

PURE WATER

Series PWS15T Water Softeners

Watts Pure Water Series PWS15T water softeners are suitable for commercial applications ranging from 60,000 to 300,000 grains of hardness removal capacity at flow rates up to 55 gpm (25 lpm). The PWS15T 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 1.5" brass control valve operates on command from the electronic valve controller. Valve positioning is accomplished by hydraulically balanced pistons which glide effortlessly along corrosion resistant 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. Brine tanks 24" in diameter feature a grid plate for increased brine storage. 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			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
PWS15T171C21	12x52	2.0	30 lbs.	24x41	600	60 K	40 K	30	12	15/20	15/25	5.0
PWS15T171D21	14x65	3.0	60 lbs.	24x41	600	90 K	60 K	45	18	17/22	15/25	7.0
PWS15T171E21	16x65	4.0	80 lbs.	24x41	600	120 K	80 K	60	24	25/40	15/25	9.0
PWS15T171F21	18x65	5.0	100 lbs.	24x41	600	150 K	100 K	75	30	30/50	15/25	12.0
PWS15T171G21	21x62	7.0	100 lbs.	24x50	800	210 K	140 K	105	42	35/53	15/25	15.0
PWS15T171H21	24x72	10.0	200 lbs.	30x50	1200	300 K	200 K	150	60	40/55	15/25	15.0

Ordering Information

MODEL NUMBER	DESCRIPTION	PIPE SIZE	SPACE REQUIRED	WEIGHT	
			D x W x H (IN.)	LBS.	KGS.
PWS15T171C21	2 Cubic Foot Twin Alt. Water Softener with Flow Meter	1.5"	24 x 78 x 75	370	168
PWS15T171D21	3 Cubic Foot Twin Alt. Water Softener with Flow Meter	1.5"	24 x 79 x 87	550	250
PWS15T171E21	4 Cubic Foot Twin Alt. Water Softener with Flow Meter	1.5"	24 x 80 x 87	720	326
PWS15T171F21	5 Cubic Foot Twin Alt. Water Softener with Flow Meter	1.5"	24 x 81 x 89	900	408
PWS15T171G21	7 Cubic Foot Twin Alt. Water Softener with Flow Meter	1.5"	24 x 83 x 89	1215	551
PWS15T171H21	10 Cubic Foot Twin Alt. Water Softener with Flow Meter	1.5"	39 x 90 x 96	1750	794

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

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