

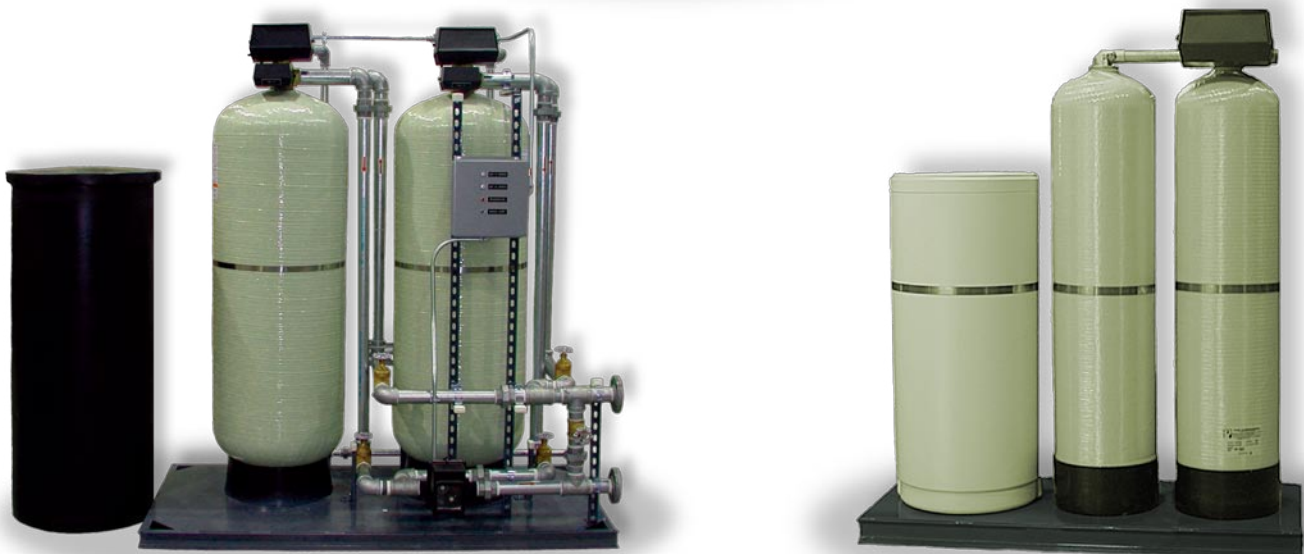


HWS Series

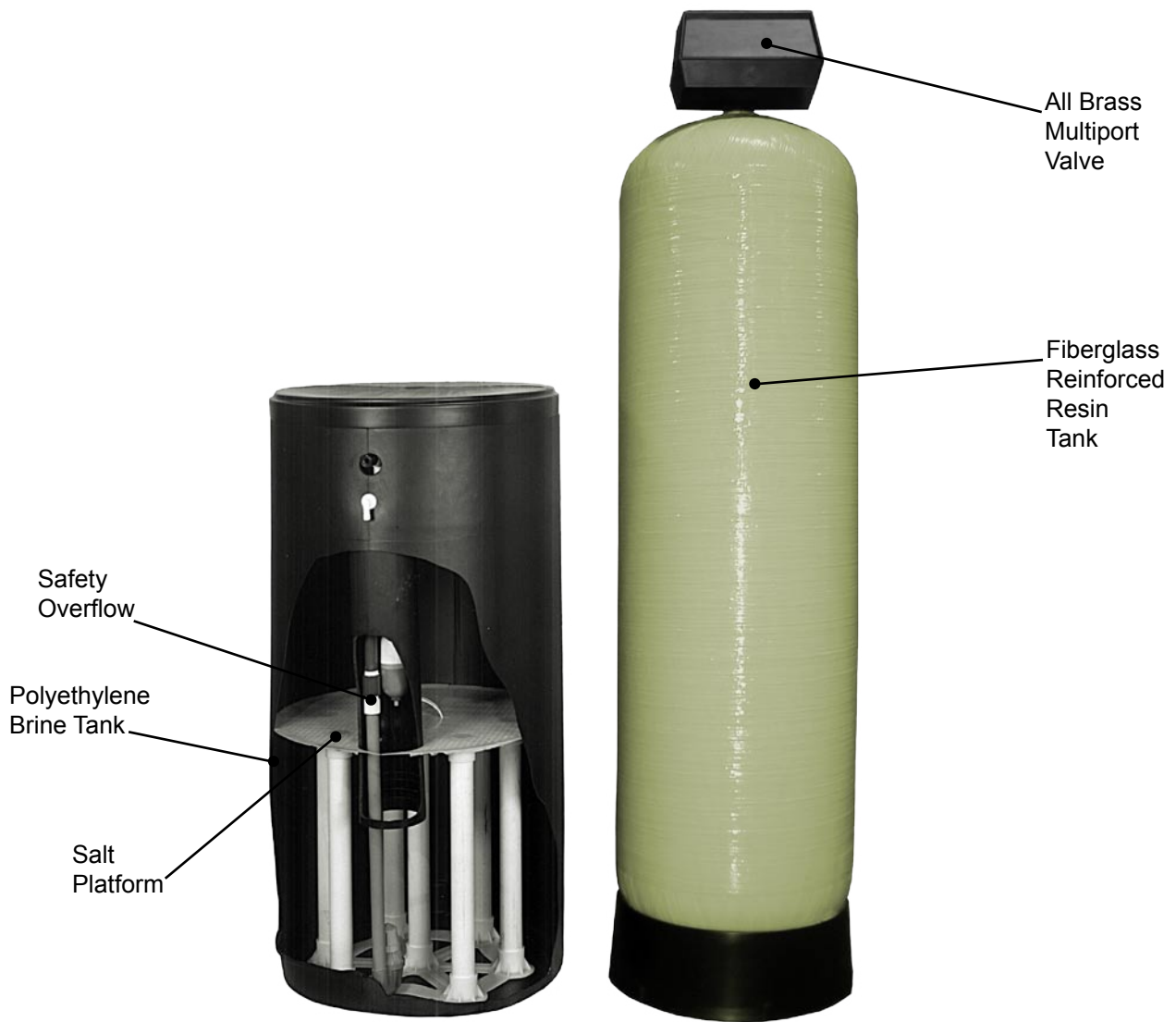
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## PACKAGED WATER SOFTENERS

