

HydraPLUS⁺ Professional

Water Softeners

Feature-rich high-efficiency water softeners with premium control valve for residential homes, recreational properties, and light commercial applications

Like the ancient Hydra of Greek and Roman mythology, the HydraPlus™ is a master of regeneration, offering the highest level of control over the backwash and regeneration of your water treatment system of any valve on the market today.

The HydraPlus™ is a truly professional grade control valve with advanced features including 6-cycle programming (you can change both the duration and order of cycles), color-coded back-lit display, service reminders (with dealer name and phone number display), advanced diagnostics, battery back-up, two relays to connect to accessory devices, and more.

Behind the innovative HydraPlus™ controller is the ever popular and renowned Clack® WS series valve body known for its reliability, ease of service, and extensive accessory options. Quality you can count on, and backed by a comprehensive 5-year valve warranty and 10-year residential tank warranty!

- ◆ Smart valve technology and metered regeneration for less water and salt consumption
- ◆ Simple, automated regeneration keeps the media clean and operating efficiently
- ◆ Simple operation with no day-to-day maintenance
- ◆ Water consumption data logging



HydraPlus™ water softeners combine industry leading valve technology with brand name components from the world's foremost specialists in their respective fields, including Pentair's® Polyglass and Clack® brand media tanks, Clack® brand brine tanks, and your choice of 6 of the industry's finest quality resins.

We use only premium-grade resins from leading manufacturers including Purolite® and Ecosoft® so you can be ensured of the longest service life and highest performance.



Popular Add-Ons and Accessories



EZSalt Sensor WIFI-Enabled Salt Level Monitor

The #1 reason for poor softener performance and premature resin failure is simply forgetting to add salt to the brine tank. The EZSalt monitor has got you covered! When your salt level drops too low, EZSalt will send a reminder to your smart phone! You can also check your salt status at any time by using the app! In addition to being very convenient, this little device can pay for itself by helping you maximize the performance and life of your resin.



Enpress Vortech® Tank Upgrade

Looking to reduce water consumption and waste? With an upgrade to a Vortech® media tank, you can reduce your backwash and rinse water volume by roughly 30%! A Vortech® tank upgrade is a great option for homes with low-yield wells or in areas prone to drought and water restrictions, or even city water applications where reducing water waste will save money on your water bill.



No Raw Water Bypass Valve

During regeneration, HydraPlus™ systems will continue to supply service water, however, it will be untreated. If it is essential to prevent untreated water from reaching the building during regeneration, a No Raw Water Bypass Valve can be added to the system.



Twin Alternating Systems

For applications involving higher water demand and/or very hard water, especially where hardness exceeds 45 grains per gallon or 770 mg/l (ppm), a twin alternating system is generally preferred for maximum performance and efficiency. Twin Alternating models are available in all sizes and with all 6 media options!



Bypass and Fittings

All HydraPlus™ systems come standard with a bypass assembly included as well as 1 inch NPT elbow (Clack® V3007) connection fittings. A wide range of alternative connection fittings can be ordered separately in 3/4 and 1 inch sizes, including NPT thread, Shark Bite®, John Guest®, and sweat/solder options.

The benefits of high-efficiency water softeners



**MAINTAIN
EFFICIENCY**

**Protect your plumbing system
from hard water scale...**

- 💧 Improve water heater efficiency and life
- 💧 Prevent clogging of pipes and faucets
- 💧 Prevent pressure loss



**PROTECT
APPLIANCES**

**Improve the performance of
soaps, shampoo, & detergents...**

- 💧 Reduce detergent and soap use
- 💧 Keep laundry bright
- 💧 Softer hair and skin



**USE LESS
DETERGENT**

Protect your appliances...

- 💧 Reduce mineral build-up in dishwasher
- 💧 Prevent hard water damage to clothes washer
- 💧 Extend appliance life

6 media options to choose from to match your water conditions and budget!

1 WS-8-HP Series

 **Purolite C100E 8% Cross-Linked Resin**

This is our most popular and affordable option, but don't let its economical price fool you! Made in North America, C100E is regarded for its value and performance. It is ideal for well water applications where iron and manganese levels are relatively low, or typical chlorinated city water supplies.

Hardness	Iron	Manganese	Chlorine	Chloramine
45 gpg / 770 ppm (mg/l)*	3 ppm (mg/l)	1 ppm (mg/l)	1 ppm (mg/l)	none

2 WS-10-HP Series

 **Purolite C100X10 10% Cross-Linked Resin**

C100X10's higher level of cross-linking creates a resin that is more durable and resistant to oxidation damage. Recommended for city water applications where higher levels of chlorine or chloramine are used for disinfection, or well water applications where users are seeking the longest possible media life. A longer resin life translates into lower maintenance costs.

Hardness	Iron	Manganese	Chlorine	Chloramine
45 gpg / 770 ppm (mg/l)*	3 ppm (mg/l)	1 ppm (mg/l)	2 ppm (mg/l)	1 ppm (mg/l)

3 WS-FM-HF Series

 **Purolite C100EFM 8% Cross-Linked Fine Mesh Resin**

Fine mesh resins are well known and respected for their improved resistance to iron and manganese fouling, thereby making them appropriate to treat higher levels of these contaminants than standard resins. The smaller resin bead size can increase pressure loss, but results in very rapid ion exchange, thereby improving performance at higher flow rates.

