C-SERIES

You and your family deserve the finest quality water available. Quality, soft water you can feel each time you shower or feel in the softness of the towel when drying after that shower. Unlike a single tank water softener, a twin tank system allows for continual soft water 24/7. Each Nelsen Water Treatment Solutions (NWTS) Water Conditioner is designed to specifically address the water quality issues that are unique to your home providing your family with outstanding water. Your investment will reward you with quality water at every faucet in your home.

NelsenWater™
Treatment Solutions

RESIDENTIAL/LIGHT COMMERCIAL **TWIN** SOFTENERS

RESIDENTIAL **TWIN** SOFTENERS

Benefits of a **Nelsen Water Treatment** System

IN THE BATHROOM:

Your soap and shampoo will lather better. Your hair and skin will feel noticeably cleaner, softer and not as dry. Additionally, soap scum or mineral deposits will be greatly reduced from sinks, showers, tubs and toilets.

IN THE KITCHEN:

Dishes will clean up more easily, and be spot-free, without the gray film glass gets when etched by mineral laden water.

IN THE LAUNDRY:

Clothes will be softer, cleaner, and brighter. Using soft water and pure soap products increases the life of clothing, towels and linens. Without hard water service issues, washing machines will last longer, too.

PLUMBING AND APPLIANCES:

Appliances that use water will last longer and run better. Why? Because water heaters, washing machines and dishwashers using hard water can wear out 30% faster.

Nelsen Corporation is the largest family-owned manufacturer/ distributor of water treatment products in the United States. Headquartered in Akron, Ohio with additional distribution centers in Arizona, Texas and Florida, our company has seen substantial growth over the years. Since 1954 Nelsen Corporation has remained committed to the professional water treatment dealer, their customers and the communities that they serve. More than 65 years of experience in water treatment have been incorporated into our systems yielding the very best equipment for your family or your business.

C-SERIES

NelsenWater™ Treatment Solutions

COMMON WATER ISSUES

Municipal, rural or private well water supplies can contain hardness minerals (calcium and magnesium), iron, rust, sediment and a variety of other contaminants. These minerals form a scale and create problems in water heaters, washing machines, dishwashers, coffee makers, humidifiers and plumbing systems. Nelsen water conditioners and drinking water systems are designed to reduce these unwanted contaminants providing your family with a refreshing difference, saving you money now and in the years to come.

THE C-SERIES TWIN CONTROL VALVE

The C-Series control valve has been engineered to provide years of trouble-free service. The key to the exceptional quality of the C-Series control valve is in the state-of-art design. This valve is one of the most advanced controls available giving you soft water 24 hours a day, 7 days a week, 365 days a year.

A C-Series Twin tank water softener monitors your daily water usage and regenerates only when necessary based on your actual water usage and regenerates at any time of the day or night. This saves you salt, water and money. The twin tank design means you always have a continuous supply of soft water, even during the regeneration process. One tank is always in “service” while the other tank is either on “standby” or regenerating.

THE REGENERATION PROCESS

A water softener works using the process of ion exchange, exchanging the hardness mineral ions, (calcium and magnesium), with the softening ions of the resin. After the system has used all the softening ability it will automatically regenerate, restoring the systems ability to soften. During the regeneration process, a salt solution from the brine tank flushes the hardness ions off the resin before being sent to the drain. The salt solution from your brine tank is the fuel to recharge the resin with sodium providing you with softened water.

C-Series Twin Softener
Shown with Optional Bypass

C-Series Residential Twin Softener System Specifications				
Grains Capacity	32,000	48,000	64,000	80,000
Grains Capacity[1]/Capacity[2]	30K/24K	45K/36K	60K/48K	75K/60K
Cubic Feet Material per Tank	1.0	1.5	2.0	2.5
Pounds Material per Tank	50	75	100	125
Service Flow Rate, GPM*	9	12	13	15
Approximate Dimensions (Inches)	44W x 57H x 20D	46W x 63H x 20D	50W x 57H x 20D	52W x 63H x 20D
Approximate Weight	188#	232#	292#	322#
Mineral Tank Size	9" x 48"	10" x 54"	12" x 48"	13" x 54"
Backwash Flow GPM[3]	2.0	2.4	3.5	4.0

(1) At 15 pounds of salt per cubic foot of resin = 30,000 Grains/Cubic Foot (2) At 9 pounds of salt per cubic foot = 24,000 Gr. C.F. (3) Backwash flow rate in Gallons Per Minute with standard basket distributor
*Note - due to varying water conditions, water pressures and assembly materials the service flow rate should be used only as a guideline.
System media may vary based on water analysis to optimally treat specific water problems.

