

Why **SOFT** WATER?

Hard Water Produces Scale

Stains or buildup on your sinks and bathtubs, using large amounts of soap to clean dishes or wash your hair, or odd tasting or smelling water, are all results of hard water. If left untreated, the minerals in hard water will cause white stains on plumbing fixtures and be deposited as scale, eventually clogging plumbing and shortening the life of appliances like washing machines, water heaters, and dishwashers.

How the ChargerPro Thoroughbred System Softens Water

Hard water passes through the media tank that contains resin beads coated with sodium ions. The calcium and magnesium ions are exchanged for sodium (or potassium) ions, thus 'softening' the water. When the beads have trapped the hardness and need to be regenerated, the control valve charges them with the brine from the brine tank.

As regeneration occurs, calcium and magnesium (hardness) ions are freed from the beads, replaced with sodium or potassium ions, and the system is ready to soften water again.

ChargerPro Series Systems eliminate the effects of hard water. They "soften" the water by removing the calcium and magnesium, extending the useful life of water heaters, coffeemakers, humidifiers, and household plumbing as well as many other appliances and fixtures that water passes through by as much as 30%.

Why Water Treatment Matters in Light Commercial Uses

Car Washes

Quality equipment and water quality are an important, essential ingredient for a successful car wash. Applying the right water treatment equipment is critical. At Charger we will help to assure you have the proper water treatment equipment required for your car wash design.



Hospitals

The system quickly begins paying for itself by reducing water related energy consumption, extending the life of water using appliances, reduced cleaning product costs and reducing plumbing repairs. Water heaters, boilers and steam handling equipment will have longer service lives.



Restaurants

Charger's full range of water softeners, reverse osmosis systems and water filters help your restaurant to run more smoothly, deliver great tasting drinking water and improve the flavor of the food you serve. You will also enjoy spot-free glassware, reduce detergent costs, reduce energy consumption and reduce maintenance costs while extending the life of your water using equipment.

Laundromats

By using softened water your customers clothes will be softer, cleaner, whiter, brighter and last longer. You will enjoy longer service life from your machines and lower plumbing repair costs.



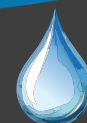
Why Choose the ChargerPro™ Thoroughbred 1.5" SYSTEM?



- **Efficient Water Softening:** The ChargerPro Commercial System saves water and up to 40% in salt usage.
- **Durability and Reliability:** Known for its longevity and minimal maintenance requirements.
- **Consistent Water Quality**
- **Environmentally Friendly:** Efficient use of salt helps to reduce the environmental impact.
- **Customizable Settings:** Your water treatment professional can customize the system to meet your specific water usage needs.
- **Advanced Technology:** The control valve design provides optimum service and backwash rates.

Thoroughbred 1.5" Series

Light Commercial Water Softening Systems



Delivering Cleaner, Healthier Water Across America


www.chargerwater.com



Model	Mineral Tank		Under Bed 1/4 x 1/8	Brink Tank		Softening Capacity		lbs Salt per Regeneration		Flow GPM C/P	Pressure Drop psi C/P	Backwash GPM
	Tank Size	Resin cu ft		Tank Size	Salt Fill	Max	Min	Max	Min			
CDS-64-1.5	12x52	2	25	24x41	600	64K	48K	30	18	10/16	15/25	3.2
CDS-80-1.5	13x54	2.5	30	24x41	600	80K	60K	38	22	12/20	15/25	4.2
CDS-96-1.5	14x65	3	50	24x41	600	96K	80K	45	27	15/24	15/25	5.3
CDS-128-1.5	16x65	4	50	24x41	600	128K	96K	60	36	27/32	15/25	6.5
CDS-150-1.5	18x65	5	100	24x50	800	150K	120K	75	45	34/40	15/25	10
CDS-180-1.5	21x62	6	100	24x50	800	180K	150K	90	54	40/48	15/25	11
CDS-210-1.5	21x62	7	100	24x50	800	210K	168K	105	63	46/56	15/25	11
CDS-240-1.5	24x72	8	150	30x50	1200	240K	210K	120	72	50/64	15/25	15
CDS-300-1.5	24x72	10	150	30x50	1200	300K	240K	150	90	50/70	15/25	15

C=Continuous/P=Peak

Options Available

<ul style="list-style-type: none"> • Configurations available in Simplex, Duplex, Triplex, and Quadplex systems. • Offered with alternating or progressive flow operation. • Separate source and-or clean water regeneration available on all system configurations. • Optional ultrasonic flow meter for improved accuracy and system performance. • Wi-Fi compatible for monitoring and system connectivity. • Optional no hard water bypass to maintain continuous treated water delivery. • Available with 8% and 10% macroporous resins. Additional specialty resins available upon request. 	 <p>System Controller (Water Monitor) CWV3030</p> <ul style="list-style-type: none"> • System Types: Progressive Flow, Alternating, Random, and Series • System Size: 2-8 valves
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 <p>1.5" Alternating Valve CWV3071</p> <ul style="list-style-type: none"> • 1.5" NPT and 1.5" BSPT • Lead free brass casting with black coating 	 <p>1.5" NHWP Valve CWV3097</p> <ul style="list-style-type: none"> • 1.5" NPT or 1.5" BSPT • Durable 316 stainless steel casting 	 <p>1.5" Meter Assembly CWV3040-15</p> <ul style="list-style-type: none"> • 1.5" inline meter suited for commercial/ industrial applications • Stainless steel construction
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ChargerPro Thoroughbred 1.5" Valve Benefits

- Solid state microprocessor with easy access front panel settings
- Front panel display for time of day, current flow rate, totalizer, and volume/days until regeneration
- Four methods to initiate regeneration; meter immediate, meter delayed, time clock delayed or pressure differential
- Optional double backwash feature offers optimum regeneration, cleaning ability and efficiency
- Fully programmable cycle sequences (maximum 9)
- Fully programmable regeneration cycles
- Capacitor back-up with up to 24 hour carry over

ChargerPro Thoroughbred 1.5" Valve Specifications

- Inlet/Outlet (1).....1.5" Female NPT Adapter
- Cycles.....up to 9
- Valve Material.....Lead Free Brass
- Regeneration.....Downflow
- Operating Pressures**
- Minimum/Maximum.....20 psi - 125 psi
- Operating Temperatures**
- Minimum/Maximum.....40° - 110°F