# pure water

## Water Filtration and Treatment Wholesale Products Catalog

- Residential
- Commercial
- Industrial

Watts.com/PureWater

WATTS®

# Table of Contents

# 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

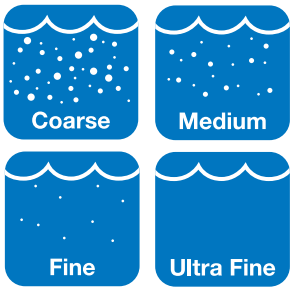

Shelving NOT INCLUDED

End Cap packaging now includes English, Spanish, and French languages

## NEW Icons Identify:

Contaminant Reduction


Filtration Effectiveness




## Ordering Codes & Recommended End Cap Product Selection

| Model | Description | Ordering Code | Case Quantity | Recommended Quantity for End Cap (includes replenishment) |
|---|---|---|---|---|
| End Cap Header, Laminated Chart, and Mounting Hardware | | 7300617 | 1 | 1 |
| PWDWLCV2 | LCV System (Reduction of Lead, Cyst, VOCs) | 7100101 | 1 | 2 |
| PWRO4 | Reverse Osmosis (RO) System | 7100103 | 1 | 2 |
| PWDWUFKC3 | Ultra Filtration (UF) System | 7100106 | 1 | 4 |
| PWROKC4 | Reverse Osmosis (RO) System | 7100107 | 1 | 2 |
| PWFPKSEDCB | Filter Pack | 7100110 | 1 | 3 |
| PWFPKLCV | Filter Pack | 7100111 | 1 | 2 |
| PWFPK2KC4 | Filter Pack | 7100116 | 1 | 6 |
| PWFPKKCUF | Filter Pack | 7100118 | 1 | 3 |
| PWHIB34VIH | Housing Kit | 7100267 | 4 | 4 |
| PWHIB10FF | Housing Kit | 7100268 | 4 | 4 |
| PWHIB20FF | Housing Kit | 7100269 | 4 | 4 |
| PWMB10M5 | Sediment Filter | 7100331 | 12 | 24 |
| PWMB10M50 | Sediment Filter | 7100335 | 12 | 12 |
| PWPL10FFM20 | Sediment Filter | 7100411 | 4 | 8 |
| PWCB10P | Carbon Filter | 7100446 | 12 | 24 |
| PWCB10FFP | Carbon Filter | 7100448 | 4 | 8 |
| PWCB20FFP | Carbon Filter | 7100449 | 4 | 8 |
| PWFILGAC10 | Inline GAC Filter | 7100454 | 6 | 24 |

* No charge when purchasing $2500.00USD worth of products for end cap display

# Water Test Kit

## Pure Water

## Water Testing and Equipment Recommendation Program

### Features

- The Water Test Kit includes a 250ml sample bottle, Water Analysis and Information form, and a prepaid postage return for your water sample.
- Our water analysis tests for the five most common problems in water conditions including Water Hardness, Iron, Total Dissolved Solids (TDS), ph, and Copper..
- Your customer sends their water sample to our San Antonio, TX facility for testing. Once tested, results and equipment recommendations will be forwarded to the Watts representative identified on the request form.


PWKIT-Water Test

| MODEL NO. | ORDERING CODE | DESCRIPTION | UPC | CASE QTY |
|---|---|---|---|---|
| PWKIT-Water Test | 7300092 | WPW Water Test Kit | 98268781410 | 1 |

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

# Filtration Systems

## Residential • Marine • RV

PWDWLCV2

PWDWUV3

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.

PWRO5MAN

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.)

## Drinking Water & Reverse Osmosis Part Number Matrix

**PW RO RO4ZRO**

**Pure Water**

**System Type**

DW = Drinking Water

RO = Reverse Osmosis

**System Model**

RVWG2 = Water Guard 2

LCV2 = Standard 2-Stage LCV

UV3 = Ultra Violet 3 Stage

KCUF3 = Kwik Change UF3

RO4 = Standard 4-Stage

RO4ZRO = Standard 4-Stage ZeroWaste®

5MAN = 5-Stage Manifold

KC4 = Kwik-Change 4-Stage

KCZRO = Kwik-Change ZeroWaste®

## Drinking Water & Reverse Osmosis Filter Kits Part Number Matrix

**PW FPK 4KC4**

**Pure Water**

**Filter Type**

FPK = Filter Pack

MEM = RO Membrane

**System Model**

SEDCB = Sediment & Carbon Block Cartridges (Std. RO & Std. ZeroWaste® RO)

LCV = Sediment and LCV Carbon Block Cartridges

UV3 = Ultra Violet 3 Stage (all cartridges and UV Bulb)

3MAN = Sediment and both Carbon Block Cartridges for Manifold RO

5MAN = All 5 replacement Cartridges including Membrane for Manifold RO

4RO4 = All 4 repl. Cartridges including Membrane for Std. RO & Std. ZeroWaste® RO

2KC4 = Sediment & Carbon Block Cartridges for Kwik-Change 4-Stage RO

4KC4 = All 4 replacement Cartridges including Membrane for Kwik-Change RO

KCUF = All 3 replacement Cartridges including UF Membrane for Kwik-Change UF System

KCZW = All 3 replacement Cartridges including Membrane for Kwik-Change ZeroWaste® RO

25 = 25 Gallons per Day

36 = 36 Gallons per Day

50 = 50 Gallons per Day

75 = 75 Gallons per Day

100 = 100 Gallons per Day

KC60 = Kwik-Change 60 Gallons per Day

# Model PWDWRVWG2

## RV Water Guard Multipurpose Filtration System

Boats and RV's have a common problem with dirt and sand build-up in their holding tanks, causing premature pump failure, as well as clogged and plugged pipes and drains. Watts has the answer with the "RV Water Guard" point-of-entry filtration system. The system attaches easily to virtually any incoming water supply line.

PWDWRVWG2
Ordering Code: 7100100

NSF/ANSI STD 372

### Features

- Two Stages of Filtration
- 5-micron Sediment Filter reduces dirt
- Activated Carbon Filter reduces chlorine, bad taste, and odors
- Adapt-A-Valve™ for easy installation
- Easy to install

### Benefits

- Reduces chlorine bad tastes, and odors
- Ideal for RVs and boats
- Connects to cold water fill line with onboard or with hose bibb adapter when refilling holding tank
- Heavy-duty 10-gauge bracket is ideal for high-vibration applications
- Full flow ½" ports

### Dimensions

11" W x 14½" H x 5½" D

### Replacement Filter Pack

| MODEL NO. | ORDERING CODE | FREQUENCY | DESCRIPTION |
|---|---|---|---|
| PWFPKSEDCB | 7100110 | 6 Months | includes sediment and carbon filter |

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

*For additional information, access online literature ES-WQ-PWDWRVWG2.*

# 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.

PWDWLCV2
Ordering Code: 7100101

NSF/ANSI STD 372 & 53

### Features

- 2-Stages of Filtration

Stage-1: Sediment Filter removes particulates down to 5 micron

Stage-2: 1-Micron Carbon Block Filter reduces lead, cysts and VOC's (Cysts include: cryptosporidium, toxoplasma, giardia, and entamoeba)

- Adapt-A-Valve™ for easy installation
- Elegant Chrome long reach faucet included

### Versatility

- Space saving design installs under sink or in limited spaces
- Adapt-A-Valve™ easily connects to water source
- Works in low-presssure applications
- Installs in minutes

### Reliability

- Advanced design uses unique technology and high-quality components to ensure years of continuous trouble-free operation
- As with all products in the Watts family, the LCV is backed by our reputation of excellence.

### Performance and Benefits

- Reduces lead, cysts, and VOC's (Cysts include: cryptosporidium, toxoplasma, giardia, and entamoeba), chlorine taste and odors
- Ideal for home, RVs and boats
- Includes dedicated faucet and can be connected to any cold water line
- System goes well beyond basic water filtration and typical "pitcher" or "end-of-tap" filter

### Dimensions

11" W x 14½" H x 5½" D

### 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 PWDWUV3

## Ultraviolet 3-Stage Systems

Watts Pure Water Series PWDWUV3 produces high-quality, fresh water on demand, utilizing the power of ultraviolet light. Ultraviolet light has been used for years by the bottled water industry as a means to destroy various organisms in water. Now you can have the power of ultraviolet light under your kitchen sink, in your RVs, boat and home.

PWDWUV3
Ordering Code: 7100102

### Features

- Three stages of filtration
- 5-Micron Sediment Filter: Reduces dirt, sand, and rust
- Ultraviolet light
- 1-Micron Carbon Block: Reduces lead, cysts (Cysts include: cryptosporidium, toxoplasma, giardia, and entamoeba)
- Adapt-A-Valve™
- Easy to install

### Benefits

- Reduces lead, chlorine, bad tastes, and odors
- Ideal for RV's and boats
- Includes dedicated faucet or can be connected to cold water line

### Dimensions

14" W x 16" H x 5½" D

NSF/ANSI STD 372

### Replacement Filter Packs

| MODEL NO. | ORDERING CODE | FREQUENCY | DESCRIPTION |
|---|---|---|---|
| PWMB10M5 | 7100331 | 6 Months | 5-micron sediment filter |
| PWCB10LED | 7100452 | 6 Months | 1-micron carbon block filter |
| PWFPKUV3 | 7100112 | Annual | Includes all filters and UV Replacement Lamp |

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

*For additional information, access online literature ES-WQ-PWDWUV3.*

# Model PWDWUFKC3

## Kwik-Change™ Ultra Filtration Membrane Water Filtration System

PWDWUFKC3
Ordering Code: 7100106

### Features

- Includes Designer Faucet in Brushed Nickel finish
- Kwik-Change™ cartridges are the fastest changeable cartridges on the market (30 second filter changeout process)
- ¼-turn pivot filter head makes for ease of accessibility and filter change, reduces the amount of tube connections for greater reliability and reduces leak potential
- Cartridges connect to and disconnect from the unit by simple ¼-turn
- Space saving design installs under sink or in limited space
- Double Seal O-ring cartridges ensure system integrity
- No storage tank needed
- Requires only normal line pressure to operate
- Dispenses a continuous supply of water
- Requires minimal maintenance and will provide clean, safe, great-tasting water

### Reliability and Performance

- Advanced design uses unique technology and high-quality components to ensure years of continuous operation with trouble-free performance
- The Kwik-Change™ System water quality output exceeds the purity of other filtration and faucet mount devices

### Performance

| Tested | % of Reduction |
|---|---|
| Cysts | 99.95 |
| Cryptosporidium | 99.95 |
| Entamoeba | 99.95 |
| Giardia | 99.95 |
| Toxoplasma | 99.95 |
| Chlorine | 98.00 |

### Dimensions

10" W x 15" H x 4" D

### Specifications

**Stage 1:** Sediment Filter removes particulates down to 5 microns

**Stage 2:** Carbon Block Filter removes objectionable taste, chlorine taste, and odors

**Stage 3:** UF Membrane consists of a capillary bundle of ultrafiltration membranes providing a physical barrier to particles, large dissolved molecules, suspended solids, turbidity, most colloids, and impurities as small as 0.25 microns

- Adapt-A-Valve™ easily connects to water source
- Automatic shutoff valves in the manifold eliminate the need to shut off the incoming water supply when changing out the filters
- Proprietary sanitary filter cartridges eliminate water spills during cartridge replacement

NSF/ANSI STD 372 & 53

### 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 System

Watts Pure Water 4-Stage Reverse Osmosis (RO) System is a tried and true reverse osmosis system! Watts Pure Water 4-Stage RO System begins with Stage 1, a 5-micron Sediment filter that traps particulate matter like dirt, rust, sand, silt and sediment that will affect the taste and appearance of your water. Stage 2 is a 5-micron Carbon Block filter that provides a reduction of chlorine, chloramine and other materials that cause bad taste and odors (these are called PRE-filters because they filter in front of the reverse osmosis membrane). Stage 3 is the heart of the reverse osmosis system, the RO Membrane. This semi-permeable membrane is 1/10,000 of a micron and will effectively reduce TDS (total dissolved solids), sodium and a wide range of contaminants such as arsenic, lead, perchlorate, chromium, copper and radium. It will also remove over 99.95% cysts such as giardia and crypto-sporidium. Stage 4 is a high-quality GAC final filter (this is called a final filter because it filters after the membrane). The filtered RO water passes through the membrane and enters the storage tank. When you're ready for use, it will leave the storage tank and pass through this fourth stage on its way up to the faucet. The end result — crystal clear, high quality, and great tasting water!

PWRO4
Ordering Code: 7100103

### Applications

Home, Office, Ice Maker Kits, Beverage Dispensers, and more/

### Features

- Multi-Stage water filtration
- Easy to install

### Dimensions

16" W x 16" H x 6" D

NSF/ANSI STD 372 & 58

### Replacement Filter Packs

| MODEL NO. | ORDERING CODE | FREQUENCY | DESCRIPTION |
|---|---|---|---|
| PWFPKSEDCB | 7100110 | 6 Months | Includes sediment and carbon filter only |
| PWFPK4RO4 | 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 all new 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 RO water for every gallon of RO water produced. This highly efficient Watts RO system provides better-than-bottled water quality for residential applications.

PWRO4ZRO
Ordering Code: 7100104

### Features

- 4-Stage System of Filtration

Stage 1: Sediment Filter removes particulates down to 1 micron

Stage 2: Carbon Block Filter removes chlorine taste and odors

Stage 3: Advanced TFC Membrane rejects impurities down to 1/10,000th of a micron

Stage 4: Activated Carbon Final Filter serves as a final polish to remove any trace residuals

- Re-use of rinse water (no waste)
- 50 gallons per day TFC membrane
- Upgraded Watts top mount faucet
- 3-Gallon Storage Tank

### Versatility

- No faucet air gap or drain connection required
- Space saving design, installs under sink or in limited space
- Adapt-A-Valve™ easily connects to water source
- Ideal for low pressure or well applications

### Reliability

- Advanced design uses patented technology and high-quality components to ensure years of continuous operations with trouble-free performance
- As with all of the products in the Watts family, the ZeroWaste RO® is backed by Watts reputation of excellence
- Economical and environmentally friendly
- 100% Efficient - No wasted water
- Saves as much as 7,000 gallons per year in a typical residential application
- Delivers high-quality drinking water for pennies a day

### Dimensions

20" W x 18" H x 6" D

NSF/ANSI STD 372 & 58

### Replacement Filter Packs

| MODEL NO. | ORDERING CODE | FREQUENCY | DESCRIPTION |
|---|---|---|---|
| PWFPKSEDCB | 7100110 | 6 Months | Includes sediment and carbon filter only |
| PWFPK4RO4 | 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 PWRO5MAN

## One-Piece Manifold Reverse Osmosis System

Watts Pure Water revolutionizes the industry through state-of-the-art technology. Our unique Manifold RO System provides a seamless water path effectively eliminating 17 connections. The PWSYS-RO-MAN5 brings unequaled water quality and system value.

PWRO5MAN
Ordering Code: 7100105

NSF/ANSI STD 372 & 58

### Features

- Premium filtration package

Stage 1: Sediment filter removes particulates down to 5 microns

Stage 2: Carbon Block filter removes chlorine taste and odors

Stage 3: Carbon Block filter removes chlorine taste and odors

Stage 4: High-production TFC membrane rejects impurities down to 1/10,000th of a micron

Stage 5: Final filter for enhancing water taste

- Adapt-A-Valve™ for easy installation
- Air Gap faucet meets local plumbing codes
- 3-gallon plastic storage tank

### Versatility

- Space saving design installs under sink or in limited space
- Adapt-A-Valve™ easily connects to water source
- Increased output options available

### Reliability

- Advanced design uses unique technology and high-quality components to ensure years of continuous operation with trouble-free performance
- One-piece manifold minimizes potential for water leakage
- Non-corroding plastic water storage tank

### Performance

- Produces up to 50 gallons of bottled quality water per day
- NSF tested and Certified to Standard 58
- System goes well beyond basic water filtration and the typical faucet mount products

### Dimensions

16½" W x 17" H x 5" D

### Replacement Filter Packs

| MODEL NO. | ORDERING CODE | FREQUENCY | DESCRIPTION |
|---|---|---|---|
| PWFPK3MAN | 7100113 | 6 Months | Includes sediment and carbon filters only |
| PWFPK5MAN | 7100114 | | 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-PWRO5MAN.*

# Model PWROKC4

## Kwik-Change™ Reverse Osmosis Systems

### Flow Rate: Up to 60 gallons per day (227 lpd)

The Kwik-Change™ Reverse Osmosis (RO) System produces up to 60 gallons per day of high-quality water that exceeds the quality of most bottled waters.

PWROKC4
Ordering Code: 7100107

NSF/ANSI STD 372 & 58

### Features

- Kwik-Change™ cartridges are the fastest changeable cartridges on the market
- ¼-turn Pivot filter makes for ease of accessibility and filter change, reduces the amount of tube connections for greater reliability and less potential leaks
- Proprietary cartridges connect to (and disconnect from) the unit by a simple ¼ turn
- Space saving design installs under sink or in limited space
- Adapt-A-Valve™ easily connects to water source for ⅜" compression or ½" NPT
- Automatic shutoff – No need to shut off incoming supply when changing filters
- Top mount designer faucet installs top side and provides a ⅜" high-flow water delivery system
- Air Gap faucet meets local plumbing codes
- 3-Gallon water storage holding tank
- Additional faucet finishes available

### Dimensions

12" W x 15" H x 4" D

### 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 literatureES-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.

PWROKCZRO
Ordering Code: 7100108

NSF/ANSI STD 372

### Features

- Patented technology
- 100% efficient - No wasted water
- Saves as much as 7000+ gallons per year in a typical residential application
- Ideal for low pressure or well applications
- Produces up to 60 gallons per day of high-quality drinking water
- Kwik-Change™ cartridges are the fastest changeable cartridges on the market
- ¼-turn pivot filter makes for ease of accessibility and filter change, reduces the amount of tube connections for greater reliability and less potential leaks
- Proprietary cartridges connect to (and disconnect from) the unit by a simple ¼ turn
- Space saving design installs under sink or in limited space
- Adapt-A-Valve™ easily connects to water source for ⅜" or ½"
- Automatic shutoff – No need to shut off incoming supply when changing filters
- No faucet air gap or drain connection required
- 3-gallon water storage holding tank
- Upgraded Watts top mount faucet
- Additional faucets and finishes available

### Dimensions

15" W x 14½" H x 5" D

### Replacement Filter Packs

| MODEL NO. | ORDERING CODE | FREQUENCY | DESCRIPTION |
|---|---|---|---|
| PWKCCB13 | 7100109 | 6 months | Carbon Block |
| PWFPKKCZW | 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.**

# Replacement Filter Kits

| SYSTEM MODEL NO. | ORDERING CODE | REPLACEMENT FILTER MODEL NO. | ORDERING CODE | FREQUENCY | DESCRIPTION |
|---|---|---|---|---|---|
| PWDWRVWG2 | 7100100 | PWFPKSEDCB | 7100110 | 6 Months | Includes sediment and carbon filter |

| SYSTEM MODEL NO. | ORDERING CODE | REPLACEMENT FILTER MODEL NO. | ORDERING CODE | FREQUENCY | DESCRIPTION |
|---|---|---|---|---|---|
| PWDWLCV2 | 7100101 | PWFPKLCV | 7100111 | 6 Months | Includes sediment and LCV carbon filter |

| SYSTEM MODEL NO. | ORDERING CODE | REPLACEMENT FILTER MODEL NO. | ORDERING CODE | FREQUENCY | DESCRIPTION |
|---|---|---|---|---|---|
| PWDWUV3 | 7100102 | PWMB10M5 | 7100331 | 6 Months | 5-micron sediment filter |
| | | PWCB10LED | 7100452 | 6 Months | 1-micron carbon block filter |
| | | PWFPKUV3 | 7100112 | Annual | Includes all filters and UV Replacement Lamp |

| SYSTEM MODEL NO. | ORDERING CODE | REPLACEMENT FILTER MODEL NO. | ORDERING CODE | FREQUENCY | DESCRIPTION |
|---|---|---|---|---|---|
| PWDWUFKC3 | 7100106 | PWFPK2KC4 | 7100116 | 6 Months | Includes sediment and pre-carbon filter only |
| | | PWFPKKCUF | 7100118 | Annual | Includes all filters and UF membrane |

| SYSTEM MODEL NO. | ORDERING CODE | REPLACEMENT FILTER MODEL NO. | ORDERING CODE | FREQUENCY | DESCRIPTION |
|---|---|---|---|---|---|
| PWRO4 | 7100103 | PWFPKSEDCB | 7100110 | 6 Months | Includes sediment and carbon filter only |
| | | PWFPK4RO4 | 7100115 | | Includes all filters and membrane |
| | | PWMEM50 | 7100122 | 2-5 years | 50 gallon per day membrane |
| | | PWILGAC10 | 7100454 | Annual | 10" final in-line filter |

| SYSTEM MODEL NO. | ORDERING CODE | REPLACEMENT FILTER MODEL NO. | ORDERING CODE | FREQUENCY | DESCRIPTION |
|---|---|---|---|---|---|
| PWRO4ZRO | 7100104 | PWFPKSEDCB | 7100110 | 6 Months | Includes sediment and carbon filter only |
| | | PWFPK4RO4 | 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 replacements

**Replacement filter kits and membranes sold individually (Page 11 & 12).**

*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.**

# Replacement Filter Kits

| SYSTEM MODEL NO. | ORDERING CODE | REPLACEMENT FILTER MODEL NO. | ORDERING CODE | FREQUENCY | DESCRIPTION |
|---|---|---|---|---|---|
| PWRO5MAN | 7100105 | PWFPK3MAN | 7100113 | 6 Months | Includes sediment and carbon filters only |
| | | PWFPK5MAN | 7100114 | | Includes all filters and membrane |
| | | PWMEM50 | 7100122 | 2-5 years | 50 gallon per day membrane |
| | | PWILGAC10 | 7100454 | Annual | 10" final in-line filter |

| SYSTEM MODEL NO. | ORDERING CODE | REPLACEMENT FILTER MODEL NO. | ORDERING CODE | FREQUENCY | DESCRIPTION |
|---|---|---|---|---|---|
| PWROKC4 | 7100107 | 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 |

| SYSTEM MODEL NO. | ORDERING CODE | REPLACEMENT FILTER MODEL NO. | ORDERING CODE | FREQUENCY | DESCRIPTION |
|---|---|---|---|---|---|
| PWROKCZRO | 7100108 | PWKCCB13 | 7100109 | 6 Months | Carbon Block |
| | | PWFPKKCZW | 7100119 | | Includes all filters and membrane |
| | | PWKCGAC13 | 7100462 | Annual | GAC final filter |
| | | PWMEMKC60 | 7100125 | 2-5 years | 60 GPD membrane |

# Replacement RO Membranes

| MODEL NO. | ORDERING CODE | DESCRIPTION |
|---|---|---|
| PWMEM25 | 7100120 | 25 GPD RO Membrane |
| PWMEM36 | 7100121 | 36 GPD RO Membrane |
| PWMEM50 | 7100122 | 50 GPD RO Membrane |
| PWMEM75 | 7100123 | 75 GPD RO Membrane |
| PWMEM100 | 7100124 | 100 GPD RO Membrane |
| PWMEMKC60 | 7100125 | 60 GPD Kwik-Change™ Membrane |

***NOTICE*** Water conditions may require more frequent cartridge replacements

**Replacement filter kits and membranes sold individually (Page 11 & 12).**

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

- 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 PWSSTD
- Water Softener — Series PWSPSE
- Water Softener — Series PWSTA
- Ultraviolet (UV) Disinfection Systems

PWUV


PWSSTD


PWSPSE


PWSTA


PWBWIRON


PWBWCAL

OFRES


PWSCAB30K

## How does a Water Softener work?

Basically, the resin or mineral inside the mineral tank is specially designed to remove “hard” particles of lime and calcium, by a simple ion exchange process. The resin beads inside the softener tank have a different or opposite electrical charge than the dissolved particles 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 PWSSTD<br>Series PWSPSE<br>Series PWSTA |
| 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 - PWRO440 |
| Scale Built-up | Internal scale formation on plumbing surfaces, appliances and plumbing fixtures | OneFlow® | Residential OneFlow Systems |

# 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 16 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

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

| 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 |

## Softener Sizing Selection Chart

| HARDNESS (GRAINS PER GALLON) | 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 |
| 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

# Residential Whole House Water Conditioning Systems Part Number Matrix

**PW S PSE 45K**

**Pure Water**
- OF = OneFlow
- System Type

**S = Softener**
- BW = Backwashing
- RES = Residential
- UV = Ultraviolet

**System Model**
- PSE = Pro SE Series Water Softener
- GAC = Granular Activated Carbon Backwashing System
- MZ = Micro Z Backwashing System
- IRON = Iron Backwashing System
- CAL = Acidic Water Neutralizing System using Calcite
- 0835 = Anti-Scale System – 8 gpm
- 0935 = Anti-Scale System – 12 gpm
- 1035 = Anti-Scale System – 16 gpm
- CAB = Cabinet Style Water Softener
- STD = Standard Water Softener
- PSE = Pro SE Series Water Softener
- TA = Twin Alternating Water Softener
- 2110 = 2 Gallons Per Minute, 110v
- 2220 = 2 Gallons Per Minute, 220v
- 6110 = 6 Gallons Per Minute, 110v
- 6220 = 6 Gallons Per Minute, 220v
- 8110 = 8 Gallons Per Minute, 110v
- 8220 = 8 Gallons Per Minute, 220v
- 12110 = 12 Gallons Per Minute, 110v
- 12220 = 12 Gallons Per Minute, 220v
- BULB = UV Replacement Bulb
- BAL = UV Replacement Ballast
- QS = UV Replacement Quartz Sleeve

**System Capacity**
- 1 = 1 Cubic Feet of Media
- 1.5 = 1.5 Cubic Feet of Media
- 2 = 2 Cubic Feet of Media
- 3 = 3 Cubic Feet of Media
- 4 = 4 Cubic Feet of Media
- 30K = 30,000 Grain Capacity
- 45K = 45,000 Grain Capacity
- 60K = 60,000 Grain Capacity
- 90K = 90,000 Grain Capacity
- 120K = 120,000 Grain Capacity
- 2 = 2 Gallons per Minute
- 6 = 6 Gallons per Minute
- 8 = 8 Gallons per Minute
- 12 = 12 Gallons per Minute

# Series PWBWGAC

## Whole House Carbon Systems

### Connection Size: 1" (25mm)
### Flow Rate: Up to 15 gpm (56 lpm)

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

Our Series PWBWGAC activated carbon filters with the Series Pro SE Control Valve are designed for residential and light commercial applications up to 15 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.

