

Commercial Heavy Duty Water Softener – CWS200H

CWS200H water softeners are suitable for commercial applications ranging from 100,000 to 600,000 grains of hardness removal capacity at flow rates up to 126 gpm.

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 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 the Watts Enhanced Electronic controller. It combines simplicity with flexibility in a user-friendly package that is easy to setup and operate. Fully adjustable cycle times with 6-cycle control allows for application specific settings. A turbine flow meter provides accurate flow measurement and allows for efficient operation. The H series controllers have the option of including the auxiliary system circuit board which allows up to four units to be connected together for multiple tank applications.

Control Valve - The Watts 2.0" Heavy Duty control valve operates on command from the valve controller. A hydraulically balanced piston glides effortlessly along non-corrosive spacers and seals to precise positions. The reliable and proven DC drive performs in the toughest applications. The lead free brass valve body is covered with an electro-statically applied NSF/ FDA approved epoxy coating that resists corrosion and maintains a quality appearance over time. The 2.0" H valves include a built in turbine meter for flow monitoring. This feature reduces the cost, simplifies the installation, and saves space.

Resin Tanks - All models feature non-corrosive fiberglass tanks, with a one-piece thermoplastic inner liner. The tanks are approved by NSF, UL, FDA, and meet WQA standard S-100.

Brine System - The brine tank is made of tough, high-density polyethylene. Brine tanks 24" in diameter and smaller feature a grid plate for maximum saturation of brine. A high quality air check prevents air from entering the system.



CWS200H System

Standard features

- Third party tested fully automatic metered demand control valve
- Sophisticated digital electronic controls that store operating history that can be accessed by the user
- Fully adjustable regeneration cycles
- Durable lead free brass bodied control valve for years of service
- Input for remote signal regeneration initiation
- WQA Certified high capacity resin
- Highly corrosion resistant NSF Certified fiberglass tanks
- Durable polypropylene lower distribution system

Specification

MODEL NO.	MINERAL TANK			BRINE TANK		SOFTENING CAPACITY		SALT PER REGENERATION		FLOW RATE & PRESSURE		
	TANK SIZE	RESIN FT3	GRAVEL (LBS.)	TANK SIZE	SALT FILL	MAX	MIN	MAX	MIN	SERVICE (GPM)	DROP (PSI)	BKW (GPM)
M4548WH	18x65	5	100	24x41	600	150 K	100 K	75	30	54/70	15/25	10
M4552WH	21x62	7	100	24x50	600	210 K	140 K	105	42	68/88	15/25	13
M4558WH	24x72	10	200	30x50	1200	300 K	200 K	150	60	75/97	15/25	15
M4559WH	30x72	15	400	39x48	2200	450 K	300 K	225	90	88/113	15/25	25
M4560WH	36x72	20	500	39x48	2200	600 K	400 K	300	120	97/126	15/25	35

Note: Flow rates listed above are based on pressure drop only. Selecting a system based on pressure drop alone does not guarantee that the system will provide adequately softened water. System selection should be based on resin quantity, capacity required, feed water analysis, and application requirements.

Ordering Information

MODEL NO.	DESCRIPTION	SPACE REQUIRED	WEIGHT
M4548WH	A0150FM200WH with integral turbine meter	24 x 48 x 89	400 lbs.
M4552WH	A0210FM200WH with integral turbine meter	24 x 52 x 89	600 lbs.
M4558WH	A0300FM200WH with integral turbine meter	30 x 60 x 96	710 lbs.
M4559WH	A0450FM200WH with integral turbine meter	39 x 75 x 106	1160 lbs.
M4560WH	A0600FM200WH with integral turbine meter	39 x 81 x 107	1560 lbs.



A Watts Water Technologies Company

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