE	VOLUME (GALLONS)	DESCRIPTION	DIAMETER (INCHES)	HEIGHT (INCHES)	COLOR	PIPE FITTINGS (INCHES)
PWR0TNK3	7100174	3	3 Gallon - Metal Tank	11"	16"	White	1/4"
PWR0TNK14	7100175	14	14 Gallon - Metal Tank	15"	23"	Blue	1/4"

Pumps - Booster

Permeate Pump

The Permeate Pump operates as a non-electrical energy recovery device which dramatically improves the efficiency of RO systems. Using only the available energy from the brine water (otherwise lost to the drain), the pump forces product water into the storage tank. This process effectively reduces membrane back pressure to less than 5psi and allows the membrane to maximize its use of the available feed pressure.



Booster Pump Kits

Designed as an accessory for Reverse Osmosis Units in areas with water pressure less than 40 psi. These pump kits are quiet, easy to install, can significantly increase water output and work with all standard and manifold units.



Pumps - Booster and Demand/Delivery

MODEL NO.	ORDERING CODE	DESCRIPTION	FLOW RATE (GPM)	PIPE (SUCTION)	PIPE (DISCHARGE)	VOLTS	HZ	PRESSURE (MAX)	AMPS (MAX)
PWB00ST05KT	7100181	Lo-Flow Booster Pump Kit	0.5	1/4"	1/4"	115	50/60	125	1
PWB00ST75KT	7100182	Hi-Flow Booster Pump Kit	0.75	3/8"	3/8"	115	50/60	125	2

Series PWFCT303

Standard RO Faucets

Watts Pure Water Standard Faucet comes in beautiful finishes to match today's designer kitchens. They are available in both Air Gap and Non Air Gap.

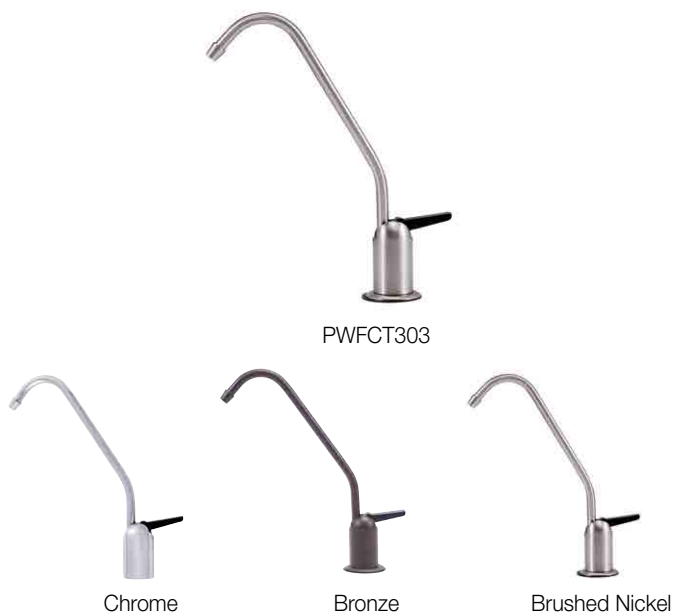
Faucet Type

Air Gap: The Air Gap faucet conforms to US plumbing codes and is designed for dispensing water from a Reverse Osmosis system or a Water Filtration system that requires a drain connection with an Air Gap.

Non Air Gap: This faucet is designed for dispensing water from a Reverse Osmosis system or a Water Filtration system that does not require a drain connection with an Air Gap.

Features

- Many faucet finishes to choose from
- Lever for dispensing
- Push and hold lever down to hold in the open position
- Lift lever up to keep in the open locked position
- Swivel Neck



Standard Series Faucets - Air Gap

MODEL NO.	ORDERING CODE	FINISH	CASE QTY.
PWFCT303CHA	7100195	Chrome	50
PWFCT303BNA	7100196	Brushed Nickel	50
PWFCT303OBA	7100198	Oil Rubbed Bronze	50

Standard Series Faucets - Non Air Gap

MODEL NO.	ORDERING CODE	FINISH	CASE QTY.
PWFCT303CH	7100188	Chrome	50
PWFCT303BN	7100189	Brushed Nickel	50
PWFCT303OB	7100191	Oil Rubbed Bronze	50

For additional information, access online literature [ES-WQ-PWFCT303](#).

