

# Product Catalog

Watts Pure Water Residential Filtration and Treatment Products

pure water



## 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.

## 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.

## 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.

## 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.

## 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*

## 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.



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## 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

### NEW Icons Identify:

#### Contaminant Reduction



Sediment



Chlorine



Chemicals



Bacteria

#### Filtration Effectiveness



Coarse



Medium



Fine



Ultra Fine

#### End Cap Item


EC  
END CAP

EC  
END CAP


End Cap packaging now  
includes English, Spanish  
and French languages

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 | End Cap Header Package**  | 7300617       | 1             | 1   |
| PWDWLCV2            | 2-Stage LCV Filtration System   | 7100101       | 1             | 2   |
| PWRO4               | 4-Stage RO System   | 7100103       | 1             | 2   |
| PWDWUFKC3           | 3-Stage Ultra Filtration (UF) System  | 7100106       | 1             | 4   |
| PWROKC4             | 4-Stage Kwik-Change RO System   | 7100107       | 1             | 2   |
| PWFPKSEDCB          | Semi-annual replacement filter pack for 4-Stage RO system                             | 7100110       | 1             | 3   |
| PWFPKLCV            | Semi-annual replacement filter pack for LCV Water Filtration System                   | 7100111       | 1             | 2   |
| PWFPK2KC4           | Semi-annual replacement filter pack for 3-Stage UF and 4-Stage Kwik-Change RO Systems | 7100116       | 1             | 6   |
| PWFPKKCUF           | Annual replacement filter pack for 3-Stage UF System                                  | 7100118       | 1             | 3   |
| PWHIB34VIH          | Valve-In-Head Housing kit   | 7100267       | 4             | 4   |
| PWHIB10FF           | 10 Full Flow Housing kit  | 7100268       | 4             | 4   |
| PWHIB20FF           | 20" Full Flow Housing kit   | 7100269       | 4             | 4   |
| 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 Carbon Block Filter   | 7100448       | 4             | 8   |
| PWCB20FFP           | 20" Full Flow Carbon Block Filter   | 7100449       | 4             | 8   |
| PWFILGAC10          | 10" Inline GAC Filter   | 7100454       | 6             | 24  |

\* 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 & Chain and Plan-O-Gram

The wetted surfaces of these products contacted by consumable water contain less than 0.25% of lead by weight.

**WARNING** Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. Systems certified for cyst reduction may be used on disinfected waters that may contain filterable cysts.

## 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, and expandable carrying case allows for testing on site without having to take water samples back to a chemistry laboratory.

### Master Visual Test Kit

| ORDER NUMBER | DESCRIPTION    |
|--------------|----------------|
| 7100710      | PWVTCOMLETEKIT |

Master Visual Test Kit contains (x1) each of the individual tests kits, including carrying case and comparator. **Master Visual Test Kit does not include TDS Meter, it must be ordered separately.**

### 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       | PWTFERROUSIRON | Ferrous Iron (Fe+2) Kit     | Visual Comparator, Colorimetric | 0-9           | ≥ 100 |
| 7100702       | PWVTMANAGANESE | 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 Comparator, Colorimetric | 0-500/0-30gpg | ≥ 100 |
| 7100707       | PWVTFILOXRP    | Filox ORP Simple Test Kit   | Visual                          | NA            | ≥ 100 |
| 77300782      | Meter TDS      | TDS Meter 0-9990 ppm        | Digital                         | 0-9990        | NA    |

Individual Kits contain all necessary reagents, comparator card, cuvettes, and instructions to perform measurements

\*Comparator and carrying case sold separately.



7300782  
TDS



7100708  
Comparator



7100709  
Carrying Case

### Accessories

| ORDER CODE | DESCRIPTION   |
|------------|---------------|
| 7100708    | Comparator    |
| 7100709    | Carrying Case |

\*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.



**Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. Systems certified for cyst reduction may be used on disinfected waters that may contain filterable cysts.**

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

## Filtration Systems

Residential • Marine • RV



PWDWHCUC1



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.



PWROKC4

PWRO4ZRO

### How does it work?

In modern home units, water delivered by normal city water pressure, first flows through a sediment pre-filter which removes any dirt and small particles that are in the water, next a carbon pre-filter, which removes organic contaminants including chlorine and its by-products. Then, it enters the reverse osmosis membrane, a very tight, sheet-like filter, which allows water to pass but rejects dissolved solids like sodium and impurities like lead and arsenic. Some of the water entering the unit is used to cleanse the membrane surface and flows to the kitchen drainpipes. The purified water is stored in a small storage tank until it is needed. When the faucet mounted on the sink is opened, the purified water is forced by air pressure through another carbon filter, which gives it a final polish and from there to the faucet. (This is a simplified description of a 4-Stage RO unit. The simplified description omits a few very essential parts like flow control devices, check valves, and an automatic shutoff device that stops the inflow of water when the storage tank is full.)

\*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.

**⚠ WARNING** Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. Systems certified for cyst reduction may be used on disinfected waters that may contain filterable cysts.

## 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 ¼ turn
- System comes complete with fittings & tubing required for a quick and easy standard installation

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

#### BENEFITS

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

#### REDUCES

- ✓ Sediment ✓
- ✓ Chlorine
- ✓ Chemicals



NSF/ANSI STD 372, 53 & 42



PWDWHCUC1  
Ordering Code: 7100642

#### Replacement Filters Packs

| MODEL NO. | ORDERING CODE | FREQUENCY | DESCRIPTION             |
|-----------|---------------|-----------|-------------------------|
| PWCBHCUC1 | 7100643       | 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 & tubing required for a quick and easy standard installation

#### BENEFITS

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

#### REDUCES

- ✓ Sediment
- ✓ Chlorine
- ✓ Chemicals
- ✓ Lead, VOC's



NSF/ANSI STD 372



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](#).

\*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.



**WARNING** Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. Systems certified for cyst reduction may be used on disinfected waters that may contain filterable cysts.

# 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 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.

### REDUCES

- ✓ Sediment
- ✓ Chlorine



NSF/ANSI STD 372



PWDWUFKC3  
Ordering Code: 7100106

### Replacement Filter Packs

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

**Note:** Water conditions may require more frequent cartridge replacement

For additional information, access online literature [ES-WQ-PWDWUFKC3](#).

\*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.

**⚠ WARNING** Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. Systems certified for cyst reduction may be used on disinfected waters that may contain filterable cysts.



## 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 & 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
- Reduces sediment, chlorine that causes bad taste, TDS, other metals and a wide range of contaminants such as arsenic, lead, perchlorate, copper and cysts

#### REDUCES

- ✓ Sediment
- ✓ Chlorine
- ✓ Nitrate
- ✓ Nitrite
- ✓ Chemicals
- ✓ Cyst
- ✓ TDS



PWRO4  
Ordering Code: 7100103



NSF/ANSI STD  
372/STD 58

#### 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                          |
| PWILGAC10  | 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 ZeroWaste Point-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 & 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
- Reduces sediment, chlorine that causes bad taste, TDS, other metals and a wide range of contaminants such as arsenic, lead, perchlorate, copper and cysts

#### REDUCES

- ✓ Sediment
- ✓ Chlorine
- ✓ Nitrate
- ✓ Nitrite
- ✓ Chemicals
- ✓ Cyst
- ✓ TDS



PWRO4ZRO  
Ordering Code: 7100104



NSF/ANSI STD  
372/STD 58

#### 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               |
| PWILGAC10  | 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.

\*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.



**WARNING** Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. Systems certified for cyst reduction may be used on disinfected waters that may contain filterable cysts.

# Model PWROKC4

## Kwik-Change™ Reverse Osmosis Systems

Flow rate produces up to 60 gallons per day (227 lpd) of high-quality water that exceeds the quality of most bottled waters.



