



Protect Your Processes, Production & Critical Equipment – Reduce Your Liability.

Minimize risk from hard water with new patent pending Zero Hardness™ water softener technology from Nancrede Engineering.

ZERO HARDNESS™ HIGH EFFICIENCY SOFTENER SYSTEMS

NEW
★
PATENT
PENDING

The Nancrede Engineering Zero Hardness™ failsafe water softeners reduce chance of failure and hardness leakage by always having two softener tanks online in series and eliminating stagnant water in offline tanks and piping.

- Worker polisher tanks running in series eliminate hard water caused by one softener not functioning or failing to regenerate correctly.
- Piping and valving optimization minimizes dead legs and hardness leaching into the water.
- Lower hardness leakage & salt savings are achieved by running the softeners in a double pass worker polisher softener flow configuration.
- Hardness leakage and high efficiency are optimized with adjustable salt level settings.

STANDARD FEATURES

- Failsafe, high efficiency design
- 100% soft water uptime configuration
- Anti-fouling, high flow resin
- Distribution and controls to reduce hardness leakage
- Bi-directional flow with continuous soft water polishing
- Skid Mounted, pre-piped and pre-wired
- Parallel mode for peak flow rates
- Factory hydro-tested at 100 psig
- Systems are all NSF 61 rated

INSTRUMENTATION / CONTROLS

- Butterfly valves with air or electric actuators
- AB 1400 PLC with BMS communication
- 304 stainless steel piping and distribution
- Metered regeneration with timed override
- Inlet/Outlet pressure gauges & sample ports
- Adjustable brining settings from 4 – 15 lbs



OPERATING PARAMETERS

- Inlet pressure: 30 – 100 psig
- Electrical 120 – 240 VAC, 50 - 60 Hz
- Temperature: 35 – 110 °F

OPTIONS

- Regeneration failure early detection system
- Low flow hardness elimination system
- Triple stage pressure transducer arrangement
- Premium online hardness monitor with 4-20 output
- High pressure and temperature systems
- ASME code and stamped resin tanks
- 304 and 316 Stainless steel tank construction
- Additional piping materials, including CPVC
- Fully integrated sanitization system
- Seismic zone rated tanks and systems
- Ultraviolet light and Cartridge filter system

