



# Softeners

Envirogen softeners are used to “soften” hard water. Hard Water contains dissolved minerals in the form of Calcium (Ca), Magnesium (Mg), and Iron (Fe). Removal of these minerals is accomplished by softening the water through an ion exchange process.

As the water flows through the mineral tank, the dissolved minerals become attached to the resin, creating soft water. Over a period of time the resin will become exhausted, and the softener will regenerate the resin using a brine solution produced from the salt in the brine tank.

## Features and Benefits

- Wide range of commercial, and industrial grade softeners
- Single, Twin Alternating, Duplex, Triplex and Quad configurations
- Electronic valves for ease of control
- Regenerate based on time or flow
- Flow range from 4 to 900 GPM
- FRP or carbon steel softener tanks and polyethylene brine tanks
- Counter-flow models available when highest performance is required
- Provides Excellent Scale Prevention Pretreatment for Reverse Osmosis Systems and prolongs life of downstream equipment



## Product Range at a Glance

Envirogen Softener	Flow Range (GPM)	Hardness Capacity Range (Grains)	Backwash Flow Rate (GPM)	Control Type	Softener Tank Material	Single or Multi Softener Tanks
EWS 2850	4-63	60,000 - 300,000	15-Apr	Fleck 2850 SXT or NXT, 1.5"	FRP	Single
EWS 9500	4-63	60,000 - 300,000	3.5-15	Fleck 9500, 1.5"	FRP	Twin Alternating
EWS 2900	5-105	90,000 - 600,000	May-35	Fleck 2900, 2"	FRP	Single or Twin Alternating
EWS 3900	35-230	600,000-1,050,000	35-60	Fleck 3900, 3"	FRP	Single or Twin Alternating
EWS SM2900	12-400	210,000-600,000	Dec-35	Fleck 2900 NXT, 2"	FRP	Twin alternating or 2-4 parallel
EWS SM3900	35-900	600,000-1,050,000	35-60	Fleck 3900, 3"	FRP	Twin alternating or 2-4 parallel
EWS HF	12-230 per tank (times 2,3,4)	210,000-1,050,000	Dec-60	Fleck 2900 (2") or 3900 (3") NXT metered	FRP	Duplex, Triplex, or Quad
EWS STEEL	11-230	300,000-1,200,000	15-60	Fleck 2900 (2"), 3150 (2") or 3900 (3") NXT metered	Epoxy lined carbon steel	Single or twin alternating

## Ordering Information

### EWS 2850 Series Water Softeners with Fleck 2850 Control Valves

MODEL NO.	MAX CAPACITY	PIPE	SOFTENER TANK		BRINE TANK		FLOW RATE & PRESSURE			SHIP WT.
	GRAINS HARDNESS	SIZE (IN.)	SIZE INXIN	RESIN FT <sup>3</sup>	SIZE INXIN	SALT FILL (LBS)	SERVICE (GPM)	DROP (PSI)	BACKWASH (GPM)	(LBS)
<b>With 2850 Digital SXT Time Clock Control Valves</b>										
E4210SE	60,000	1 1/2	12x52	2	18x40	400	15-20	15-25	4	210
E4214SE	90,000	1 1/2	14x65	3	18x40	400	17-22	15-25	5	240
E4218SE	120,000	1 1/2	16x65	4	18x40	400	25-40	15-25	7	320
E4222SE	150,000	1 1/2	18x65	5	24x41	600	30-50	15-25	11	380
E4226SE	210,000	1 1/2	21x62	7	24x50	800	35-53	15-25	13	585
E4230SE	300,000	1 1/2	24x72	10	30x50	1200	40-55	15-25	15	710
<b>With 2850 Digital SXT Metered Control Valves</b>										
E4210BSE	60,000	1 1/2	12x52	2	18x40	400	15-20	15-25	4	210
E4214BSE	90,000	1 1/2	14x65	3	18x40	400	17-22	15-25	5	240
E4218BSE	120,000	1 1/2	16x65	4	18x40	400	25-40	15-25	7	320
E4222BSE	150,000	1 1/2	18x65	5	24x41	600	30-50	15-25	11	380
E4226BSE	210,000	1 1/2	21x62	7	24x50	800	35-53	15-25	13	585
E4230BSE	300,000	1 1/2	24x72	10	30x50	1200	40-55	15-25	15	710
<b>With 2850 NXT Metered Control Valves</b>										
E4210B-285NT	60,000	1 1/2	12x52	2	18x40	400	15-20	15-25	4	210
E4214B-285NT	90,000	1 1/2	14x65	3	18x40	400	17-22	15-25	5	240
E4218B-285NT	120,000	1 1/2	16x65	4	18x40	400	25-40	15-25	7	320
E4222B-285NT	150,000	1 1/2	18x65	5	24x41	600	30-50	15-25	11	380
E4226B-285NT	210,000	1 1/2	21x62	7	24x50	800	35-53	15-25	13	585
E4230B-285NT	300,000	1 1/2	24x72	10	30x50	1200	40-55	15-25	15	710