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 3/8" high-flow delivery
- Double seal O-ring cartridges ensure system integrity
- System comes complete with fittings, tubing & 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
- Reduces sediment, chlorine that causes bad taste, TDS, other metals and a wide range of contaminants such as arsenic, lead, perchlorate, copper

### REDUCES

- ✓ Sediment
- ✓ Chlorine
- ✓ Chemicals



NSF/ANSI  
STD 372

### 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.

\*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.

**⚠ WARNING** Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. Systems certified for cyst reduction may be used on disinfected waters that may contain filterable cysts.

# Model PWROKCZRO

## Kwik-Change™ ZeroWaste® Reverse Osmosis System

**Flow Rates: Up to 60 gallons per day (227 lpd)**

The patented ZeroWaste® Point-of-Use Reverse Osmosis System is the first ever RO System that wastes no water. This highly efficient system provides better-than-bottled water quality for residential applications.

### FEATURES

- 3-Stage-Includes carbon block, RO Membrane and final filter cartridges
- Patented technology using advance design – 100% Efficient – NO WASTED Water
- 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 3/8" high-flow delivery
- Double seal O-ring cartridges ensure system integrity
- System comes complete with fittings, tubing & 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
- 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
- Provides clean, safe, great tasting water for drinking and cooking
- Reduces sediment, chlorine that causes bad taste, TDS, other metals and a wide range of contaminants such as arsenic, lead, perchlorate

### REDUCES

- ✓ Sediment
- ✓ Chlorine
- ✓ Chemicals



NSF/ANSI STD 372



PWROKCZRO  
Ordering Code: 7100108

### Replacement Filter Packs

| MODEL NO. | ORDERING CODE | FREQUENCY | DESCRIPTION                        |
|-----------|---------------|-----------|------------------------------------|
| PWKCCB13  | 7100109       | 6 months  | Carbon Block                       |
| PWFPKCCZW | 7100119       |           | Includes all filters and membranes |
| PWKCGAC13 | 7100462       | Annual    | GAC filter                         |
| PWMEMKC60 | 7100125       | 2-5 years | 60 GPD membrane                    |

### NOTICE

Water conditions may require more frequent cartridge replacement

*For additional information, access online literature ES-WQ-PWROKCZRO.*

\*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.



### WARNING

Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. Systems certified for cyst reduction may be used on disinfected waters that may contain filterable cysts.

- Systems for Chlorine, Taste, Odor and Sediment Reduction
- Systems for Sediment Reduction with High Efficiency Micro Z™ Filter Media
- Systems for Iron, Manganese and Hydrogen Sulfide Reduction
- Systems for Acid Neutralizing
- Systems for Scale Reduction
- Water Softener — Cabinet Model
- Water Softener — Series PWSR
- Water Softener — Series PWSRTA
- SmartStream® UV Disinfection Systems



PWA



PWBWIRON



PWSR



PWSRTA



PWFCAL



OFRES

## 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

- ☑ **Hardness**
- ☑ **Iron**
- ☑ **Manganese**
- ☑ **Bad tastes**
- ☑ **Foul odors**
- ☑ **Chlorine and harmful chlorine by-products**
- ☑ **Turbidity**
- ☑ **Acidic water**
- ☑ **Scale control**

### 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                                   |
|---------------------------------|--|---|---|
| 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                            | Cabinet Model<br>Series PWSR<br>Series PWSRTA |
| Chlorine, foul odors and tastes | Chlorine taste; foul odors; damage to hair; itchy skin.  | Backwashing filter using activated carbon | Whole House Carbon Systems                    |
| Iron & Manganese                | Unpleasant metallic tastes; rust particles; staining on plumbing fixtures; red water; odors.   | Iron filter                               | Whole House Iron Systems                      |
| Turbidity                       | Cloudy water; sediment, sand, silt and rust particles.   | Media filter                              | Micro Z Systems                               |
| Acidic water (low pH)           | Green stains on bathroom sinks and other porcelain (surfaces; blue green water. (Acidic water may cause corrosion of pipes & plumbing fixtures.)   | Acid neutralizer using Calcite            | Acid Neutralizing Systems                     |
| All of the above                | All of the above   | Reverse Osmosis System                    | Series - PWR0440                              |
| Scale                           | Internal scale formation on plumbing surfaces, appliances and plumbing fixtures  | OneFlow®                                  | Residential OneFlow Systems                   |


**WARNING**

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

## 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 14 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 — Plus         | 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<br>75 gal | 2<br>150 gal | 3<br>225 gal | 4<br>300 gal | 5<br>375 gal | 6<br>450 gal | 7<br>525 gal | 8<br>600 gal |      |
| HARDNESS (GRAINS PER GALLON)                       | 1-5         | 15k          | 15k          | 15k          | 15k          | 15k          | 30k          | 30k          | 30k  |
|  |             | 12           | 12           | 6            | 6            | 4            | 6            | 4            | 3    |
|  |             | 1700         | 1600         | 1500         | 1500         | 1400         | 3500         | 3400         | 3300 |
|  | 6-10        | 15k          | 15k          | 15k          | 30k          | 30k          | 30k          | 30k          | 45k  |
|  |             | 12           | 4            | 3            | 4            | 4            | 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 lbs. / cu. ft.).

For Larger Applications Call Your Watts Representative



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



## Whole House Water Conditioning Systems (Systems for Chlorine, Taste, Odor and Sediment Reduction)

### Series PWFGAC

#### Whole House Carbon Filter System

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

**Flow Rate: Up to 14 gpm (53 lpm)**

Watts Whole House filters for chlorine taste, odor, and sediment removal.

Our PWFGAC Series activated carbon filters are designed for residential and light commercial applications up to 14 gallons per minute. Watts activated carbon filters are highly popular because they correct a wide range of water quality issues by removing chlorine, taste, odors, organic chemicals, and sediment.

Activated carbon has been used in the treatment of drinking water for over 2000 years. It was found that charred wood products aided in improving the quality of drinking water.

#### MEDIA

We use Aquasorb® coconut shell activated carbon. This is a high-activity granular activated carbon manufactured by steam activation of select coconut shell charcoal. Its high microporosity makes it particularly well suited for the adsorption of low molecular weight compounds at very low concentrations. It is also ideally suited for the removal of oxidizing agents such as chlorine from drinking water. Another important feature of this activated carbon is its superior mechanical hardness which helps ensure a clean, low dust product with an exceptionally long life span.

#### CONTROL VALVE

Manufactured from high-tech materials, the PWF Series valve has been engineered and tested to perform in the most demanding environments. It has built a reputation of 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 are no longer a concern.

#### FILTER TANK

Features a non-corrosive fiberglass tank with a thermoplastic inner liner. The tanks are NSF/ANSI Standard 44 or 61 certified.

#### REDUCES

✓ Sediment  
✓ Chlorine

✓ Chemicals



PWFGAC

Teflon® is a registered trademark of E. I. du Pont de Nemours and Company or its affiliates.

| MODEL NO. | ORDERING CODE | VALVE      | MINERAL TANK SIZE | MEDIA CUBIC FOOT | GRAVEL (LBS.) | SERVICE FLOW (GPM)* | PRESSURE DROP (PSI) | BACKWASH (GPM) | FLOOR SPACE L X W X H |
|-----------|---------------|------------|-------------------|------------------|---------------|---------------------|---------------------|----------------|-----------------------|
| PWFGAC1   | 7100686       | Time Clock | 9" X 48"          | 1                | 10            | 4                   | <15                 | 4.5            | 16" X 10" X 55"       |
| PWFGAC15  | 7100687       | Time Clock | 10" X 54"         | 1.5              | 10            | 6                   | <15                 | 5.3            | 16" X 11" X 62"       |
| PWFGAC2   | 7100688       | Time Clock | 12" X 52"         | 2                | 30            | 8                   | <15                 | 7.5            | 17" X 13" X 60"       |
| PWFGAC3   | 7100689       | Time Clock | 14" X 65"         | 3                | 40            | 11                  | <15                 | 10             | 18" X 14" X 74"       |
| PWFGAC4   | 7100690       | Time Clock | 16" X 65"         | 4                | 60            | 14                  | <15                 | 11             | 20" X 17" X 74"       |

\*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 please 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-PWFGAC](#).