ZERO HARDNESS™ HIGH EFFICIENCY SOFTENER SYSTEMS

CATALOG NUMBER	EXCHANGE CAPACITY/(Grains) SALT DOSAGE/(Pounds) SALT USAGE/(Pounds) MAX. MIN.		FLOW RATES			PIPE SIZE		RESIN CU. FT.	TANK SIZES		SALT STORAGE LBS
			SERVICE		BACKWASH GPM	SERVICE IN.	DRAIN IN.		SOFTENER IN.	BRINE IN.	
			CONT. GPM	PEAK GPM							
LC-150-1	150,000/ 75/ 75	100,000/ 30/ 30	21	64	10	1	1	5	20 x 54	24 x 50	700
1-1/4			28	86		1-1/4	1				
1-1/2			36	110		1-1/2	1				
2			46	138		2	1				
LC-210-1-1/4	210,000/ 105/ 105	140,000/ 42/ 42	27	82	15	1-1/4	1	7	24 x 54	24 x 50	600
1-1/2			42	128		1-1/2	1				
2			53	160		2	1				
2-1/2			76	230		2-1/2	1				
LC-300-1-1/2	300,000/ 150/ 150	200,000/ 60/ 60	45	136	20	1-1/2	1	10	30 x 54	24 x 60	600
2			61	184		2	1				
2-1/2			92	280		2-1/2	1				
3			109	330		3	1				
LC-450-1-1/2	450,000/ 225/ 225	300,000/ 90/ 90	42	126	20	1-1/2	1	15	30 x 60	30 x 60	1000
2			54	164		2	1				
2-1/2			79	240		2-1/2	1				
3			92	280		3	1				
LC-600-1-1/2	600,000/ 300/ 300	400,000/ 120/ 120	48	144	30	1-1/2	1-1/2	20	36 x 60	39 x 60	1900
2			73	220		2	1-1/2				
2-1/2			92	280		2-1/2	1-1/2				
3			116	350		3	1-1/2				
LC-750-2	750,000 375/ 375	500,000/ 150/ 150	59	180	30	2	1-1/2	25	36 x 72	39 x 60	1700
2-1/2			92	280		2-1/2	1-1/2				
3			106	320		3	1-1/2				
LC-900-2	900,000 450/ 375	600,000/ 180/ 180	69	210	45	2	2	30	42 x 60	42 x 60	1900
2-1/2			99	300		2-1/2	2				
3			124	376		3	2				
LC-1050-2	1,050,000/ 525/ 525	700,000/ 210/ 210	63	190	45	2	2	35	42 x 72	50 x 60	2300
2-1/2			96	300		2-1/2	2				
3			124	346		3	2				
LC-1200-2-1/2	1,200,000/ 600/ 600	800,000/ 240/ 240	106	320	60	2-1/2	2	40	48 x 60	52 x 60	2600
3			142	430		3	2				
4			205	620		4	2				
LC-1500-2-1/2	1,500,000/ 750/ 750	1,000,000/ 300/ 300	109	330	80	2-1/2	2	50	54 x 60	66 x 46	3300
3			149	450		3	2				
4			267	620		4	2				
LC-1950-2-1/2	1,950,000/ 975/ 975	1,300,000/ 390/ 390	111	336	100	2-1/2	2-1/2	65	60 x 60	60 x 66	4000
3			155	470		3	2-1/2				
4			294	890		4	2-1/2				
LC-2400-3	2,400,000/ 1,200/ 1,200	1,600,000/ 480/ 480	162	490	120	3	3	80	66 x 72	66 x 72	5800
4			317	960		4	3				
6			429	1300		6	3				
LC-3000-3	3,000,000/ 1,500/ 1,500	2,000,000/ 600/ 600	168	510	140	3	3	100	72 x 72	82 x 60	7300
4			330	1000		4	3				
6			462	1400		6	3				
LC-3600-4	3,600,000 1,800/ 1,800	2,400,000/ 720/ 720	343	1040	165	4	3	120	78 x 72	82 x 60	6000
6			495	1500		6	3				
8			627	1900		8	3				
LC-4200-4	4,200,000 2,100/ 2,100	2,800,000/ 840/ 840	356	1080	190	4	3	140	84 x 72	90 x 60	7500
6			515	1560		6	3				
8			660	2000		8	3				
LC-4800-4	4,800,000/ 2,400/ 2,400	3,200,000/ 960/ 960	396	1200	220	4	4	160	90 x 72	90 x 60	6500
6			528	1600		6	4				
8			700	2120		8	4				
LC-5400-4	5,400,000/ 2,700/ 2,700	3,600,000/ 1,080/ 1,080	446	1350	250	4	4	180	96 x 72	96 x 60	7700
6			581	1760		6	4				
8			769	2300		8	4				

Non-chemical and chemical water treatment systems can be packaged with the Zero Hardness™ water softener system to optimize water purity and chemistry for your organization. Consulting for current and planned water treatment systems and services are also available.

NON-CHEMICAL AUXILIARY WATER TREATMENT SYSTEMS

- RO & Nanofiltration Systems
- IX/EDI Deionization Systems
- Backwashable Filter Systems
- Ultrafilter (UF) Systems
- Microfiltration Systems

CHEMICAL AUXILIARY WATER TREATMENT SYSTEMS

- Mixed Oxidant Generation Systems
- Chlorine Dioxide Generation Systems
- Chlorine Injection Systems
- Monochloramine Injection Systems
- Advanced Oxidation Process Systems