### EWS 9500 Series Twin Tank Water Softeners with Fleck 9500 Control Valves

MODEL NO.	MAX CAPACITY	PIPE	SOFTENER TANK		BRINE TANK		FLOW RATE & PRESSURE			SHIP WT.
	GRAINS HARDNESS	SIZE (IN.)	SIZE INXIN	RESIN FT <sup>3</sup>	SIZE INXIN	SALT FILL (LBS)	SERVICE (GPM)	DROP (PSI)	BACKWASH (GPM)	(LBS)
<b>With 9500 Digital SXT Metered Control Valves</b>										
E2218SE	60,000	1 1/2	12x52	2	24x41	600	15-20	15-25	3.5	270
E2220SE	90,000	1 1/2	14x65	3	24x41	600	17-22	15-25	5	550
E2222SE	120,000	1 1/2	16x65	4	24x41	600	25-40	15-25	7	720
E2224SE	150,000	1 1/2	18x65	5	24x41	600	30-50	15-25	10	900
E2228SE	210,000	1 1/2	21x62	7	24x50	800	35-53	15-25	12	1215
E2235SE	300,000	1 1/2	24x72	10	30x50	1200	40-55	15-25	15	1750

### EWS 2900 Series Water Softeners with Fleck 2900 Control Valves

MODEL NO.	MAX CAPACITY	PIPE	SOFTENER TANK		BRINE TANK		FLOW RATE & PRESSURE			SHIP WT.
	GRAINS HARDNESS	SIZE (IN.)	SIZE INXIN	RESIN FT <sup>3</sup>	SIZE INXIN	SALT FILL (LBS)	SERVICE (GPM)	DROP (PSI)	BACKWASH (GPM)	(LBS)
<b>With Fleck 2900 Time Clock Valves</b>										
E4043-29NT	90,000	2	14x65	3	18x40	400	25-40	15-25	5	350
E4047-29NT	120,000	2	16x65	4	18x40	400	35-55	15-25	7	350
E4048-29NT	150,000	2	18x65	5	24x41	600	57-65	15-25	10	400
E4052-29NT	210,000	2	21x62	7	24x50	800	60-77	15-25	13	600
E4058-29NT	300,000	2	24x72	10	30x50	1200	74-97	15-25	15	710
E4059-29NT	450,000	2	30x72	15	39x48	2200	80-100	15-25	25	1160
E4060-29NT	600,000	2	36x72	20	39x60	2700	84-105	15-25	35	1560
<b>With Fleck 2900 NXT Metered Control Valves</b>										
E4043B-29NT	90,000	2	14x65	3	18x40	400	25-40	15-25	5	350
E4047B-29NT	120,000	2	16x65	4	18x40	400	35-55	15-25	7	350
E4048B-29NT	150,000	2	18x65	5	24x41	600	57-65	15-25	10	400
E4052B-29NT	210,000	2	21x62	7	24x50	800	60-77	15-25	13	600
E4058B-29NT	300,000	2	24x72	10	30x50	1200	74-97	15-25	15	710
E4059B-29NT	450,000	2	30x72	15	39x48	2200	80-100	15-25	25	1160
E4060B-29NT	600,000	2	36x72	20	39x60	2700	84-105	15-25	35	1560
<b>Twin Alternating with Fleck 2900 NXT Metered Control Valves</b>										
E4043TA-29NT	90,000	2	14x65	3	18x40	400	25-40	15-25	5	450
E4047TA-29NT	120,000	2	16x65	4	18x40	400	35-55	15-25	7	500
E4048TA-29NT	150,000	2	18x65	5	24x41	600	57-65	15-25	10	800
E4052TA-29NT	210,000	2	21x62	7	24x50	800	60-77	15-25	13	1200
E4058TA-29NT	300,000	2	24x72	10	30x48	1200	74-97	15-25	15	1400
E4059TA-29NT	450,000	2	30x72	15	39x48	2200	80-100	15-25	25	2200
E4060TA-29NT	600,000	2	36x72	20	39x60	2700	84-105	15-25	35	3000