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



## Series PWFMT

### Residential Sediment Backwashing Filter System

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

**Flow Rates:** Up to 21 gpm (79 lpm)

Watts Whole House filters for superior sediment removal.

Watts filtration systems for sediment removal use our high performance Micro Z™ filter media to provide increased loading capacities and higher service flow rates. Micro Z™'s unique external surface offers increased porosity to out perform sand filters by reducing water consumption. A Micro Z™ filter bed holds 2.8 times the amount of solids a sand bed holds, reducing backwash requirements by almost three times.

#### FEATURES

- High service flow rates
- Superior filtration performance!
- Reliable equipment designed for long-term service
- Reduces water consumption because the need to backwash is less
- High solids loading
- 3-5 micron particle size removal
- Single media filter bed

#### MEDIA

Our Micro Z™ is a special highly efficient granular filter media that has a nominal particle size removal of 3-5 micron. Compare that to sand at 30 micron. Micro Z™ allows sediment to penetrate deep into the bed for high loading efficiencies to reduce backwash demands and overall wastewater generation.

#### CONTROL VALVE

Manufactured from high-tech materials, the PWF Series valve has been engineered and tested to perform in the most demanding environments. It has built a reputation of 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 are no longer a concern.

#### REDUCES

- ✓ Sediment

#### FILTER TANK

Features a non-corrosive fiberglass tank with a thermoplastic inner liner. The tanks are NSF/ANSI Standard 44 or 61 certified.



PWFMT

Teflon® is a registered trademark of E. I. du Pont de Nemours and Company or its affiliates.

| MODEL NO. | ORDERING CODE | VALVE      | MINERAL TANK SIZE | MEDIA CUBIC FOOT | GRAVEL (LBS.) | SERVICE FLOW (GPM)* | PRESSURE DROP (PSI) | BACKWASH (GPM) | FLOOR SPACE L X W X H |
|-----------|---------------|------------|-------------------|------------------|---------------|---------------------|---------------------|----------------|-----------------------|
| PWFMT1    | 7100691       | Time Clock | 9" X 48"          | 1                | 10            | 5-9                 | 15                  | 5.3            | 16" x 10" x 55"       |
| PWFMT15   | 7100692       | Time Clock | 10" X 54"         | 1.5              | 10            | 7-10                | 15                  | 7.5            | 16" x 11" x 62"       |
| PWFMT2    | 7100693       | Time Clock | 12" X 52"         | 2                | 30            | 9-15                | 15                  | 11             | 17" x 13" x 60"       |
| PWFMT3    | 7100694       | Time Clock | 14" X 65"         | 3                | 40            | 13-21               | 15                  | 15             | 18" x 14" x 74"       |

\*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 please 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-PWFMT.



#### WARNING

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

## Series PWBWIRON

### Whole House Iron, Hydrogen Sulfide, and Manganese Reduction Systems

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

**Flow Rate: Up to 12 gpm (45 lpm)**

**Watts Whole House Filters for iron, hydrogen sulfide (rotten egg smell), and manganese reduction**

Our Whole House Iron Systems are a unique, chemical free, approach to reducing red staining iron, rotten egg smelling hydrogen sulfide, and black staining manganese in your water. These systems use the natural air we breathe to charge the water with oxygen. Together the oxygen and contaminants are introduced onto the surface of our catalytic filtration media. The media uses the oxygen to oxidize the contaminants and then traps the impurities.

#### BENEFITS

- No chemicals needed for regeneration.
- High flow rates with smaller system space requirements than competing models.
- No bad tastes, odors, or staining caused by iron, hydrogen sulfide, or manganese.
- Crystal clear water for drinking, bathing, and cooking.
- User-friendly equipment.
- Low maintenance due to automatic operation

#### MEDIA

Our Filox media is an advanced form of manganese dioxide (MD). Virtually all iron, hydrogen sulfide, and manganese removal medias have some percentage of MD. At 80% or greater, Filox boasts the highest percentage of MD and the highest flow rates per cubic foot of all of the iron removal medias on the market today. Filox is NSF/ANSI Standard 61 Certified.

#### AIO CONTROL VALVE

Manufactured from fiber reinforced polymer, the AIO control valve has been engineered for durability and time tested with proven results. It controls the operation of the system including the air draw and air volume control function. The proprietary design features a polymer piston that glides through a series of seals and spacers. This seal/spacer and piston configuration is the most reliable design in control valve technology. The valve features an electronic controller for easy programming.

#### FILTER TANK

Features a highly corrosion resistant NSF certified fiberglass tanks with a thermoplastic inner liner. The tanks are NSF/ANSI Standard 44 or 61 certified.

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



PWBWIRON

#### REDUCES

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

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

| MODEL NO.   | ORDERING CODE | VALVE      | MINERAL TANK SIZE | MEDIA CUBIC FOOT | GRAVEL (LBS.) | SERVICE FLOW (GPM)* | PRESSURE DROP (PSI) | BACKWASH (GPM) | FLOOR SPACE L X W X H |
|-------------|---------------|------------|-------------------|------------------|---------------|---------------------|---------------------|----------------|-----------------------|
| PWBWIRON1   | 7100479       | Time Clock | 9" x 48"          | 1                | 14            | 6                   | <15                 | 7              | 16" x 15" x 55"       |
| PWBWIRON1.5 | 7100480       | Time Clock | 10" x 54"         | 1.5              | 14            | 9                   | <15                 | 8              | 16" x 15" x 62"       |
| PWBWIRON2   | 7100481       | Time Clock | 12" x 52"         | 2                | 37            | 12                  | <25                 | 12             | 17" x 15" x 60"       |

\*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 please contact your Watts representative.

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

#### ⚠ WARNING

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

## Series PWFCAL

### Whole House Acidic Water Neutralizing Systems

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

**Flow Rate: Up to 21 gpm (79 lpm)**

**Watts Whole House System for increasing the pH of acidic water.**

Series PWFCAL acid neutralizing system are designed for residential applications with intermittent flow rates up to 21 gallons per minute. They stop the corrosion of metal components and fixtures within a plumbing system by neutralizing the acidic nature of supply water that has a pH of less than 7. Periodic backwashing of the media bed cleans it of captured impurities.

#### FEATURES

- Increases the pH of acidic water
- Eliminates the corrosion of plumbing and fixtures caused by low pH water
- No more "green stain" copper deposits in tubs, toilets, and sinks
- Better tasting pH balanced water
- User-friendly equipment
- 10" diameter tanks and larger have a dome hole access port on the top for checking and adding media
- Low maintenance due to automatic operation

#### MEDIA

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.

#### CONTROL VALVE

Manufactured from high-tech materials, the PWF Series valve has been engineered and tested to perform in the most demanding environments. It has built a reputation of 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 are no longer a concern.

#### FILTER TANK

Features a fiberglass tank with a thermoplastic inner liner. The tanks are NSF/ANSI Standard 44 or 61 certified.



