

PURE WATER

Series PWS10T Water Softeners

Watts Pure Water Series PWS10T water softeners are suitable for commercial applications ranging from 30,000 to 120,000 grains of hardness removal capacity at flow rates up to 25 gpm (95 lpm). The Series PWS10T is a twin-alternating unit where one unit is in service and the other unit is in regeneration or standby.



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. A turbine flow meter provides accurate flow measurement and allows for efficient operation. Important operational information is stored in the timer which can be accessed for trouble shooting purposes.

Control Valve

The 1" brass control valve operates on command from the electronic valve controller. Valve positioning is accomplished by 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 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 features a grid plate for increased brine storage. A high-quality air check prevents air from entering the system and a corrosion resistant safety float prevents overflows.

⚠ 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			BRINE TANK		SOFTENING CAPACITY		LBS. SALT PER REGENERATION		FLOW RATE & PRESSURE		
	TANK SIZE (IN.)	RESIN Ft ³	GRAVEL	TANK SIZE (IN.)	SALT FILL	MAX	MIN	MAX	MIN	SERV GPM	DROP PSI	BKW GPM
PWS10T161A21	9x48	1.0	10 lbs.	18x40	400	30 K	20 K	15	6	9/15	15/25	2.0
PWS10T161B21	10x54	1.5	10 lbs.	18x40	400	45 K	30 K	22.5	9	10/15	15/25	2.4
PWS10T161C21	12x52	2.0	30 lbs.	18x40	400	60 K	40 K	30	12	15/20	15/25	3.5
PWS10T161D21	14x65	3.0	60 lbs.	18x40	400	90 K	60 K	45	18	18/23	15/25	5.0
PWS10T161E21	16x65	4.0	80 lbs.	18x40	400	120 K	80 K	60	24	19/25	15/25	7.0

Ordering Information

MODEL	DESCRIPTION	PIPE SIZE	SPACE REQUIRED D X W X H	WEIGHT	
				LBS.	KGS.
PWS10T161A21	1 Cubic Foot Twin Alt. Water Softener with Flow Meter	1.0"	18 x 51 x 70	230	104
PWS10T161B21	1.5 Cubic Foot Twin Alt. Water Softener with Flow Meter	1.0"	18 x 51 x 76	290	132
PWS10T161C21	2 Cubic Foot Twin Alt. Water Softener with Flow Meter	1.0"	18 x 53 x 74	350	159
PWS10T161D21	3 Cubic Foot Twin Alt. Water Softener with Flow Meter	1.0"	18 x 58 x 87	500	227
PWS10T161E21	4 Cubic Foot Twin Alt. Water Softener with Flow Meter	1.0"	18 x 62 x 87	650	295

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.



A Watts Water Technologies Company

USA: Tel: (800) 224-1299 • Fax: (978) 794-1848 • Watts.com/PureWater

Canada: Tel: (905) 332-4090 • Fax: (905) 332-7068 • Watts.ca/PureWater

Latin America: Tel: (52) 81-1001-8600 • Fax: (52) 81-8000-7091 • Watts.com/PureWater