**EWS 3900Series Water Softeners with Fleck 3900 Control Valves**

MODEL NO.	MAX CAPACITY	PIPE	SOFTENER TANK		BRINE TANK		FLOW RATE & PRESSURE			SHIP WT. (LBS)
			SIZE INXIN	RESIN FT3	SIZE INXIN	SALT FILL (LBS)	SERVICE (GPM)	DROP (PSI)	BACKWASH (GPM)	

**With Fleck 3900 Time Clock Control Valves**

E4110-39NT	300,000	3	24x72	10	30x50	1200	120-170	15-25	15	1070
E4112-39NT	450,000	3	30x72	15	39x48	2200	158-212	15-25	25	1600
E4114-39NT	600,000	3	36x72	20	39x60	2700	185-250	15-25	35	2015
E4116-39NT	900,000	3	42x72	30	42x60	3100	200-268	15-25	50	3245
E4118-39NT	1,050,000	3	48x72	35	50x60	4500	213-280	15-25	60	4295

**With Fleck 3900 NXT Metered Control Valves and Strap On Flow Sensor**

E4110B-39NT	300,000	3	24x72	10	30x50	1200	120-170	15-25	15	1070
E4112B-39NT	450,000	3	30x72	15	39x48	2200	158-212	15-25	25	1600
E4114B-39NT	600,000	3	36x72	20	39x60	2700	185-250	15-25	35	2015
E4116B-39NT	900,000	3	42x72	30	42x60	3100	200-268	15-25	50	3245
E4118B-39NT	1,050,000	3	48x72	35	50x60	4500	213-280	15-25	60	4295

**Twin Alternating with Fleck 3900 NXT Metered Control Valves and Strap On Flow Sensor**

E4110TA-39NT	300,000	3	24x72	10	30x50	1200	120-170	15-25	15	2070
E4112TA-39NT	450,000	3	30x72	15	39x48	2200	158-212	15-25	25	3000
E4114TA-39NT	600,000	3	36x72	20	39x60	2700	185-250	15-25	35	4015
E4116TA-39NT	900,000	3	42x72	30	42x60	3100	200-268	15-25	50	6245
E4118TA-39NT	1,050,000	3	48x72	35	50x60	4500	213-280	15-25	60	8295

**EWS SM2900Series Pre-Plumbed & Skid Mounted Water Softeners with Fleck 2900 Metered Control Valves**

MODEL NO.	MAX CAPACITY PER TANK	MAIN HEADERS - DRAIN PIPE	NO. OF TANKS - METERS	SOFTENER TANK		BRINE TANK		FLOW RATE & PRESSURE			FLOOR SPACE* D X W X H	SHIP WT. (LBS)
				SIZE INXIN	RESIN FT3 PER TANK	SIZE INXIN	SALT FILL (LBS)	SERVICE (GPM)	DROP (PSI)	BACKWASH (GPM)		

**With Fleck 2900 NXT Metered Control Valves**

E4052TA-PPSM	210,000	2-1	2-1	21"x62"	7	1-24x50	800	60-77	15-25	12	42" x 82" x 90"	2100
E4052TI-PPSM	210,000	3-1	2-2	21"x62"	7	2-24x50	1600	120-154	15-25	12	42" x 78" x 90"	2100
E4052TR-PPSM	210,000	3-1	3-3	21"x62"	7	3-24x50	2400	180-231	15-25	12	42" x 114" x 90"	3050
E4052QD-PPSM	210,000	4-1	4-4	21"x62"	7	4-24x50	3200	240-308	15-25	12	42" x 150" x 90"	3850
E4058TA-PPSM	300,000	2-1	2-1	24"x72"	10	1-30x50	1200	74-97	15-25	15	42" x 82" x 95"	2200
E4058TI-PPSM	300,000	3-1	2-2	24"x72"	10	2-30x50	2400	148-194	15-25	15	42" x 78" x 95"	2320
E4058TR-PPSM	300,000	4-1	3-3	24"x72"	10	3-30x50	3600	222-291	15-25	15	42" x 114" x 95"	3380
E4058QD-PPSM	300,000	4-1	4-4	24"x72"	10	4-30x50	4800	296-388	15-25	15	42" x 150" x 95"	4290
E4059TA-PPSM	450,000	2-1	2-1	30"x72"	15	1-39x48	2200	80-100	15-25	25	48" x 102" x 100"	3450
E4059TI-PPSM	450,000	3-1	2-2	30"x72"	15	2-39x48	4400	160-200	15-25	25	48" x 91" x 100"	3520
E4059TR-PPSM	450,000	4-1	3-3	30"x72"	15	3-39x48	6600	240-300	15-25	25	48" x 114" x 100"	4780
E4059QD-PPSM	450,000	4-1	4-4	30"x72"	15	4-39x48	8800	320-400	15-25	25	48" x 150" x 100"	6090
E4060TA-PPSM	600,000	2-1 1/2	2-1	36"x72"	20	1-39x60	2200	84-105	15-25	35	48" x 102" x 100"	4250
E4060TI-PPSM	600,000	3-1 1/2	2-2	36"x72"	20	2-39x60	4400	168-210	15-25	35	48" x 91" x 100"	4320
E4060TR-PPSM	600,000	4-1 1/2	3-3	36"x72"	20	3-39x60	6600	252-315	15-25	35	48" x 114" x 100"	5980
E4060QD-PPSM	600,000	4-1 1/2	4-4	36"x72"	20	4-39x60	8800	336-420	15-25	35	48" x 150" x 100"	7690