Hardness	Iron	Manganese	Chlorine	Chloramine
45 gpg / 770 ppm (mg/l)*	5 ppm (mg/l)	1.5 ppm (mg/l)	1 ppm (mg/l)	none

4 WS-SST-HF Series

 **Purolite SSTC6000E Shallow-Shell™ Technology Resin**

SSTC6000E is very likely the best softening resin available on the market today, offering higher salt efficiency, very low hardness leakage, superior regeneration efficiency, long service life, low cost of ownership, and outstanding iron and manganese resistance. SSTC6000E is highly recommended for more demanding softening applications (hardness > 25 GPG) and/or where concurrent removal of relatively high levels of iron and/or manganese is desired.

Hardness	Iron	Manganese	Chlorine	Chloramine
45 gpg / 770 ppm (mg/l)*	10 ppm (mg/l)	3 ppm (mg/l)	1 ppm (mg/l)	none

WS-8-HP, WS-10-HP, WS-FM-HF, & WS-SST-HF Specifications, Flow Rates, & Backwash Requirements

Model Suffix	8-44	9-48	10-54	12-52	13-54	14-65
Capacity at Salt Dose of 15 pounds / Cubic Foot:	24,750 grains	33,000 grains	49,500 grains	66,000 grains	82,500 grains	99,000 grains
Capacity at Salt Dose of 9 pounds / Cubic Foot:	20,250 grains	27,000 grains	40,500 grains	54,000 grains	67,500 grains	81,000 grains
Capacity at Salt Dose of 6 pounds / Cubic Foot (Factory Default):	16,500 grains	22,000 grains	33,000 grains	44,000 grains	55,000 grains	66,000 grains
Lbs of Salt Per Regeneration @ dose of 6 lbs/CF:	4.5	6	9	12	15	18
Resin Volume (Cubic Feet):	0.75	1	1.5	2	2.5	3
Optimal Service Flow Rate	3.7 GPM	5.0 GPM	7.5 GPM	10 GPM	12.5 GPM	15 GPM
Maximum Service Flow Rate	5.6 GPM	7.5 GPM	11.2 GPM	15 GPM	18.7 GPM	22.5 GPM
Backwash Flow Rate at 40F / 70F Water Temp	1.7 / 2.2 GPM	2.2 / 2.7 GPM	2.7 / 3.2 GPM	4.2 / 4.2 GPM	5.3 / 6.5 GPM	6.5 / 7.5 GPM

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WS-EMP-HF Series**ECOMIX** Ecomix®-P

Ecomix®-P combines several layers of media into one bed to treat hardness, iron and manganese simultaneously. In addition to cation resin, Ecomix®-P contains a unique media called Ferrosorb which gives it impressive capacity for iron and manganese reduction while protecting the cation resin layer from fouling. Recommended for softening applications where concurrent removal of relatively high levels of iron and manganese is desired.

Hardness	Iron	Manganese	Chlorine	Chloramine	Tannin	Total Organic Carbon (TOC)
45 gpg / 770 ppm (mg/l)*	7 ppm (mg/l)	2 ppm (mg/l)	1 ppm (mg/l)	none	0.1 ppm (mg/l)	3 ppm (mg/l)

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WS-EMC-HF Series**ECOMIX** Ecomix®-C

Ecomix®-C is similar to Ecomix®-P but contains an additional media called Humisorb which is designed to remove low levels of natural organics including tannins and TOC. It can be used to treat hardness, iron, manganese, and organics simultaneously. In cases where such organics are present in nuisance, but not necessarily high levels, a WS-EMC-HF series softener may replace a traditional water softener and tannin filter with a single solution.

Hardness	Iron	Manganese	Chlorine	Chloramine	Tannin	Total Organic Carbon (TOC)
45 gpg / 770 ppm (mg/l)*	3 ppm (mg/l)	1 ppm (mg/l)	1 ppm (mg/l)	none	0.5 ppm (mg/l)	5 ppm (mg/l)

WS-EMP-HF & WS-EMC-HF Specifications, Flow Rates, & Backwash Requirements

Model Suffix	9-48	10-54	12-52	13-54	14-65
Capacity at Salt Dose of 6 pounds / Cubic Foot (Factory Default):	11,500 grains	17,000 grains	23,000 grains	28,500 grains	34,500 grains
Lbs of Salt Per Regeneration @ dose of 6 lbs/CF:	5.5	8.3	11.1	13.9	16.6
Resin Volume (Cubic Feet):	0.88	1.32	1.76	2.2	2.64
Optimal Service Flow Rate	3.5 GPM	4.4 GPM	6.3 GPM	7.4 GPM	8.6 GPM
Maximum Service Flow Rate	4.4 GPM	5.5 GPM	7.9 GPM	9.2 GPM	10.7 GPM
Backwash Flow Rate at 40F / 70F Water Temp	2.2 / 2.7 GPM	2.7 / 3.2 GPM	3.2 / 5.3 GPM	4.2 / 5.3 GPM	5.3 / 6.5 GPM

Operating Conditions

Minimum Water Pressure	20 PSI
Maximum Water Pressure	90 PSI**
Recommended Water Pressure	40 to 70 PSI
Water Temperature	40°F to 100°F (4°C to 38°C)***
Minimum Air Temperature	38°F (4°C)***
pH Range	5**** to 10

* Treatment of hardness levels exceeding this level is possible, however, significantly greater salt efficiency can be achieved by selecting a twin-alternating model and is therefore recommended.

** While the filter system is built to withstand pressures exceeding 90 PSI, if your water pressure is greater than 70 PSI, we strongly recommend that a pressure reducing valve be installed ahead of the HydraPlus™ system.

*** The system cannot be subjected to freezing conditions or severe damage to the system and your property could occur.

**** pH correction is strongly recommended where pH level is less than 7.0 to prevent long-term corrosion damage to your plumbing system and to prevent leaching of metals from copper and brass plumbing components and solder in your home. Contact your dealer for recommendations.

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