PWFCAL

#### ADDRESSES

- ✓ Low pH

| MODEL NO. | EDP ORDERING CODE | VALVE      | MINERAL TANK SIZE | MEDIA CUBIC FOOT | GRAVEL (LBS.) | PEAK SERVICE FLOW (GPM)* | PRESSURE DROP (PSI) | BACKWASH (GPM) | FLOOR SPACE L X W X H |
|-----------|-------------------|------------|-------------------|------------------|---------------|--------------------------|---------------------|----------------|-----------------------|
| PWFCAL15  | 7100695           | Time Clock | 10" X 54"         | 1.5              | 10            | 7-10                     | <15                 | 7.5            | 16" X 11" X 62"       |
| PWFCAL2   | 7100696           | Time Clock | 12" X 52"         | 2                | 30            | 9-15                     | <15                 | 11             | 17" X 13" X 60"       |
| PWFCAL3   | 7100697           | Time Clock | 14" X 65"         | 3                | 40            | 13-21                    | <15                 | 15             | 18" X 14" X 74"       |

\*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 please 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-PWFCAL.



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

## 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 gpm Chemical Feed Pump | 45    | 10              | 100 | 120v/60Hz | 1/4"                         | 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.

### Whole House Retention Tank

| 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

\*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.

**⚠ WARNING** Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. Systems certified for cyst reduction may be used on disinfected waters that may contain filterable cysts.



## Series OFRES

### Whole House OneFlow® Residential Anti-Scale Systems

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

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

OneFlow® Residential Anti-Scale Systems provide a home with protection from internal hardness related to scale formation on plumbing surfaces. Water using appliances and plumbing fixtures also enjoy a longer lifespan because hardness scale build up on internal parts is significantly reduced.

These systems are specifically designed for residential applications. OneFlow® Residential systems should be installed at the point-of-entry to a home to treat both the hot and the cold water. OneFlow® Residential systems prevent scale by transforming dissolved hardness minerals into harmless, inactive microscopic crystal particles. These crystals stay suspended in the water and are passed to drain, thereby having a greatly reduced ability to react negatively like dissolved hardness does. These systems require very little maintenance, no backwashing, no salt, and no electricity. Typical hardness problems, especially build-up of scale in pipes, water heaters, boilers, fixtures, and appliances, are significantly reduced. OneFlow® Residential systems are not water softeners or chemical additives (like anti-scalants or sequestrants). They are scale prevention devices with proven third party laboratory test data and years of successful applications. OneFlow® Residential systems are the one water treatment device that effectively provides scale protection in the home and are a great salt-free alternative to water softening (ion exchange) or scale sequestering chemicals.

#### BENEFITS

- Chemical free scale prevention and protection – converts hardness minerals to harmless, inactive microscopic crystals making OneFlow® an effective salt-free alternative technology to a water softener for the prevention of scale due to water hardness
- Virtually maintenance free – No salt bags or other chemicals to constantly add
- No control valve, no electricity and no wastewater
- Environmentally-friendly technology
- Improves efficiency of all water using appliances – both hot\* and cold
- Simple sizing & installation
- Excellent 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 pretreatment to reverse osmosis (OneFlow® should be the last stage in treatment unless a point-of-use system is being used downstream.)
- Systems include a bypass valve for a simplified installation



OFRES

#### NOTICE

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

#### REDUCES

- ✓ Scale

#### 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 |

For additional information, access online literature ES-OFRES.

| 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 | 7100487       | 1" MNPT         | 8" X 35"          | 2            | 8                           | <15                   | 13" X 9" X 40"          |
| OFRES-0935 | 7100488       | 1" MNPT         | 9" X 35"          | 3            | 12                          | <15                   | 13.5" X 10" X 40"       |
| OFRES-1035 | 7100489       | 1" MNPT         | 10" X 35"         | 4            | 16                          | <15                   | 14" X 11" X 40"         |

## Model OFPSYS

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

**Connection Sizes: 1"**

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

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

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

#### FEATURES

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



#### REDUCES

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

#### Replacement Cartridges

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

For additional information, access online literature ES-OFPSYS

## Models OFTWH-R and OFTWH

### OneFlow® Anti-Scale Systems for Residential Tankless Water Heaters

**Connection Sizes:** ¾" (20mm)

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

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

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

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

#### FEATURES

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

#### REDUCES

- ✓ Scale



OFTWH-R



OFTWH

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

#### Model

| MODEL NO. | ORDERING CODE | PEAK FLOW RATE    | CONNECTION SIZE |
|-----------|---------------|-------------------|-----------------|
| 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-R | 0002189       | Cartridge should be replaced every 2 YEARS. |
| OFTWHRM    | 0002183       | Cartridge should be replaced every 2 YEARS. |

## Series PWSR

### Residential and Light Commercial Water Softeners

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

**Flow Rate: Up to 23 gpm (87 lpm)**

The Series PWSR water softeners are designed for residential and light commercial use applications ranging from 30,000 to 90,000 grains of hardness removal capacity at flow rates up to 23 gallons per minute.

#### FEATURES

- 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
- Weather resistant enclosures
- Full flow bypass valve included

#### PWSR SERIES CONTROL VALVE

Manufactured from high-tech materials, the PWSR Series valve has been engineered and tested to perform in the most demanding environments. It has built a reputation of 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 are no longer a concern.

#### ELECTRONIC CONTROL

The PWSR 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 long, dependable life.

#### RESIN TANK

Features a non-corrosive fiberglass tank with thermoplastic inner lining

#### 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. Brine refill is controlled by the advanced electronic controller, to provide the correct amount of brine for each regeneration



PWSR

**REDUCES**

✓ Scale

#### PWSR

| MODEL NO.                                  | PWSR130       | PWSR145       | PWSR160       | PWSR190       |
|--|---------------|---------------|---------------|---------------|
| Ordering code                              | 7100681       | 7100495       | 7100496       | 7100682       |
| Max/Min Ion Exchange Capacity              | 30,000/20,000 | 45,000/30,000 | 60,000/40,000 | 90,000/60,000 |
| Lbs. of salt required for Max/Min capacity | 15-6          | 22.5-9        | 30-12         | 45-18         |
| Salt Storage Capacity                      | 350           | 350           | 350           | 400           |
| Flow Rate in GPM @ 15 PSI Drop             | 9-12          | 12-16         | 15-20         | 18-23         |
| Backwash Flow Rate GPM                     | 2.2           | 2.7           | 3.5           | 4.2           |
| Drain Line Connection Size                 | ¾" NPT        | ¾" NPT        | ¾" NPT        | ¾" NPT        |
| Inlet/Outlet Pipe Size                     | 1"            | 1"            | 1"            | 1"            |
| Electrical Requirements                    | 120V/60Hz     | 120V/60Hz     | 120V/60Hz     | 120V/60Hz     |
| Mineral Tank Size                          | 9" x 48"      | 10" x 54"     | 12" x 52"     | 14" x 65"     |
| Brine Tank Size                            | 18" x 36"     | 18" x 36"     | 18" x 36"     | 18" x 40"     |
| Floor space required in inches W x D       | 31" x 19"     | 32" x 19"     | 34" x 19"     | 35" x 19"     |
| Approximate Shipping Weight Lbs.           | 110           | 130           | 190           | 265           |

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



## Series PWSRTA Twin Alternating Water Softeners

**Connection Size: 30K – 60K 1" (25mm)**  
**Flow Rates: Up to 21 gpm (80 lpm)**

The Series PWSRTA water softeners are designed for residential and light commercial use applications ranging from 30,000 to 60,000 grains of hardness remove capacity at flow rates up to 21 gallons per minute. These water softeners with control valves that offer twin-alternating meter initiated operation, resulting in 24/7 soft water capability.

### FEATURES

- Suitable for residential and light commercial applications
- 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
- Brine tanks with grid plate for maximum brine storage
- Full flow bypass valve included

### ELECTRONIC CONTROL

The PWSRTA 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 long, dependable life.

### RESIN TANK

Features a non-corrosive fiberglass tank with thermoplastic inner liner.

### 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. Brine refill is controlled by the advanced electronic controller, to provide the correct amount of brine for each regeneration.