Series PWFCT703 & PWFCT905

Designer RO Faucets

Watts Pure Water Designer RO Faucet comes in beautiful finishes to match today's designer kitchens. This designer faucet retrofits to most brands and makes an excellent upgrade from the basic faucets that come with most reverse osmosis or other filtration systems. The Series 703 is available in Chrome, Brushed Nickel, and Oil Rubbed Bronze finishes. While the Series 905 is available in Chrome and Brushed Nickel.

Features

- Smooth operating ceramic disk element
- Lever style handle
- High reach neck design
- Swivel neck
- Mounting hardware included
- Series 905 requires a 7/8" mounting hole and 1/2" for the Series 703



Series 703 Faucets

MODEL NO.	ORDERING CODE	TYPE	FINISH	CASE QTY.
PWFCT703CH	7100212	Ceramic Disc – Non Air Gap	Chrome	30
PWFCT703BN	7100213	Ceramic Disc – Non Air Gap	Brushed Nickel	30

Series 905 Faucets

MODEL NO.	ORDERING CODE	TYPE	FINISH	CASE QTY.
PWFCT905CH	7100215	Ceramic Disc – Non Air Gap	Chrome	30
PWFCT905BN	7100216	Ceramic Disc – Non Air Gap	Brushed Nickel	30

For additional information, access online literature [ES-WQ-PWFCT703905](#).

Series PWFCTTM

Top Mount Faucets

Size: 3/8"

Features

- Top mount design – you'll never need to crawl below the sink again!
- Reduces installation labor
- Components touching water are stainless steel or non-metallic
- Wide range of finishes, including chrome, brushed nickel, oil rubbed bronze
- Models with filter change monitors are available to remind customers when to change cartridges for water quality assurance
- Ceramic disc for durability
- One style works for air gap and non air gap installations



Models with monitors are available

NOTE: Not for sale or use in California

Top Mount Faucet Models

MODEL NO.	ORDERING CODE	FINISH	INSTALLATION TYPE	TUBING SIZE	FILTER CHANGE MONITOR
PWFCTTMMCH	7100202	Chrome	Air gap or non air gap	3/8"	Yes
PWFCTTMCH	7100203	Chrome	Air gap or non air gap	3/8"	No
PWFCTTMMBN	7100204	Brushed Nickel	Air gap or non air gap	3/8"	Yes
PWFCTTMBN	7100205	Brushed Nickel	Air gap or non air gap	3/8"	No
PWFCTTMOB	7100211	Oil Rubbed Bronze	Air gap or non air gap	3/8"	No

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

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USA

For Technical and Ordering Assistance, call us at 800-659-8400.

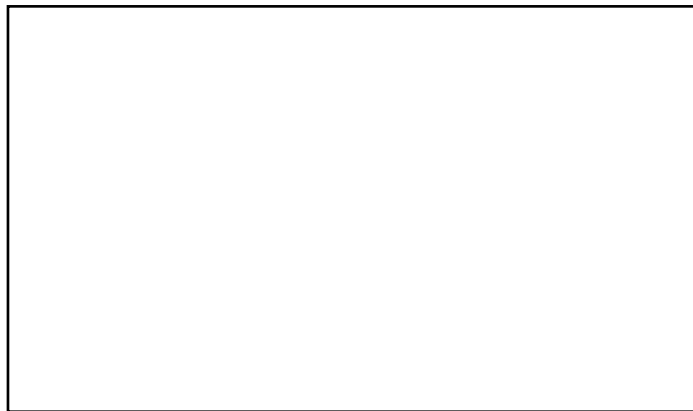
To locate your nearest Watts representative, click on our *find a sales rep* locator on Watts.com/PureWater.

CANADA

For Technical and Ordering Assistance, call us at 1-905-332-4090.

To locate your nearest Watts representative, click on our *find a sales rep* locator on Watts.ca/PureWater.

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