PWBWGAC

### 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 assure a clean, low dust product with an exceptionally long life span.

### Series Pro SE Control Valve

Manufactured from high-tech materials, the Series Pro SE control valve has been engineered and tested to withstand the equivalent of 27 years of uninterrupted daily use. The proprietary design features a Teflon® coated 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 control for easy programming.

### Filter Tank

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

### Benefits

Great tasting water from every tap in your house!

No bad tastes!

No foul odors!

Crystal clear water for drinking, bathing, and cooking!

User-friendly equipment.

Low maintenance due to automatic operation.

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 |
|---|---|---|---|---|---|---|---|---|---|
| PWBWGAC1 | 7100126 | Time Clock | 9" X 48" | 1 | 10 | 3.7 | <15 | 4 | 16" X 10" X 55" |
| PWBWGAC15 | 7100127 | Time Clock | 10" X 54" | 1.5 | 10 | 5.5 | <15 | 5 | 16" X 11" X 62" |
| PWBWGAC2 | 7100128 | Time Clock | 12" X 52" | 2 | 30 | 7.4 | <15 | 8 | 17" X 13" X 60" |
| PWBWGAC3 | 7100129 | Time Clock | 13" X 65" | 3 | 40 | 11.1 | <15 | 9 | 18" X 14" X 74" |
| PWBWGAC4 | 7100130 | Time Clock | 16" X 65" | 4 | 60 | 14.8 | <15 | 15 | 20" X 17" X 74" |

*For additional information, access online literature ES-WQ-PWBWGAC*

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

# Series PWBWMZ

## Residential Backwashing Filter Systems

### Connection Sizes: 1" (25mm)
### Flow Rates: Up to 15 gpm (57 lpm)

**Watts Whole House filters for superior sediment removal.**

Watts Pure Water 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 outperform 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.

PWBWMZ

### 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.

### Series Pro SE Control Valve

Manufactured from high-tech materials, the Series Pro SE control valve has been engineered and tested to withstand the equivalent of 27 years of uninterrupted daily use. The proprietary design features a Teflon® coated piston that glides through a series of seals and spacers. This seal/spacer and piston configuration is the most reliable design in valve technology. The valve features an electronic control 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.

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 |
|---|---|---|---|---|---|---|---|---|---|
| PWBWMZ1 | 7100131 | Time Clock | 9" X 48" | 1 | 10 | 9 | 15 | 7 | 16" x 10" x 55" |
| PWBWMZ15 | 7100132 | Time Clock | 10" X 54" | 1.5 | 10 | 10 | 15 | 9 | 16" x 11" x 62" |
| PWBWMZ2 | 7100133 | Time Clock | 12" X 52" | 2 | 30 | 10 | 15 | 12 | 17" x 13" x 60" |
| PWBWMZ3 | 7100134 | Time Clock | 13" X 65" | 3 | 40 | 15 | 15 | 15 | 18" x 14" x 74" |

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

**⚠ 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 18 gpm (68 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.

PWBWIRON

### 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.

| 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" |
| PWBWIRON3 | 7100482 | Time Clock | 13" x 65" | 3 | 42 | 18 | <25 | 15 | 18" x 15" 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.

*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 PWBWCAL

## Whole House Acidic Water Neutralizing Systems

### Connection Size: 1" (25mm)
### Flow Rate: Up to 15 gpm (56 lpm)

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

Series PWBWCAL acid neutralizing system are designed for residential applications with intermittent flow rates up to 15 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.

PWBWCAL

### 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
- All tanks 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.

### Series Pro SE Control Valve

Manufactured from high-tech materials, the Series Pro SE control valve has been engineered and tested to withstand the equivalent of 27 years of uninterrupted daily use. The proprietary design features a Teflon® coated piston that glides through a series of seals and spacers. This seal/spacer and piston configuration is the most reliable design in valve technology. The valve features an electronic control for easy programming.

### Filter Tank

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

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.) | PEAK SERVICE FLOW (GPM) | PRESSURE DROP (PSI) | BACKWASH (GPM) | FLOOR SPACE L X W X H |
|---|---|---|---|---|---|---|---|---|---|
| PWBWCAL15 | 7100484 | Time Clock | 10" X 54" | 1.5 | 10 | 7 | <15 | 7 | 16" X 11" X 62" |
| PWBWCAL2 | 7100485 | Time Clock | 12" X 52" | 2 | 30 | 10 | <15 | 10 | 17" X 13" X 60" |
| PWBWCAL3 | 7100486 | Time Clock | 13" X 65" | 3 | 40 | 15 | <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-PWBWCAL.*

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

# Series OFRES

## Whole House OneFlow® Residential Anti-Scale Systems

### Connection Size: 1" (25mm)
### Flow Rate: Up to 16 gpm (60 lpm)

OFRES

OneFlow® Residential Anti-Scale Systems provide a home with protection from internal hardness related scale formation on plumbing surfaces. Water using appliances and plumbing fixtures also enjoy a longer lifespan because hardness scale build up on internal parts no longer occurs.

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

### Benefits

Chemical free scale prevention and protection – converts hardness minerals to harmless, inactive microscopic crystals making OneFlow® an effective alternative technology to a water softener for the prevention of scale due to water hardness

- Virtually maintenance free – No salt bags or other chemicals to constantly add
- No control valve, no electricity and no wastewater
- Uses environmentally friendly "green" technology
- Improves efficiency of all water using appliances – both hot* and cold
- Simple sizing & installation
- Perfect system for towns or communities where water softeners are banned or restricted
- OneFlow® - Residential systems 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

***NOTICE***

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

### Replacement Media

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

| 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" |

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

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

# Model OFTWH-R

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

### Connection Sizes: ¾" (20mm)
### Flow Rates: From 0.5 gpm to 6 gpm (1.9 lpm to 22.71 lpm)


OFTWH-R

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

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

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

### Features

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

### Model

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

### Replacement Cartridge

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

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

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

# Model PWSCAB30K

## Space Saver 30K Cabinet
## Whole House Water Softening Systems

**Connection Size: 1" (25mm),**
**Flow Rate: Up to 10 gpm (37.8 lpm)**

### The Water Softening Process

Hard water contains high levels of dissolved minerals, typically in the form of calcium and iron salts. Water softening reduces the hardness of water using an ion-exchange process. Hard water enters the softener, passing through the ion-exchange media where the minerals are removed by attaching to the resin media. The softened water then flows out to the fixtures. As the minerals build up on the media, the softening ability of the media gradually reduces until the softener switches to the regeneration cycle that removes the minerals from the media. Brine (salt solution) is circulated through the media and is released to drain, carrying away the hardness minerals. The softener then returns to normal operation, resuming the softening process.

PWSCAB30K
Ordering Code: 7100135

### Features

- Unique, space-saving low profile design is ergonomically engineered for easy salt fill and storage capacity...holds 170 pounds of salt
- Ultra-safe 12 volt system so you don't have to worry about electrical wiring
- Built-in self-cleaning media for sediment and dirt reduction
- High-capacity, premium softening media assures maximum efficiency for hardness and clear water iron reduction
- Unique safety shutoff valve eliminates overflow
- Exclusive distribution system assures maximum contact with media
- Manufactured using only the finest materials and processes
- Set the electronic control with one button: Regenerates based on water used. No guess work, no waste. Space saving design installs under sink or in limited space

### Softener Specifications

| | |
|---|---|
| Max compensated hardness (grains) | 90 |
| Max ferrous iron reduction | 10ppm |
| Media type and amounts | Power clean filter media Super fine mesh resin 1 cu. ft. |
| Salt usage (lbs.)/Capacity (HC-High Capacity) | 10/30,000 |
| Salt usage (lbs.)/Capacity (HE-High Efficiency) | 5/21,200 |
| Max water temperature | 120°F (49°C) |
| Mineral tank size | 10.5" x 21" |
| Peak flow rate/psi drop | 10 gpm / 14.5 |
| Pressure drop @ service flow rate of 4 gpm | 4.0psi |
| Max flow rate to drain during regeneration (gpm) | 2 |
| Water Pressure (minimum – maximum psi) | 20/120 |
| Controller type | 4 Button |
| Regeneration time (mins) (HC – High Capacity) | 50 |
| Regeneration time (mins) (HE – High Efficiency) | 27 |
| Water used / regeneration (gallons) (HC-High Capacity) | 35 |
| Water used / regeneration (gallons) (HE-High Efficiency) | 21 |
| Frequency of regeneration (days) | Demand |
| Salt Storage | 170 lbs. |
| Height (in.) | 30.5" |
| Footprint (in.) | 15" x 26" |
| Electrical Rating | 12 VAC, 1 Phase 60 Hz |
| Plumbing connections | 1" MNPT |
| Shipping weight—approximate | 115 lbs. (52kgs.) |

***NOTICE***

Capacities are based on resin manufacturer's data and are dependent upon influent water, TDS, temperature, bed depth and flow rates. Feed water must be free of oil and color. Pipe size, tank, and space requirements are in inches.

*For additional information, access online literature ES-WQ-PWSCAB30K*

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

# Series PWSSTD

## Whole House Water Softeners

### Connection Size: 1" (25mm)
### Flow Rate: Up to 13 gpm (49 lpm)

Our Series PWSSTD Water Softeners are designed for residential applications up to 13 gallons per minute peak flow rate. This is our most popular selling series because they are priced right and constructed of time-proven materials.

PWSSTD

### Features
- Economical
- Top quality components
- Fully assembled ready for installation
- Capacities up to 60,000 grains
- User friendly 5600 control valves
- Brine tanks with grid plates and safety floats
- 1" plumbing connections

### Softening Media
Our ion exchange media is a high-capacity polystyrene resin that combines high operating capacity with excellent chemical and physical stability for a long dependable life.

### Series 5600 Control Valve
The Series 5600 control valve has enjoyed years of continuous service in the water treatment industry. It is one of the longest running valve series on the market today. We use a metered initiated regeneration so that your system regenerates only when necessary with an accurately measured amount of sodium to conserve water and salt. The valve combines simplicity and durability all in one.

### Resin Tank
Features a highly corrosion resistant NSF certified fiberglass tanks with a thermoplastic inner liner. The tanks are approved by NSF, UL, DA, and meet WQA standard S-100.

### Brine Tank/Cabinet
The brine tank is a combination brine maker and salt storage vessel that is made of tough corrosion free polyethylene and comes with a safety float to guard against brine tank overflow issues.

### PWSSTD

| MODEL NO. | PWSSTD30K | PWSSTD45K | PWSSTD60K |
|---|---|---|---|
| Ordering Code | 7100136 | 7100137 | 7100138 |
| Max/Min Ion Exchange Capacity | 30,000/20,000 | 45,000/30,000 | 60,0000/40,000 |
| Lbs. of salt required for Max/Min capacity | 15/6 | 22.5/9 | 30/12 |
| Salt Storage Capacity | 300 | 300 | 300 |
| Flow Rate in GPM @ 15 PSI Drop | 8.8 | 10 | 10 |
| Backwash Flow Rate GPM | 2.0 | 2.4 | 3.5 |
| Drain Line Connection Size | ½" NPT | ½" NPT | ½" NPT |
| Inlet/Outlet Pipe Size | 1" | 1" | 1" |
| Electrical Requirements | 120V/60Hz | 120V/60Hz | 120V/60Hz |
| Mineral Tank Size | A-9" / B-48" | A-10" / B-54" | A-12" / B-52" |
| Brine Tank Size | 18"D x 33"H | 18"D x 33"H | 18"D x 33"H |
| Floor space required in inches W x D | 31 x 19 | 32 x 19 | 34 x 19 |
| Approximate Shipping Weight Lbs. | 112 | 130 | 190 |

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

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

# Series PWSPSE

## Pro SE Residential and Light Commercial Water Softeners

### Connection Size: 1" (25mm)
### Flow Rate: Up to 15.5 gpm (59 lpm)

Series PWSPSE 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 15.5 gallons per minute.

PWSPSE

### 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
- 5 cycles, all fully adjustable, strong durable Noryl® Valve body
- Weather resistant enclosures
- Full-Flow bypass valve included

### Series Pro SE Control Valve

Manufactured from high-tech materials the Series Pro SE valve has been engineered and tested to withstand the equivalent of 27 years of uninterrupted daily use. The proprietary design features a Teflon®-coated piston that works with a seal and spacer. This seal/spacer and piston configuration is the most reliable design in control valve technology.

### Electronic Control

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

### 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.

### PWSPSE

| MODEL NO. | PWSPSE30K | PWSPSE45K | PWSPSE60K | PWSPSE90K |
|---|---|---|---|---|
| Ordering code | 7100139 | 7100140 | 7100141 | 7100142 |
| Max/Min Ion Exchange Capacity | 30,000/20,000 | 45,000/30,000 | 60,0000/40,000 | 90,0000/60,000 |
| Lbs. of salt required for Max/Min capacity | 15/6 | 22.5/9 | 30/12 | 45/18 |
| Salt Storage Capacity | 300 | 300 | 300 | 400 |
| Flow Rate in GPM @ 15 PSI Drop | 12 | 13.1 | 14.4 | 15.5 |
| Backwash Flow Rate GPM | 2.0 | 2.4 | 3.5 | 4.0 |
| Drain Line Connection Size | ½" NPT | ½" NPT | ½" NPT | ½" NPT |
| Inlet/Outlet Pipe Size | 1" | 1" | 1" | 1" |
| Electrical Requirements | 120V/60Hz | 120V/60Hz | 120V/60Hz | 120V/60Hz |
| Mineral Tank Size | 9"D x 48"H | 10"D x 54"H | 12"D x 52"H | 13"D x 65"H |
| Brine Tank Size | 18"D x 33"H | 18"D x 33"H | 18"D x 33"H | 18"D x 40"H |
| Floor space required in inches W x D | 31 x 19 | 32 x 19 | 34 x 19 | 35 x 19 |
| Approximate Shipping Weight Lbs. | 112 | 130 | 190 | 265 |

*For additional information, access online literature PWSPSE*

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

# Series PWSTA

## Twin-Alternating Water Softeners with Fleck 9100 Valves

**Connection Size: 30K – 60K ¾" (20mm), 90K – 120K 1" (25mm)**
**Flow Rates: Up to 15 gpm (56 lpm)**

Watts Pure Water Series PWSTA Water Softening Systems are highly efficient, twin-alternating, conventional cation exchange type water softeners. They are designed to supply continuous softened water 24/7, without interruption.

PWSTA

### Features

- High efficiency, no reserve capacity required
- Top quality components
- Up to 2 CF fully assembled, ready for installation
- Capacities up to 120,000 grains per regeneration
- Reliable electromechanical timer and meter
- ¾" models come with a stainless steel bypass valve
- Safety brine valve with air check included

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

### 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

| MODEL NO. | ORDERING CODE | RESIN CU. FT. PER TANK | APP. GPG CAPACITY @ 4 LB CF | APP. GPG CAPACITY @ 15 LB CF | MINERAL TANK SIZE | BRINE TANK SIZE | DRY SALT LBS. | ESTIMATED PEAK GPM | APP. HEIGHT INCH | SHIP WT. LBS. | SHIP WT. KGS. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PWSTA30K | 7100143 | 1 | 16,000 | 30,000 | (2) 9" x 48" | 18" x 40" | 400 | 13 | 60 | 180 | 82 |
| PWSTA45K | 7100144 | 1.5 | 24,000 | 45,000 | (2)10" x 54" | 18" x 40" | 400 | 14 | 66 | 250 | 113 |
| PWSTA60K | 7100145 | 2 | 32,000 | 60,000 | (2)12" x 52" | 18" x 40" | 400 | 15 | 64 | 330 | 150 |
| PWSTA90K | 7100146 | 3 | 48,000 | 90,000 | (2)14" x 65" | 18" x 40" | 400 | 15 | 76 | 470 | 213 |
| PWSTA120K | 7100147 | 4 | 64,000 | 120,000 | (2)16" x 65" | 18" x 40" | 400 | 15 | 76 | 625 | 283 |

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

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

## Ordering Information

### Gravel

| ODERING 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 |

### Resin

| ODERING 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 |

### Carbon

| ODERING CODE | DESCRIPTION | APPLICATION | CUBIC FEET PER BAG | CONTAINER WT. (LBS.) | PER PALLET |
|---|---|---|---|---|---|
| 7300111 | Granular Activated Carbon (Coconut Shell) 12 x 40 mesh | Chlorine taste and odor reduction | 1 | 27.5 | 40 |
| 7300110 | Catalytic Granular Activated Carbon 12 x 40 mesh | Chloramine taste and odor reduction | 1 | 27.5 | 40 |

### MicroZ

| ODERING CODE | DESCRIPTION | APPLICATION | CUBIC FEET PER BAG | CONTAINER WT. (LBS.) | PER PALLET |
|---|---|---|---|---|---|
| 7300105 | Granular Zeolite 14 x 40 mesh | Sediment, turbidity | 1 | 55 | 40 |

### Neutralizer

| ODERING CODE | DESCRIPTION | APPLICATION | CUBIC FEET PER BAG | CONTAINER WT. (LBS.) | PER PALLET |
|---|---|---|---|---|---|
| 7300106 | Flomag PWT Magnesium Oxide (similar to Corset) | NSF Neutralizer | 0.5 | 55 | 60 |
| 7300107 | Calcite | NSF Neutralizer | 0.5 | 55 | 60 |

### Greensand

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

### Filox

| ODERING CODE | DESCRIPTION | APPLICATION | CUBIC FEET PER BAG | CONTAINER WT. (LBS.) | PER PALLET |
|---|---|---|---|---|---|
| 7300108 | Filox | Iron, HS reduction & Managanese reduction | 0.5 | 57 | 37 |

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

# Series PWUV

## Watts UV Disinfection Systems

**Pipe Sizes: ½" – 1" (15 – 25mm)**
**Flow Rate: Up to 12 gpm (45 lpm)**

Watts Pure Water PWUV Systems are manufactured from 304 stainless steel and have an audible and visual lamp failure alarm. They are durable and well constructed, yet economically priced.

PWUV

### Features

- Disinfection without chemicals
- Effective disinfection for chlorine resistant bacteria, virus and cysts
- Lamps rated for 12-month continuous service life
- Highly polished 304 stainless steel reactor chamber
- Audible and visual alarm indicating lamp failure
- Easy lamp replacement
- Available in 110V and 220V
- 30 mj/cm2 dose at specified flow rate at the end of lamp life

### Applications

- Well water
- Homes
- Water systems
- Aquaculture
- Food service
- Water coolers
- RO systems

### PWUV

| MODEL NO. | ORDERING CODE | FLOW RATE (GPM) | PIPE SIZE | DIMENSIONS (L X W X H) | ELECTRICAL | SHIPPING WEIGHT LBS. | KGS. |
|---|---|---|---|---|---|---|---|
| PWUV2110 | 7100155 | 2 | ½" MNPT | 18" x 6" x 5⅜" | 110-130 v / 50-60 Hz | 6 | 3 |
| PWUV2220 | 7100156 | 2 | ½" MNPT | 18" x 6" x 5⅜" | 200-250 v / 50-60 Hz | 6 | 3 |
| PWUV6110 | 7100157 | 6 | ¾" MNPT | 25½" x 6" x 5⅜" | 110-130 v / 50-60 Hz | 7 | 3 |
| PWUV6220 | 7100158 | 6 | ¾" MNPT | 25½" x 6" x 5⅜" | 200-250 v / 50-60 Hz | 7 | 3 |
| PWUV8110 | 7100159 | 8 | ¾" MNPT | 32" x 8¼" x 3¾" | 110-130 v / 50-60 Hz | 9 | 4 |
| PWUV8220 | 7100160 | 8 | ¾" MNPT | 32" x 8¼" x 3¾" | 200-250 v / 50-60 Hz | 9 | 4 |
| PWUV12110 | 7100161 | 12 | 1" MNPT | 41½" x 8¼" x 3¾" | 110-130 v / 50-60 Hz | 17 | 8 |
| PWUV12220 | 7100162 | 12 | 1" MNPT | 41½" x 8¼" x 3¾" | 200-250 v / 50-60 Hz | 17 | 8 |

| FLOW RATE (GPM) | BULB MODEL NO. | ORDERING CODE | BALLAST MODEL NO. | ORDERING CODE | QUARTZ SLEEVE MODEL NO. | ORDERING CODE |
|---|---|---|---|---|---|---|
| 2 | PWUVBULB2 | 7100163 | PWUVBAL2 | 7100167 | PWUVQS2 | 7100169 |
| 6 | PWUVBULB6 | 7100164 | PWUVBAL6-12 | 7100168 | PWUVQS6 | 7100170 |
| 8 | PWUVBULB8 | 7100165 | PWUVBAL6-12 | 7100168 | PWUVQS8 | 7100171 |
| 12 | PWUVBULB12 | 7100166 | PWUVBAL6-12 | 7100168 | PWUVQS12 | 7100172 |

*For additional information, access online literature ES-WQ-PWUV*

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

- Mini Water Softeners
- Ice Maker Filtration (Wall Mount)
- Reverse Osmosis (Wall Mount)
- Whole House RO (Floor Mount)
- Atmospheric Tank and Pump

PWSMINI

PWICE2

PWICE3

PWR2511

PWRO440

PWTNKPKG

# Light Commercial Water Conditioning and RO Systems Part Number Matrix

**PW RO 4401**

**Pure Water**

**System Type**

- S = Softener
- ICE = Ice Series Ice Maker Filtration Systems
- FPK = Filter Pack
- RO = Reverse Osmosis System
- TNK = Storage Tank Package
- MEM = Membrane

**System Model**

- Mini 4K = Mini Water Softener, 4,000 Grain Capacity
- Mini 8K = Mini Water Softener, 8,000 Grain Capacity
- 1 = Light Commercial Ice Maker Filtration System – 2 gpm
- 2 = Light Commercial Ice Maker Filtration System – 3 gpm
- 3 = Light Commercial Ice Maker Filtration System – 4 gpm
- 4 = Light Commercial Ice Maker Filtration System – 4 gpm
- ICE1 = All replacement cartridges for ICE1 Ice Maker Filtration System
- ICE2 = All replacement cartridges for ICE2 Ice Maker Filtration System
- ICE3 = All replacement cartridges for ICE3 Ice Maker Filtration System
- ICE4 = All replacement cartridges for ICE4 Ice Maker Filtration System
- 4401 = Whole House RO 2200 gpd
- 4402 = Whole House RO 4400 gpd
- 4403 = Whole House RO 6600 gpd
- 165PKG = 165 Gallon Storage Tank Package
- 300PKG = 300 Gallon Storage Tank Package
- 500PKG = 500 Gallon Storage Tank Package
- 150 = 150 Gallon per Day Membrane
- 300 = 300 Gallon per Day Membrane
- 600 = 600 Gallon per Day Membrane
- 2200 = 2200 Gallon per Day Membrane

# Series PWSMINI

## Commercial and Residential Systems

### Sizes: 4K and 8K

Watts Pure Water Mini Water Softeners can be used for industrial tea or espresso machines and steamers or as a pretreatment for small reverse osmosis units for the home and office.

