



TWIN-ALTERNATING

Whether your project is a low or high-rise office building, shopping mall, hospital, hotel, college lab, casino... **Nelsen Engineered Systems** can assist you with job specifications, submittals, sales and engineering drawings, and sizing of the equipment. **NELSEN LIGHT COMMERCIAL TWIN ALTERNATING** water softeners are designed to provide continuous soft water for commercial applications ranging from 40,000 to 300,000 grains of hardness removal capacity at flow rates up to 55 gpm. We can manufacture to unique specifications a variety of multiple tank systems, or use our inhouse engineering and CAD capabilities to develop a design that meets your specific requirements. With our dedication, you can be assured that Nelsen Engineered Systems will provide you with the support you deserve.

TREATMENT

Many water supplies, municipal and groundwater contain hardness minerals (calcium and magnesium), iron, rust and sediment. Hardness forms scale on pipes, boilers, heat exchangers and cooling towers reducing the heat transfer capabilities of a system as well as increasing the cost of operating the system. Nelsen Commercial water conditioners are designed to eliminate these unwanted contaminants and increase process efficiency, saving money now and in the years ahead.

NELSEN LIGHT COMMERCIAL

At Nelsen Corporation, our systems are designed with your needs in mind. We can custom tailor your system to provide you with the convenience you want while giving you the performance and durability you need for all of your individual application requirements.

STANDARD FEATURES INCLUDE:

Softening Media – a high quality strong acid softening (cation) resin in bead form with superior chemical resistance.

Regeneration Controller – feature electro-mechanical or electronic controllers combining simplicity with flexibility in a user-friendly package that is easy to setup and operate. The Twin Alternating controller keeps one tank in service and the second tank in regeneration or standby to provide a continuous uninterrupted flow of soft water.

Control Valve – Made of high quality, lead free brass for a long reliable life. A hydraulically balanced piston glides effortlessly along non-corrosive spacers and seals to precise positions.

Pressure Vessel – Non-corrosive with composite fiberglass construction for outstanding performance and durability in harsh chemical environments.

Brine System – our brine tanks are made of tough, high density polyethylene with an optional grid plate for maximum saturation of brine.



IDEAL FOR

- RO/DI Pre-Treatment
- Apartment Buildings
- Office Buildings
- Hotels/Motels
- Manufacturing
- Hospitals & Nursing Homes
- Condominiums
- Boiler Water Treatment
- Schools
- And many more!

*ASME code Tanks can be specified when required, and can be custom designed to meet your specific application requirements.

- Twin Alternating

FLECK 9000 – PRODUCT FEATURES

Perfect for light commercial/heavy residential systems that require twin-tank conditioning capabilities

- Five-cycle control delivers controlled upflow backwash, downflow brining, slow rinse, rapid rinse and timed brine refill, ALL performed with conditioned water
- The most salt efficient valve available because there is no need to program in a reserve
- Regenerates immediately when needed, as often as every 90 minutes if required
- Continuous flow rates up to 21 gpm with a peak flow rate of 28 gpm
- Handles up to 16" softeners



Model Number	Tank Size		Capacity		Resin Cu Ft	Support Bed		Flow Rates*		BKW ³	Salt Req'd		Space Req'd L x W x H	Shipping Weight
	Resin	Brine	Min ¹	Max ²		1/2 x 1/4	1/4 x 1/8	Min	Max		9#	15#		
NLCTA-90-32	9 x 48	18 x 33	24k	30k	1.00	-	15	9	11	2.0	10	15.0	42 x 18 x 55	220 lbs
NLCTA-90-40	10 x 44	18 x 33	30k	37.5k	1.25	-	20	10	14	2.4	12.5	18.7	44 x 18 x 51	250 lbs
NLCTA-90-48	10 x 54	18 x 33	36k	45k	1.50	-	20	12	14	2.4	15	22.5	44 x 18 x 62	285 lbs
NLCTA-90-64	12 x 48	18 x 33	48k	60k	2.00	-	30	13	20	3.5	20	30.0	48 x 18 x 62	345 lbs
NLCTA-90-80	13 x 54	18 x 40	60k	75k	2.50	-	45	15	21	4.0	25	37.5	50 x 18 x 62	415 lbs
NLCTA-90-110	14 x 65	24 x 41	84k	105k	3.50	-	60	17	24	5.0	35	52.5	52 x 24 x 75	565 lbs
NLCTA-90-120	16 x 65	24 x 50	96k	120k	4.00	-	75	17	24	7.0	40	60.0	52 x 24 x 75	835 lbs

FLECK 9500 – 1 1/2" CONTROL VALVE PRODUCT FEATURES

Perfect for heavy light/heavy commercial installations

- Flow rates up to 40 gpm with a peak flow rate of 55 gpm
- Five-cycle control delivers controlled upflow backwash, down flow bringing, slow rinse, rapid rinse, timed brine refill and outflow service, all performed with conditioned water
- All cycles are easily adjustable
- Backwash capacity handles up to 24" diameter tanks
- Regenerates as often as every 90 minutes if required



Model Number	Tank Size		Capacity		Resin Cu Ft	Support Bed		Flow Rates*		BKW	Salt Req'd		Space Req'd L x W x H	Shipping Weight
	Resin	Brine	Min ¹	Max ²		1/2 x 1/4	1/4 x 1/8	Min	Max		9#	15#		
NLCTA-95-120	16 x 65	24 x 50	96k	120k	4	-	75	20	40	7	40	60	46 x 24 x 75	841
NLCTA-95-150	18 x 65	24 x 50	120k	150k	5	-	100	25	50	9	50	75	50 x 24 x 75	1077
NLCTA-95-210	21 x 62	24 x 50	168k	210k	7	50	100	35	55	12	70	105	52 x 24 x 75	1411
NLCTA-95-300	24 x 72	30 x 48	240k	300k	10	100	150	40	55	15	100	150	69 x 30 x 89	2050

REPRESENTED BY:

¹ At 15 Pounds per Cubic Foot = 30,000 Gr. C.F.

² At 9 Pounds per Cubic Foot = 24,000 Gr. C.F.

³ Backwash flow with standard basket distributor.

*Capacities are based on resin manufacture's data and are dependent upon influent water TDS, temperature, bed depth, and flow rates. All units set at minimum salt settings. When sizing units, use minimum capacity. All flow rates are in Gallons per Minute. All sizes and space required are in inches.