



Protect Your Boilers and Power Generation Systems While Reducing Costs.

Minimize offline softening with new patent pending failsafe water softener technology from Nancrede Engineering.

Boiler and Power Generation Industrial Softener System

Protect your boilers and power generation systems with while reducing costs with Nancrede Engineering's Failsafe industrial water softener. This patent-pending water softener sends water in series to protect your boiler and power generation systems. How? With two softeners in series, it eliminates offline softening tanks and protects water quality.

Other water softeners used for boilers work with an alternating approach – one softener tank is online while the other tank is offline. This increases operating and environmental costs, salt waste. It also has a single point of failure.

- 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

NEW
★
PATENT
PENDING



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

BOILER AND POWER GENERATION INDUSTRIAL SOFTENER SYSTEM

CATALOG NUMBER	EXCHANGE CAPACITY/(Grains) SALT DOSAGE/(Pounds) SALT USAGE/(Pounds) MAX. MIN.		FLOW RATES			PIPE SIZE		RESIN	TANK SIZES		SALT STORAGE
			SERVICE		BACKWASH	SERVICE	DRAIN		SOFTENER	BRINE	
			CONT. GPM	PEAK GPM							
LC-150-1	150,000/ 75/ 1-1/2 75	100,000/ 30/ 1-1/2 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/ 1-1/2 105	140,000/ 42/ 2 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/ 2-1/2 3	200,000/ 60/ 2-1/2 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/ 2-1/2 3	300,000/ 90/ 2-1/2 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/ 2-1/2 3	400,000/ 120/ 2-1/2 300	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/ 2-1/2 3	500,000/ 150/ 2-1/2 375	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/ 2-1/2 3	600,000/ 180/ 2-1/2 375	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/ 2-1/2 3	700,000/ 210/ 2-1/2 525	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/ 3 4	800,000/ 240/ 2-1/2 600	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/ 3 4	1,000,000/ 300/ 2-1/2 750	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/ 3 4	1,300,000/ 390/ 2-1/2 975	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/ 4 6	1,600,000/ 480/ 2-1/2 480	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/ 4 6	2,000,000/ 600/ 2-1/2 600	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/ 6 8	2,400,000/ 720/ 2-1/2 720	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/ 6 8	2,800,000/ 840/ 2-1/2 840	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/ 6 8	3,200,000/ 960/ 2-1/2 960	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/ 6 8	3,600,000/ 1,080/ 2-1/2 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 Boiler and Power Generation Industrial 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
- Dissolved Gas Removal Systems