Watts Pure Water 4K and 8K mini water softeners eliminate the problems caused by hard water on tea and espresso equipment, and greatly enhance the quality of the finished product.

Watts offers two sizes of mini water softeners for the removal of CaCO3 (hardness) from the incoming feed water supply. The Mini water softener is designed to prevent scale build-up due to hard water.

PWSMINI4K
Ordering Code: 7100258

PWSMINI8K
Ordering Code: 7100259

### Features

- Easy to install
- Simple to recharge
- NSF listed pressure vessel
- High-quality, food-grade softening resin
- Low maintenance cost.
- Reducing bushing included
- Eliminates cloudy iced tea
- Eliminates limescale build-up in tea and espresso machines.
- Reduces maintenance on tea, espresso and steamer equipment.
- Better tasting coffee and tea

*For additional information, access online literature ES-WQ-PWSMINI*



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

# Model PWICE1

## Light Commercial Ice Maker Filtration Systems

### Maximum Flow Rate: 2 gpm (7.6 lpm)

Watts Pure Water Model PWICE1 has been engineered to address and correct multiple common water related problems both efficiently and economically in light commercial applications for ice machines.

PWICE1
Ordering Code: 7100263

### Applications
- Ice Machines

### Features
- Reduces lime scale build-up in ice machines
- Reduces maintenance—lower maintenance costs
- Better tasting ice and drinks
- Easy to install
- Simple filter replacement
- In/Out valves allow for easy filter service
- Gauges and flush kit included

### System Specifications
Maximum Pressure: 125psi/8.6 bar

Maximum Temperature: 100°F/38°C

Inlet/Outlet Connections: ½" FNPT

Maximum Flow Rate: 2 gpm

### Filter Cartridge Life Span
Filter cartridges should be changed at 6,000 gallons, 15psi over all system pressure drop at normal flow rate, or 6 months. Whichever comes first.

**Please note:** Cartridge capacities are estimates and may be less depending on incoming water quality. Cartridges should be changed at least every 6 months.

### Replacement Filter Pack- includes all filters

| MODEL NO. | ORDERING CODE | FREQUENCY | DESCRIPTION |
|---|---|---|---|
| PWFPKICE1 | 7100474 | 6 Months | 10" Sediment filter<br>10" Carbon Block filter<br>10" Polyphosphate filter |

**NOTICE** Water conditions may require more frequent cartridge replacement

*For additional information, access online literature ES-WQ-PWICE1*

# Model PWICE2

## Light Commercial Ice Maker Filtration Systems

### Maximum Flow Rate: 3 gpm (11 lpm)

Watts Pure Water Model PWICE2 has been engineered to address and correct multiple common water related problems both efficiently and economically in light commercial applications for ice machines.

PWICE2
Ordering Code: 7100264

### Applications
- Ice Machines

### Features
- Reduces lime scale build-up in ice machines
- Reduces maintenance – lower maintenance costs
- Better tasting ice and drinks
- Easy to install
- Simple filter replacement
- In/Out valves allow for easy filter service
- Gauges and flush kit included

### System Specifications
Maximum Pressure: 125psi/8.6 bar

Maximum Temperature: 100°F/38°C

Inlet/Outlet Connections: ½" FNPT

Maximum Flow Rate: 3 GPM

### Filter Cartridge Life Span
Filter cartridges should be changed at 10,000 gallons, 15psi over all system pressure drop at normal flow rate, or 6 months. Whichever comes first.

**NOTICE**

Cartridge capacities are estimates and may be less depending on incoming water quality. Cartridges should be changed at least every 6 months.

### Replacement Filter Pack- includes all filters

| MODEL NO. | ORDERING CODE | FREQUENCY | DESCRIPTION |
|---|---|---|---|
| PWFPKICE2 | 7100475 | 6 Months | 10" Sediment filter<br>20" Carbon Block filter<br>10" Polyphosphate filter |

**NOTICE** Water conditions may require more frequent cartridge replacement

*For additional information, access online literature ES-WQ-PWICE2.*

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

# Model PWICE3

## Light Commercial Ice Maker Filtration Systems

### Maximum Flow Rate: 4 gpm (15 lpm)

Watts Pure Water Model PWICE3 has been engineered to address and correct multiple common water related problems both efficiently and economically in light commercial applications for ice machines and drink stations. Water for tea, coffee, and soft drinks is filtered by the triple filter. This filtered water then feeds the remote ice filter for dedicated treatment of the ice machine.

PWICE3
Ordering Code: 7100265

**Please note:** Cartridge capacities are estimates and may be less depending on incoming water quality. Cartridges should be changed at least every 6 months.

### Applications
- Ice Machines

### Features
- Reduces lime scale build-up in ice machines and soda machines
- Reduces maintenance—lower maintenance costs
- Better tasting ice and drinks
- Easy to install
- Simple filter replacement
- In/Out valves allow for easy filter service
- Gauges and flush kit included
- Improves the taste of coffee, tea and soft drinks

### System Specifications
Maximum Pressure: 125psi/8.6 bar

Maximum Temperature: 100°F/38°C

Inlet/Outlet Connections: ½" FNPT

Maximum Flow Rate: 4 gpm

### Filter Cartridge Life Span
Filter cartridges should be changed at 10,000 gallons, 15psi over all system pressure drop at normal flow rate, or 6 months. Whichever comes first.

### Replacement Filter Pack- includes all filters

| MODEL NO. | ORDERING CODE | FREQUENCY | DESCRIPTION |
|---|---|---|---|
| PWFPKICE3 | 7100476 | 6 Months | 10" Sediment filter<br>20" Carbon Block filter (2 required)<br>10" Polyphosphate filter |

**NOTICE** Water conditions may require more frequent cartridge replacement

*For additional information, access online literature ES-WQ-PWICE3.*

# Model PWICE4

## Light Commercial Ice Maker Filtration Systems

### Flow Rate: Maximum 4 gpm (15 lpm)

Watts Pure Water Model PWICE4 has been engineered to address and correct multiple common water related problems both efficiently and economically in light commercial applications for ice machines and drink stations. Water for tea, coffee, and soft drinks is filtered by the triple filter. This filtered water then feeds the remote ice filters for dedicated treatment of the ice machine.

PWICE4
Ordering Code: 7100266

### Applications
- Ice Machines
- Soda Machines
- Tea Machines
- Espresso Machines

### Features
- Reduces lime scale build-up in ice machines
- Reduces maintenance—lower maintenance costs
- Better tasting ice and drinks
- Easy to install
- Simple filter replacement
- In/Out valves allow for easy filter service
- Gauges and flush kit included
- Improves the taste of coffee, tea and soft drinks

### System Specifications
Maximum Pressure: 125psi/8.6 bar

Maximum Temperature: 100°F/38°C

Inlet/Outlet Connections: ¾" FNPT with ½" FNPT

Maximum Flow Rate: 4 gpm

**NOTICE**

### Filter Cartridge Life Span
Filter cartridges should be changed at 20,000 gallons, 15psi over all system pressure drop at normal flow rate, or 6 months. Whichever comes first.

### Replacement Filter Pack- includes all filters

| MODEL NO. | ORDERING CODE | FREQUENCY | DESCRIPTION |
|---|---|---|---|
| PWFPKICE4 | 7100477 | 6 Months | 10" Sediment filter<br>20" Carbon Block filter (2 required)<br>10" Polyphosphate filter (2 required) |

**NOTICE** Water conditions may require more frequent cartridge replacement

*For additional information, access online literature ES-WQ-PWICE4.*

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

# Series PWR2511

## Commercial Reverse Osmosis Systems

### Flow Rates: Up to 1,200 gallons per day (4,542 lpd)

PWR2511

Watts Pure Water Series PWR2511 Reverse Osmosis (RO) Systems are commercial grade high-pressure RO units for the reduction of total dissolved solids from water. They are designed to supply reverse osmosis quality water with production rates ranging from 150 to 1,200 gallons per day. The standard units are designed for wall mounting. Where floor mounting is preferred the optional floor mounting kit Model No. PWR2864 can be specified. Reverse osmosis is a process where high-pressure feed water is fed into a semi-permeable membrane chamber. In the chamber, pure water is allowed to pass through the membrane material and exit as purified permeate water. Dissolved mineral salts are not allowed to pass through the membrane and become a concentrated reject stream that is sent to drain. These RO systems use high-rejection membranes to achieve a minimum average NaCl ionic rejection of 95 percent.

Series PWR2511 RO systems are a rugged, well-designed line of purifiers. This series comes with a pre-selected assortment of features for monitoring and operation. Corrosion resistant 300 psi FRP high pressure membrane housings, inlet and outlet pre-filter pressure gauges, low pressure switch with delayed auto restart, permeate pressure switch, adjustable reject recycle, permeate and reject water flow meters, permeate water check valve, inlet solenoid valve, membrane feed water pressure gauge, adjustable reject valve, and membrane auto flush are all standard features. The standard systems are designed to feed an atmospheric storage tank or a pressurized bladder tank. Reverse osmosis water has a wide variety of applications including municipal water treatment, steam boiler and steam sterilizer make up, laboratory use, spot free rinsing, ice and beverage water, water for cooking, food processing, metal plating and finishing, as well as water for humidification. Reverse osmosis is also the pretreatment of choice for ion exchange type de-ionization (DI) systems. Using RO water as make up to a DI system reduces the exhaustion rate of the DI resin by up to 95 percent saving time, money, and chemicals associated with DI resin regeneration.

### Features

- 304 stainless steel wall mounted support frame
- Corrosion resistant 300psi FRP high pressure membrane housing(s)
- Pressure gauges for pre-filter inlet/outlet and membrane feed pressure
- Low feed water pressure safety switch
- Microprocessor based controller with delayed auto restart after low pressure shut down
- High-pressure/high-rejection membranes with 95% minimum average salt rejection
- Permeate and reject water flow meters
- Adjustable reject and reject recycle valves
- Permeate pressure switch and check valve
- Automatic inlet solenoid valve
- Membrane auto flush

### Standards

- Pre-filter Housing NSF/ANSI Certified 42
- Pre-filter Cartridge NSF/ANSI Certified 42

***NOTICE***

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

**RO system requires separate RO storage tank/delivery pump - see page #38 or call Pure Water Technical Support at 1.800.224.1299 for details**

**Notes:** Performance specifications are based on 77°F feed water, 3 SDI or less, TDS below 1000 and pH of 8. Please see water temperature conversion charts to determine actual production rate for each installation. Chlorine reduction and other pretreatment may be required. Membrane rejection rates are based on membrane manufacturer's specifications. Pre-Filter is model PWMB10M5 melt blown cartridge. Systems are designed for use with municipal and well water.

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

# Series PWR2511

## Commercial Reverse Osmosis Systems

### Ordering Information

| MODEL NO. | ORDERING CODE | DESCRIPTION |
|---|---|---|
| PWR25111011 | 7100066 | 150 Gallon Per Day Reverse Osmosis System With Auto Flush |
| PWR25112011 | 7100067 | 250 Gallon Per Day Reverse Osmosis System With Auto Flush |
| PWR25113011 | 7100068 | 600 Gallon Per Day Reverse Osmosis System With Auto Flush |
| PWR25113021 | 7100069 | 1200 Gallon Per Day Reverse Osmosis System With Auto Flush |
| PWR2864 | 7100088 | Optional Stainless Steel Leg Kit For All Models |

### Performance

| | | | | |
|---|---|---|---|---|
| **Maximum Productivity** (gallons per day) | 150 | 250 | 600 | 1200 |
| **Quality** (average membrane rejection) | 98 % | 98 % | 98 % | 98 % |
| **Recovery** (user adjustable) | 15 - 75 % | 15 – 75% | 15 - 75 % | 25 - 75 % |
| Membrane Size | 2.5" x 14" | 2.5" x 21" | 2.5" x 40" | 2.5" x 40" |
| Number Of Membranes | 1 | 1 | 1 | 2 |
| **Prefilter** (system ships with one 5-micron cartridge) | 10" | | | |
| Feed Water Connection | ½" NPT | | | |
| **Product Water Connection** (tubing OD) | ⅜" | | | |
| **Reject Water Connection** (tubing OD) | ⅜" | | | |
| **Feed Water Required** (maximum) | 2.4 gpm | | | |
| **Feed Water Pressure** (minimum) | 10 psi | | | |
| **Drain Required** (maximum) | 2.4 gpm | | | |
| Electrical Requirement | 120 VAC 60 Hz 8 amps | | | |
| **Motor Horse Power** | ½ | | | |
| **Dimensions W x H x D** (approximate) | 22" x 32" x 12" | | 22" x 52" x 12" | |
| **Shipping Weight** (estimated pounds) | 50 | 50 | 60 | 70 |

*For additional information, access online literature ES-WQ-PWR2511*

**⚠ 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.

PWRO440

### 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)
- 2½" liquid filled pump pressure gauge
- Corrosion resistant 300 psi FRP high pressure membrane housing(s)
- Product flow meter
- Reject flow meter
- Concentrate needle valve
- Non-metallic recycle needle valve
- Feed water and product water TDS monitor

### 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 pre-treated for scale prevention (softened), de-chlorinated (carbon filter), and free of sediment.**

**RO system requires separate RO storage tank/delivery pump - see page #38 or call Pure Water Technical Support at 1.800.224.1299 for details**

**For indoor installation only.**

### 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** | 10 amps | 12 amps | 15 amps |
| **Dimensions W x D x H** | 20" x 20" x 50" (600 x 600 x 1270mm) | 20" x 20" x 50" (600 x 600 x 1270mm) | 20" x 26" x 50" (600 x 600 x 1270mm) |
| **Shipping Weight** (estimated lbs.) | 120 lbs. / 54 kgs. | 150 lbs. / 68 kgs. | 180 lbs. / 82 kgs. |

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.

*For additional information, access online literatureES-WQ-PWRO440.*

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

# 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.

PWTNKPKG

### Grundfos® MQ3 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 and adjusts speed based on flow.

### 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 | FLOAT SWITCH AND JUNCTION BOX | BULKHEAD FITTINGS | OVERFLOW | PUMP |
|---|---|---|---|---|---|---|
| PWTNK165PKG | 7100459 | 165 | Installed | Installed | Installed | Grundfos® MQ3 |
| PWTNK300PKG | 7100460 | 300 | Installed | Installed | Installed | Grundfos® MQ3 |
| PWTNK500PKG | 7100461 | 500 | Installed | Installed | Installed | Grundfos® MQ3 |

## Replacement Commercial RO Membranes

| MODEL NO. | ORDERING CODE | GPD | DESCRIPTION | QUANTITY PER CARTON |
|---|---|---|---|---|
| PWMEM150 | 7100184 | 150 | 2½" x 14" Commercial Membrane | 1 |
| PWMEM300 | 7100185 | 300 | 2½" x 21" Commercial Membrane | 1 |
| PWMEM600 | 7100186 | 600 | 2½" x 40" Commercial Membrane | 1 |
| PWMEM2200 | 7100187 | 2200 | 4" x 40" Commercial Membrane | 1 |

*For additional information, access online literature ES-WQ-PWTNKPKG*

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

- Systems for Scale Control
- Systems for Chlorine, Taste and Odor
- Systems for Sediment Reduction with High Efficiency Micro Z™ Filter Media
- Water Softeners
- Reverse Osmosis


OF220-2


OF1465C

PWC10 PWC30

PWS10

PWS20-2

PWR4021

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

## OneFlow® Anti-Scale System

### Connection Sizes: ½" and ¾" (15 and 20mm)
### Flow Rates: From 0.5 gpm to 4 gpm (1.9 lpm to 15.2 lpm)

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

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

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

OF110-1

OF120-2

OF140-4

### Features

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

### Models

| MODEL NO. | ORDERING CODE | MAXIMUM FLOW RATE | CONNECTION SIZES |
|---|---|---|---|
| OF110–1 | 0002148 | 1 gpm (4 lpm) | ½" (15mm) FNPT |
| OF120–2 | 0002149 | 2 gpm (8 lpm) | ½" (15mm) FNPT |
| OF140–4 | 0002150 | 4 gpm (15 lpm) | ¾" (20mm) FNPT |

### Replacement Filters

| MODEL NO. | ORDERING CODE | FREQUENCY |
|---|---|---|
| OF110RM | 0002161 | Cartridge should be replaced every 12 months |
| OF120RM | 0002162 | Cartridge should be replaced every 12 months |
| OF140RM | 0002163 | Cartridge should be replaced every 12 months |

*For additional information, access online literature ES-OF110_120_140*

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

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

## OneFlow® Anti-Scale System

### Connection Sizes: ½" and ¾" (15 and 20mm)
### Flow Rates: From 0.5 gpm to 4 gpm (1.9 lpm to 15.2 lpm)

The OneFlow® Anti-Scale System with two filter housings provides protection from scale formation and reduces chlorine and other off tastes to improve overall water quality in Food Service applications. The OneFlow® system is a dual cartridge-based system that may be installed on a cold water line prior to a water-using device (coffee maker, espresso machine, post-mix system or other appliance) that requires protection from the ill effects of hard water. OneFlow® works exceptionally well where the water is being heated or brought to steam.

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

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

OF210-1

OF220-2

OF240-4

### Features

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

### Models

| MODEL NO. | ORDERING CODE | MAXIMUM FLOW RATE | CONNECTION SIZES |
|---|---|---|---|
| OF210–1 | 0002151 | 1 gpm (4 lpm) | ½" (15mm) FNPT |
| OF220–2 | 0002152 | 2 gpm (8 lpm) | ½" (15mm) FNPT |
| OF240–4 | 0002153 | 4 gpm (15 lpm) | ¾" (20mm) FNPT |

### Replacement Filters

| MODEL NO. | ORDERING CODE | FREQUENCY |
|---|---|---|
| OF110RM | 0002161 | Cartridge should be replaced every 12 months |
| OF120RM | 0002162 | Cartridge should be replaced every 12 months |
| OF140RM | 0002163 | Cartridge should be replaced every 12 months |
| OF210RC | 0002164 | Cartridge should be replaced every 6 months |
| OF220RC | 0002165 | Cartridge should be replaced every 6 months |
| OF240RC | 0002166 | Cartridge should be replaced every 6 months |

*For additional information, access online literature ES-OF210_220_240*

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

# Model OFTWH

## OneFlow® Anti-Scale System

### Connection Sizes: ¾" (20mm)
### Flow Rates: From 0.5 gpm to 10 gpm (1.9 lpm to 38 lpm)

OFTWH

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

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

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

### Features

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

### Models

| MODEL NO. | ORDERING CODE | PEAK FLOW RATE | CONNECTION SIZE |
|---|---|---|---|
| OFTWH | 0002182 | 10 gpm (38 lpm) | ¾" (20mm) FNPT |

### Replacement Cartridge

| MODEL NO. | ORDERING CODE | FREQUENCY |
|---|---|---|
| OFTWHRM | 0002183 | Cartridge should be replaced every 2 YEARS. |

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

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

# Models OF744-10, OF844-12, OF948-16, OF1054-20 and OF1252-30

## OneFlow® Anti-Scale System

### Connection Sizes: ¾", 1" and 1¼" (20, 25, 32mm)
### Flow Rates: 5 gpm to 30 gpm (38 lpm to 144 lpm)


OF744-10 OF844-12 OF948-16


OF1054-20 OF1252-30

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

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

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

### Features

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

** For hot water applications where water temperature is 110°F – 150°F (43°C – 66°C), please consult ES-OneFlow-HotWater

### Connection Options

| |
|---|
| ¾" and 1" Sweat (19 and 25mm) |
| 1" and 1¼" Plastic MPT (25 and 32mm) |

### Replacement Media

| MODEL NO. | ORDERING CODE | FREQUENCY |
|---|---|---|
| OF744RM | 0002154 | Media should be replaced every 3 years |
| OF844RM | 0002155 | Media should be replaced every 3 years |
| OF948RM | 0002156 | Media should be replaced every 3 years |
| OF1054RM | 0002157 | Media should be replaced every 3 years |
| OF1252RM | 0002158 | Media should be replaced every 3 years |

### Models

| MODEL NO. | ORDERING CODE | DESCRIPTION |
|---|---|---|
| OF744-10-A | 0002100 | 10 GPM, 3/4" Sweat |
| OF744-10-B | 0002101 | 10 GPM, 1" Sweat |
| OF744-10-C | 0002102 | 10 GPM, 1" Plastic MPT |
| OF744-10-D | 0002103 | 10 GPM, 1-1/4" Plastic MPT |
| OF744-10-E | 0002104 | 10 GPM, 1" Plastic MPT 90 Elbow |
| OF844-12-A | 0002105 | 12 GPM, 3/4" Sweat |
| OF844-12-B | 0002106 | 12 GPM, 1" Sweat |
| OF844-12-C | 0002107 | 12 GPM, 1" Plastic MPT |
| OF844-12-D | 0002108 | 12 GPM, 1-1/4" Plastic MPT |
| OF844-12-E | 0002109 | 12 GPM, 1" Plastic MPT 90 Elbow |
| OF948-16-A | 0002110 | 16 GPM, 3/4" Sweat |
| OF948-16-B | 0002111 | 16 GPM, 1" Sweat |
| OF948-16-C | 0002112 | 16 GPM, 1" Plastic MPT |
| OF948-16-D | 0002113 | 16 GPM, 1-1/4" Plastic MPT |
| OF948-16-E | 0002114 | 16 GPM, 1" Plastic MPT 90 Elbow |
| OF1054-20-A | 0002115 | 20 GPM, 3/4" Sweat |
| OF1054-20-B | 0002116 | 20 GPM, 1" Sweat |
| OF1054-20-C | 0002117 | 20 GPM, 1" Plastic MPT |
| OF1054-20-D | 0002118 | 20 GPM, 1-1/4" Plastic MPT |
| OF1054-20-E | 0002119 | 20 GPM, 1" Plastic MPT 90 Elbow |
| OF1252-30-A | 0002120 | 30 GPM, 3/4" Sweat |
| OF1252-30-B | 0002121 | 30 GPM, 1" Sweat |
| OF1252-30-C | 0002122 | 30 GPM, 1" Plastic MPT |
| OF1252-30-D | 0002123 | 30 GPM, 1-1/4" Plastic MPT |
| OF1252-30-E | 0002124 | 30 GPM, 1" Plastic MPT 90 Elbow |

*For additional information, access online literature ES-OF744_844_948_1054_1252*

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

# Models OF1465-50 and OF1665-75

## OneFlow® Anti-Scale System

### Connection Sizes: 2" (50mm)
### Flow Rates: From 30 gpm to 450 gpm (114 lpm to 1703 lpm)

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

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

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

OF1465

### Features

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

### Connections

| | |
|---|---|
| Inlet Connection | 2" (50mm) PVC Union with 90° Socket |
| Outlet Connection | 2" (50mm) PVC Socket |

### Models

| MODEL NO. | ORDERING CODE | MAXIMUM FLOW RATE |
|---|---|---|
| OF1465-50 | 0002125 | 50 gpm (189.3 lpm) |
| OF1665-75 | 0002126 | 75 gpm (283.9 lpm) |

### Replacement Media

| MODEL NO. | ORDERING CODE | FREQUENCY |
|---|---|---|
| OF1465RM | 0002159 | Media should be replaced every 3 years |
| OF1665RM | 0002160 | Media should be replaced every 3 years |

** For hot water applications where water temperature is 110°F – 150°F (43° – 66°C), please consult ES-OneFlow-HotWater

*For additional information, access online literature ES-OF1465_1665*

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

# Series PWC

## Commercial Carbon Filter Systems

### Connection Sizes: 1" to 3" (25 - 80mm)
### Flow Rates: Up to 129 gpm (488 lpm)

Watts Pure Water Series PWC Activated Carbon Filters are highly effective backwashing media filtration systems for the removal of chlorine as well as taste, odor, and color caused by organics, from water.