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**OPTIONAL:** Preloaded, skid mounted,  
prepped and prewired



Over the years, Hurst Boiler has built a reputation as an industry standard for high quality water treatment systems and equipment.

HWS Series Softeners reflect that overall commitment to excellence, and are fabricated using field tested designs with a proven record of service reliability.

**Designed for "Multiple Applications"**

HWS Series Water Softeners are designed to fit the requirements of many types of commercial and industrial applications.

**Operating Specifications:**

- Pressure Range - 25 to 125 psi.
- Temperature - Up To 110 °F
- Electrical Rating - 120V / 60Hz  
220V / 50Hz  
(Available on request)

Check with factory for other operating conditions.

**HWS SERIES SOFTENERS OFFER:**

**Simplicity**

Uncomplicated straightforward valve and brine system design coupled with rugged corrosion resistant tank construction ensures years of "trouble-free" field operation.

**Low Maintenance**

HWS Series Softeners are fabricated using high quality components to minimize maintenance requirements. If the need for service should arise, all valves, distributors, and operational components are easy to reach. All components are standard and readily available from stock.

**Fully Automatic Operation**

Standard integral time clock controller can be preset to initiate regeneration automatically at desired time intervals. If softened water usage increases unexpectedly, simply depress the manual regeneration lever and the unit will regenerate automatically and return to service without having to reset the time clock.



1 1/2" Twin Alternating Valve



1 " Valve with meter option  
(Electronic)



3" Valve



1 1/2" Valve with meter option



2" Valve with meter option

### 5 Cycle, Motor Driven Control Valve:

HWS Softeners utilize motor driven, corrosion resistant, all brass multiport control valves. These valves offer reliable operation and do not depend on water pressure for initiation of regeneration thereby eliminating problems caused by fluctuating water pressure. All four regeneration cycles (backwash, brining, slow rinse and brine tank refill) are fully adjustable. Single units offer an automatic hard water bypass during regeneration for uninterrupted service.

### Automatic Backwash Control:

HWS Softeners utilize a patented self-adjusting flow control to maintain accurate backwash flow rates regardless of line pressure fluctuations. This control is factory installed and requires no field adjustment.

### Optional Meter Operation:

Should the demand for soft water fluctuate often, you may specify an optional reset water meter which initiates regeneration on a "gallons used" basis. You may select a mechanical auto-reset water meter or an electronic demand type meter.

### Optional Twin Alternating Operation:

HWS Twin Alternating Softener systems are designed to assure you of a fully regenerated softener on standby, ready to go when the unit on-line exhausts. This is accomplished by the use of sequencing controls which takes the exhausted unit out of service, and put the freshly regenerated standby unit on-line. There is never an interruption of the soft water supply. All twin alternating systems are equipped with water meter based regeneration as standard. Twin Alternating systems with 1" and 1 1/2" pipe sizes will use a single control valve to serve both tanks. Systems with 2" or 3" pipe sizes use a separate control valve for each tank.

### Optional Skid Mounted, Prepped, and Prewired:

HWS softener resin tanks can be mounted on a steel skid and supplied with factory installed interconnecting piping and wiring. This will ensure quick "trouble free" installation and reduce installation costs. Available on twin alternating systems only.

### Tough Corrosion Resistant Resin Tanks:

HWS series mineral tanks are constructed of fiberglass reinforced polyester. All tanks are designed and built for 150 psi working pressure.