PWSTA

### REDUCES

- ✓ Scale

### PWSRTA SERIES

#### CONTROL VALVE

Manufactured from high-tech materials, the PWSRTA Series valve has been engineered and tested to perform in the most demanding environments. It has built a reputation of 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 are no longer a concern.

### PWSRTA

|   | PWSRTA130     | PWSRTA145     | PWSRTA160     |
|---|---------------|---------------|---------------|
| Ordering Code                             | 7100683       | 7100684       | 7100685       |
| Max/Min Ion Exchange Capacity             | 30,000/20,000 | 45,000/30,000 | 60,000/40,000 |
| Lbs of salt required for Max/Min capacity | 15-6          | 22.5-9        | 30-12         |
| Salt Storage Capacity                     | 400           | 400           | 400           |
| Flow Rate in GPM @ 15 PSI Drop            | 13 - 19       | 14 - 21       | 15 - 21       |
| Backwash Flow Rate GPM                    | 2.2           | 2.7           | 3.2           |
| Drain Line Connection Size                | 3/4" NPT      | 3/4" NPT      | 3/4" NPT      |
| Inlet/Outlet Pipe Size                    | 1"            | 1"            | 1"            |
| Electrical Requirements                   | 120v/60Hz     | 120v/60Hz     | 120v/60Hz     |
| Mineral Tank Size D X H                   | (2) 9" X 48"  | (2) 10" x 54" | (2) 12" x 52" |
| Brine Tank Size D X H                     | 18" x 40"     | 18" x 40"     | 18" x 40"     |
| Approximate Shipping Weight Lbs           | 230           | 290           | 420           |



### WARNING

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

## Series WA

### SmartStream® Disinfection Systems

Ultraviolet (UV) is a water treatment disinfection technology that is highly effective inactivating many species of disease-causing micro-organisms. A Series UV systems are an improved version of the Watts UV (PWUV) line we previously offered. Replacement lamps, quartz sleeves, sleeve o-ring, and controllers are all interchangeable between the WA and the A Series. The new upgrades include a two piece quartz sleeve nut with grounding screw, a lamp power wire strain relief in the quartz sleeve nut and a reconfigured inlet and outlet port arrangement.

#### FEATURES & BENEFITS

- 304 highly polished stainless steel reactor chambers
- Electrically grounded UV chamber
- Strain relief for lamp power wire built into quartz sleeve nut
- High output and high efficiency 9000 hour rated lamps
- Universal power input 100v-240v 50/60Hz
- NPT and BSP-Tapered thread options
- Audible and visual alarm to indicate lamp failure
- Simple sizing & installation



#### APPLICATIONS

Wells, Homes, Water systems, Aquaculture, Foodservice, Water coolers, RO systems

#### SMARTSTREAM A SERIES CONTROLLER

Designed with simplicity in mind. Input power between 100-240VAC 50/60 Hz is converted to the correct voltage required by the lamp for the production of UV light.

During normal operation, the LED indicator will be illuminated green. If the lamp burns out then an audible alarm will sound and the Green/Red LED Indicator will change from Green to Red. This informs the user that the system requires servicing.

#### Watts SmartStream UV Systems

| MODEL NO. | ORDERING CODE | FLOW RATE (GPM) | PIPE SIZE | ELECTRICAL | DIMENSIONS (L X H X W) | SHIPPING WEIGHT |      |
|-----------|---------------|-----------------|-----------|------------|------------------------|-----------------|------|
|           |               |                 |           |            |                        | LBS.            | KGS. |
| WA002ABAX | 7100671       | 2               | 3/8" MNPT | 120V/US    | 18" X 6" X 5"          | 4.8             | 2.2  |
| WA002ABBX | 7100675       | 2               | 3/8" MNPT | 220V/EU    | 18" X 6" X 5"          | 4.8             | 2.2  |
| WA006ADAX | 7100672       | 6               | 3/4" MNPT | 120V/US    | 26" X 6" X 5"          | 6.6             | 3    |
| WA006ADBX | 7100676       | 6               | 3/4" MNPT | 220V/EU    | 26" X 6" X 5"          | 6.6             | 3    |
| WA008ADAX | 7100673       | 8               | 3/4" MNPT | 120V/US    | 35" X 7.5" X 7"        | 9               | 4.1  |
| WA008ADBX | 7100677       | 8               | 3/4" MNPT | 220V/EU    | 35" X 7.5" X 7"        | 9               | 4.1  |
| WA012AEAX | 7100674       | 12              | 1" MNPT   | 120V/US    | 44" X 7.5" X 7"        | 11              | 5    |
| WA012AEBX | 7100678       | 12              | 1" MNPT   | 220V/EU    | 44" X 7.5" X 7"        | 11              | 5    |

#### Watts SmartStream A Series Lamps, Quartz Sleeves, Sleeve O-ring and Ballasts

| MODEL NO. | REPLACEMENT LAMP | ORDERING CODE | REPLACEMENT SLEEVE | ORDERING CODE | REPLACEMENT SLEEVE O-RING | ORDERING CODE | REPLACEMENT BALLAST | ORDERING CODE |
|-----------|------------------|---------------|--------------------|---------------|---------------------------|---------------|---------------------|---------------|
| WA002ABAX | WUVBULB2         | 7100163       | WUVQS2             | 7100169       | PWUVSSOR                  | 7300824       | PWAA002BST          | 7300820       |
| WA002ABBX | WUVBULB2         | 7100163       | WUVQS2             | 7100169       | PWUVSSOR                  | 7300824       | PWAA002ABBX         | 7300822       |
| WA006ADAX | WUVBULB6         | 7100164       | WUVQS6             | 7100170       | PWUVSSOR                  | 7300824       | PWAA006-12BST       | 7300821       |
| WA006ADBX | WUVBULB6         | 7100164       | WUVQS6             | 7100170       | PWUVSSOR                  | 7300824       | PWAA006ABDX         | 7300823       |
| WA008ADAX | WUVBULB8         | 7100165       | WUVQS8             | 7100171       | PWUVSSOR                  | 7300824       | PWAA006-12BST       | 7300821       |
| WA008ADBX | WUVBULB8         | 7100165       | WUVQS8             | 7100171       | PWUVSSOR                  | 7300824       | PWAA006ABDX         | 7300823       |
| WA012AEAX | WUVBULB12        | 7100166       | WUVQS12            | 7100172       | PWUVSSOR                  | 7300824       | PWAA006-12BST       | 7300821       |
| WA012AEBX | WUVBULB12        | 7100166       | WUVQS12            | 7100172       | PWUVSSOR                  | 7300824       | PWAA006ABDX         | 7300823       |

#### Watts SmartStream System Part Number Identification Key

| PREFIX "W" | CONTROLLER SERIES | GPM                      | CONNECTION TYPE          | PIPE SIZE                              | PLUG                                       | ACCESSORIES       |
|------------|-------------------|--------------------------|--------------------------|--|--|-------------------|
| Watts      | Controller A      | GPM of System (3-Digits) | A: NPT<br>B: BSP-Tapered | B: 3/8"<br>C: 1/2"<br>D: 3/4"<br>E: 1" | A: North American 120V<br>B: European 220V | X: No Accessories |

For additional information, access online literature [ES-WQ-SmartStream-A](#)

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

## Micro Z®

### Superior Filtration Media

**Connection Size: 30K – 60K 1" (25mm)**

**Flow Rates: Up to 21 gpm (80 lpm)**

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 lbs. per cu. ft. |
| Specific gravity      | 2.2 gm/cc           |
| Mesh size             | 14x40               |
| Uniform coefficient   | 1.9                 |
| Hardness (Mohs scale) | 4                   |

#### CONDITIONS OF OPERATION

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

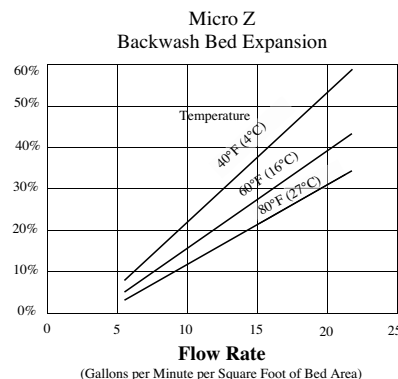
#### NOTICE

Allow bed to soak overnight before initial backwash.