Professional Series Control Valve

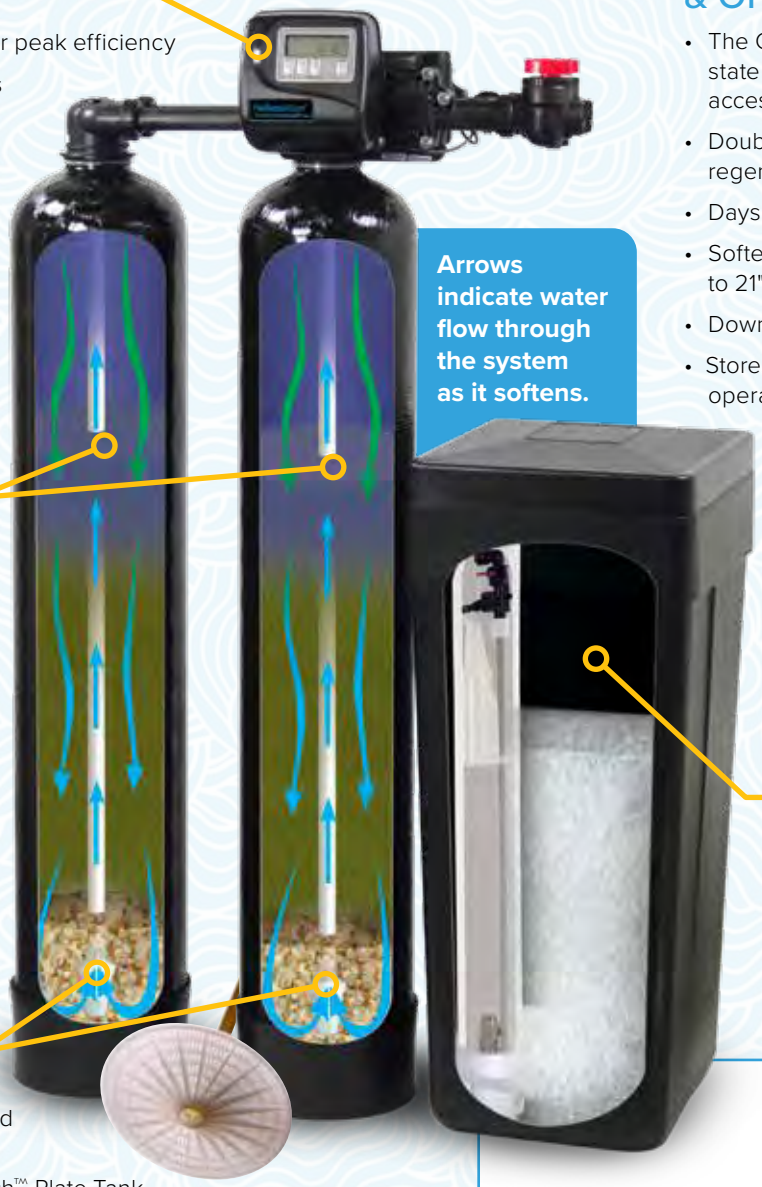
- Water use is monitored for peak efficiency
- Built in backup of settings during power outages
- Regenerates only when necessary saving salt and water
- Simple diagnostics and design provide for easy maintenance

Exclusive Media Bed

- High quality, chlorine resistant media bed, for years of continuous service
- Uniform bead size and distribution for optimum flow rates
- Additional softening resins available
- Gravel support bed shown used on larger systems

Basket Style Distribution System

- Delivers evenly distributed and high quality flows
- Optional Enpress® Vortech™ Plate Tank style distribution system, providing increased backwash efficiency using less water and saving money



Arrows indicate water flow through the system as it softens.

SYSTEM FEATURES & OPTIONS

- The C-Series control features solid state microprocessors with easy access front panel settings
- Double backwash feature offers optimum regeneration, cleaning ability, and efficiency
- Days override feature 1 - 28 day's available
- Softener systems available up to 21" diameter tanks
- Down-flow or up-flow regeneration
- Stores system configuration and operation data in non volatile memory
- Capacitor back-up with two-hour power carry over
- 15 volt transformer provides safe and easy installation
- Control valve design provides optimum service and backwash rates
- Treated water brine refill

High Quality Brine Tank

- High quality, durable construction
- Safety float system helps prevent overflow of the brine tank
- Constructed of corrosion-free materials
- Larger brine tank sizes available

Represented by: