

Commercial WS2H Water Softeners



Features & Benefits

- 2" top-mount or side-mount control valve suited for commercial and industrial applications
- Solid-state microprocessor with easy-access front removable POD. Can control from one to four units. Optional system control board required for a third or fourth unit to be implemented into the system design
- Lead-free brass valve body utilizing an NSF/FDA approved black epoxy electro-deposited coating for exceptional corrosion protection
- Built-in electronic meter standard with all valves providing $\pm 5\%$ accuracy across 1.5 to 125 GPM service flow range
- Four methods to initiate the downflow regeneration: meter delayed, meter immediate, time clock delayed or pressure differential



WS2H System Design Options

- Single: One softener with a built-in meter, one brine tank. See choices for regeneration initiation
- Twin Parallel: Two identical softeners, each with its own meter, only one brine tank. Meter delayed regeneration used with offset regeneration times. Both softeners are online for double the service flow rate and exchange capacity of a single softener
- Twin Alternating: Two identical softeners with internal meters, one brine tank and one motorized alternating valve. Meter immediate regeneration used. One softener online, one softener on standby
- Parallel Progressive: Minimum two, up to as many as four identical softeners, each with its own meter and brine tank, and each with its own "no hard water bypass" valve. *One system board is required to interlock three or four softeners.* Only one softener, known as the primary unit, is online as the service flow rate increases past a pre-set GPM, the second

softener will come online. If the service flow rate increases beyond a second pre-set GPM, the third softener will come online (tri-plex), and so on up to a four-plex system. As the service flow rate decreases, softeners will go back on standby accordingly. When the primary unit goes into regeneration, the next softener in the sequence becomes the primary unit

- "No hard water bypass" valve
- "Separate source regeneration" using motorized alternating valve
- A system board is required for separate source regeneration
- ASME stamped mineral tanks are available if required by local plumbing codes. Please consult factory for pricing and availability

MODEL NUMBER	SERVICE FLOW RATES				BACK WASH GPM	GRAINS EXCHANGE CAPACITY PER REGENERATION				MINERAL TANK DIA X HT (INCHES)	OVERALL HEIGHT (INCHES)	RESIN VOLUME CU. FT.	BRINE TANK DIA X HT (INCHES)	SALT STORAGE LBS
	CONTINUOUS		INTERMITTENT (PEAK)			MAX GRAINS		MIN GRAINS						
	GPM	PSI DROP	GPM	PSI DROP		@ 15 LBS SALT PER CU. FT.	SALT USED LBS	@ 8 LBS SALT PER CU. FT.	SALT USED LBS					
7-WS2H-150	75	15	97	25	10.0	150,000	75	120,000	40	21 x 62	75	5	24 x 50	800
7-WS2H-180	72	15	92	25	10.0	180,000	90	144,000	48	21 x 62	75	6	24 x 50	800
7-WS2H-210	68	15	88	25	10.0	210,000	105	168,000	56	21 x 62	75	7	24 x 50	800
7-WS2H-240	77	15	100	25	15.0	240,000	120	192,000	64	24 x 72	90	8	30 x 50	1250
7-WS2H-270	76	15	98	25	15.0	270,000	135	216,000	72	24 x 72	90	9	30 x 50	1250
7-WS2H-300	75	15	97	25	15.0	300,000	150	240,000	80	24 x 72	90	10	30 x 50	1250
7-WS2H-300-30	92	15	120	25	25.0	300,000	150	240,000	80	30 x 72	86	10	30 x 50	1250
7-WS2H-450	88	15	113	25	25.0	450,000	225	360,000	120	30 x 72	86	15	39 x 48	2150
7-WS2H-450-36	100	15	130	25	35.0	450,000	225	360,000	120	36 x 72	87	15	39 x 48	2150
7-WS2H-600	97	15	126	25	35.0	600,000	300	480,000	160	36 x 72	87	20	39 x 48	2150
7-WS2H-750	106	15	137	25	48.0	750,000	375	600,000	200	42 x 72	105	25	42 x 60	3100
7-WS2H-900	104	15	130	25	48.0	900,000	450	720,000	240	42 x 72	105	30	50 x 60	4500
7-WS2H-1200	105	15	136	25	63.0	1,200,000	600	960,000	320	48 x 72	105	40	50 x 60	4500
7-WS2H-2100	111	15	143	25	90.0	2,100,000	1050	1,680,000	560	63 x 86	110	70	50 x 60	4500