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

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



#### MICRO-Z Loading Information

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

#### Ordering Information

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



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

## 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<br>FEET PER BAG | CONTAINER<br>WT. (LBS.) | PER<br>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.

#### ⚠ WARNING

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

## Catalytic® Granular Activated Carbon

### Hydrogen sulfide, iron and chloramines removal

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

#### FEATURES & BENEFITS

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



#### Specification

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

#### Typical Properties

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

#### 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. (LBS.) | 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.

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



## Iron, Hydrogen Sulfide, and Manganese Reduction

### Filox™ Media

Filox™ media is an economical Iron and Hydrogen Sulfide filtration media that outperforms 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 lbs/cu.ft.   |

#### Removal Capacity

|                  |        |
|------------------|--------|
| Iron             | 10 ppm |
| Hydrogen Sulfide | 3 ppm  |
| Manganese        | 5 ppm  |

#### Comparative Information

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

#### Ordering Information

| MODEL NUMBER | ORDERING CODE | DESCRIPTION  | APPLICATION                              | CUBIC FEET PER BAG | CONTAINER WT. (LBS.) | 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

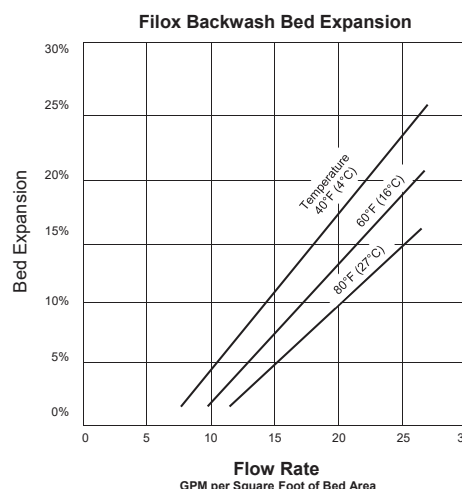
Oxidation Reduction Potential (ORP) can be the most important factor to take into consideration in certain waters. Highly reducing waters may cause premature exhaustion or even destruction of the Filox™ bed. Precautions can be taken prior to installation that can prevent ORP problems. Use one of the 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.

#### Simple Filox™ ORP Test Kit EDP#7300707 Instruction

1. Rinse bottle provided with sample water to be tested
2. Place sample water into bottle up to the fill line



3. Invert reagent dropper bottle 3 times to ensure it is thoroughly mixed
  4. Remove reagent cap and add 1 drop of reagent into the bottle containing water sample
  5. Cap sample bottle and invert
  6. Let solution stand for 15 minutes
  7. If solution remains pink, Filox™ can likely be used without using additional oxidizers
  8. If solution does not remain pink and turns yellow or clear, additional oxidizers such as chlorine should be added upstream of the Filox™ system.
- Note: If treating high levels or multiple contaminants, additional oxidants may be required even if the water passes this simple test.

#### ORP Meter Test

##### NOTICE

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

## 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/ft <sup>3</sup>     |
| Bead count       | min. 90%                    |
| Water retention  | 45-48%                      |
| Total capacity   | >2.0meq/l                   |
| Volume change    | Na+ - H+ <5%                |
| Stability, temp. | <300°F                      |
| Stability pH     | 0 - 14                      |

### Design Conditions

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

### Ordering Information

#### RESIN

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



#### WARNING

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

## Series PWRO440

### Whole House Reverse Osmosis Systems Floor Mount

**Connection Size:** ¾" (20mm)

**Max. Productivity:** 2200, 4400 and 6600 gallons per day

Watts Pure Water Whole House Floor Mount Reverse Osmosis System with adjustable recovery. The Series PWRO440 uses advanced design with state-of-the art technologies and high-quality components to assure years of trouble-free performance. Includes many standard features that are only available as options on other reverse osmosis systems.

#### FEATURES

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

- Feed water and product water TDS monitor
- Pump start delay
- Inlet valve close delay

#### ADDED CAPABILITIES

- Input for auto shutoff when storage tank is full
- Input for auto shutoff when pre-treatment is in regeneration

#### APPLICATIONS

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

#### NOTICE

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

RO system requires separate RO storage tank/delivery pump - see page 28 or call Pure Water Technical Support at 1.800.224.1299 for details

For indoor installation only.



PWRO440

#### Performance

|  | PWRO4401                                | PWRO4402                                | PWRO4403                                |
|--|---|---|---|
| Ordering Code                                  | 7100152                                 | 7100153                                 | 7100154                                 |
| Maximum Productivity (gallons per day) / (lpm) | 2200 / 8328                             | 4400 / 16,656                           | 6600 / 24,984                           |
| Recovery (user adjustable)                     | 15 - 75%                                | 25 - 75%                                | 32 - 75%                                |
| Replacement Pre-Filter                         | PWMB20M5                                |   |   |
| Number of Membranes                            | 1                                       | 2                                       | 3                                       |
| Replacement Membrane                           | PWMEM2200                               |   |   |
| Feed Water Required (maximum)                  | 10 gpm (38 lpm)                         | 12 gpm (45 lpm)                         | 14 gpm (53 lpm)                         |
| Drain Required (maximum)                       | 10 gpm (38 lpm)                         | 12 gpm (45 lpm)                         | 14 gpm (53 lpm)                         |
| Motor Horse Power                              | ¾                                       | 1                                       | 1½                                      |
| Electrical Requirement AMPS                    | 15   8                                  | 20   10                                 | 13*   13                                |
| Dimensions W x D x H                           | 20" x 20" x 50"<br>(600 x 600 x 1270mm) | 20" x 20" x 50"<br>(600 x 600 x 1270mm) | 20" x 26" x 50"<br>(600 x 600 x 1270mm) |
| Shipping Weight (estimated lbs.)               | 120 lbs. / 54 kgs.                      | 150 lbs. / 68 kgs.                      | 180 lbs. / 82 kgs.                      |

\*PWRO4403 is available only in 230-volt single phase

For additional information, access online literature ES-WQ-PWRO440.

#### Notes:

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

## Series PWTNKPKG

### Atmospheric Tank and Pump Packages

**Sizes: 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® MQ 3-45 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
- Individual Boxed Plastic Housing Kits



Blue/Black



Clear



Housing Kit



## Plastic Filter Housings

### Top Quality and Economical Plastic Filter Housings

#### Single Cartridge Filter Housings

Sizes: ¼" – 1½" (6 – 40mm)

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 & screws and wrench

| MODEL NO.    | ORDERING CODE | SIZE | PIPE | TYPE           | SUMP  | CAP   | CASE QTY. |
|--------------|---------------|------|------|----------------|-------|-------|-----------|
| PWHIB34VIH*  | 7100267       | 10"  | 3/4" | Valve-In-Head  | Clear | White | 4         |
| PWHIB10FF*   | 7100268       | 10"  | 1"   | Full Flow (FF) | Blue  | Black | 4         |
| PWHIB10FFCL* | 7100516       | 10"  | 1"   | Full Flow (FF) | Clear | Black | 4         |
| PWHIB20FF*   | 7100269       | 20"  | 1"   | Full Flow (FF) | Blue  | Black | 4         |



PWHIB10FF

## Poly Filter Housing

| MODEL NO. | ORDERING CODE | SIZE | PIPE | SUMP | CAP | # CASE |
|-----------|---------------|------|------|------|-----|--------|
|-----------|---------------|------|------|------|-----|--------|

