

Heavy Commercial Softener

With Side Mount Valve

US Engineered Products

Water softeners (8 models) are suitable for light commercial applications ranging from 200,000 to 1,200,000 grains of hardness removal capacity at flow rates up to 280 gpm.



HC 200-300

Operation of the Softener

Hard water contains dissolved minerals in the form of Calcium (Ca), Magnesium (Mg), and Iron (Fe). Removal of these minerals is accomplished by an ion exchange process. 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, physically hard, and is chlorine resistant. The media combines high operating capacity with excellent chemical and physical stability for long dependable life. Request media specifications for details.

Choice of Controllers

Regeneration cycle can be initiated by a time-clock, or optional meter. The unit can either be a single tank, a duplex, or a triplex system with a choice of meter systems.

Regeneration Controller

The HC 200-300 Series softener models are controlled by a reliable electro-mechanical or electronic controller. The controller has either a 7 day, 12 day or meter that initiates regeneration. A fully adjustable 5 cycle timer delivers a controlled up flow backwash, down flow brining and slow rinse, rapid rinse, brine refill, and service.

Control Valve

The 2.0"-3.0" control valve operates on commands from the valve controller.

A hydraulically balanced piston glides effortlessly along non-corrosive spacers and seals to a precise position. This precision motor-driven valve performs in the toughest applications and is made of high quality brass for a long and reliable life.

Resin Tanks

All HC 200-300 Series softener models feature steel tanks with epoxy lined interior and primed exterior coat. The tank has a maximum working pressure of 100 psi and a working temperature up to 120°F.

Brine Tank

The brine tank is a combination brine maker and salt storage vessel and is made of tough, high density polyethylene. Larger tanks are available for extra Salt storage capacity.

Brine System

Brine refill is automatically controlled, by the timer/controller, to provide the correct amount of brine for each regeneration. (The Brine System has an optional float and safety valve shut-off, which minimizes the chance of overflowing the brine tank.) All units are equipped with an air check.

Options:

1. Water Meter Regeneration
 - a. Immediate/Delay – Single tank.
 - b. Twin or Triple Interlock – Parallel service twin/triple tank system using
 - c. Twin or Triple Alternating – Alternating service using one meter. One unit is always on line, while the other is regenerating or in standby.
2. No hard water bypass is an option.

HC 200-300

Steel Tank W/Side Mount Valve Softeners																
MODEL NUMBER	Mineral Tank		Media	Under Bedding		Brine Tank		Softening Capacity		Lbs. Per Regen.		Flow/Pressure			Space Requirements	
	Pipe Size	Tank Size	CUFT	1/4X 1/8	#20	Size	Salt Fill	Max	Min	Max	Min	Serv GPM	Drop PSI	BKW GPM	Floor	Height
A0300M29	2"	24X60	10	100	100	30X50	900	300K	200K	150	60	68/94	15/25	15	38x60	81
A0450M29	2"	30X60	15	200	100	39X48	2200	450K	300K	225	90	72/102	15/25	25	44x75	85
A0600M31	2"	36X60	20	200	200	39X48	2200	600K	400K	300	120	78/107	15/25	35	50x81	93
A0600M39	3"	36X60	20	200	200	39X48	2200	600K	400K	300	120	185/250	15/25	35	50x81	93
A0900M31	2"	42X60	30	400	300	42X60	3000	900K	600K	450	180	84/118	15/25	45	56x90	94
A0900M39	3"	42X60	30	400	300	42X60	3000	900K	600K	450	180	200/268	15/25	45	56x90	94
A1200M31	2"	48X60	40	600	400	50X60	4500	1200K	800K	600	240	87/120	15/25	60	62x104	101
A1200M39	3"	48X60	40	600	400	50X60	4500	1200K	800K	600	240	213/280	15/25	60	62x104	101

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Products and Services for the Water Treatment Industry

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