They are suitable for commercial applications with dechlorination flow rates up to 129 gallons per minute with media bed sizes ranging from 1 to 35 cubic feet in size. If higher flow rates are required multiple units can be installed in parallel. The media bed is cleaned of captured sediment by periodic backwashing and flushing. This cleaning cycle is time clock demand initiated and can be programmed to occur at any time that is convenient for the user. All steps of the cleaning cycle as well as returning to service are fully automatic and do not require manual actuation.

Watts Pure Water Series PWC activated carbon filters are designed for point of use or point of entry applications where dechlorinated water is required. Chlorine, an oxidizing agent, is added to municipal water to destroy micro-organisms. Chlorine causes the destruction of reverse osmosis membranes and polymer based ion exchange resins. Chlorine also causes objectionable tastes and odors in certain applications. Activated carbon in general is used for dechlorination, removal of taste, color, and odor caused by organics, as well as trace hydrocarbon removal from water. For applications involving trace hydrocarbon removal or taste, color, and odor removal due to organics, consult your Watts representative for proper sizing and carbon selection. Watts Series PWC activated carbon filters utilize 12x40 mesh coconut shell carbon granules which are tailored for chlorine removal. Coconut shell carbon media has a high micro-porosity which makes it ideally suited for the removal of low molecular weight contaminants such as chlorine. Another advantage of this carbon is its superior hardness, which combined with a de-dusting process in its production, creates an exceptionally clean product with low fines.

These systems are ideal for food and bottled water processing, restaurant drink station water treatment, commercial ice production, soft drink water processing, reverse osmosis pretreatment, ion exchange resin pretreatment, and general dechlorination of municipal water.


PWC10


PWC15


PWC20


PWC30

### Features

- WQA Certified fully automatic time clock initiated control valve
- Sophisticated digital electronic controls that store operating history that can be accessed by the user
- Fully adjustable backwash and flush cycles
- Durable brass bodied control valve for years of service
- Dry contact lock out switch for remote interface is standard
- High surface area with a minimum of 1,050 $m^2/g$, low carbon fines, coconut shell carbon
- Highly corrosion resistant NSF Certified fiberglass tanks
- Durable polypropylene lower distribution system

### Standards

Control Valve- WQA Certified to NSF/ANSI Std. 61

Mineral Tank- NSF Certified to ANSI Std. 44 or 61

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

## Ordering Information

| MODEL NO. | ORDERING CODE | DESCRIPTION | PIPE SIZE | SPACE REQUIRED W X D X H | WEIGHT |
|---|---|---|---|---|---|
| PWC10111A10 | 7100009 | 1 Cubic Foot Carbon Filter with Auto Backwash | 1" | 10" x 11" x 60" | 90 lbs. |
| PWC10111B10 | 7100010 | 1.5 Cubic Foot Carbon Filter with Auto Backwash | 1" | 11" x 12" x 65" | 105 lbs. |
| PWC10111C10 | 7100011 | 2 Cubic Foot Carbon Filter with Auto Backwash | 1" | 13" x 14" x 65" | 117 lbs. |
| PWC10111D10 | 7100012 | 3 Cubic Foot Carbon Filter with Auto Backwash | 1" | 15" x 16" x 75" | 194 lbs. |
| PWC15121E10 | 7100013 | 4 Cubic Foot Carbon Filter with Auto Backwash | 1½" | 17" x 18" x 75" | 254 lbs. |
| PWC15121G10 | 7100014 | 7 Cubic Foot Carbon Filter with Auto Backwash | 1½" | 23" x 24" x 84" | 471 lbs. |
| PWC20141H10 | 7100015 | 10 Cubic Foot Carbon Filter with Auto Backwash | 2" | 27" x 27" x 95" | 735 lbs. |
| PWC20141I10 | 7100016 | 15 Cubic Foot Carbon Filter with Auto Backwash | 2" | 33" x 33" x 95" | 1432 lbs. |
| PWC30151J10 | 7100017 | 20 Cubic Foot Carbon Filter with Auto Backwash | 3" | 40" x 48" x 114" | 1965 lbs. |
| PWC30151K10 | 7100018 | 30 Cubic Foot Carbon Filter with Auto Backwash | 3" | 46" x 54" x 114" | 3038 lbs. |
| PWC30151L10 | 7100019 | 35 Cubic Foot Carbon Filter with Auto Backwash | 3" | 52" x 60" x 114" | 3645 lbs. |

## Specifications

| MODEL NO. | MINERAL TANK | | | FLOW RATES FOR SERVICE AND BACKWASH | |
|---|---|---|---|---|---|
| | TANK SIZE | CARBON FT3 | UNDERBED 1/2 X 1/4 - 1/4 X 1/8 - #20 | SERVICE GPM CHLORINE REDUCTION | BACKWASH GPM |
| PWC10111A10 | 9" x 48" | 1.0 | - / - / 10 lbs. | 3.7 GPM | 4.0 GPM |
| PWC10111B10 | 10" x 54" | 1.5 | - / - / 10 lbs. | 5.5 GPM | 5.0 GPM |
| PWC10111C10 | 12" x 52" | 2.0 | - / - / 30 lbs. | 7.4 GPM | 7.0 GPM |
| PWC10111D10 | 14" x 65" | 3.0 | - / - / 60 lbs. | 11.1 GPM | 10 GPM |
| PWC15121E10 | 16" x 65" | 4.0 | - / - / 80 lbs. | 14.8 GPM | 12 GPM |
| PWC15121G10 | 21" x 62" | 7.0 | - / - / 100 lbs. | 25.9 GPM | 26 GPM |
| PWC20141H10 | 24" x 72" | 10 | - / 100 lbs. / 100 lbs. | 37 GPM | 30 GPM |
| PWC20141I10 | 30" x 72" | 15 | - / 200 lbs. / 200 lbs. | 55.5 GPM | 50 GPM |
| PWC30151J10 | 36" x 72" | 20 | - / 300 lbs. / 200 lbs. | 74 GPM | 70 GPM |
| PWC30151K10 | 42" x 72" | 30 | - / 400 lbs. / 200 lbs. | 111 GPM | 90 GPM |
| PWC30151L10 | 48" x 72" | 35 | 500 lbs. / 500 lbs. / 500 lbs. | 129.5 GPM | 100 GPM |

*For additional information, access online literature ES-WQ-PWC*

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

# Series PWM

## Commercial Micro Z™ Filter Systems

### Connection Sizes: 1" to 3" (25 - 80 mm)
### Flow Rates: Up to 106 gpm (401 lpm)

Watts Pure Water Series PWM Micro Z™ Filters are highly effective backwashing media filtration systems for the removal of sediment and suspended solids from water.

They are suitable for commercial applications with flow rates up to 106 gallons per minute with media bed sizes ranging from 1 to 20 cubic feet in size. If higher flow rates are required multiple units can be installed in parallel. The media bed is cleaned of captured sediment by periodic backwashing and flushing. This cleaning cycle is time clock demand initiated and can be programmed to occur at any time that is convenient for the user. All steps of the cleaning cycle as well as returning to service are fully automatic and do not require manual actuation.

Watts Pure Water Series PWM Sediment Filters are designed for point of use or point of entry applications where filtered water is required. Micro Z™ is a naturally occurring form of Zeolite that offers superior filtration characteristics over and above sand, anthracite, and garnet products currently in use today. The key to Micro Z™'s performance is its hydrophilic properties combined with a jagged external surface texture. This gives Micro Z™ a sediment holding capacity of 2.8 times that of sand, which reduces backwash waste water volumes, and higher service flow rates which reduces over all system size and cost. Micro Z™ has a 3-5 micron nominal particle size removal rating versus 15-30 micron with other conventional back-washable medias.

Reverse osmosis pretreatment, micro and ultra filtration system pretreatment, cartridge filtration pretreatment, sediment reduction in city and rural water, municipal water filtration, as well as general turbidity reduction are all common applications for the Watts Pure Water Series PWM Micro Z™ filter systems.

Filtered water is a cleaner supply water for boilers, solenoid valves, pumps, faucets, aerator screens, reverse osmosis systems, micro and ultra filtration systems, pools, aquariums, washing, and rinsing processes that reduces down time and costly repairs.


PWM10


PWM15


PWM20


PWM30

### Features

- WQA Certified fully automatic time clock initiated control valve
- Sophisticated digital electronic controls that store operating history that can be accessed by the user
- Fully adjustable backwash and flush cycles
- Durable brass bodied control valve for years of service
- Dry contact lock out switch for remote interface is standard
- NSF Certified high capacity Micro Z™ filter media
- Highly corrosion resistant NSF Certified fiberglass tanks
- Durable polypropylene lower distribution system

### Standards

Control Valve- WQA Certified to NSF/ANSI Std. 61

Micro Z™ Filter Media- NSF Certified to ANSI Std. 61

Mineral Tank- NSF Certified to ANSI Std. 44 or 61

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

# Systems for Sediment Reduction with High Efficiency Micro Z™ Filter Media



## Ordering Information

| MODEL NO. | ORDERING CODE | DESCRIPTION | PIPE SIZE | SPACE REQUIRED W X D X H | WEIGHT |
|---|---|---|---|---|---|
| PWM10111A10 | 7100000 | 1 Cubic Foot Micro Z™ filter with Auto Backwash | 1" | 10" x 11" x 60" | 118 lbs. |
| PWM10111B10 | 7100001 | 1.5 Cubic Foot Micro Z™ filter with Auto Backwash | 1" | 11" x 12" x 6"5 | 147 lbs. |
| PWM10111C10 | 7100002 | 2 Cubic Foot Micro Z™ filter with Auto Backwash | 1" | 13" x 14" x 65" | 173 lbs. |
| PWM15121D10 | 7100003 | 3 Cubic Foot Micro Z™ filter with Auto Backwash | 1½" | 15" x 16" x 75" | 278 lbs. |
| PWM15121E10 | 7100004 | 4 Cubic Foot Micro Z™ filter with Auto Backwash | 1½" | 17" x 18" x 75" | 366 lbs. |
| PWM15121G10 | 7100005 | 7 Cubic Foot Micro Z™ filter with Auto Backwash | 1½" | 23" x 24" x 84" | 667 lbs. |
| PWM20141H10 | 7100006 | 10 Cubic Foot Micro Z™ filter with Auto Backwash | 2" | 27" x 27" x 95" | 1015 lbs. |
| PWM20141I10 | 7100007 | 15 Cubic Foot Micro Z™ filter with Auto Backwash | 2" | 33" x 33" x 95" | 1852 lbs. |
| PWM30151J10 | 7100008 | 20 Cubic Foot Micro Z™ filter with Auto Backwash | 3" | 40" x 48" x 114" | 2525 lbs. |

## Specifications

| MODEL NO. | MINERAL TANK | | | FLOW RATES FOR SERVICE AND BACKWASH | | | |
|---|---|---|---|---|---|---|---|
| | | | | SERVICE GPM | | | |
| | TANK SIZE | TANK SIZE $FT^3$ | MICRO Z™ $Ft^3$ | 10 GPM $Ft^2$ | 15 GPM $Ft^2$ | 20 GPM $Ft^2$ | BACKWASH GPM |
| PWM10111A10 | 9" x 48" | .44 | 1.0 | 4.4 | 6.6 | 8.8 | 7.0 GPM |
| PWM10111B10 | 10" x 54" | .54 | 1.5 | 5.4 | 8.1 | 10.8 | 7.0 GPM |
| PWM10111C10 | 12" x 52" | .78 | 2.0 | 7.8 | 11.7 | 15.6 | 10 GPM |
| PWM15121D10 | 14" x 65" | 1.07 | 3.0 | 10.7 | 16.0 | 21.4 | 20 GPM |
| PWM15121E10 | 16" x 65" | 1.39 | 4.0 | 13.9 | 20.8 | 27.8 | 20 GPM |
| PWM15121G10 | 21" x 62" | 2.41 | 7.0 | 24.1 | 36.1 | 48.2 | 40 GPM |
| PWM20141H10 | 24" x 72" | 3.14 | 10 | 31.4 | 47.1 | 62.8 | 50 GPM |
| PWM20141I10 | 30" x 72" | 4.91 | 15 | 49.1 | 73.6 | 98.2 | 85 GPM |
| PWM30151J10 | 36" x 72" | 7.07 | 20 | 70.7 | 106.1 | 141.4 | 100 GPM |

*For additional information, access online literature ES-WQ-PWM*

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

# Series PWS10

## Commercial Water Softening Systems

### Connection Size: 1" (25 mm)
### Flow Rates: Up to 25 gpm (94 lpm)

PWS10

Watts Pure Water Series PWS10 Water Softening Systems are highly efficient conventional cation exchange type water softeners. They are suitable for commercial applications ranging from 30,000 to 120,000 grains of hardness removal and flow rates up to 25 gallons per minute. Regeneration is meter demand initiated. All cycles of regeneration are fully automatic and do not require manual actuation.

Watts Pure Water Series PWS10 water softeners are designed for point of use or point of entry applications where the benefits of softened water are required. These systems exchange scale-forming calcium and magnesium ions with non-scale forming sodium ions to create soft water for a variety of applications. Steam boiler make up water, water heater pretreatment, reverse osmosis pretreatment, sterilizer make up water, washing, and process water are all common applications for the Watts Pure Water Series PWS10 Water Softeners.

Softened water provides a wide variety of benefits from not introducing scale into pipes, valves, water heating equipment, heat exchangers, and cooling towers to reducing mineral build up in areas that see excessive splashing such as food preparation counters and sink areas. Softened water also conserves soaps and cleaning agents by eliminating the formation of soap curd, so your cleaners can work on cleaning - not reacting with the hardness in your water.

### Features

- WQA Certified fully automatic metered demand control valve
- Sophisticated digital electronic controls that store operating history that can be accessed by the user
- Fully adjustable regeneration cycles
- Durable brass bodied control valve for years of service
- Dry contact lock out switch for remote interface is standard
- WQA Certified high capacity resin
- Highly corrosion resistant NSF Certified fiberglass tanks
- Durable polypropylene lower distribution system

### Standards

Control Valve- WQA Certified to NSF/ANSI Std. 61

Ion Exchange Resin- WQA Certified to NSF/ANSI Std. 44

Mineral Tank- NSF Certified to ANSI Std. 44 or 61

### Ordering Information

| MODEL NO. | ORDERING CODE | DESCRIPTION | PIPE SIZE | SPACE REQUIRED W X D X H | WEIGHT |
|---|---|---|---|---|---|
| PWS10111A11 | 7100020 | 1 Cubic Foot Simplex Softener with Flow Meter | 1" | 18" x 32" x 59" | 116 lbs. |
| PWS10111B11 | 7100021 | 1.5 Cubic Foot Simplex Softener with Flow Meter | 1" | 18" x 33" x 65" | 136 lbs. |
| PWS10111C11 | 7100022 | 2 Cubic Foot Simplex Softener with Flow Meter | 1" | 18" x 35" x 63" | 196 lbs. |
| PWS10111D11 | 7100023 | 3 Cubic Foot Simplex Softener with Flow Meter | 1" | 18" x 40" x 76" | 240 lbs. |
| PWS10111E11 | 7100024 | 4 Cubic Foot Simplex Softener with Flow Meter | 1" | 18" x 40" x 76" | 320 lbs. |

### Specifications

| MODEL NO. | MINERAL TANK | | | BRINE TANK | | SOFTENING CAPACITY | | LBS. SALT PER REGENERATION | | FLOW RATE & PRESSURE | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TANK SIZE | RESIN FT3 | GRAVEL | TANK SIZE | SALT FILL | MAX | MIN | MAX | MIN | SERV GPM | DROP PSI | BKW GPM |
| PWS10111A11 | 9" x 48" | 1.0 | 10 lbs. | 18" x 40" | 400 | 30 K | 20 K | 15 | 6 | 9/15 | 15/25 | 2.0 |
| PWS10111B11 | 10" x 54" | 1.5 | 10 lbs. | 18" x 40" | 400 | 45 K | 30 K | 22.5 | 9 | 10/15 | 15/25 | 2.4 |
| PWS10111C11 | 12" x 52" | 2.0 | 30 lbs. | 18" x 40" | 400 | 60 K | 40 K | 30 | 12 | 15/20 | 15/25 | 3.5 |
| PWS10111D11 | 14" x 65" | 3.0 | 60 lbs. | 18" x 40" | 400 | 90 K | 60 K | 45 | 18 | 18/23 | 15/25 | 5.0 |
| PWS10111E11 | 16" x 65" | 4.0 | 80 lbs. | 18" x 40" | 400 | 120 K | 80 K | 60 | 24 | 19/25 | 15/25 | 7.0 |

*For additional information, access online literature ES-WQ-PWS10*

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

# Series PWS10T

## Commercial Water Softening Systems

**Connection Size: 1" (25mm)**
**Flow Rates: Up to 25 gpm (94 lpm)**

Watts Pure Water Series PWS10T Water Softening Systems are highly efficient, twin alternating, conventional cation exchange type water softeners. They are designed to supply continuous softened water without interruption.

Series PWS10T water softeners are suitable for commercial applications ranging from 30,000 to 120,000 grains of hardness removal per tank and flow rates up to 25 gallons per minute. Regeneration is meter demand initiated. All cycles of regeneration are fully automatic and do not require manual actuation.

Watts Pure Water Series PWS10T water softeners are designed for point-of-use or point-of-entry applications where the benefits of softened water are required and water demand is round the clock. These systems exchange scale-forming calcium and magnesium ions with non-scale forming sodium ions to create soft water for a variety of applications. Steam boiler make up water, water heater pre-treatment, reverse osmosis pretreatment, cooling tower make up water, sterilizer make up water, washing, and process water are all common applications for the Watts Pure Water Series PWS10T water softeners.

Softened water provides a wide variety of benefits from not introducing scale into pipes, valves, water heating equipment, heat exchangers, and cooling towers to reducing mineral build up in areas that see excessive splashing such as food preparation counters and sink areas. Softened water also conserves soaps and cleaning agents by eliminating the formation of soap curd, so your cleaners can work on cleaning - not reacting with the hardness in your water.

PWS10T

### Features

- Twin alternating design for continuous softened water
- WQA Certified fully automatic metered demand control valve
- Sophisticated digital electronic controls that store operating history that can be accessed by the user
- Fully adjustable regeneration cycles
- Durable brass bodied control valve for years of service
- Dry contact lock out switch for remote interface is standard
- WQA Certified high capacity resin
- Highly corrosion resistant NSF Certified fiberglass tanks
- Durable polypropylene lower distribution system

### Standards

Control Valve- WQA Certified to NSF/ANSI Std. 61

Ion Exchange Resin- WQA Certified to NSF/ANSI Std. 44

Mineral Tank- NSF Certified to ANSI Std. 44 or 61

### Ordering Information

| MODEL NO. | ORDERING CODE | DESCRIPTION | PIPE SIZE | SPACE REQUIRED D X W X H | WEIGHT |
|---|---|---|---|---|---|
| PWS10T161A21 | 7100055 | 1 Cubic Foot Twin Alt. Water Softener with Flow Meter | 1" | 18" x 42" x 70" | 230 lbs. |
| PWS10T161B21 | 7100056 | 1.5 Cubic Foot Twin Alt. Water Softener with Flow Meter | 1" | 18" x 44" x 76" | 290 lbs. |
| PWS10T161C21 | 7100057 | 2 Cubic Foot Twin Alt. Water Softener with Flow Meter | 1" | 18" x 48" x 74" | 350 lbs. |
| PWS10T161D21 | 7100058 | 3 Cubic Foot Twin Alt. Water Softener with Flow Meter | 1" | 18" x 58" x 87" | 500 lbs. |
| PWS10T161E21 | 7100059 | 4 Cubic Foot Twin Alt. Water Softener with Flow Meter | 1" | 18" x 62" x 87" | 650 lbs. |

### Specifications

| MODEL NO. | MINERAL TANK | | | BRINE TANK | | SOFTENING CAPACITY | | LBS. SALT PER REGENERATION | | FLOW RATE & PRESSURE | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Tank Size* | *Resin Ft³* | *Gravel #20* | *Tank Size* | *Salt Fill* | *Max* | *Min* | *Max* | *Min* | *Serv GPM* | *Drop PSI* | *BKW GPM* |
| PWS10T161A21 | 9" x 48" | 1.0 | 10 lbs. | 18" x 40" | 400 | 30 K | 20 K | 15 | 6 | 9/15 | 15/25 | 2.0 |
| PWS10T161B21 | 10" x 54" | 1.5 | 10 lbs. | 18" x 40" | 400 | 45 K | 30 K | 22.5 | 9 | 10/15 | 15/25 | 2.4 |
| PWS10T161C21 | 12" x 52" | 2.0 | 30 lbs. | 18" x 40" | 400 | 60 K | 40 K | 30 | 12 | 15/20 | 15/25 | 3.5 |
| PWS10T161D21 | 14" x 65" | 3.0 | 60 lbs. | 18" x 40" | 400 | 90 K | 60 K | 45 | 18 | 18/23 | 15/25 | 5.0 |
| PWS10T161E21 | 16" x 65" | 4.0 | 80 lbs. | 18" x 40" | 400 | 120 K | 80 K | 60 | 24 | 19/25 | 15/25 | 7.0 |

*For additional information, access online literature ES-WQ-PWS10T*

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

# Series PWS15

## Commercial Water Softening Systems

### Connection Size: 1½" (40 mm)
### Flow Rates: Up to 55 gpm (208 lpm)

PWS15

Watts Pure Water Series PWS15 Water Softening Systems are highly efficient conventional cation exchange type water softeners. They are suitable for commercial applications ranging from 60,000 to 300,000 grains of hardness removal and flow rates up to 55 gallons per minute. Regeneration is meter demand initiated. All cycles of regeneration are fully automatic and do not require manual actuation.

Watts Pure Water Series PWS15 water softeners are designed for point of use or point of entry applications where the benefits of softened water are required. These systems exchange scale-forming calcium and magnesium ions with non scale-forming sodium ions to create soft water for a variety of applications. Steam boiler make up water, water heater pretreatment, reverse osmosis pretreatment, sterilizer make up water, washing, and process water are all common applications for the Watts Pure Water Series PWS15 water softeners.

Softened water provides a wide variety of benefits from not introducing scale into pipes, valves, water heating equipment, heat exchangers, and cooling towers to reducing mineral build-up in areas that see excessive splashing such as food preparation counters and sink areas. Softened water also conserves soaps and cleaning agents by eliminating the formation of soap curd, so your cleaners can work on cleaning - not reacting with the hardness in your water.