**EWS SM3900Series Pre-Plumbed & Skid Mounted Water Softeners with Fleck 3900 Metered Control Valves**

MODEL NO.	MAX CAPACITY PER TANK	MAIN HEADERS - DRAIN PIPE	NO. OF TANKS - METERS	SOFTENER TANK		BRINE TANK		FLOW RATE & PRESSURE			FLOOR SPACE* D X W X H	SHIP WT. (LBS)
				SIZE INXIN	RESIN FT3 PER TANK	SIZE INXIN	SALT FILL (LBS)	SERVICE (GPM)	DROP (PSI)	BACKWASH (GPM)		

**With Fleck 3900 NXT Metered Control Valves**

E4110TA-PPSM	300,000	3-1	2-1	24"x72"	10	1-30x50	1200	120-170	15-25	15	54" x 110" x 109"	3300
E4110TI-PPSM	300,000	4-1	2-2	24"x72"	10	2-30x50	2400	240-340	15-25	15	54" x 110" x 109"	3420
E4110TR-PPSM	300,000	4-1	3-3	24"x72"	10	3-30x50	3600	360-510	15-25	15	52" x 160" x 109"	5030
E4110QD-PPSM	300,000	6-1	4-4	24"x72"	10	4-30x50	4800	480-680	15-25	15	56" x 205" x 109"	6770
E4112TA-PPSM	450,000	3-1 1/2	2-1	30"x72"	15	1-39x48	2200	158-212	15-25	25	54" x 110" x 112"	4230
E4112TI-PPSM	450,000	4-1 1/2	2-2	30"x72"	15	2-39x48	4400	316-424	15-25	25	54" x 110" x 112"	4480
E4112TR-PPSM	450,000	6-1 1/2	3-3	30"x72"	15	3-39x48	6600	474-636	15-25	25	52" x 160" x 112"	6620
E4112QD-PPSM	450,000	6-1 1/2	4-4	30"x72"	15	4-39x48	8800	632-848	15-25	25	56" x 205" x 112"	8890
E4114TA-PPSM	600,000	3-1 1/2	2-1	36"x72"	20	1-39x60	2700	185-250	15-25	35	54" x 110" x 115"	5250
E4114TI-PPSM	600,000	4-1 1/2	2-2	36"x72"	20	2-39x60	5400	370-500	15-25	35	54" x 110" x 115"	5310
E4114TR-PPSM	600,000	6-1 1/2	3-3	36"x72"	20	3-39x60	8100	555-750	15-25	35	52" x 160" x 115"	7860
E4114QD-PPSM	600,000	6-1 1/2	4-4	36"x72"	20	4-39x60	10800	740-1000	15-25	35	56" x 205" x 115"	10550
E4116TA-PPSM	900,000	3-2	2-1	42"x72"	30	1-42x60	3100	200-268	15-25	50	66" x 125" x 121"	7880
E4116TI-PPSM	900,000	4-2	2-2	42"x72"	30	2-42x60	6200	400-536	15-25	50	66" x 130" x 121"	8230
E4116TR-PPSM	900,000	6-2	3-3	42"x72"	30	3-42x60	9300	600-804	15-25	50	66" x 185" x 121"	12230
E4116QD-PPSM	900,000	6-2	4-4	42"x72"	30	4-42x60	12400	800-1072	15-25	50	66" x 240" x 121"	16230
E4118TA-PPSM	1,050,000	3-2	2-1	48"x72"	35	1-50x60	4500	213-280	15-25	60	66" x 125" x 121"	9930
E4118TI-PPSM	1,050,000	6-2	2-2	48"x72"	35	2-50x60	9000	426-560	15-25	60	66" x 130" x 121"	10330
E4118TR-PPSM	1,050,000	6-2	3-3	48"x72"	35	3-50x60	13500	639-840	15-25	60	66" x 185" x 121"	15380
E4118QD-PPSM	1,050,000	6-2	4-4	48"x72"	35	4-50x60	18000	852-1120	15-25	60	66" x 240" x 121"	20430

