

# commercial demand water softeners



American Plumber two-tank water softeners provide continuous soft water and are available in demand regenerated models.

## DEMAND REGENERATED WATER SOFTENERS

### REDUCES:

- Hardness and mineral deposits (calcium, manganese & iron)
- Iron-staining
- Scale build-up
- Soap film
- Water spots (on pots, pans, glassware, sinks and tubs)

### INCREASES:

- Plumbing/appliance life
- Effectiveness of detergents for cleaner, brighter wash

### DEMAND REGENERATION:

- Saves water and salt
- Regenerates only when necessary saving energy and money
- Monitors actual water usage

Choose from 3 capacities:  
- 3.0 ft.<sup>3</sup> with 1" connections  
- 5.0 ft.<sup>3</sup> with 2" connections  
- 10.0 ft.<sup>3</sup> with 2" connections



Note: Before purchasing a water softener, we recommend that you have your water tested. This will aid in determining the correct unit for your needs, while providing information needed to set the unit correctly.

**FEATURES:**

- Two-tank design
- Valve body constructed of lead-free brass
- Poly Glass™ resin tank for years of reliable service
- Large stand-alone brine tank for greater salt storage capacity
- Simple metering system provides for a long and dependable operating life
- Internal bypass automatically provides water to the house while the system is being regenerated
- Low and easy maintenance
- Long-lasting and reliable softening media

**PROGRAMMING THE DEMAND WATER SOFTENER:**

Simply set the time of day and the capacity.

**HOW DOES A WATER SOFTENER WORK?**

During normal conditioning, raw water enters the system through an inlet at the top of the resin tank. As it seeps down through the resin bed, hardness, scale and iron are collected on the ion exchange sites of the resin. The result is the quality and convenience of conditioned water.

During the regeneration cycle, the system automatically regenerates the ion-exchange resin while gently agitating the resin bed to remove foreign particles.

**2750 and 2900 Control Valves:**

- Save up to 50% on salt usage
- Save water and reduces sewage taxes
- Simple and dependable mechanical meter
- Initiate regeneration based on water usage
- 1" and 2" inlet/outlet

**WARRANTY:**

- 10-year limited
  - fiberglass resin tank
  - brine tank
- 5-year limited
  - 2750 and 2900 control valve
- 1-year limited
  - brine valve

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

**CAUTION:** Water softener must be kept from freezing which can cause cracking of the cabinet and resin tank and water leakage.

**NOTE:** Read all precautions in manual before installing and using this system.

**SPECIFICATIONS****Demand Water Softeners**

Item Number American Plumber® Model	162421 W-470F	162422 W-4120F	162423 W-4240F
Resin Tank Size	14" x 65"	21" x 62"	24" x 72"
Brine tank Size	18" x 40"	24" x 50"	30" x 50"
Softener Style	Two-Tanks	Two-Tanks	Two-Tanks
Salt Storage	425 lbs	800 lbs	1200 lbs
Resin Volume	3.0 ft <sup>3</sup>	5.0 ft <sup>3</sup>	10.0 ft <sup>3</sup>
Exchange Capacity (grains)	72,000	120,000	240,000
Peak Flow @ 15 PSI Drop (gpm)	16	70	70
Service Flow Rate (gpm)	13	53	53
Total Hardness (grains)	60	60	60
Total Iron Removal (ppm)	2	2	2
Back Wash Rate (gpm)	25	25	25
By-Pass Valve	no	no	no
Valve Model (Fleck)	2750 meter	2900 meter	2900 meter
Connection Size Inch	1"	2"	2"
Control Power Requirement	120VAC 60Hz	120VAC 60Hz	120VAC 60Hz
Installation Space Requirements	18" x 32" x 74"	24" x 45" x 66"	30" x 54" x 84"
Shipping Weight	230 lbs	375 lbs	640 lbs