### Features

- WQA Certified fully automatic metered demand control valve
- Sophisticated digital electronic controls that store operating history that can be accessed by the user
- Fully adjustable regeneration cycles
- Durable brass bodied control valve for years of service
- Dry contact lock out switch for remote interface is standard
- WQA Certified high capacity resin
- Highly corrosion resistant NSF Certified fiberglass tanks
- Durable polypropylene lower distribution system

### Standards

Control Valve- WQA Certified to NSF/ANSI Std. 61

Ion Exchange Resin- WQA Certified to NSF/ANSI Std. 44

Mineral Tank- NSF Certified to ANSI Std. 44 or 61

### Ordering Information

| MODEL NO. | ORDERING CODE | DESCRIPTION | PIPE SIZE | SPACE REQUIRED W X D X H | WEIGHT |
|---|---|---|---|---|---|
| PWS15121C11 | 7100025 | 2 Cubic Foot Simplex Softener with Flow Meter | 1½" | 24" x 42" x 75" | 210 lbs. |
| PWS15121D11 | 7100026 | 3 Cubic Foot Simplex Softener with Flow Meter | 1½" | 24" x 44" x 87" | 240 lbs. |
| PWS15121E11 | 7100027 | 4 Cubic Foot Simplex Softener with Flow Meter | 1½" | 24" x 46" x 87" | 320 lbs. |
| PWS15121F11 | 7100028 | 5 Cubic Foot Simplex Softener with Flow Meter | 1½" | 24" x 50" x 87" | 380 lbs. |
| PWS15121G11 | 7100029 | 7 Cubic Foot Simplex Softener with Flow Meter | 1½" | 24" x 52" x 84" | 585 lbs. |
| PWS15121H11 | 7100030 | 10 Cubic Foot Simplex Softener with Flow Meter | 1½" | 39" x 69" x 96" | 710 lbs. |

### Specifications

| MODEL NO. | MINERAL TANK | | | BRINE TANK | | SOFTENING CAPACITY | | LBS. SALT PER REGENERATION | | FLOW RATE & PRESSURE | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TANK SIZE | RESIN FT3 | GRAVEL | TANK SIZE | SALT FILL | MAX | MIN | MAX | MIN | SERV GPM | DROP PSI | BKW GPM |
| PWS15121C11 | 12" x 52" | 2.0 | 30 lbs. | 18" x 40" | 400 | 60 K | 40 K | 30 | 12 | 15/20 | 15/25 | 4.0 |
| PWS15121D11 | 14" x 65" | 3.0 | 60 lbs. | 18" x 40" | 400 | 90 K | 60 K | 45 | 18 | 17/22 | 15/25 | 5.0 |
| PWS15121E11 | 16" x 65" | 4.0 | 80 lbs. | 18" x 40" | 400 | 120 K | 80 K | 60 | 24 | 25/40 | 15/25 | 7.0 |
| PWS15121F11 | 18" x 65" | 5.0 | 100 lbs. | 24" x 41" | 600 | 150 K | 100 K | 75 | 30 | 30/50 | 15/25 | 11.0 |
| PWS15121G11 | 21" x 62" | 7.0 | 100 lbs. | 24" x 50" | 800 | 210 K | 140 K | 105 | 42 | 35/53 | 15/25 | 13.0 |
| PWS15121H11 | 24" x 72" | 10.0 | 200 lbs. | 30" x50" | 1400 | 300 K | 200 K | 150 | 60 | 40/55 | 15/25 | 15.0 |

*For additional information, access online literature ES-WQ-PWS15*

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

# Series PWS15T

## Commercial Water Softening Systems

**Connection Size: 1½" (40 mm)**
**Flow Rates: Up to 55 gpm (208 lpm)**

Watts Pure Water Series PWS15T Water Softening Systems are highly efficient, twin alternating, conventional cation exchange type water softeners. They are designed to supply continuous softened water without interruption.

Series PWS15T water softeners are suitable for commercial applications ranging from 60,000 to 300,000 grains of hardness removal per tank and flow rates up to 55 gallons per minute. Regeneration is meter demand initiated. All cycles of regeneration are fully automatic and do not require manual actuation.

Watts Pure Water Series PWS15T water softeners are designed for point of use or point of entry applications where the benefits of softened water are required and water demand is round the clock. These systems exchange scale-forming calcium and magnesium ions with non-scale forming sodium ions to create soft water for a variety of applications.

Steam boiler make up water, water heater pretreatment, reverse osmosis pretreatment, cooling tower make up water, sterilizer make up water, washing, and process water are all common applications for the Watts Pure Water Series PWS15T water softeners.

Softened water provides a wide variety of benefits from not introducing scale into pipes, valves, water heating equipment, heat exchangers, and cooling towers to reducing mineral build up in areas that see excessive splashing such as food preparation counters and sink areas. Softened water also conserves soaps and cleaning agents by eliminating the formation of soap curd, so your cleaners can work on cleaning - not reacting with the hardness in your water.

PWS15T

### Features

- Twin alternating design for continuous softened water
- WQA Certified fully automatic metered demand control valve
- Sophisticated digital electronic controls that store operating history that can be accessed by the user
- Fully adjustable regeneration cycles
- Durable brass bodied control valve for years of service
- Dry contact lock out switch for remote interface is standard
- WQA Certified high capacity resin
- Highly corrosion resistant NSF Certified fiberglass tanks
- Durable polypropylene lower distribution system

### Standards

Control Valve- WQA Certified to NSF/ANSI Std. 61

Ion Exchange Resin- WQA Certified to NSF/ANSI Std. 44

Mineral Tank- NSF Certified to ANSI Std. 44 or 61

### Ordering Information

| MODEL NO. | ORDERING CODE | DESCRIPTION | PIPE SIZE | SPACE REQUIRED W X D X H | WEIGHT |
|---|---|---|---|---|---|
| PWS15T171C21 | 7100060 | 2 Cubic Foot Twin Alt. Water Softener with Flow Meter | 1½" | 24" x 42" x 75" | 370 lbs. |
| PWS15T171D21 | 7100061 | 3 Cubic Foot Twin Alt. Water Softener with Flow Meter | 1½" | 24" x 44" x 87" | 550 lbs. |
| PWS15T171E21 | 7100062 | 4 Cubic Foot Twin Alt. Water Softener with Flow Meter | 1½" | 24" x 46" x 87" | 720 lbs. |
| PWS15T171F21 | 7100063 | 5 Cubic Foot Twin Alt. Water Softener with Flow Meter | 1½" | 24" x 50" x 89" | 900 lbs. |
| PWS15T171G21 | 7100064 | 7 Cubic Foot Twin Alt. Water Softener with Flow Meter | 1½" | 24" x 52" x 89" | 1215 lbs. |
| PWS15T171H21 | 7100065 | 10 Cubic Foot Twin Alt. Water Softener with Flow Meter | 1½" | 39" x 69" x 96" | 1750 lbs. |

### Specifications

| MODEL NO. | MINERAL TANK | | | BRINE TANK | | SOFTENING CAPACITY | | LBS. SALT PER REGENERATION | | FLOW RATE & PRESSURE | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TANK SIZE | RESIN FT3 | GRAVEL | TANK SIZE | SALT FILL | MAX | MIN | MAX | MIN | SERV GPM | DROP PSI | BKW GPM |
| PWS15T171C21 | 12" x 52" | 2.0 | 30 lbs. | 24" x 41" | 600 | 60 K | 40 K | 30 | 12 | 15/20 | 15/25 | 5.0 |
| PWS15T171D21 | 14" x 65" | 3.0 | 60 lbs. | 24" x 41" | 600 | 90 K | 60 K | 45 | 18 | 17/22 | 15/25 | 7.0 |
| PWS15T171E21 | 16" x 65" | 4.0 | 80 lbs. | 24" x 41" | 600 | 120 K | 80 K | 60 | 24 | 25/40 | 15/25 | 9.0 |
| PWS15T171F21 | 18" x 65" | 5.0 | 100 lbs. | 24" x 41" | 600 | 150 K | 100 K | 75 | 30 | 30/50 | 15/25 | 12.0 |
| PWS15T171G21 | 21" x 62" | 7.0 | 100 lbs. | 24" x 50" | 800 | 210 K | 140 K | 105 | 42 | 35/53 | 15/25 | 15.0 |
| PWS15T171H21 | 24" x 72" | 10.0 | 200 lbs. | 30" x 50" | 1200 | 300 K | 200 K | 150 | 60 | 40/55 | 15/25 | 15.0 |

*For additional information, access online literature ES-WQ-PWS15T*

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

# Series PWS20 and PWS20-2

## Commercial Water Softening Systems

### Connection Size: 2" (50mm)
### Flow Rates: Up to 105 gpm (397 lpm)

Watts Pure Water Series PWS20 Water Softening Systems are highly efficient conventional cation exchange type water softeners. They are suitable for commercial applications ranging from 90,000 to 600,000 grains of hardness removal per tank and flow rates up to 105 gallons per minute. Where continuous softened water is required PWS20-2 duplex alternating systems can be specified for uninterrupted service. Regeneration is meter demand initiated. All cycles of regeneration are fully automatic and do not require manual actuation.

Watts Pure Water Series PWS20 water softeners are designed for point of use or point of entry applications where the benefits of softened water are required. These systems exchange scale-forming calcium and magnesium ions with non-scale forming sodium ions to create soft water for a variety of applications.

Steam boiler make up water, water heater pretreatment, reverse osmosis pretreatment, cooling tower make up water, sterilizer make up water, washing, and process water are all common applications for the Watts Pure Water Series PWS20 water softeners.

Softened water provides a wide variety of benefits from not introducing scale into pipes, valves, water heating equipment, heat exchangers, and cooling towers to reducing mineral build up in areas that see excessive splashing such as food preparation counters and sink areas. Softened water also conserves soaps and cleaning agents by eliminating the formation of soap curd, so your cleaners can work on cleaning - not reacting with the hardness in your water.

PWS20

PWS20-2

### Features

- WQA Certified fully automatic metered demand control valve
- Sophisticated digital electronic controls that store operating history that can be accessed by the user
- Fully adjustable regeneration cycles
- Durable brass bodied control valve for years of service
- Dry contact lock out switch for remote interface is standard
- WQA Certified high capacity resin
- Highly corrosion resistant NSF Certified fiberglass tanks
- Durable polypropylene lower distribution system

### Standards

Control Valve- WQA Certified to NSF/ANSI Std. 61

Ion Exchange Resin- WQA Certified to NSF/ANSI Std. 44

Mineral Tank- NSF Certified to ANSI Std. 44 or 61



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

## Ordering Information

| MODEL NO. | ORDERING CODE | DESCRIPTION | SPACE REQUIRED W X D X H | WEIGHT |
|---|---|---|---|---|
| PWS20131D11 | 7100031 | 3 Cubic Foot 2" Simplex Softener with Flow Meter | 18" x 37" x 87" | 265 lbs. |
| PWS20131E11 | 7100032 | 4 Cubic Foot 2" Simplex Softener with Flow Meter | 18" x 39" x 87" | 350 lbs. |
| PWS20131F11 | 7100033 | 5 Cubic Foot 2" Simplex Softener with Flow Meter | 24" x 48" x 89" | 400 lbs. |
| PWS20131G11 | 7100034 | 7 Cubic Foot 2" Simplex Softener with Flow Meter | 24" x 52" x 89" | 600 lbs. |
| PWS20131H11 | 7100035 | 10 Cubic Foot 2" Simplex Softener with Flow Meter | 30" x 60" x 96" | 710 lbs. |
| PWS20131I11 | 7100036 | 15 Cubic Foot 2" Simplex Softener with Flow Meter | 39" x 75" x 106" | 1160 lbs. |
| PWS20131J11 | 7100037 | 20 Cubic Foot 2" Simplex Softener with Flow Meter | 39" x 81" x 107" | 1560 lbs. |
| PWS20131D21 | 7100038 | 3 Cubic Foot 2" Duplex Alternating Softener with Flow Meter | 18" x 60" x 87" | 450 lbs. |
| PWS20131E21 | 7100039 | 4 Cubic Foot 2" Duplex Alternating Softener with Flow Meter | 18" x 64" x 87" | 500 lbs. |
| PWS20131F21 | 7100040 | 5 Cubic Foot 2" Duplex Alternating Softener with Flow Meter | 24" x 72" x 89" | 800 lbs. |
| PWS20131G21 | 7100041 | 7 Cubic Foot 2" Duplex Alternating Softener with Flow Meter | 24" x 80" x 89" | 1200 lbs. |
| PWS20131H21 | 7100042 | 10 Cubic Foot 2" Duplex Alternating Softener with Flow Meter | 30" x 90" x 96" | 1400 lbs. |
| PWS20131I21 | 7100043 | 15 Cubic Foot 2" Duplex Alternating Softener with Flow Meter | 39" x 111" x 106" | 2200 lbs. |
| PWS20131J21 | 7100044 | 20 Cubic Foot 2" Duplex Alternating Softener with Flow Meter | 39" x 123" x 107" | 3000 lbs. |

## Specifications

| MODEL NO. | MINERAL TANK | | | BRINE TANK | | SOFTENING CAPACITY | | LBS. SALT PER REGENERATION | | FLOW RATE & PRESSURE | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TANK SIZE | RESIN FT3 | GRAVEL | TANK SIZE | SALT FILL | MAX | MIN | MAX | MIN | SERV GPM | DROP PSI | BKW GPM |
| PWS20131D11 | 14" x 65" | 3 | 60 lbs. | 18" x 40" | 400 | 90 K | 60 K | 45 | 18 | 25/40 | 15/25 | 5 |
| PWS20131E11 | 16" x 65" | 4 | 80 lbs. | 18" x 40" | 400 | 120 K | 80 K | 60 | 24 | 35/55 | 15/25 | 7 |
| PWS20131F11 | 18" x 65" | 5 | 100 lbs. | 24" x 41" | 600 | 150 K | 100 K | 75 | 30 | 57/65 | 15/25 | 10 |
| PWS20131G11 | 21" x 62" | 7 | 100 lbs. | 24" x 50" | 600 | 210 K | 140 K | 105 | 42 | 60/77 | 15/25 | 12 |
| PWS20131H11 | 24" x 72" | 10 | 200 lbs. | 30" x 50" | 1200 | 300 K | 200 K | 150 | 60 | 74/97 | 15/25 | 15 |
| PWS20131I11 | 30" x 72" | 15 | 400 lbs. | 39" x 48" | 2200 | 450 K | 300 K | 225 | 90 | 80/100 | 15/25 | 25 |
| PWS20131J11 | 36" x 72" | 20 | 500 lbs. | 39" x 48" | 2200 | 600 K | 400 K | 300 | 120 | 84/105 | 15/25 | 35 |

*For additional information, access online literature ES-WQ-PWS20_S20-2*

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

# Series PWS30 and PWS30-2

## Commercial Water Softening Systems

### Connection Size: 3" (80 mm)
### Flow Rates: Up to 280 gpm (1059 lpm)

Watts Pure Water Series PWS30 Water Softening Systems are highly efficient conventional cation exchange type water softeners. They are suitable for commercial applications ranging from 300,000 to 1,050,000 grains of hardness removal per tank and flow rates up to 280 gallons per minute. Where continuous softened water is required PWS30-2 duplex alternating systems can be specified for uninterrupted service. Regeneration is meter demand initiated. All cycles of regeneration are fully automatic and do not require manual actuation.

Watts Pure Water Series PWS30 water softeners are designed for point of use or point of entry applications where the benefits of softened water are required. These systems exchange scale-forming calcium and magnesium ions with non-scale forming sodium ions to create soft water for a variety of applications. Steam boiler make up water, water heater pretreatment, reverse osmosis pretreatment, cooling tower make up water, sterilizer make up water, washing, and process water are all common applications for the Watts Pure Water Series PWS30 water softeners.

Softened water provides a wide variety of benefits from not introducing scale into pipes, valves, water heating equipment, heat exchangers, and cooling towers to reducing mineral build up in areas that see excessive splashing such as food preparation counters and sink areas. Softened water also conserves soaps and cleaning agents by eliminating the formation of soap curd, so your cleaners can work on cleaning - not reacting with the hardness in your water.

PWS30

PWS30-2

### Features

- WQA Certified fully automatic metered demand control valve
- Sophisticated digital electronic controls that store operating history that can be accessed by the user
- Fully adjustable regeneration cycles
- Durable brass bodied control valve for years of service
- Dry contact lock out switch for remote interface is standard
- WQA Certified high capacity resin
- Highly corrosion resistant NSF Certified fiberglass tanks
- Durable polypropylene lower distribution system

### Standards

Control Valve- WQA Certified to NSF/ANSI Std. 61

Ion Exchange Resin- WQA Certified to NSF/ANSI Std. 44

Mineral Tank- NSF Certified to ANSI Std. 44 or 61



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

## Ordering Information

| MODEL NO. | ORDERING CODE | DESCRIPTION | SPACE REQUIRED W X D X H | WEIGHT |
|---|---|---|---|---|
| PWS30151H11 | 7100045 | 10 Cubic Foot 3" Simplex Softener with Flow Meter | 39" x 69" x 103" | 1070 lbs. |
| PWS30151I11 | 7100046 | 15 Cubic Foot 3" Simplex Softener with Flow Meter | 39" x 75" x 107" | 1600 lbs. |
| PWS30151J11 | 7100047 | 20 Cubic Foot 3" Simplex Softener with Flow Meter | 39" x 81" x 109" | 2015 lbs. |
| PWS30151K11 | 7100048 | 30 Cubic Foot 3" Simplex Softener with Flow Meter | 42" x 90" x 117" | 3245 lbs. |
| PWS30151L11 | 7100049 | 35 Cubic Foot 3" Simplex Softener with Flow Meter | 50" x 104" x 117" | 4295 lbs. |
| PWS30151H21 | 7100050 | 10 Cubic Foot 3" Duplex Alternating Softener with Flow Meter | 39" x 100" x 103" | 2070 lbs. |
| PWS30151I21 | 7100051 | 15 Cubic Foot 3" Duplex Alternating Softener with Flow Meter | 39" x 117" x 107" | 3000 lbs. |
| PWS30151J21 | 7100052 | 20 Cubic Foot 3" Duplex Alternating Softener with Flow Meter | 39" x 129" x 109" | 4015 lbs. |
| PWS30151K21 | 7100053 | 30 Cubic Foot 3" Duplex Alternating Softener with Flow Meter | 42" x 144" x 117" | 6245 lbs. |
| PWS30151L21 | 7100054 | 35 Cubic Foot 3" Duplex Alternating Softener with Flow Meter | 50" x 164" x 117" | 8295 lbs. |

## Specifications

| MODEL NO. | MINERAL TANK | | | BRINE TANK | | SOFTENING CAPACITY | | LBS. SALT PER REGENERATION | | FLOW RATE & PRESSURE | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TANK SIZE | RESIN FT3 | GRAVEL | TANK SIZE | SALT FILL | MAX | MIN | MAX | MIN | SERV GPM | DROP PSI | BKW GPM |
| PWS30151H11 | 24" x 72" | 10 | 200 lbs. | 30" x 50" | 1400 | 300 K | 200 K | 150 | 60 | 120/170 | 15/25 | 15 |
| PWS30151I11 | 30" x 72" | 15 | 400 lbs. | 39" x 48" | 2200 | 450 K | 300 K | 225 | 90 | 158/212 | 15/25 | 25 |
| PWS30151J11 | 36" x 72" | 20 | 500 lbs. | 39" x 60" | 2700 | 600 K | 400 K | 300 | 120 | 185/250 | 15/25 | 35 |
| PWS30151K11 | 42" x 72" | 30 | 700 lbs. | 42" x 60" | 3100 | 900 K | 600 K | 450 | 180 | 200/268 | 15/25 | 45 |
| PWS30151L11 | 48" x 72" | 35 | 900 lbs. | 50" x 60" | 4500 | 1050K | 700 K | 525 | 210 | 213/280 | 15/25 | 60 |

*For additional information, access online literature ES-WQ-PWS30_S30-2*

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

# Series PWR2511

## Commercial Reverse Osmosis Systems

### Flow Rates: Up to 1,200 gallons per day (4,542 lpd)

PWR2511

Watts Pure Water Series PWR2511 Reverse Osmosis (RO) Systems are commercial grade high-pressure RO units for the reduction of total dissolved solids from water. They are designed to supply reverse osmosis quality water with production rates ranging from 150 to 1,200 gallons per day. The standard units are designed for wall mounting. Where floor mounting is preferred the optional floor mounting kit Model No. PWR2864 can be specified. Reverse osmosis is a process where high-pressure feed water is fed into a semi-permeable membrane. In the membrane, pure water is allowed to pass through the membrane material and exit as purified permeate water. Dissolved mineral salts are not allowed to pass through the membrane and become a concentrated reject stream that is sent to drain. These RO systems use high-rejection membranes to achieve a minimum average NaCl ionic rejection of 95 percent.

Series PWR2511 RO systems are a well designed rugged line of purifiers. This series comes with a pre-selected assortment of features for monitoring and operation. Corrosion resistant 300 psi FRP high pressure membrane housings, inlet and outlet pre-filter pressure gauges, low pressure switch with delayed auto restart, permeate pressure switch, adjustable reject recycle, permeate and reject water flow meters, permeate water check valve, inlet solenoid valve, membrane feed water pressure gauge, adjustable reject valve, and membrane auto flush are all standard features. The standard systems are designed to feed an atmospheric storage tank or a pressurized bladder tank. Reverse osmosis water has a wide variety of applications including municipal water treatment, steam boiler and steam sterilizer make up, laboratory use, spot free rinsing, ice and beverage water, water for cooking, food processing, metal plating and finishing, as well as water for humidification. Reverse osmosis is also the pretreatment of choice for ion exchange type de-ionization (DI) systems. Using RO water as make up to a DI system reduces the exhaustion rate of the DI resin by up to 95 percent saving time, money, and chemicals associated with DI resin regeneration.

### Features

- 304 stainless steel wall mounted support frame
- Corrosion resistant 300 psi FRP high pressure membrane housing(s)
- Pressure gauges for pre-filter inlet/outlet and membrane feed pressure
- Low feed water pressure safety switch
- Microprocessor based controller with delayed auto restart after low pressure shut down
- High-pressure/high-rejection membranes with 95% minimum average salt rejection
- Permeate and reject water flow meters
- Adjustable reject and reject recycle valves
- Permeate pressure switch and check valve
- Automatic inlet solenoid valve
- Membrane Auto Flush

### Standards

- Pre-filter Housing NSF/ANSI Certified 42
- Pre-filter Cartridge NSF/ANSI Certified 42

***NOTICE***

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

**RO system requires separate RO storage tank/delivery pump - see page #38 or call Pure Water Technical Support at 1.800.224.1299 for details**

**Notes:** Performance specifications are based on 77°F feed water, 3 SDI or less, TDS below 1000 and pH of 8. Please see water temperature conversion charts to determine actual production rate for each installation. Chlorine reduction and other pretreatment may be required. Membrane rejection rates are based on membrane manufacturer's specifications. Pre-Filter is model PWMB10M5 melt blown cartridge. Systems are designed for use with municipal and well water.