### Tough Corrosion Resistant Brine Tanks:

Rigid, polyethylene brine tanks with dust tight covers are completely corrosion resistant and stand up well to everyday physical abuse.

### High Platform Salt System:

Our exclusive high platform salt system keeps brine clean and, therefore, allows the use of most grades of salt. Salt mushing and bridging are virtually eliminated because only an essential amount of salt is moistened for each regeneration.

### Timed Filled Brining:

Motorized "timed-fill" control valve with automatic flow control affords accurate salt settings which can be easily adjusted by a salt setting dial on the softener control. No repositioning of plugs or removal of salt is necessary in order to vary salt dosages. All models are equipped as standard with a safety valve to prevent brine tank overflow.

### High Capacity Resin:

HWS Softeners utilize virgin high capacity polystyrene, sulfonated resins of uniform size for maximum hardness removal and salt efficiency.

### Fully Packaged:

All softeners are fully factory assembled and tested before shipment. Each unit is shipped on wooden pallets to eliminate damage during shipment.

# HWS SERIES SOFTENER SPECIFICATIONS

Catalog Model Number Single	Catalog Model Number Twin	Grains Capacity and Salt Dosages (Lbs.) (Per Tank)		Pipe Size	Service Flow Rates (Per Tank)		Backwash Flow Rate	Resin Load (Per Tank)	Tank Sizes		Salt Storage Capacity	Dimensions In.			
					Continuous	Peak			Softener	Brine		Length Single	Length Twin	Width	Height <sup>(3)</sup>
		Max.	Min.	In.	<sup>(1)</sup> GPM	<sup>(2)</sup> GPM	GPM	Cu. Ft.	In.	In.	Lbs.				
HWS - 30-¾-S	HWS - 30-¾-T	30,000	20,000	¾	10	14	2.0	1.0	9 x 48	18 x 33	290	33	48	18	56
HWS - 30-1-S	HWS - 30-1-T	15	6	1	14	19									56
HWS - 45-¾-S	HWS - 45-¾-T	45,000	30,000	¾	13	17	3.0	1.5	10 x 54	18 x 40	320	34	50	18	62
HWS - 45-1-S	HWS - 45-1-T	22.5	9	1	15	20									62
HWS - 60-1-S	HWS - 60-1-T	60,000	40,000	1	16	21	3.5	2.0	12 x 52	18 x 40	320	36	54	18	60
HWS - 60-1½-S	HWS - 60-1½-T	30	12	1½	28	39			13 x 54						62
HWS - 90-1-S	HWS - 90-1-T	90,000	60,000	1	17	22	5.0	3.0	14 x 65	18 x 40	270	38	58	18	73
HWS - 90-1½-S	HWS - 90-1½-T	45	18	1½	31	42									73
HWS - 120-1-S	HWS - 120-1-T	120,000	80,000	1	18	23	6.0	4.0	16 x 65	24 x 40	550	46	68	24	73
HWS - 120-1½-S	HWS - 120-1½-T	60	24	1½	34	46									73
HWS - 150-1½-S	HWS - 150-1½-T	150,000	100,000	1½	37	51	8.0	5.0	18 x 65	24 x 40	500	48	72	24	75
HWS - 150-2-S	HWS - 150-2-T	75	30	2	61	80									79
HWS - 210-1½-S	HWS - 210-1½-T	210,000	140,000	1½	39	52	12.0	7.0	21 x 62	24 x 50	600	51	82	24	72
HWS - 210-2-S	HWS - 210-2-T	105	42	2	60	77									76
HWS - 300-1½-S	HWS - 300-1½-T	300,000	200,000	1½	41	55	15.0	10.0	24 x 72	24 x 50	450	54	90	24	82
HWS - 300-2-S	HWS - 300-2-T	150	60	2	68	91									86
HWS - 450-1½-S	HWS - 450-1½-T	450,000	300,000	1 1/2	45	62	25.0	15.0	30 x 72	30 x 48	590	66	108	30	89
HWS - 450-2-S	HWS - 450-2-T	225	90	2	84	105									93
HWS - 600-2-S	HWS - 600-2-T	600,000	400,000	2	87	110	35.0	20.0	36 x 72	39 x 48	1250	81	129	39	91
HWS - 600-3-S	HWS - 600-3-T	300	120	3	185	250									94
HWS - 900-3-S	HWS - 900-3-T	900,000	600,000	3	165	225	35.0	30.0	42 x 72	42 x 60	2000	90	144	42	99
		450	180												
HWS - 1200-3-S	HWS - 1200-3-T	1,200,000	800,000	3	205	275	55.0	40.0	48 x 72	42 x 60	1700	96	156	48	102
		600	240												

(1) At a 15 psi pressure loss. (2) At a 25 psi pressure loss. (3) Add 24" min. additional clearance for loading media.



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