### White Housings

|          |         |    |      |       |       |    |
|----------|---------|----|------|-------|-------|----|
| PWHP512W | 7100589 | 5" | 1/2" | White | White | 12 |
|----------|---------|----|------|-------|-------|----|

### Clear Housings

|              |         |     |      |       |          |   |
|--------------|---------|-----|------|-------|----------|---|
| PWHP1014CPR  | 7100271 | 10" | 1/4" | Clear | White PR | 4 |
| PWHP1012CPR  | 7100273 | 10" | 1/2" | Clear | White PR | 4 |
| PWHP1034CPR  | 7100275 | 10" | 3/4" | Clear | White PR | 4 |
| PWHP10FF1CPR | 7100284 | 10" | 1"   | Clear | Black PR | 4 |
| PWHP20FF1CPR | 7100285 | 20" | 1"   | Clear | Black PR | 4 |

### 10" Residential Housings

|             |         |     |      |      |          |   |
|-------------|---------|-----|------|------|----------|---|
| PWHP1014BPR | 7100277 | 10" | 1/4" | Blue | Black PR | 4 |
| PWHP1012BPR | 7100279 | 10" | 1/2" | Blue | Black PR | 4 |
| PWHP1034BPR | 7100281 | 10" | 3/4" | Blue | Black PR | 4 |

### 20" Residential Housings

|             |         |     |      |      |          |   |
|-------------|---------|-----|------|------|----------|---|
| PWHP2012BPR | 7100283 | 20" | 1/2" | Blue | Black PR | 6 |
|-------------|---------|-----|------|------|----------|---|

### 10" Commercial Housings

|                |         |     |      |       |   |   |
|----------------|---------|-----|------|-------|---|---|
| PWHP10COM34CPR | 7100668 | 10" | 3/4" | Clear | 6 | 6 |
| PWHP10COM34BPR | 7100669 | 10" | 3/4" | Blue  | 6 | 6 |

### 20" Commercial Housings

|                |         |     |      |       |   |   |
|----------------|---------|-----|------|-------|---|---|
| PWHP20COM34CPR | 7100644 | 20" | 3/4" | Clear | 6 | 6 |
| PWHP20COM34BPR | 7100670 | 20" | 3/4" | Blue  | 6 | 6 |

### 10" Full Flow Housings

|               |         |     |        |      |          |   |
|---------------|---------|-----|--------|------|----------|---|
| PWHP10FF34BPR | 7100286 | 10" | 3/4"   | Blue | Black PR | 4 |
| PWHP10FF1BPR  | 7100288 | 10" | 1"     | Blue | Black PR | 4 |
| PWHP10FF15BPR | 7100290 | 10" | 1 1/2" | Blue | Black PR | 4 |

### 20" Full Flow Housings

|               |         |     |        |      |          |   |
|---------------|---------|-----|--------|------|----------|---|
| PWHP20FF34BPR | 7100291 | 20" | 3/4"   | Blue | Black PR | 4 |
| PWHP20FF1BPR  | 7100293 | 20" | 1"     | Blue | Black PR | 4 |
| PWHP20FF15BPR | 7100295 | 20" | 1 1/2" | Blue | Black PR | 4 |

### High Temp Housings (200°F / 93°C)

|            |         |     |      |     |     |   |
|------------|---------|-----|------|-----|-----|---|
| PWHPHT1034 | 7100296 | 10" | 3/4" | Red | Red | 4 |
| PWHPHT2034 | 7100297 | 20" | 3/4" | Red | Red | 4 |

### Mounting Brackets - includes housing mounting screws

|          |         |  |   |
|----------|---------|--|---|
| PWMBVIH  | 7300605 | Brkt, VIH Housing                      | 1 |
| PWMBSTD1 | 7100463 | Single, 10" & 20" Residential Housings | 1 |
| PWMBSTD2 | 7100464 | Double, 10" & 20" Residential Housings | 1 |
| PWMBSTD3 | 7100465 | Triple, 10" & 20" Residential Housings | 1 |
| PWMBCOM1 | 7300808 | Single 10" & 20" Commercial Hsg        | 1 |
| PWMBFF1  | 7100466 | Single, 10" & 20" Full Flow Housing    | 1 |
| PWMBFF2  | 7100467 | Double, 10" & 20" Full Flow Housing    | 1 |
| PWMBFF3  | 7100468 | Triple, 10" & 20" Full Flow Housing    | 1 |

### Wrenches

|            |         |  |   |
|------------|---------|--|---|
| PWWRSTDHSG | 7100298 | Wrench for Residential Housings                          | 1 |
| PWWRFFHSG  | 7100299 | Wrench for Full Flow Housing                             | 1 |
| PWWRHTHSG  | 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 |
| PWORHTHSG  | 7300399 | O-Ring for high temp housings  | 1 |
| PWORCOMHSG | 7300807 | O-Ring for Commercial Housings | 1 |



Blue/Black



Clear

- 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 (75 lpm) 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



NSF/ANSI STD 372 & 42

## Standard Diameter (2½")

| MODEL NO.   | ORDERING CODE | LENGTH | OD  | MICRON | NO. / CASE | WEIGHTS |      |
|---|---------------|--------|-----|--------|------------|---------|------|
|   |               |        |     |        |            |         |      |
| 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"

|             |         |     |     |    |   |     |     |
|-------------|---------|-----|-----|----|---|-----|-----|
| <b>9¾"</b>  |         |     |     |    |   |     |     |
| 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"

|             |         |     |     |    |   |   |     |
|-------------|---------|-----|-----|----|---|---|-----|
| <b>20"</b>  |         |     |     |    |   |   |     |
| 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](#)



## WARNING

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

## 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

#### SPECIFICATIONS

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 (2 1/2")

| MODEL NO. | ORDERING CODE | LENGTH | OD     | MICRON | NO. / CASE | WEIGHTS |      |
|-----------|---------------|--------|--------|--------|------------|---------|------|
|           |               |        |        |        |            | lbs.    | kgs. |
| PWSW10M1  | 7100356       | 9 7/8" | 2 1/2" | 1      | 12         | 12.0    | 5.4  |
| PWSW10M5  | 7100357       | 9 7/8" | 2 1/2" | 5      | 12         | 12.0    | 5.4  |
| PWSW10M20 | 7100358       | 9 7/8" | 2 1/2" | 20     | 12         | 12.0    | 5.4  |
| PWSW10M50 | 7100359       | 9 7/8" | 2 1/2" | 50     | 12         | 12.0    | 5.4  |
| PWSW20M1  | 7100360       | 20"    | 2 1/2" | 1      | 6          | 13.5    | 6.1  |
| PWSW20M5  | 7100361       | 20"    | 2 1/2" | 5      | 6          | 13.5    | 6.1  |
| PWSW20M20 | 7100362       | 20"    | 2 1/2" | 20     | 6          | 6       | 6.1  |
| PWSW20M50 | 7100363       | 20"    | 2 1/2" | 50     | 6          | 13.5    | 6.1  |

#### Full Flow (FF) 4 1/2" OD Cartridges

|             |         |        |        |    |   |     |     |
|-------------|---------|--------|--------|----|---|-----|-----|
| PWSW10FFM1  | 7100370 | 9 3/4" | 4 1/2" | 1  | 4 | 9.6 | 4.4 |
| PWSW10FFM5  | 7100371 | 9 3/4" | 4 1/2" | 5  | 4 | 9.6 | 4.4 |
| PWSW10FFM20 | 7100372 | 9 3/4" | 4 1/2" | 20 | 4 | 9.6 | 4.4 |
| PWSW10FFM50 | 7100373 | 9 3/4" | 4 1/2" | 50 | 4 | 9.6 | 4.4 |
| PWSW20FFM1  | 7100374 | 20"    | 4 1/2" | 1  | 4 | 9.6 | 4.4 |
| PWSW20FFM5  | 7100375 | 20"    | 4 1/2" | 5  | 4 | 9.6 | 4.4 |
| PWSW20FFM20 | 7100376 | 20"    | 4 1/2" | 20 | 4 | 9.6 | 4.4 |
| PWSW20FFM50 | 7100377 | 20"    | 4 1/2" | 50 | 4 | 9.6 | 4.4 |

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

5

pure water



## Series PWPL

### Pleated Filter Cartridges

**Greater surface area for longer life and 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 filter 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.