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

## Ordering Information

| MODEL NO. | ORDERING CODE | DESCRIPTION |
|---|---|---|
| PWR25111011 | 7100066 | 150 Gallon Per Day Reverse Osmosis System With Auto Flush |
| PWR25112011 | 7100067 | 250 Gallon Per Day Reverse Osmosis System With Auto Flush |
| PWR25113011 | 7100068 | 600 Gallon Per Day Reverse Osmosis System With Auto Flush |
| PWR25113021 | 7100069 | 1200 Gallon Per Day Reverse Osmosis System With Auto Flush |
| PWR2864 | 7100088 | Optional Stainless Steel Leg Kit For All Models |

## Performance

| | | | | |
|---|---|---|---|---|
| **Maximum Productivity** (gallons per day) | 150 | 250 | 600 | 1200 |
| **Quality** (average membrane rejection) | 98 % | 98 % | 98 % | 98 % |
| **Recovery** (user adjustable) | 15 - 75 % | 15 – 75 % | 15 - 75 % | 25 - 75 % |
| Membrane Size | 2½" x 14" | 2½" x 21" | 2½" x 40" | 2½" x 40" |
| Number Of Membranes | 1 | 1 | 1 | 2 |
| **Prefilter** (system ships with one 5-micron cartridge) | 10" | | | |
| Feed Water Connection | ½" NPT | | | |
| **Product Water Connection** (tubing OD) | ⅜" | | | |
| **Reject Water Connection** (tubing OD) | ⅜" | | | |
| **Feed Water Required** (maximum) | 2.4 gpm | | | |
| **Feed Water Pressure** (minimum) | 10 psi | | | |
| **Drain Required** (maximum) | 2.4 gpm | | | |
| Electrical Requirement | 120 VAC 60 Hz 8 amps | | | |
| **Motor Horse Power** | ½ | | | |
| **Dimensions W x H x D** (approximate) | 22" x 32" x 12" | | 22" x 52" x 12" | |
| **Shipping Weight** (estimated pounds) | 50 | 50 | 60 | 70 |

*For additional information, access online literature ES-WQ-PWR2511*

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

# Series PWR4011

## Commercial Reverse Osmosis Systems

### Flow Rates: Up to 5,400 gallons per day (20,439 lpd)

Watts Pure Water Series PWR4011 Reverse Osmosis (RO) Systems are commercial grade low-energy RO units for the reduction of total dissolved solids from water. They are designed to supply reverse osmosis quality water with production rates ranging from 1,800 to 5,400 gallons per day. These units are designed for wall mount installations. Reverse osmosis is a process where high-pressure feed water is fed into a semi-permeable membrane. In the membrane, pure water is allowed to pass through the membrane material and exit as purified permeate water. Dissolved mineral salts are not allowed to pass through the membrane and become a concentrated reject stream that is sent to a drain. These RO systems use low-energy membranes to achieve a minimum average NaCl ionic rejection of 95 percent.

The Series PWR4011 RO systems are a well designed rugged line of purifiers with high-pressure piping constructed of stainless steel. This series comes with a pre-selected assortment of features for monitoring and operation. Corrosion resistant 300 psi FRP high pressure membrane housings, inlet and outlet pre-filter pressure gauges, low-pressure switch with delayed auto restart, inputs for tank level and pretreatment interlock, adjustable reject recycle, permeate and reject water flow meters, permeate water check valve, inlet solenoid valve, membrane feed water pressure gauge, and adjustable reject valve are all standard features. These systems are designed to feed an atmospheric storage tank for collection of the reverse osmosis water. Reverse osmosis water has a wide variety of applications including municipal water treatment, steam boiler and steam sterilizer make up, laboratory use, spot free rinsing, ice and beverage water, water for cooking, food processing, metal plating and finishing, as well as water for humidification. Reverse osmosis is also the pretreatment of choice for ion exchange type de-ionization (DI) systems. Using RO water as make up to a DI system reduces the exhaustion rate of the DI resin by up to 95 percent saving time, money, and chemicals associated with DI resin regeneration.

PWR4011

### Features

- Stainless steel high-pressure piping
- 304 stainless steel wall mounted support frame
- Corrosion resistant 300 psi FRP high pressure membrane housings
- Pressure gauges for pre-filter inlet/outlet and membrane feed pressure
- Low feed water pressure safety switch
- Microprocessor based controller with delayed auto restart after low-pressure shut down
- Tank level and pretreatment interlock inputs
- Low-energy membranes with 95% minimum average salt rejection
- Permeate and reject water flow meters
- Adjustable reject and reject recycle valves
- Permeate check valve
- Automatic inlet solenoid valve
- 10" full-flow pre-filter

### Standards

- Pre-filter Housing NSF/ANSI Certified 42

***NOTICE***

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

**RO system requires separate RO storage tank/delivery pump - see page #38 or call Pure Water Technical Support at 1.800.224.1299 for details**

*For additional information, access online literature ES-WQ-PWR4011*

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

## Ordering Information

| MODEL NO. | ORDERING CODE | DESCRIPTION |
|---|---|---|
| PWR40113012 | 7100070 | 1800 gallon per day RO with stainless steel valves and fittings |
| PWR40113022 | 7100071 | 3600 gallon per day RO with stainless steel valves and fittings |
| PWR40113032 | 7100072 | 5400 gallon per day RO with stainless steel valves and fittings |

## Performance

| | | | |
|---|---|---|---|
| **Maximum Productivity** (gallons per day) | 1800 | 3600 | 5400 |
| **Quality** (typical membrane percent rejection) | 98 % | 98 % | 98 % |
| **Recovery** (adjustable) | 15 - 75 % | 25 - 75 % | 35 – 75 % |
| Membrane Size | 4" x 40" | | |
| **Number Of Membranes** | 1 | 2 | 3 |
| **Prefilter** (system ships with one 5-micron cartridge) | 10" FF | | |
| Feed Water Connection | 1" NPT | | |
| **Product Water Connection** (tubing OD) | ½" | ½" | ⅝" |
| **Reject Water Connection** (tubing OD) | ½" | | |
| **Feed Water Required** (at 50% recovery) | 2.5 gpm | 5 gpm | 7.5 gpm |
| **Feed Water Pressure** (minimum) | 20 psi | | |
| **Drain Required** (maximum) | 10 gpm | | |
| **Electrical Requirement** (other voltages available) | 230 VAC 60 Hz 6 amps | 230 VAC 60 Hz 6 amps | 230 VAC 60 Hz 9 amps |
| **Motor Horse Power** | 1 | 1 | 1.5 |
| **Dimensions L x H x D** (approximate) | 41" x 51" x 18" | | |

**Notes:** Performance specifications are based on 77°F feed water, 3 SDI or less, TDS below 1000 and pH of 8. Please see water temperature conversion charts to determine actual production rate for each installation. Chlorine reduction and other pretreatment may be required. Membrane rejection rates are based on membrane manufacturer's specifications. Pre-Filter is model PWPL10FFM5 pleated cartridge. Systems are designed for use with municipal and well water.







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

# Series PWR4021

## Commercial Reverse Osmosis Systems

### Flow Rates: Up to 10,800 gallons per day (40,878 lpd)

Watts Pure Water Series PWR4021 Reverse Osmosis (RO) Systems are commercial grade high-pressure RO units for the reduction of total dissolved solids from water. They are designed to supply reverse osmosis quality water with production rates ranging from 3,600 to 10,800 gallons per day. These units are designed for floor mount installations. Reverse osmosis is a process where high-pressure feed water is fed into a semi-permeable membrane. In the membrane, pure water is allowed to pass through the membrane material and exit as purified permeate water. Dissolved mineral salts are not allowed to pass through the membrane and become a concentrated reject stream that is sent to drain. These RO systems use high-pressure/high-rejection membranes to achieve a minimum average NaCl ionic rejection of 95 percent.

The Series PWR4021 RO systems are a well designed rugged line of purifiers. This series comes with a pre-selected assortment of features, including our digital controller, for monitoring and operation. Corrosion resistant 300 psi FRP high pressure membrane housings, inlet and outlet pre-filter pressure gauges, low-pressure switch with delayed auto restart, inputs for tank level and pretreatment interlock, conductivity meter, high conductivity alarm output, adjustable reject recycle, permeate and reject water flow meters, reject recycle flow meter, permeate water check valve, inlet solenoid valve, membrane feed and reject water pressure gauges, auto flush, and adjustable reject valve are all standard features. These systems are designed to feed an atmospheric storage tank for collection of the reverse osmosis water. Reverse osmosis water has a wide variety of applications including municipal water treatment, steam boiler and steam sterilizer make up, laboratory use, spot free rinsing, ice and beverage water, water for cooking, food processing, metal plating and finishing, as well as water for humidification. Reverse osmosis is also the pretreatment of choice for ion exchange type deionization (DI) systems. Using RO water as make up to a DI system reduces the exhaustion rate of the DI resin by up to 95 percent saving time, money, and chemicals associated with DI resin regeneration.

PWR4021

### Features

- Membrane Auto Flush
- Powder coated carbon steel support frame
- Corrosion resistant 300 psi FRP high pressure membrane housings
- Pressure gauges for pre-filter inlet/outlet, membrane feed, and reject water pressure
- Low feed water pressure safety switch
- Digital microprocessor based controller with delayed auto restart after low-pressure shut down
- Permeate water conductivity meter with high-conductivity alarm output
- Tank level and pretreatment interlock inputs
- High-pressure/high-rejection membranes with 95% minimum average salt rejection
- Permeate, reject recycle, and reject water flow meters
- Adjustable reject and reject recycle valves
- Permeate check valve
- Automatic inlet solenoid valve
- 20" full-flow pre-filter

### Standards

Pre-filter Housing NSF/ANSI Certified 42

***NOTICE***

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

**RO system requires separate RO storage tank/delivery pump - see page #38 or call Pure Water Technical Support at 1.800.224.1299 for details**

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

## Ordering Information

| MODEL NO. | ORDERING CODE | DESCRIPTION |
|---|---|---|
| PWR40213023 | 7100073 | 3600 GPD Reverse Osmosis System with Micro Processor Control and Auto Flush |
| PWR40213033 | 7100074 | 5400 GPD Reverse Osmosis System with Micro Processor Control and Auto Flush |
| PWR40213043 | 7100075 | 7200 GPD Reverse Osmosis System with Micro Processor Control and Auto Flush |
| PWR40213053 | 7100076 | 9000 GPD Reverse Osmosis System with Micro Processor Control and Auto Flush |
| PWR40213063 | 7100077 | 10,800 GPD Reverse Osmosis System with Micro Processor Control and Auto Flush |

## Performance

| | | | | | |
|---|---|---|---|---|---|
| **Maximum Productivity** (gallons per day) | 3600 | 5400 | 7200 | 9000 | 10,800 |
| **Quality** (typical membrane percent rejection) | 98 % | | | | |
| **% Recovery** (adjustable) | 25 - 75 | 36 - 75 | 42 - 75 | 46 - 75 | 50 – 75 |
| Membrane Size | 4" x 40" | | | | |
| **Number Of Membranes** | 2 | 3 | 4 | 5 | 6 |
| **Prefilter** (systems ship with one 5-micron cartridge) | 20" FF | | | | |
| Feed Water Connection | 1" FNPT | | | | |
| **Product Water Connection** | ¾" FNPT | | | | |
| **Reject Water Connection** | ¾" FNPT | | | | |
| **Feed Water Required** (GPM at 50% recovery) | 5 | 7.5 | 10 | 12.5 | 15 |
| **Feed Water Pressure** (minimum) | 20 psi | | | | |
| **Drain Required** (maximum) | 15 gpm | | | | |
| **Electrical Requirement** (other voltages available) | 230 VAC, 3-phase, 60 Hz, 15 amps | | | | |
| **Motor Horse Power** | 5 | | | | |
| **Dimensions L x W x H** (approximate) | 60” x 18” x 56” | | | | |
| **Shipping Weight** (estimated pounds) | 400 | 500 | 600 | 700 | 800 |

**Notes:** Performance specifications are based on 77°F feed water, 3 SDI or less, TDS below 1000 and pH of 8. Please see water temperature conversion charts to determine actual production rate for each installation. Chlorine reduction and other pretreatment may be required. Membrane rejection rates are based on membrane manufacturer's specifications. Pre-Filter is model PWPL10FFM5 pleated cartridge. Systems are designed for use with municipal and well water.

*For additional information, access online literature ES-WQ-PWR4021*

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

# Series PWR4022

## Commercial Reverse Osmosis Systems

### Flow Rate: Up to 15 gpm (56 lpm)

Watts Pure Water Series PWR4022 Reverse Osmosis (RO) Systems are commercial grade high pressure RO units for the reduction of total dissolved solids from water. They are designed to supply reverse osmosis quality water with production rates ranging from 10 to 15 gallons per minute. These units are designed for floor mount installations. Reverse osmosis is a process where high pressure feed water is fed into a semi-permeable membrane. In the membrane, pure water is allowed to pass through the membrane material and exit as purified permeate water. Dissolved mineral salts are not allowed to pass through the membrane and become a concentrated reject stream that is sent to drain. These RO systems use high pressure/high rejection membranes to achieve a minimum average NaCl ionic rejection of 97 percent.

The Series PWR4022 RO systems are a well designed rugged line of purifiers. This series comes with a pre-selected assortment of features, including our digital controller, for monitoring and operation. Corrosion resistant fiberglass reinforced plastic (FRP) membrane housings, inlet and outlet pre-filter pressure gauges, low pressure switch with delayed auto restart, inputs for tank level and pretreatment interlock, conductivity meter, high conductivity alarm output, adjustable reject recycle, permeate and reject water flow meters, reject recycle flow meter, permeate water check valve, inlet solenoid valve, membrane feed and reject water pressure gauges, auto flush, and adjustable reject valve are all standard features. These systems are designed to feed an atmospheric storage tank for collection of the reverse osmosis water. Reverse osmosis water has a wide variety of applications including municipal water treatment, steam boiler and steam sterilizer make up, laboratory use, spot free rinsing, ice and beverage water, water for cooking, food processing, metal plating and finishing, as well as water for humidification. Reverse osmosis is also the pretreatment of choice for ion exchange type de-ionization (DI) systems. Using RO water as make up to a DI system reduces the exhaustion rate of the DI resin by up to 95 percent saving time, money, and chemicals associated with DI resin regeneration.

PWR4022

### Features

- Membrane Auto Flush
- Powder coated carbon steel support frame
- Corrosion resistant 300psi FRP high pressure membrane housings
- Pressure gauges for pre-filter inlet/outlet, membrane feed, and reject water pressure
- Low feed water pressure safety switch
- Digital microprocessor based controller with delayed auto restart after low pressure shut down
- Permeate water conductivity meter with high conductivity alarm output
- Tank level and pretreatment interlock inputs
- High pressure/high rejection membranes with 97% minimum average salt rejection
- Permeate, reject recycle, and reject water flow meters
- Adjustable reject and reject recycle valves
- Permeate check valve
- Automatic inlet solenoid valve
- 20" full-flow pre-filter

### Standards

Pre-filter Housing- NSF/ANSI Certified Std. 42

Membrane Housings- NSF/ANSI Certified Std. 61

***NOTICE***

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

**RO system requires separate RO storage tank/delivery pump - see page #38 or call Pure Water Technical Support at 1.800.224.1299 for details**

*For additional information, access online literature ES-WQ-PWR4022*

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

## Ordering Information

| MODEL NO. | ORDERING CODE | DESCRIPTION |
|---|---|---|
| PWR40223083 | 7100078 | 10 GPM Reverse Osmosis System with Micro Processor Control and Auto Flush |
| PWR40223103 | 7100079 | 12.5 GPM Reverse Osmosis System with Micro Processor Control and Auto Flush |
| PWR40223123 | 7100080 | 15 GPM Reverse Osmosis System with Micro Processor Control and Auto Flush |

## Performance

| | | | |
|---|---|---|---|
| **Maximum Productivity** (gallons per minute) | 10 | 12.5 | 15 |
| **Quality** (typical membrane percent rejection) | 98 % | | |
| **Recovery** (adjustable) | 60 - 75 % | | |
| **Membrane Size** | 4" x 40" | | |
| **Membrane Array** (two elements per vessel) | 2:1:1 | 2:2:1 | 3:2:1 |
| **Prefilter** (system ships with one 5-micron cartridge) | 20" Full Flow | | |
| **Feed Water Connection** | 1" FNPT | | |
| **Product Water Connection** | 1" FNPT | | |
| **Reject Water Connection** | ¾" FNPT | | |
| **Feed Water Required** (GPM at 65% recovery) | 17 | 21 | 25 |
| **Minimum Feed Water Pressure** | 20 psig | | |
| **Drain Required** (maximum) | 17 | 21 | 25 |
| **Electrical Requirement** (other voltages available) | 230 VAC, 3-phase, 60 Hz, 20 amps | | |
| **Motor Horse Power / Type** | 7.5 / TEFC | | |
| **Dimensions L x W x H** (approximate) | 96" x 24" x 72" | | |
| **Shipping Weight** (estimated pounds) | 800 | 900 | 1000 |

**Notes:** Performance specifications are based on 77°F feed water, 3 SDI or less, TDS below 1000 and pH of 8. Please see water temperature conversion charts to determine actual production rate for each installation. Chlorine reduction and other pretreatment may be required. Membrane rejection rates are based on membrane manufacturer's specifications. Pre-Filter is model PWPL20FFM5 pleated cartridge. Systems are designed for use with municipal and well water.





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

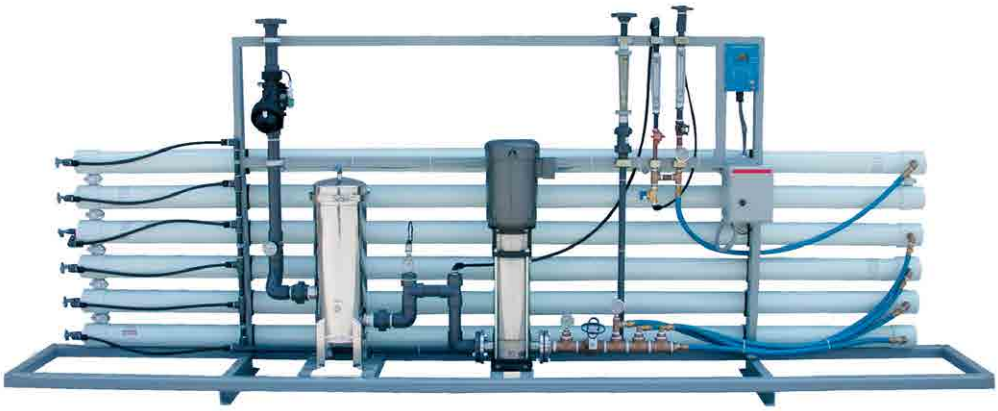
# Series PWR4024

## Commercial Reverse Osmosis Systems

### Flow Rates: Up to 30 gpm (113 lpm)

Watts Pure Water Series PWR4024 Reverse Osmosis (RO) Systems are commercial grade high pressure RO units for the reduction of total dissolved solids from water. They are designed to supply reverse osmosis quality water with production rates ranging from 20 to 30 gallons per minute. These units are designed for floor mount installations. Reverse osmosis is a process where high pressure feed water is fed into a semi-permeable membrane. In the membrane, pure water is allowed to pass through the membrane material and exit as purified permeate water. Dissolved mineral salts are not allowed to pass through the membrane and become a concentrated reject stream that is sent to drain. These RO systems use high pressure/high rejection membranes to achieve a minimum average NaCl ionic rejection of 97 percent.

The Series PWR4024 RO systems are a well designed rugged line of purifiers. This series comes with a pre-selected assortment of features, including our digital controller, for monitoring and operation. Corrosion resistant fiberglass reinforced plastic (FRP) membrane housings, inlet and outlet pre-filter pressure gauges, low pressure switch with delayed auto restart, inputs for tank level and pretreatment interlock, conductivity meter, high conductivity alarm output, adjustable reject recycle, permeate and reject water flow meters, reject recycle flow meter, permeate water check valve, inlet diaphragm valve, membrane feed and reject water pressure gauges, auto flush, and adjustable reject valve, are all standard features. These systems are designed to feed an atmospheric storage tank for collection of the reverse osmosis water. Reverse osmosis water has a wide variety of applications including municipal water treatment, steam boiler and steam sterilizer make up, laboratory use, spot free rinsing, ice and beverage water, water for cooking, food processing, metal plating and finishing, as well as water for humidification. Reverse osmosis is also the pretreatment of choice for ion exchange type de-ionization (DI) systems. Using RO water as make up to a DI system reduces the exhaustion rate of the DI resin by up to 95 percent saving time, money, and chemicals associated with DI resin regeneration.



PWR4024

### Features

- Powder coated carbon steel support frame
- Corrosion resistant 300psi FRP high pressure membrane housings
- Pressure gauges for pre-filter inlet/outlet, membrane feed, and reject water pressure
- Low feed water pressure safety switch
- Digital microprocessor based controller with delayed auto restart after low pressure shut down
- Permeate water conductivity meter with high conductivity alarm output
- Tank level and pretreatment interlock inputs
- High pressure/high rejection membranes with 97% minimum average salt rejection
- Permeate, reject recycle, and reject water flow meters
- Adjustable reject and reject recycle valves
- Permeate check valve
- Automatic inlet diaphragm valve
- 90 gallon per minute full-flow 316 stainless steel pre-filter

### Standards

Pre-filter Housing- NSF/ANSI Certified Std. 42

Membrane Housings- NSF/ANSI Certified Std. 61

***NOTICE***

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

**RO system requires separate RO storage tank/delivery pump - see page #38 or call Pure Water Technical Support at 1.800.224.1299 for details**

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

## Ordering Information

| MODEL NO. | ORDERING CODE | DESCRIPTION |
|---|---|---|
| PWR40243163 | 7100081 | 20 GPM Reverse Osmosis System with Micro Processor Controller and Auto Flush |
| PWR40243203 | 7100082 | 25 GPM Reverse Osmosis System with Micro Processor Controller and Auto Flush |
| PWR40243243 | 7100083 | 30 GPM Reverse Osmosis System with Micro Processor Controller and Auto Flush |

## Performance

| | | | |
|---|---|---|---|
| **Maximum Productivity** (gallons per minute) | 20 | 25 | 30 |
| **Quality** (typical membrane percent rejection) | 98% | | |
| **Recovery** (adjustable) | 65% – 75% | | |
| **Membrane Size** | 4" x 40" | | |
| **Membrane Array** (four elements per vessel) | 2:2 | 3:2 | 4:2 |
| **Prefilter** (system ships with 5-micron cartridges) | 7 round x 20" | | |
| **Feed Water Connection** | 2" Flange | | |
| **Product Water Connection** | 1½" Flange | | |
| **Reject Water Connection** | 1" Flange | | |
| **Feed Water Required** (GPM at 65% recovery) | 31 | 39 | 46 |
| **Minimum Feed Water Pressure** | 20 psig | | |
| **Drain Required** (maximum) | 31 | 39 | 46 |
| **Electrical Requirement** (other voltages available) | 230 VAC, 3-phase, 60 Hz, 30 amps | | |
| **Motor Horse Power / Type** | 10 / TEFC | | |
| **Dimensions L x W x H** (approximate) | 192" x 26" x 72" | | |
| **Shipping Weight** (estimated pounds) | 1400 | 1600 | 1800 |

**Notes:** Performance specifications are based on 77°F feed water, 3 SDI or less, TDS below 1000 and pH of 8. Please see water temperature conversion charts to determine actual production rate for each installation. Chlorine reduction and other pretreatment may be required. Membrane rejection rates are based on membrane manufacturer's specifications. Pre-Filter is model PWHS4X3 filter housing, constructed using 316 stainless steel and 2" MNPT pipe fittings and Watts PWPL2925M5 pleated cartridges.Systems are designed for use with municipal and well water

*For additional information, access online literature ES-WQ-PWR4024*

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

# Series PWR8024

## Commercial Reverse Osmosis Systems

### Flow Rates: Up to 100 gpm (378 lpm)

Watts Pure Water Series PWR8024 Reverse Osmosis (RO) Systems are commercial grade high pressure RO units for the reduction of total dissolved solids from water. They are designed to supply reverse osmosis quality water with production rates ranging from 40 to 100 gallons per minute. These units are designed for floor mount installations. Reverse osmosis is a process where high pressure feed water is fed into a semi-permeable membrane. In the membrane, pure water is allowed to pass through the membrane material and exit as purified permeate water. Dissolved mineral salts are not allowed to pass through the membrane and become a concentrated reject stream that is sent to drain. These RO systems use high-pressure/high-rejection membranes to achieve a minimum average NaCl ionic rejection of 99 percent.

The Series PWR8024 RO systems are a well designed rugged line of purifiers. This series comes with a pre-selected assortment of features, including our digital controller, for monitoring and operation. Corrosion resistant fiberglass reinforced plastic (FRP) membrane housings, inlet and outlet pre-filter pressure gauges, 316 stainless steel membrane feed water piping, low pressure switch with programmable delayed auto restart, inputs for tank level and pretreatment interlock, conductivity meter with percent ionic rejection displayed, high conductivity alarm output, adjustable reject recycle, permeate and reject water flow meters, reject recycle flow meter, permeate water check valve, inlet diaphragm valve, membrane feed and reject water pressure gauges, programmable auto flush, and adjustable reject valve are all standard features.