Commercial WS3 Water Softeners



Features & Benefits

- 3" top-mount or side-mount control valve suited for commercial and industrial applications
- Lead-free brass valve body utilizing an NSF/FDA approved black epoxy electro-deposited coating for exceptional corrosion protection
- 3" external stainless steel meter standard on all valves providing $\pm 5\%$ accuracy across 3.5 to 350 GPM service flow range
- Solid-state microprocessor with easy-access front removable POD. Can control from one to four units. Optional system control board required for a third or fourth unit to be implemented into the system design
- Four methods to initiate the downflow regeneration: meter delayed, meter immediate, time clock delayed or pressure differential



WS3 System Design Options

- Single: One softener with an external meter, one brine tank. See choices for regeneration initiation
- Twin Parallel: Two identical softeners, each with its own meter, only one brine tank. Meter delayed regeneration used with offset regeneration times. Both softeners are online for double the service flow rate and exchange capacity of a single softener
- Twin Alternating: Two identical softeners with one meter, one brine tank, and one motorized alternating valve. Meter immediate regeneration used. One softener online, one softener on standby
- Parallel Progressive: Minimum two, up to as many as four identical softeners, each with its own meter and brine tank, and each with its own no hard water bypass valve. *One system board is required to interlock three or four softeners.* Only one softener, known as the primary unit, is online as the service flow rate increases past a pre-set GPM, the second softener will come online. If the service flow rate increases beyond a

second pre-set GPM, the third softener will come online (tri-plex), and so on up to a four-plex system. As the service flow rate decreases, softeners will go back on standby accordingly. When the primary unit goes into regeneration, the next softener in the sequence becomes the primary unit

- "No hard water bypass" valve
- "Separate source regeneration" using motorized alternating valve
- A system board is required for separate source regeneration
- ASME stamped mineral tanks are available if required by local plumbing codes. Please consult factory for pricing and availability

MODEL NUMBER	SERVICE FLOW RATES				BACK WASH GPM	GRAINS EXCHANGE CAPACITY PER REGENERATION				MINERAL TANK DIA X HT (INCHES)	OVERALL HEIGHT (INCHES)	RESIN VOLUME CU. FT.	BRINE TANK DIA X HT (INCHES)	SALT STORAGE LBS
	CONTINUOUS		INTERMITTENT (PEAK)			MAX GRAINS		MIN GRAINS						
	GPM	PSI DROP	GPM	PSI DROP		@ 15 LBS SALT PER CU. FT.	SALT USED LBS	@ 8 LBS SALT PER CU. FT.	SALT USED LBS					
7-WS3-240	111	15	143	25	15.0	240,000	120	192,000	64	24 x 72	90	8	30 x 50	1250
7-WS3-270	104	15	134	25	15.0	270,000	135	216,000	72	24 x 72	90	9	30 x 50	1250
7-WS3-300	98	15	126	25	15.0	300,000	150	240,000	80	24 x 72	90	10	30 x 50	1250
7-WS3-300-30	158	15	205	25	25.0	300,000	150	240,000	80	30 x 72	86	10	30 x 50	1250
7-WS3-450	144	15	186	25	25.0	450,000	225	360,000	120	30 x 72	86	15	39 x 48	2150
7-WS3-450-36	185	15	238	25	35.0	450,000	225	360,000	120	36 x 72	87	15	39 x 48	2150
7-WS3-600	172	15	222	25	35.0	600,000	300	480,000	160	36 x 72	87	20	39 x 48	2150
7-WS3-750	190	15	244	25	48.0	750,000	375	600,000	200	42 x 72	105	25	42 x 60	3100
7-WS3-900	180	15	238	25	48.0	900,000	450	720,000	240	42 x 72	105	30	50 x 60	4500
7-WS3-1200	194	15	251	25	63.0	1,200,000	600	960,000	320	48 x 72	105	40	50 x 60	4500
7-WS3-2100	210	15	270	25	70.0	2,100,000	1050	1,680,000	560	63 x 86	112	70	50 x 60	4500



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