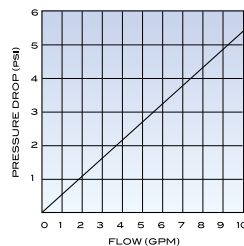
Pleated Filter Cartridges

#### FEATURES

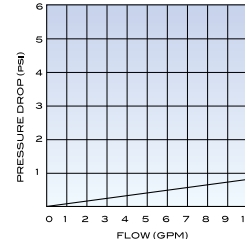
- Filter media is pleated for greater surface area
- Synthetic filter media is cellulose-free
- “Thicker” filter media has a greater capacity to capture and retain particles, compared to thin, more rigid media types, which have less void space for particle retention
- 0.35 media use a multi-ply laminate 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 & 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.

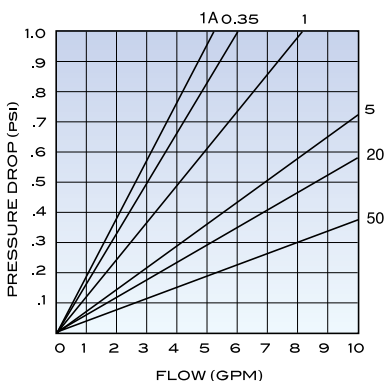


Depth Cartridge  
(5 micron)

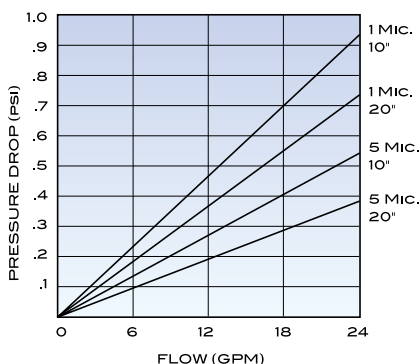


Pleated® Cartridge  
(5 micron)

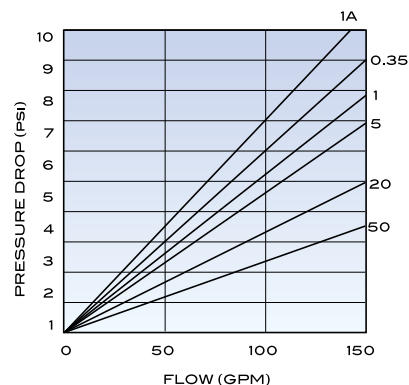
Use the pressure drop charts shown below to help determine the ideal flow rate for your particular application:



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:

| 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 | 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              |

## Standard 2¾" x 20" Length

| MODEL NO.  | ORDERING CODE | MEDIA TYPE | 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 | 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 | 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.



PWPL10FF

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

## 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)



PWCB

PWCFFB

#### 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](#).

## VOC, LCV Carbon Block and Lead Out Filters

### Volatile Organic Compounds (VOC)

This VOC filter is capable of reducing harmful VOCs such as MTBE's, lindane, atrazine, benzene, 2, 4-D, and others from your drinking water.

It is estimated that VOC's are present in one-fifth of the nation's water supplies. These water contaminants can enter ground water from a variety of sources including localized use of herbicides and pesticides, gasoline or oil spills, leaking underground fuel tanks, septic system cleaners, and chemicals used in the dry-cleaning industry.

### LCV (Lead, VOCs)

Carbon Block Filter Cartridges are specially formulated and independently tested and verified for the reduction of lead and volatile organic chemicals (VOC's), 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  |               |                          |                          |                         |           |
| PWCB10VOC | 7100450       | 2 3/4" | 70 | 9 3/4" | 248 | 1 Nominal     | 25,000 gallons @ 2 gpm   | N/A                      | 1,200 gallons @ 0.5 gpm | 12        |
| 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 only.**

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

## GAC Filter Replacement Cartridges

### Granular Activated Carbon (GAC) Cartridges

**Sizes: 2¾" x 10", 2¾" x 20", 4½" x 10", and 4½" x 20"**

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

#### Specifications

|                                    |   |
|------------------------------------|---|
| Media                              | Water washed coconut shell activated carbon         |
| Minimum / Maximum Working Pressure | 20psi / 125psi                                      |
| 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 |
|-------------|---------|----|-----|----------------|-------------------------|------|------|---|

#### In-line Filters with GAC and Calcite to balance pH

|             |         |    |     |             |                       |      |      |   |
|-------------|---------|----|-----|-------------|-----------------------|------|------|---|
| PWILGACCL10 | 7100456 | 2" | 10" | GAC/Calcite | Coconut shell/Calcite | 1/4" | FNPT | 6 |
|-------------|---------|----|-----|-------------|-----------------------|------|------|---|

#### 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 |
|--------------|---------|------|-----|---------|-------------------|------|------|---|

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 and Non Air Gap)
- Designer Watts Top Mount Drinking Water Faucet
- Designer RO Drinking Water Faucets — Series 703 and 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) |
|-----------|---------------|------------------|------------------------|-------------------|-----------------|-------|------------------------|
| PWROTNK3P | 7100173       | 3                | 3 Gallon Plastic Tank  | 10"               | 21"             | White | 1/4"                   |
| PWROTNK3  | 7100174       | 3                | 3 Gallon - Metal Tank  | 11"               | 16"             | White | 1/4"                   |
| PWROTNK14 | 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 40psi. 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) |
|-------------|---------------|--------------------------|-----------------|----------------|------------------|-------|-------|----------------|------------|
| PWPERMKIT   | 7100180       | Permeate Pump Kit        | -               | 1/4"           | 1/4"             | -     | -     | -              | -          |
| 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          |
| PWDLPMP4.9  | 7100183       | Booster Pump 5 GPM       | 5               | 1/2"           | 1/2"             | 115   | 50/60 | 125            | 2.2        |

## 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



PWFCT303



Chrome



Bronze



Brushed Nickel

#### 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



Series 905

#### 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        |
| PWFCT703OB | 7100214       | Ceramic Disc - Non Air Gap | Oil Rubbed Bronze | 30        |

#### Series 905 Faucets

| MODEL NO.  | ORDERING CODE | TYPE                       | FINISH         | CERTIFICATION   | CASE QTY. |
|------------|---------------|----------------------------|----------------|-----------------|-----------|
| PWFCT905CH | 7100215       | Ceramic Disc - Non Air Gap | Chrome         | NSF61 Certified | 30        |
| PWFCT905BN | 7100216       | Ceramic Disc - Non Air Gap | Brushed Nickel | NSF61 Certified | 30        |

For additional information, access online literature ES-WQ-PWFCT703905

#### ⚠ WARNING

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

## Series PWFCTTM

### Top Mount Faucets

Size: 3/8" (10mm)

#### 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

#### 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](#)







## USA

For Technical and Ordering Assistance, please call us at (800) 224-1299.

To locate your nearest Watts representative, please click on our *find a sales rep* locator on [Watts.com/PureWater](https://Watts.com/PureWater).

## CANADA

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

To locate your nearest Watts representative, please click on our *find a sales rep* locator on [Watts.ca/PureWater](https://Watts.ca/PureWater).

**Represented by:**