These systems are designed to feed an atmospheric storage tank for collection of the reverse osmosis water. Reverse osmosis water has a wide variety of applications including municipal water treatment, steam boiler and steam sterilizer make up, laboratory use, spot free rinsing, ice and beverage water, water for cooking, food processing, metal plating and finishing, as well as water for humidification. Reverse osmosis is also the pretreatment of choice for ion exchange type de-ionization (DI) systems. Using RO water as make up to a DI system reduces the exhaustion rate of the DI resin by up to 95 percent saving time, money, and chemicals associated with DI resin regeneration.

PWR8024

### Features

- Membrane auto flush
- Powder coated carbon steel support frame
- Corrosion resistant 300psi FRP high pressure membrane housings
- Pressure gauges for pre-filter inlet/outlet, pump discharge, membrane feed, and reject water pressure
- Low feed water pressure safety switch
- Digital microprocessor based controller with delayed auto restart after low pressure shut down
- Permeate Water Conductivity meter with high conductivity alarm output and percent ionic rejection displayed
- Tank level and pretreatment interlock inputs
- High pressure/high rejection membranes with 99% minimum average salt rejection
- Permeate, reject recycle, and reject water flow meters
- Adjustable reject and reject recycle valves
- Permeate check valve
- Automatic inlet diaphragm valve

### Standards

Membranes- Certified to NSF/ANSI Std. 61

***NOTICE***

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

**RO system requires separate RO storage tank/delivery pump - see page #38 or call Pure Water Technical Support at 1.800.224.1299 for details**

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

## Ordering Information

| MODEL NO. | ORDERING CODE | DESCRIPTION |
|---|---|---|
| PWR80243085 | 7100084 | 40 GPM Reverse Osmosis System with Micro Processor Controller and Auto Flush |
| PWR80243125 | 7100085 | 60 GPM Reverse Osmosis System with Micro Processor Controller and Auto Flush |
| PWR80243165 | 7100086 | 80 GPM Reverse Osmosis System with Micro Processor Controller and Auto Flush |
| PWR80243205 | 7100087 | 100 GPM Reverse Osmosis System with Micro Processor Controller and Auto Flush |
| PWR80243205 | 7100091 | 120 GPM Reverse Osmosis System with Micro Processor Controller and Auto Flush |

## Performance

| | | | | | |
|---|---|---|---|---|---|
| **Maximum Productivity** (gallons per minute) | 40 | 60 | 80 | 100 | 120 |
| **Quality** (typical membrane percent rejection) | 99% | | | | 98% |
| **Recovery** (adjustable) | 65% - 75% | | | | |
| **Membrane Size** | 8" x 40" | | | | 8" x 40" |
| **Membrane Array** (four elements per vessel) | 1:1 | 2:1 | 2:2 | 3:2 | 3:2:1 |
| **Prefilter** (system ships with 5-micron cartridges) | 7 round x 40" | | | | |
| **Feed Water Connection** | 2" Flange | | 2½" Flange | 3" Flange | |
| **Product Water Connection** | 2" Flange | | | 2½" Flange | |
| **Reject Water Connection** | 1½" Flange | | | | |
| **Feed Water Required** (GPM at 65% recovery) | 62 | 93 | 123 | 154 | 185 |
| **Minimum Feed Water Pressure** | 20 PSIG | 20 PSIG | 20 PSIG | 20 PSIG | 20 PSIG |
| **Drain Required** (maximum) | 62 | 93 | 123 | 154 | 160 |
| **460 VAC, 3-phase, 60Hz** (other voltages available) | 25 amps | 30 amps | 35 amps | 40 amps | 40 amps |
| **Motor Horse Power** (TEFC Motor) | 15 | 20 | 25 | 30 | 30 |
| **Dimensions L x W x H** (approximate) | 186" x 26" x 72" | | | | 198" x 42" 72" |
| **Shipping Weight** (estimated pounds) | 2500 | 2800 | 3200 | 3500 | 3800 |

**Notes:** Performance specifications are based on 77°F feed water, 3 SDI or less, TDS below 1000 and pH of 8. Please see water temperature conversion charts to determine actual production rate for each installation. Chlorine reduction and other pretreatment may be required. Membrane rejection rates are based on membrane manufacturer's specifications. Pre-Filter is model PWHSPS7X4 filter housing, constructed using 316 stainless steel and 2" MNPT pipe fittings and Watts PWPL40M5 pleated cartridges. Systems are designed for use with municipal and well water.

*For additional information, access online literature ES-WQ-PWR8024*

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

- 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
- Designer Watts Top Mount Drinking Water Faucet

PWFCT303

PWFCTTM

PWFCT905

PWFCTDFFER

Permeate Pump

Storage Tank

## Part and Accessories Part Number Matrix

**PW FCT TMM BN**

**Pure Water**

**System Type**

RO = Reverse Osmosis
FCT = Faucet

**System Model**

TNK = Storage Tank
303 = 303 Series Standard Faucet
TMM = Top Mount Series Monitor Faucet
TM = Top Mount Series Faucet
703 = 703 Series Faucet
905 = 905 Series Faucet
DFF = Dual Function Faucet

**System Capacity/Finish**

3P = 3 Gallon, Plastic Tank
3 = 3 Gallon, Metal Tank
14 = 14 Gallon, Metal Tank
34 = 34 Gallon, Metal Tank
44 = 44 Gallon, Metal Tank
86 = 86 Gallon, Metal Tank
119 = 119 Gallon Metal Tank
CH = Chrome
BN = Brushed Nickel
BS = Brushed Steel
OB = Oil Rubbed Bronze
WH = White
AM = Almond
BK = Black
CHA = Chrome Air Gap
BNA = Brushed Nickel Air Gap
BSA = Brushed Steel Air Gap
OBA = Oil Rubbed Bronze Air Gap
WHA = White Air Gap
AMA = Almond Air Gap
BKA = Black Air Gap
ST = Straight Design
CR = Cross Design
ER = Euro Design
VS = Vase Design



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

# Pressurized Steel Storage Tanks

These tanks are used for storing reverse osmosis water and have been NSF tested and certified against ANSI/ NSF Standard 58 for material and structural integrity requirements. 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 | ¼" |
| PWROTNK3 | 7100174 | 3 | 3 Gallon - Metal Tank | 11" | 16" | White | ¼" |
| PWROTNK14 | 7100175 | 14 | 14 Gallon - Metal Tank | 15" | 23" | Blue | ¼" |
| PWROTNK34 | 7100176 | 34 | 34 Gallon - Metal Tank | 16" | 29" | Blue | 1¼" |
| PWROTNK44 | 7100177 | 44 | 44 Gallon - Metal Tank | 21" | 36" | Blue | 1¼" |
| PWROTNK86 | 7100178 | 86 | 86 Gallon - Metal Tank | 26" | 45" | Blue | 1¼" |
| PWROTNK119 | 7100179 | 119 | 119 Gallon - Metal Tank | 26" | 60" | Blue | 1¼" |

## 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 | - | ¼" | ¼" | - | - | - | - |
| PWBOOST05KT | 7100181 | Lo-Flow Booster Pump Kit | 0.5 | ¼" | ¼" | 115 | 50/60 | 125 | 1 |
| PWBOOST75KT | 7100182 | Hi-Flow Booster Pump Kit | 0.75 | ⅜" | ⅜" | 115 | 50/60 | 125 | 2 |
| PWDELPMP4.9 | 7100183 | Booster Pump 5 GPM | 5 | ½" | ½" | 115 | 50/60 | 125 | 2.2 |

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

# 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.

PWFCT303

### 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

Chrome

Stainless Steel

Brushed Nickel

White

Almond

Bronze

### Standard Series Faucets - Air Gap

| MODEL NO. | ORDERING CODE | FINISH | CASE QTY. |
|---|---|---|---|
| PWFCT303CHA | 7100195 | Chrome | 50 |
| PWFCT303BNA | 7100196 | Brushed Nickel | 50 |
| PWFCT303BSA | 7100197 | Brushed Stainless Steel | 50 |
| PWFCT3030BA | 7100198 | Oil Rubbed Bronze | 50 |
| PWFCT303WHA | 7100199 | White | 50 |
| PWFCT303AMA | 7100200 | Almond | 50 |

### Standard Series Faucets - Non Air Gap

| MODEL NO. | ORDERING CODE | FINISH | CASE QTY. |
|---|---|---|---|
| PWFCT303CH | 7100188 | Chrome | 50 |
| PWFCT303BN | 7100189 | Brushed Nickel | 50 |
| PWFCT303BS | 7100190 | Brushed Stainless Steel | 50 |
| PWFCT3030B | 7100191 | Oil Rubbed Bronze | 50 |
| PWFCT303WH | 7100192 | White | 50 |
| PWFCT303AM | 7100193 | Almond | 50 |

*For additional information, access online literature ES-WQ-PWFCT303*

**⚠ 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: ⅜" (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, white & black
- 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
- NSF certified for material requirements

Top mount faucets available in wide range of finishes.

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 | ⅜" | Yes |
| PWFCTTMCH | 7100203 | Chrome | Air gap or non air gap | ⅜" | No |
| PWFCTTMMBN | 7100204 | Brushed Nickel | Air gap or non air gap | ⅜" | Yes |
| PWFCTTMBN | 7100205 | Brushed Nickel | Air gap or non air gap | ⅜" | No |
| PWFCTTMMW | 7100206 | White | Air gap or non air gap | ⅜" | Yes |
| PWFCTTMWH | 7100207 | White | Air gap or non air gap | ⅜" | No |
| PWFCTTMOB | 7100211 | Oil Rubbed Bronze | Air gap or non air gap | ⅜" | No |

*For additional information, access online literature ES-WQ-PWFCTTM*

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

# 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 ⅞" mounting hole and ½" 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.**

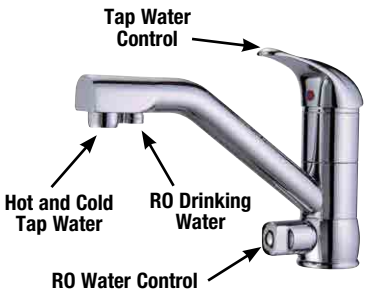
# Series PWFCTDFF

## Dual Function Faucets

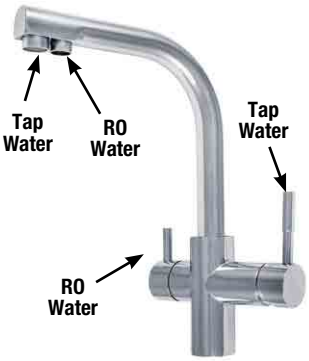
Dual-Function Water Faucet for kitchen sinks. This contemporary 2-in-1 faucet works for both the hot and cold tap water and the filtered reverse osmosis water or any type of filtered water. Our faucets are available in Chrome finish in contemporary, classic, and European styles. The two-in-one faucets work for many popular Reverse Osmosis Systems including Watts.

### Features

- 2-in-1 faucet works for both the hot/cold tap water and the filtered reverse osmosis water
- RO water is delivered via an independent tube
- Available in polished chrome finish in several popular styles and fits many popular RO systems
- Classic, contemporary, and European designs to go well in any kitchen
- NSF listed and certified to NSF/ANSI Standard 61 Section 9

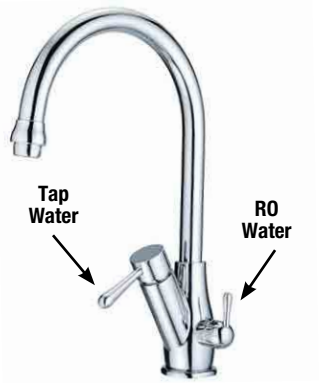


PWFCTDFFST



PWFCTDFFCR

PWFCTDFFER



PWFCTDFFVS

### Dual Function Faucets

| MODEL NO. | ORDERING CODE | STYLE | FINISH | CONNECTION | CASE QTY |
|---|---|---|---|---|---|
| PWFCTDFFST | 7100217 | Kitchen and Drinking Faucet, Straight | Chrome | ⅜" Compression on Flexible Tube | 8 |
| PWFCTDFFCR | 7100218 | Kitchen and Drinking Faucet, Cross | Chrome | ⅜" Compression on Flexible Tube | 8 |
| PWFCTDFFER | 7100219 | Kitchen and Drinking Faucet, European | Chrome | ⅜" Compression on Flexible Tube | 8 |
| PWFCTDFFVS | 7100220 | Kitchen and Drinking Faucet, Vase | Chrome | ⅜" Compression on Flexible Tube | 8 |

*For additional information, access online literature ES-WQ-PWFCTDFF*

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

# Filter Housings

- Individual Boxed Plastic Housings
- Plastic Filter Housings
- Watts Big Bubba Housing and Cartridges
- Stainless Steel Commercial/Industrial Filter Housings
- Jumbo SS Cartridge Housings

Blue/Black

Full-Flow (FF) Series

Clear

Premium Housings

PWHSJUM90

PWWJCHSG

## Filter Housing Part Number Matrix

**PW H P 10 FF 1 B PR**

**Pure Water**

**System Type**
- H = Housing
- WJCHSG = Watts Jumbo Cartridge Housing

**System Model**
- IB = Individually Boxed
- P = Plastic Housing
- S = Stainless Steel

**Housing Size**
- 34VIH = 3/4" Valve-In-Head
- 10FF = 10" Full Flow
- 20FF = 20" Full Flow
- 5 = 5" Housing
- 10 = 10" Housing
- 20 = 20" Housing
- 4X1 = 4 Round, 10" Cartridges
- 4X2 = 4 Round, 20" Cartridges
- 4X3 = 4 Round, 30" Cartridges
- 4X4 = 4 Round, 40" Cartridges
- 5X1 = 5 Round, 10" Cartridges
- 5X3 = 5 Round, 30" Cartridges
- 5X4 = 5 Round, 40" Cartridges
- 7X4 = 7 Round, 40" Cartridges
- 12X3 = 12 Round, 30" Cartridges
- 12X4 = 12 Round, 40" Cartridges
- 22X3 = 22 Round, 30" Cartridges
- 22X4 = 22 Round, 40" Cartridges

**Housing Style**
- FF = Full Flow
- HT = High Temperature
- PS = Premium Series
- JUM40 = Housing Style “40”
- JUM90 = Housing Style “90”
- JUM170 = Housing Style “170”

**Housing Port Size**
- 14 = 1/4" Inch
- 12 = 1/2" Inch
- 34 = 3/4" Inch
- 1 = 1" Inch
- 15 = 1 1/2" Inch

**Housing Color**
- C = Clear Housing
- B = Blue Housing

**Pressure Relief**
- PR = Pressure Relief

# 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, FDA grade, 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 and without pressure relief valves.

PWHP Housings

### 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, high temp and valve-in-head models.

### Features

- Full product line for more types, models, pipe fittings and options
- Heavy-duty construction, made using high-quality FDA grade 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 125°F (52°C)
- Cap, sump and top-seated O-rings compress to provide leak proof sealing

## Individually Boxed Plastic Housings in Master Cartons

| 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 |
| PWHIB20FF | 7100269 | 20" | 1" | Full Flow (FF) | Blue | Black | 4 |

**NOTICE** ***Complete with housing, wrench, bracket and mounting screws**

PWHIB10FF

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

| MODEL NO. | ORDERING CODE | SIZE | PIPE | SUMP | CAP | # CASE |
|---|---|---|---|---|---|---|
| **Clear Housings** | | | | | | |
| PWHP1014C | 7100270 | 10" | ¼" | Clear | White | 4 |
| PWHP1014CPR | 7100271 | 10" | ¼" | Clear | White PR | 4 |
| PWHP1012C | 7100272 | 10" | ½" | Clear | White | 4 |
| PWHP1012CPR | 7100273 | 10" | ½" | Clear | White PR | 4 |
| PWHP1034C | 7100274 | 10" | ¾" | Clear | White | 4 |
| PWHP1034CPR | 7100275 | 10" | ¾" | Clear | White PR | 4 |
| PWHP10FF1CPR | 7100284 | 10" | 1" | Clear | Black PR | 4 |
| PWHP20FF1CPR | 7100285 | 20" | 1" | Clear | Black PR | 4 |
| **10" Residential Housings** | | | | | | |
| PWHP1014B | 7100276 | 10" | ¼" | Blue | Black | 4 |
| PWHP1014BPR | 7100277 | 10" | ¼" | Blue | Black PR | 4 |
| PWHP1012B | 7100278 | 10" | ½" | Blue | Black | 4 |
| PWHP1012BPR | 7100279 | 10" | ½" | Blue | Black PR | 4 |
| PWHP1034B | 7100280 | 10" | ¾" | Blue | Black | 4 |
| PWHP1034BPR | 7100281 | 10" | ¾" | Blue | Black PR | 4 |
| **20" Residential Housings** | | | | | | |
| PWHP2012B | 7100282 | 20" | ½" | Blue | Black | 6 |
| PWHP2012BPR | 7100283 | 20" | ½" | Blue | Black PR | 6 |
| **10" Full Flow Housings** | | | | | | |
| PWHP10FF34BPR | 7100286 | 10" | ¾" | Blue | Black PR | 4 |
| PWHP10FF1B | 7100287 | 10" | 1" | Blue | Black | 4 |
| PWHP10FF1BPR | 7100288 | 10" | 1" | Blue | Black PR | 4 |
| PWHP10FF15B | 7100289 | 10" | 1½" | Blue | Black | 4 |
| PWHP10FF15BPR | 7100290 | 10" | 1½" | Blue | Black PR | 4 |
| **20" Full Flow Housings** | | | | | | |
| PWHP20FF34BPR | 7100291 | 20" | ¾" | Blue | Black PR | 4 |
| PWHP20FF1B | 7100292 | 20" | 1" | Blue | Black | 4 |
| PWHP20FF1BPR | 7100293 | 20" | 1" | Blue | Black PR | 4 |
| PWHP20FF15B | 7100294 | 20" | 1½" | Blue | Black | 4 |
| PWHP20FF15BPR | 7100295 | 20" | 1½" | Blue | Black PR | 4 |
| **High Temp Housings (200°F / 93°C)** | | | | | | |
| PWHPHT1034 | 7100296 | 10" | ¾" | Red | Red | 4 |
| PWHPHT2034 | 7100297 | 20" | ¾" | Red | Red | 4 |
| **Mounting Brackets - includes housing mounting screws** | | | | | | |
| PWMBVIH | 7300605 | Brkt, VIH Housing | | | | 1 |
| PWMBSTD1 | 7100463 | Single, 10" & 20" Residential Housings | | | | 1 |
| PWMBSTD2 | 7100464 | Double, 10" & 20" Residential Housings | | | | 1 |
| PWMBSTD3 | 7100465 | Triple, 10" & 20" Residential Housings | | | | 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 | | | | |
| 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 |
| **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 |

Full Flow Series
(10" and 20")

High Temp
(10" and 20")

Blue/Black

Clear

*For additional information, access online literature ES-WQ-PWHP*

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

# Big Bubba Housing & Cartridges

## Whole House Water Treatment and Commercial Filtration

Ideal for whole house water treatment and commercial filtration with optional activated carbon cartridge to remove chlorine bad tastes, foul odors and sediment.

PWWJCHSG

### Rugged Construction

Filter housings are made of rugged, glass-reinforced polypropylene with brass reinforced gauge port so they won't chip, rust or dent.

### Low Cost

Big Bubba filters are an economical alternative to costly stainless steel filtration equipment.

### Applications

Big Bubba Cartridges are ideal for a wide range of applications, including:

- Whole house filtration
- Commercial filtration
- Industrial filtration
- Pre-filtration for reverse osmosis equipment
- Community water systems
- Sea water applications due to their non-corrosive construction
- Ideal replacement for bag filters
- A convenient alternative to multiple cartridge filters
- Water for livestock and poultry

### Proprietary Cartridges

The replacement cartridge filter is totally proprietary, so you may enjoy the replacement cartridge business over the life of the equipment.

### Conserves Water!

Big Bubba Cartridge Filter Systems are 100% efficient because no backwashing is required. Valuable water is conserved with no waste.

PWWJCP

### Big Bubba Filter Cartridge Housing

| MODEL NO. | ORDERING CODE | DESCRIPTION | HEIGHT (INCHES) | DIAMETER (INCHES) | PIPE FITTINGS (INCHES) |
|---|---|---|---|---|---|
| PWWJCHSG | 7100301 | Jumbo Cartridge Filter Housing | 42.7" | 15.4" | 2" Slip PVC Female |

### Pleated Cartridges

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

| MODEL NO. | ORDERING CODE | MEDIA TYPE | MICRON RATING | PER CASE |
|---|---|---|---|---|
| PWWJCP1AB | 7100302 | PP | 1 Absolute | 1 |
| PWWJCP1 | 7100303 | PP | 1 | 1 |
| PWWJCP5 | 7100304 | PP | 5 | 1 |
| PWWJCP20 | 7100305 | PE | 20 | 1 |
| PWWJCP50 | 7100306 | PE | 50 | 1 |
| PWWJCM150 | 7100307 | Mesh | 150 | 1 |

**Note:** 5, 20, 50 and 150-micron cartridges are cleanable and reusable to reduce costs.

### Depth Cartridges

Melt blown polypropylene cartridges are recommended when depth filtration is necessary for the reduction of soft particulate.

| MODEL NO. | ORDERING CODE | MEDIA TYPE | MICRON RATING | PER CASE |
|---|---|---|---|---|
| PWWJCMB1 | 7100308 | PP | 1 | 1 |
| PWWJCMB5 | 7100309 | PP | 5 | 1 |
| PWWJCMB20 | 7100310 | PP | 20 | 1 |
| PWWJCMB50 | 7100311 | PP | 50 | 1 |

### Activated Carbon Cartridge

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

| MODEL NO. | ORDERING CODE | MAX. FLOW | CAPACITY | CHLORINE REDUCTION |
|---|---|---|---|---|
| PWWJCAC5 | 7100312 | 15 GPM | 140,000 Gals. | 90% |

Note: We build filtration systems, or they may be installed on site. For more information please inquire!

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

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

# Series PWHS

## Commercial Quality Filter Housings

### Connection Size: 1" NPT (25mm) – 4" Flange
### Flow Rates: Up to 600 gpm (2271 lpm)

Top quality stainless steel filter housings with easy, safe and secure band-clamp lid closures. Watts Pure Water Series PWHS are compatible with a full range of double open end cartridges for liquid filtration applications.

