PURE WATER

Series PWS30 and PWS30-2 Water Softeners

Watts Pure Water Series PWS30 and PWS30-2 water softeners are suitable for commercial applications ranging from 300,000 to 1,050,000 grains of hardness removal capacity at flow rates up to 280 gpm (1060 lpm). Series PWS30 systems are simplex style while PWS30-2 systems are duplex alternating.

Operation of the Softener

Hard water contains dissolved minerals in the form of Calcium (Ca), Magnesium (Mg), and Iron (Fe). An ion exchange process accomplishes removal of these minerals. As water flows through the mineral tank, the dissolved minerals become attached to the resin. Over a period of time, the resin will become exhausted, and the softener will regenerate using a brine solution.

Softening Media

The exchange media is a high-quality strong acid softener (cation) resin, WQA certified to NSF/ANSI Standard 61 with high whole bead count, no color throw, and is chlorine resistant. The media combines high-operating capacity with excellent chemical and physical stability for a long dependable life.

Regeneration Controller

These softeners feature an electronic controller that combines simplicity with flexibility in a user-friendly package that is easy to setup and operate. Multiple controllers can be networked together, which allows a wide variety of multi tank systems to be configured in the field. Important operational information is stored in the timer which can be accessed for trouble shooting purposes.

Control Valve

The 3" brass control valve operates on command from the electronic valve controller. Valve positioning is accomplished by two hydraulically balanced pistons which glide effortlessly along non-corrosive spacers and seals to precise locations. This precision motor driven valve performs in the toughest applications, is WQA certified to NSF/ANSI standards 61 and 372, and is made of high-quality brass for a long reliable life.

Resin Tanks

All models feature corrosion resistant fiberglass tanks with a one-piece thermoplastic inner liner. All tanks are certified by WQA or NSF to NSF/ANSI standards.

Brine System

The brine tank is made of tough, high-density polyethylene, and a high quality air check prevents air from entering the system.

⚠ WARNING

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

Specifications

MODEL NUMBER	MINERAL TANK TANK SIZE (IN.)	RESIN Ft³	GRAVEL	BRINE TANK TANK SIZE (IN.)	SALT FILL	SOFTENING CAPACITY MAX	SOFTENING CAPACITY MIN	LBS. SALT PER REGENERATION MAX	LBS. SALT PER REGENERATION MIN	FLOW RATE & PRESSURE SERV GPM	DROP PSI	BKW GPM
PWS30151H11	24x72	10	200 lbs.	30x50	1400	300 K	200 K	150	60	120/170	15/25	15
PWS30151I11	30x72	15	400 lbs.	39x48	2200	450 K	300 K	225	90	158/212	15/25	25
PWS30151J11	36x72	20	500 lbs.	39x60	2700	600 K	400 K	300	120	185/250	15/25	35
PWS30151K11	42x72	30	700 lbs.	42x60	3100	900 K	600 K	450	180	200/268	15/25	45
PWS30151L11	48x72	35	900 lbs.	50x60	4500	1050K	700 K	525	210	213/280	15/25	60

Ordering Information

MODEL NUMBER	DESCRIPTION	SPACE REQUIRED D X W X H (IN.)	WEIGHT LBS.	WEIGHT KGS.
PWS30151H11	10 Cubic Foot 3" Simplex Softener with Flow Meter	39 x 69 x 103	1070	485
PWS30151I11	15 Cubic Foot 3" Simplex Softener with Flow Meter	39 x 75 x 107	1600	726
PWS30151J11	20 Cubic Foot 3" Simplex Softener with Flow Meter	39 x 81 x 109	2015	914
PWS30151K11	30 Cubic Foot 3" Simplex Softener with Flow Meter	42 x 90 x 117	3245	1472
PWS30151L11	35 Cubic Foot 3" Simplex Softener with Flow Meter	50 x 104 x 117	4295	1948
PWS30151H21	10 Cubic Foot 3" Duplex Alternating Softener with Flow Meter	39 x 100 x 103	2070	939
PWS30151I21	15 Cubic Foot 3" Duplex Alternating Softener with Flow Meter	39 x 117x 107	3000	1360
PWS30151J21	20 Cubic Foot 3" Duplex Alternating Softener with Flow Meter	39 x 129 x 109	4015	1821
PWS30151K21	30 Cubic Foot 3" Duplex Alternating Softener with Flow Meter	42 x 144 x 117	6245	2833
PWS30151L21	35 Cubic Foot 3" Duplex Alternating Softener with Flow Meter	50 x 164 x 117	8295	3763

Notes:

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