

HC - 300

HC - 300 Series Water Softeners

With Top Mount Valve

US Engineered Products

water softeners are suitable for commercial applications ranging from 200,000 to 1,050,000 grains of hardness removal capacity at flow rates up to 280 gpm. The HC-300 systems can easily be configured as single or multiple tank systems.

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 Fleck 3200 NT electronic controller. It combines simplicity with flexibility in a user-friendly package that is easy to setup and operate. Multiple controllers can be networked together, which allows a wide variety of multi tank systems to be configured in the field.

Control Valve

The 3" Fleck 3900 control valve operates on command from the valve controller. Two hydraulically balanced pistons glide effortlessly along non-corrosive spacers and seals to precise positions. This precision motor driven valve performs in the toughest applications and is made of high quality brass for a long reliable life.

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, and a high quality air check prevents air from entering the system.

	Mineral Tank			Brine Tank		Softening		Lbs. Salt Per		Flow Rate & Pressure		
	Tank	Resin	Gravel	Tank	Salt	Cap	acity	Regene	eration	Serv	Drop	BKW
Model Number	Size	Ft ³	#20	Size	Fill	Max	Min	Max	Min	GPM	PSI	GPM
A0300FM3900NT	24x72	10	200 lbs.	30x50	1400	300 K	200 K	150	60	120/170	15/25	15
A0450FM3900NT	30x72	15	400 lbs.	39x48	2200	450 K	300 K	225	90	158/212	15/25	25
A0600FM3900NT	36x72	20	500 lbs.	39x60	2700	600 K	400 K	300	120	185/250	15/25	35
A0900FM3900NT	42x72	30	700 lbs.	42x60	3100	900 K	600 K	450	180	200/268	15/25	45
A1050FM3900NT	48x72	35	900 lbs.	50x60	4500	1050K	700 K	525	210	213/280	15/25	60

Part Number	Description	Space Required	Weight	
M4110-39NT	A0300FT3900NT time clock unit	39 x 69 x 103	1070 lbs.	
M4112-39NT	A0450FT3900NT time clock unit	39 x 75 x 107	1600 lbs.	
M4114-39NT	A0600FT3900NT time clock unit	39 x 81 x 109	2015 lbs.	
M4116-39NT	A0900FT3900NT time clock unit	42 x 90 x 117	3245 lbs.	
M4118-39NT	A1050FT3900NT time clock unit	50 x104x 117	4295 lbs.	
M4110B-39NT	A0300FM3900NT with 3" strap on Signet sensor	39 x 69 x 103	1070 lbs.	
M4112B-39NT	A0450FM3900NT with 3" strap on Signet sensor	39 x 75 x 107	1600 lbs.	
M4114B-39NT	A0600FM3900NT with 3" strap on Signet sensor	39 x 81 x 109	2015 lbs.	
M4116B-39NT	A0900FM3900NT with 3" strap on Signet sensor	42 x 90 x 117	3245 lbs.	
M4118B-39NT	A1050FM3900NT with 3" strap on Signet sensor	50 x104x 117	4295 lbs.	
M4110TA-39NT	A0300FM3900NT twin alternating with 3" strap on sensor	39 x 100 x 103	2070 lbs.	
M4112TA-39NT	A0450FM3900NT twin alternating with 3" strap on sensor	39 x 117x 107	3000 lbs.	
M4114TA-39NT	A0600FM3900NT twin alternating with 3" strap on sensor	39 x 129 x 109	4015 lbs.	
M4116TA-39NT	A0900FM3900NT twin alternating with 3" strap on sensor	42 x 144 x 117	6245 lbs.	
M4118TA-39NT	A1050FM3900NT twin alternating with 3" strap on sensor	50 x164x 117	8295 lbs.	

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Products and Services for the Water Treatment Industry

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