Premium Housings

### Features

- 100% stainless steel for durability
- Constructed of 316 stainless steel
- Convenient band clamp lid closure is standard for easy cartridge replacement
- Pipe fittings are readily accessible for easy installation
- Adjustable top plate accepts variable length cartridges for more options
- Two drains provided for clean and dirty fluids
- Legs and mounting tabs are available
- Knife edge seals are provided at both ends of all DOE cartridges for superior performance
- Rated for temperatures to 212°F (100°C). (No plastic holding rods)
- Pressure rating to 150psi (10.3 bar)
- Protective polycoat over stainless steel standard finish

### Specifications

| | |
|---|---|
| Material: | 316 stainless steel |
| Pressure rating: | Housings are rated for pressures to 150psi (10.3 bar) |
| Temperature: | Housings are rated for temperatures to 212°F (100°C) |
| Gaskets & seals: | Buna-N is standard. |
| Finish: | Protective polycoat over stainless is standard finish |
| Cartridge types: | Housings are designed to accept DOE cartridges. |

### Commercial Quality Multi-Cartridge Stainless Steel Filter Housings (316SS)

| MODEL NO. | ORDERING CODE | ROUND | MAX. FLOW RATE PLEATED | | MAX. FLOW RATE DEPTH | | PIPE SIZE | DRAIN SIZE (NPT) | NO. OF STANDARD CARTRIDGES | CARTRIDGE OPTIONS (LENGTHS) | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | *GPM* | *LPM* | *GPM* | *LPM* | | | | *in.* | *mm* |
| PWHS4X1 | 7100313 | 4 | 25 | 95 | 25 | 95 | 1" NPT | ½" | 4 | 9¾" - 10" | 248 - 254 |
| PWHS5X1 | 7100314 | 5 | 30 | 113 | 25 | 95 | 2" NPT | ½" | 5 | 9¾" - 10" | 248 - 254 |
| PWHS4X2 | 7100315 | 4 | 60 | 227 | 40 | 151 | 2" NPT | ½" | 4 | 20" | 508 |
| PWHS4X3 | 7100316 | 4 | 90 | 341 | 60 | 227 | 2" NPT | ½" | 4 | 29¼" or 30 | 743 or 761 |
| PWHS4X4 | 7100317 | 4 | 120 | 454 | 80 | 363 | 2" NPT | ½" | 4 | 40" | 1016 |
| PWHS5X4 | 7100318 | 5 | 150 | 568 | 100 | 379 | 2" NPT | ½" | 5 | 40" | 1016 |
| PWHS12X3 | 7100319 | 12 | 250 | 946 | 180 | 681 | 3" flange | ½" | 12 | 29¼" or 30 | 743 or 761 |
| PWHS12X4 | 7100320 | 12 | 300 | 1135 | 240 | 908 | 3" flange | ½" | 12 | 40" | 1016 |
| PWHS22X3 | 7100321 | 22 | 500 | 1893 | 330 | 1249 | 4" flange | ½" | 22 | 29¼" or 30 | 743 or 761 |
| PWHS22X4 | 7100322 | 22 | 600 | 2271 | 440 | 1665 | 4" flange | ½" | 22 | 40" | 1016 |

### Premium Series Housings with Mounting Legs and Pressure Gauges (316SS)

| MODEL NO. | ORDERING CODE | ROUND | MAX. FLOW RATE PLEATED | | MAX. FLOW RATE DEPTH | | PIPE SIZE | DRAIN SIZE (NPT) | NO. OF STANDARD CARTRIDGES | CARTRIDGE OPTIONS (LENGTHS) | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | *GPM* | *LPM* | *GPM* | *LPM* | | | | *in.* | *mm* |
| PWHSPS4X2 | 7100323 | 4 | 60 | 227 | 40 | 151 | 2" NPT | ½" | 4 | 20" | 508 |
| PWHSPS5X3 | 7100324 | 5 | 120 | 454 | 75 | 284 | 2" NPT | ½" | 5 | 29¼" or 30 | 743 or 761 |
| PWHSPS5X4 | 7100325 | 5 | 150 | 568 | 100 | 388 | 2" NPT | ½" | 5 | 40" | 1016 |
| PWHSPS7X4 | 7100326 | 7 | 200 | 946 | 140 | 530 | 2" NPT | ½" | 7 | 40" | 1016 |

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

*For additional information, access online literature ES-WQ-PWHS*

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

# Series PWHSJUMBO

## JUMBO-SS Cartridge Housings
## Stainless Steel Single Cartridge Models

**Connection Size: 2" MNPT (50mm)**
**Flow Rates: Up to 150gpm (567 lpm)**

The ideal filter housings for optimum convenience and savings. Series PWHSJUMBO housing filters are designed to accept Series "JUMBO-SS" cartridges for easy installation and replacement. Filter housings are constructed using 316 stainless steel and are rated for pressures to 150psi. Pipe fittings on single cartridge models are 2" MNPT with pressure gauges installed on inlet and outlet fittings. Convenient, band clamp lid closures are easy to use, safe and secure. Protective poly coat over stainless steel is standard finish.

Model
PWHSJUM40

### Features

- Adjustable compression cap provides superior sealing for both ends of the jumbo cartridge
- User friendly jumbo cartridges are easy to install, easy to service and easy to replace
- Housings accept "Jumbo SS" series cartridges
- Heavy-duty 316 stainless steel construction for durability
- Band clamp lid closure are convenient, easy to use and secure
- Pipe fittings are readily accessible for easy installation
- Pressure gauges are installed on pipe fittings
- Heavy-duty mounting legs are standard
- 3 models available for a wide range of flow rates

Model
PWHSJUM90

Model
PWHSJUM170

### Commercial Quality Jumbo Cartridge Filter Housings in 316SS

| MODEL NO. | ORDERING CODE | MATERIAL | MAX FLOW (GPM) | CARTRIDGE STYLE | NUMBER OF CARTRIDGES | PIPE SIZE | LID CLOSURE |
|---|---|---|---|---|---|---|---|
| PWHSJUM40 | 7100327 | 316SS | 50 | "40" | 1 | 2" NPT | V-Band |
| PWHSJUM90 | 7100328 | 316SS | 100 | "90" | 1 | 2" NPT | V-Band |
| PWHSJUM170 | 7100329 | 316SS | 150 | "170" | 1 | 2" NPT | V-Band |

***NOTICE*** Commercial quality jumbo cartridge housings are rated for pressures to 150psi (10 bar) and temperatures to 212˚F (100˚C). Pressure gauges included and installed on inlets and outlet.

*For additional information, access online literature ES-WQ-PWHSJUMBO*

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


PWJPL40

### PWJPL40

| FILTER HOUSING MODEL NO. | MODEL NO. WITH SYNTHETIC MEDIA | ORDERING CODE | MICRON RATING | NUMBER PER CASE |
|---|---|---|---|---|
| 40 | PWJPL40M1AB | 7100419 | 1 Absolute | 1 |
| | PWJPL40M.35 | 7100420 | 0.35 | 1 |
| | PWJPL40M1 | 7100421 | 1 | 1 |
| | PWJPL40M5 | 7100422 | 5 | 1 |
| | PWJPL40M20 | 7100423 | 20 | 1 |
| | PWJPL40M50 | 7100424 | 50 | 1 |
| | PWJPL40M100 | 7100425 | 100 | 1 |


PWJPL90

### PWJPL90

| FILTER HOUSING MODEL NO. | MODEL NO. WITH SYNTHETIC MEDIA | ORDERING CODE | MICRON RATING | NUMBER PER CASE |
|---|---|---|---|---|
| 90 | PWJPL90M1AB | 7100426 | 1 Absolute | 1 |
| | PWJPL90M.35 | 7100427 | 0.35 | 1 |
| | PWJPL90M1 | 7100428 | 1 | 1 |
| | PWJPL90M5 | 7100429 | 5 | 1 |
| | PWJPL90M20 | 7100430 | 20 | 1 |
| | PWJPL90M50 | 7100431 | 50 | 1 |
| | PWJPLM90M100 | 7100432 | 100 | 1 |


PWJPL170

### PWJPL170

| FILTER HOUSING MODEL NO. | MODEL NO. WITH SYNTHETIC MEDIA | ORDERING CODE | MICRON RATING | NUMBER PER CASE |
|---|---|---|---|---|
| 170 | PWJPL170M1AB | 7100433 | 1 Absolute | 1 |
| | PWJPL170M.35 | 7100434 | 0.35 | 1 |
| | PWJPL170M1 | 7100435 | 1 | 1 |
| | PWJPL170M5 | 7100436 | 5 | 1 |
| | PWJPL170M20 | 7100437 | 20 | 1 |
| | PWJPL170M50 | 7100438 | 50 | 1 |
| | PWJPLM170M100 | 7100439 | 100 | 1 |

# Filter Cartridges

- Melt Blown Filter Cartridges
- Wound Cartridges
- Wound Cartridges with 304 SS Center Tubes for Temperatures to 200°F (93°C)
- Pleated Filter Cartridges
- Carbon Block Filter Cartridges
- Granular Coconut Carbon Cartridge (GAC)
- In-Line Filters

PWILGAC10

PWCB10LED

GAC Filters

Carbon Block Filter Cartridges

Pleated Filter Cartridges

Melt Blown Filter Cartridges

## Filter Cartridges Part Number Matrix

**PW MB 10FF M5**

**Pure Water**

**Cartridge Type**

MB = Melt Blown Cartridge
SW = String Wound Cartridge
SWHT = String Wound High Temperature Cartridge
PL = Pleated Cartridge
CB = Carbon Block Cartridge
GAC = Granular Activated Carbon Cartridge
GACPH = Granular Activated Carbon & Phosphate
GACCL = Granular Activated Carbon & Calcite
GACKDF = Granular Activated Carbon & KDF
IL = In-Line Filter
PHOS = Polyphosphate Cartridge
KCSED = Kwik-Change Sediment
KCCB = Kwik-Change Carbon Block
KCGAC = Kwik-Change Granular Activated Carbon
KCUF = Kwik-Change Ultra Filtration Membrane
WJCP = Big Bubba Cartridge – Pleated
WJCMB = Big Bubba Cartridge – Melt Blown
WJCAC = Big Bubba Cartridge – Activated Carbon
JPL = Jumbo Pleated Cartridge

**Cartridge Size**

5 = 5" Cartridge
6 = 6" Inline
10 = 10" Cartridge or inline
13 = 13" Cartridge
20 = 20" Cartridge
195 = 19.5" Cartridge
30 = 30" Cartridge
40 = 40" Cartridge
FF = Full Flow Cartridge
On the “JPL” Jumbo Pleated Cartridges the filter size represents the “Cartridge Model”
40 = Model 40 Cartridge
90 = Model 90 Cartridge
170 = Model 170 Cartridge

**Micron Rating**

1AB = 1 Micron Absolute
0.35 = 0.35 Micron
1 = 1 Micron
5 = 5 Micron
10 = 10 Micron
20 = 20 micron
50 = 50 Micron
100 = 100 Micron
S = Standard Carbon Block – Not for Sale or Use in California
P = Premium Carbon Block
VOC = Volatile Organic Chemicals
LCV = Lead, Cyst, VOCs
LED = Lead
FTGS = Includes fittings
TUB = Includes fittings and tubing

# 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

- Low cost
- 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

NSF/ANSI STD 372 & 42

Melt Blown Filter Cartridges

### Standard Diameter (2½")

| MODEL NO. | ORDERING CODE | LENGTH | OD | MICRON | NO. / CASE | WEIGHTS | |
|---|---|---|---|---|---|---|---|
| | | | | | | *lbs.* | *kgs.* |
| **9⅞"** | | | | | | | |
| PWMB10M1 | 7100330 | 9⅞" | 2½" | 1 | 12 | 3.6 | 1.6 |
| PWMB10M5 | 7100331 | 9⅞" | 2½" | 5 | 12 | 3.6 | 1.6 |
| PWMB10M10 | 7100332 | 9⅞" | 2½" | 10 | 12 | 3.6 | 1.6 |
| PWMB10M20 | 7100333 | 9⅞" | 2½" | 20 | 12 | 3.6 | 1.6 |
| PWMB10M50 | 7100335 | 9⅞" | 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 |
| **30"** | | | | | | | |
| PWMB30M1 | 7100340 | 30" | 2½" | 1 | 24 | 24 | 11.0 |
| PWMB30M5 | 7100341 | 30" | 2½" | 5 | 24 | 24 | 11.0 |
| PWMB30M20 | 7100342 | 30" | 2½" | 20 | 24 | 24 | 11.0 |
| PWMB30M50 | 7100343 | 30" | 2½" | 50 | 24 | 24 | 11.0 |
| **40"** | | | | | | | |
| PWMB40M1 | 7100344 | 40" | 2½" | 1 | 24 | 29 | 13.0 |
| PWMB40M5 | 7100345 | 40" | 2½" | 5 | 24 | 29 | 13.0 |
| PWMB40M20 | 7100346 | 40" | 2½" | 20 | 24 | 29 | 13.0 |
| PWMB40M50 | 7100347 | 40" | 2½" | 50 | 24 | 29 | 13.0 |

### Full Flow (FF) 4½" x 9¾"

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

### Full Flow (FF) 4½" x 20"

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

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

**⚠ 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.

### Specifications

Material – Polypropylene
Maximum Operating Temperature (Plastic Core) – 140°F (60°C)
Maximum Operating Temperature (Metal Core) – 180°F (82°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

### String Wound Cartridges

| MODEL NO. | ORDERING CODE | LENGTH | OD | MICRON | NO. / CASE | WEIGHTS | |
|---|---|---|---|---|---|---|---|
| | | | | | | *lbs.* | *kgs.* |
| PWSW10M1 | 7100356 | 9⅞" | 2½" | 1 | 12 | 12.0 | 5.4 |
| PWSW10M5 | 7100357 | 9⅞" | 2½" | 5 | 12 | 12.0 | 5.4 |
| PWSW10M20 | 7100358 | 9⅞" | 2½" | 20 | 12 | 12.0 | 5.4 |
| PWSW10M50 | 7100359 | 9⅞" | 2½" | 50 | 12 | 12.0 | 5.4 |
| PWSW20M1 | 7100360 | 20" | 2½" | 1 | 6 | 13.5 | 6.1 |
| PWSW20M5 | 7100361 | 20" | 2½" | 5 | 6 | 13.5 | 6.1 |
| PWSW20M20 | 7100362 | 20" | 2½" | 20 | 6 | 13.5 | 6.1 |
| PWSW20M50 | 7100363 | 20" | 2½" | 50 | 6 | 13.5 | 6.1 |
| PWSW30M1 | 7100364 | 30" | 2½" | 1 | 15 | 19.5 | 8.9 |
| PWSW30M5 | 7100365 | 30" | 2½" | 5 | 15 | 19.5 | 8.9 |
| PWSW30M20 | 7100366 | 30" | 2½" | 20 | 15 | 19.5 | 8.9 |
| PWSW40M1 | 7100367 | 40" | 2½" | 1 | 10 | 13.0 | 5.9 |
| PWSW40M5 | 7100368 | 40" | 2½" | 5 | 10 | 13.0 | 5.9 |
| PWSW40M20 | 7100369 | 40" | 2½" | 20 | 10 | 13.0 | 5.9 |
| **Full Flow (FF) 4½" OD Cartridges** | | | | | | | |
| PWSW10FFM1 | 7100370 | 9¾" | 4½" | 1 | 4 | 9.6 | 4.4 |
| PWSW10FFM5 | 7100371 | 9¾" | 4½" | 5 | 4 | 9.6 | 4.4 |
| PWSW10FFM20 | 7100372 | 9¾" | 4½" | 20 | 4 | 9.6 | 4.4 |
| PWSW10FFM50 | 7100373 | 9¾" | 4½" | 50 | 4 | 9.6 | 4.4 |
| PWSW20FFM1 | 7100374 | 20" | 4½" | 1 | 4 | 9.6 | 4.4 |
| PWSW20FFM5 | 7100375 | 20" | 4½" | 5 | 4 | 9.6 | 4.4 |
| PWSW20FFM20 | 7100376 | 20" | 4½" | 20 | 4 | 9.6 | 4.4 |
| PWSW20FFM50 | 7100377 | 20" | 4½" | 50 | 4 | 9.6 | 4.4 |
| **Cartridges with 304 Stainless Steel Center Tubes for Temperatures to 180°F (82°C)** | | | | | | | |
| PWSWHT10M5 | 7100378 | 9⅞" | 2½" | 5 | 12 | 12.0 | 5.5 |
| PWSWHT10M20 | 7100379 | 9⅞" | 2½" | 20 | 12 | 12.0 | 5.5 |
| PWSWHT10M50 | 7100380 | 9⅞" | 2½" | 50 | 12 | 12.0 | 5.5 |
| PWSWHT20M5 | 7100381 | 20" | 2½" | 5 | 6 | 12.0 | 5.5 |
| PWSWHT20M20 | 7100382 | 20" | 2½" | 20 | 6 | 12.0 | 5.5 |
| PWSWHT30M5 | 7100383 | 30" | 2½" | 5 | 15 | 21.0 | 9.6 |
| PWSWHT30M20 | 7100384 | 30" | 2½" | 20 | 15 | 21.0 | 9.6 |
| PWSWHT40M5 | 7100385 | 40" | 2½" | 5 | 10 | 20.0 | 9.1 |
| PWSWHT40M20 | 7100386 | 40" | 2½" | 20 | 10 | 20.0 | 9.1 |

PWSW10

PWSW10FF

PWSWHT10

### Features

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

*For additional information, access online literature ES-WQ-PWSW*

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

# 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. Outperform wound, spun, melt blown, resin bonded, and other “depth” type filter elements because of our 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. Pleated filter cartridges 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 contaminate.

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

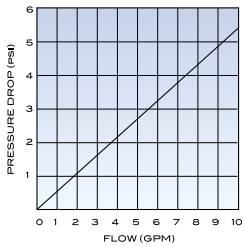
- Filter media is pleated for greater surface area
- Synthetic filter media is cellulose-free
- “Thicker” filter media has a greater capacity to capture and retain particles, compared to thin, more rigid media types, which have less void space for particle retention
- One micron absolute and 0.35 media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



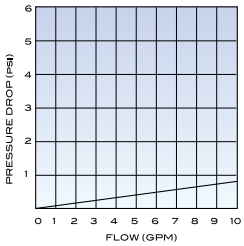
**⚠ WARNING** **Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.**

## 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.

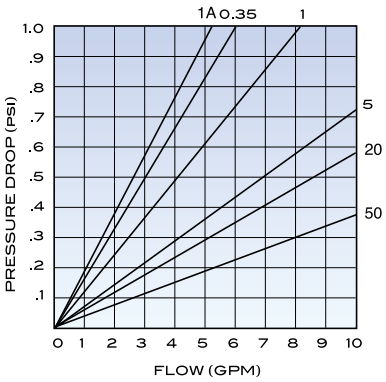



Depth Cartridge
(5 micron)

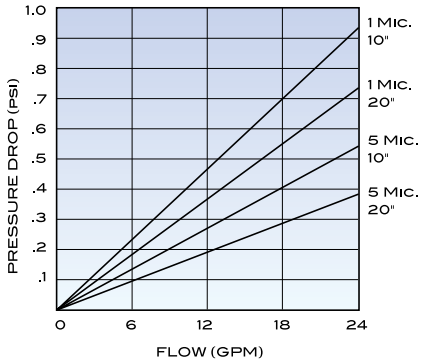



Pleated® Cartridge
(5 micron)

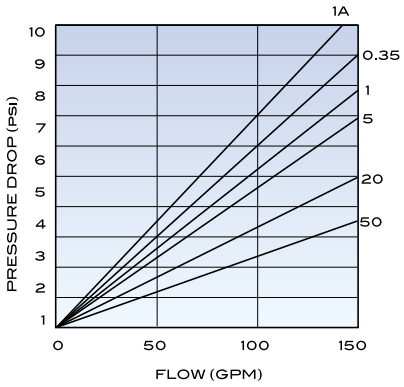
Use the pressure drop charts shown below to help determine the ideal flow rate for your particular application:




Standard Cartridges (9¾")




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:**

| MAXIMUM FLOW RATES PER CARTRIDGE (GPM) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Micron Rating | Standard Cartridge | | | 10" Full Flow | 20" Full Flow | Jumbo Cartridge | | |
| | 9¾" | 20" | 29¼" | | | 40 | 90 | 170 |
| 1 Absolute | 3 | 6 | 9 | 8 | 12 | 20 | 40 | 80 |
| 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.

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


PWPL19.5


PWPL40


PWPL10FF

### Standard 2¾" x 9¾" Length

| MODEL NO. | ORDERING CODE | MEDIA TYPE | MICRON RATING | NUMBER PER CASE |
|---|---|---|---|---|
| PWPL10M1AB | 7100387 | Synthetic | 1 Absolute | 12 |
| 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 19½" Length

| MODEL NO. | ORDERING CODE | MEDIA TYPE | MICRON RATING | NUMBER PER CASE |
|---|---|---|---|---|
| PWPL195M1 | 7100394 | Synthetic | 1 | 24 |
| PWPL195M5 | 7100395 | Synthetic | 5 | 24 |
| PWPL1950M20 | 7100396 | Synthetic | 20 | 24 |

### Standard 2¾" x 20" Length

| MODEL NO. | ORDERING CODE | MEDIA TYPE | MICRON RATING | NUMBER PER CASE |
|---|---|---|---|---|
| PWPL20M1AB | 7100397 | Synthetic | 1 Absolute | 6 |
| 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 |

### Standard 2¾" x 40" Length

| MODEL NO. | ORDERING CODE | MEDIA TYPE | MICRON RATING | NUMBER PER CASE |
|---|---|---|---|---|
| PWPL40M1 | 7100403 | Synthetic | 1 | 24 |
| PWPL40M5 | 7100404 | Synthetic | 5 | 24 |
| PWPL40M20 | 7100405 | Synthetic | 20 | 24 |
| PWPL40M50 | 7100406 | Synthetic | 50 | 24 |

### Full Flow (FF) 4½" x 10" Length

| MODEL NO. | ORDERING CODE | MEDIA TYPE | MICRON RATING | NUMBER PER CASE |
|---|---|---|---|---|
| PWPL10FFM1AB | 7100407 | Synthetic | 1 Absolute | 4 |
| 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 |
|---|---|---|---|---|
| PWPL20FFM1AB | 7100413 | Synthetic | 1 Absolute | 4 |
| 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.

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

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

# 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)

* Not performance tested or certified by NSF.

PWCB

PWCFFB

NSF/ANSI STD 372 & 42

### Dimensions

| MODEL NO. | ORDERING CODE | TYPE | OD | | LENGTH | | MICRON RATING | CHLORINE REDUCTION* | NO. / CASE |
|---|---|---|---|---|---|---|---|---|---|
| | | | in. | mm | in. | mm | | | |
| PWCB10P | 7100446 | Thick Wall | 2⅞" | 73 | 9¾" | 248 | 5 nominal | >6,000 Gal @ 1 gpm | 12 |
| PWCB20P | 7100447 | Thick Wall | 2⅞" | 73 | 20" | 508 | 5 nominal | >12,000 Gal @ 2 gpm | 6 |
| PWCB10FFP | 7100448 | Thick Wall | 4⅝" | 117 | 9¾" | 248 | 5 nominal | >20,000 Gal @ 2 gpm | 4 |
| PWCB20FFP | 7100449 | Thick Wall | 4⅝" | 117 | 20" | 508 | 5 nominal | >40,000 Gal @ 4 gpm | 4 |

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

*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 (See performance data sheet for a complete list of VOCs).

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.

PWCB10VOC

## LCV (Lead, Cysts, VOCs)

This specially formulated carbon block is NSF certified for the reduction of lead, cryptosporidium, giardia, and entamoeba, as well as harmful volatile organic chemicals

PWCB10LCV

## Lead Out

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

PWCB10LED

### 2½" X 10" Carbon Block Cartridges - VOCs, LCV & Lead Out

| MODEL NO. | ORDERING CODE | DESCRIPTION | QUANTITY PER CARTON |
|---|---|---|---|
| PWCB10VOC | 7100450 | 10 inch 1-Micron Carbon Block VOC (Volatile Organic Chemicals) Filter | 12 |
| PWCB10LCV | 7100451 | 10 inch 1-Micron Carbon Block LCV (Lead, Cysts, VOCs) Filter | 12 |
| PWCB10LED | 7100452 | 10 inch 1-Micron Carbon Block Lead (Lead Out) Filter | 12 |

**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.

GAC Filters

### 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") |

### 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.*

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

# Series PWFIL

## In-Line Filters

### Connection Size: ¼" 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 models with KDF for inhibiting bacterial growth
- 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 | ¼" | FNPT | 6 |
| PWILGAC6 | 7100453 | 2" | 6" | GAC | Acid wash coconut shell | ¼" | FNPT | 6 |

#### GAC with phosphate for scale reduction

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| PWILGACPH10 | 7100455 | 2" | 10" | GAC | Phosphate | ¼" | FNPT | 6 |

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

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| PWILGACCL10 | 7100456 | 2" | 10" | GAC | With Calcite | ¼" | FNPT | 6 |

#### In-line Filters with GAC and KDF* for inhibiting bacterial growth – Ideal for residential icemaker/refrigerator

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| PWGACKDFFTGS | 7100457 | 2.5" | 10" | GAC | KDF | ¼" | FNPT | 5 |
| PWGACKDFTUB | 7100458 | 2.5" | 10" | GAC | KDF | ¼" | FNPT | 6 |

These filters reduce scale build-up in appliances* and inhibit bacterial growth. Lasts up to 5 years or up to 20,000 Gallons.

*KDF Fluid Treatments Inc.

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

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

# NOTES

**USA**

**For Technical and Ordering Assistance, please call us at 1.800.224.1299.**

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

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