**EWS HF Series High Flow, High Capacity Water Softeners with Metered Control Valves and no Hard Water Bypass Pistons**

MODEL NO.	MAX CAPACITY	PIPE	SOFTENER TANK			BRINE TANK			FLOW RATE & PRESSURE			FLOOR SPACE <sup>a</sup> D X W X H	SHIP WT.  (LBS)
			GRAINS HARDNESS	SIZE (IN.)	SIZE INXIN	RESIN FT3	SIZE INXIN	SALT FILL (LBS)	SERVICE (GPM)	DROP (PSI)	BACKWASH (GPM)		
<b>With Fleck 2900 NXT Metered Control Valves</b>													
E4052NT-NH	210,000	2	21"x62"	7	24X50	800	60-77	15-25	12	21" x 25" x 81"	600		
E4058NT-NH	300,000	2	24"x72"	10	30X50	1200	74-97	15-25	15	24" x 27" x 88"	710		
E4059NT-NH	450,000	2	30"x72"	15	39X48	2200	80-100	15-25	25	30" x 30" x 94"	1160		
E4060NT-NH	600,000	2	36"x72"	20	39X60	2200	84-105	15-25	35	36" x 36" x 97"	1560		
<b>With Fleck 3900 NXT Metered Control Valves</b>													
E4110NT-NH	300,000	3	24"x72"	10	30X50	1200	120-170	15-25	15	26" x 38" x 95"	1095		
E4112NT-NH	450,000	3	30"x72"	15	39X48	2200	158-212	15-25	25	31" x 41" x 98"	1625		
E4114NT-NH	600,000	3	36"x72"	20	39X60	2700	185-250	15-25	35	37" x 44" x 101"	2040		
E4116NT-NH	900,000	3	42"x72"	30	42X60	3100	200-268	15-25	50	44" x 47" x 109"	3270		
E4118NT-NH	1,050,000	3	48"x72"	35	50X60	4500	213-280	15-25	60	50" x 50" x 109"	4320		

**EWS Steel Series Heavy-Duty Steel Tank Water Softeners**

MODEL NO.	FLECK VALVE NO.	MAX CAPACITY	PIPE	SOFTENER TANK			BRINE TANK			FLOW RATE & PRESSURE			SHIP WT.  (LBS)
				GRAINS HARDNESS	SIZE (IN.)	SIZE INXIN	RESIN FT3	SIZE INXIN	SALT FILL (LBS)	SERVICE (GPM)	DROP (PSI)	BACKWASH (GPM)	
<b>With Fleck Valves</b>													
E5076-29	2900	300,000	2	20 x 60	10	30 x 50	1200	68-94	15-25	15	1930		
E5078-29	2900	450,000	2	30 x 60	15	39 x 48	2200	72-102	15-25	25	2525		
E5080-31	3150	600,000	2	36 x 60	20	39 x 48	2200	78-107	15-25	35	2700		
E5080-39	3900	600,000	3	36 x 60	20	39 x 48	2200	185-250	15-25	35	2850		
E5082-31	3150	900,000	2	42 x 60	30	42 x 60	3000	84-118	15-25	50	4650		
E5082-39	3900	900,000	3	42 x 60	30	42 x 60	3000	200-268	15-25	50	4800		
E5084-31	3150	1,200,000	2	48 x 60	40	50 x 60	4500	87-120	15-25	60	4950		
E5084-39	3900	1,200,000	3	48 x 60	40	50 x 60	4500	213-280	15-25	60	4100		

*Replacement resin, salt, and ongoing service plans are available.*

SOFT-NA-0218



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