

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 Thoroughbred Systems eliminate the effects of hard water. They "soften" the water by removing the calcium and magnesium, extending the useful life of water heaters, boilers, commercial laundry, as well as many other items that water passes through by as much as 30%.

Why Choose the ChargerPro™ Thoroughbred Commercial SYSTEM?



Duplex shown

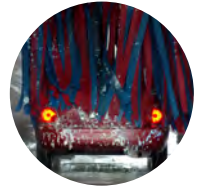
Thoroughbred 2" Progressive Flow

Commercial Series Water Softening Systems

Why Water Treatment Matters in 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.

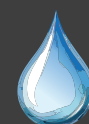


Laundromats

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.



- **Efficient Water Softening:** The ChargerPro Thoroughbred 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.



*Delivering Cleaner, Healthier
Water Across America*

www.chargerwater.com



Model	Grains Capacity		Service Flow Rates Per Tank		Backwash Flow Rates	Resin Load	Tank Sizes		Salt Storage Capacity	Dimensions in inches, approx (for duplex system)		
	@ 9 lbs per cu ft	@ 15 lbs per cu ft	Continuous	Peak	GPM	cu ft	Resin Tank	Brine Tank	lbs	L	W	H
			@15 gpm sq	@20 gpm sq	@5 gpm sq							
CDS296PF	72,000	90,000	16.1	21.4	5.3	3	14x65	24x41	700	36	18	75
CDS2128PF	96,000	120,000	21	28	6.5	4	16x65	24x41	700	38	19	75
CDS2150PF	120,000	150,000	27	34	9.0	5	18x65	24x41	700	46	24	73
CDS2210PF	168,000	210,000	34	34	12.0	7	21x62	24x50	900	53	24	84
CDS2300PF	240,000	300,000	47	62	15.0	10	24x72	30x50	1200	80	30	94
CDS2450PF	360,000	450,000	73	98	24.0	15	30x72	39x48	2200	100	39	94
CDS2600PF	480,000	600,000	106	125	35.0	20	36x72	39x48	2200	112	39	94

These specs can be used in systems consisting of 2, 3, or 4 units (duplex, triplex, or quadplex).



MINERAL TANK AVAILABLE COLORS:

Black or Natural

Optional outdoor weather covers.

BRINE TANK AVAILABLE COLORS:

Black

BRINE TANK AVAILABLE SIZES:

Round: 24x41, 24x50, 30x50, 39x48, 42x60, 50x60



Grid Plate

Plastic brine grid with PVC legs



2" NHWBP Valve
Part #V3098

- 2.0" NPT
- Durable 316 stainless steel casting
- Hydraulically balanced piston valve
- Allows for Our 2" valves to be used in multi-tank systems
- Full 2.0" ports with minimal pressure loss
- Provides for no raw water bypass during regeneration
- Provides choices of treated or non-treated water regeneration for our 2" valves

- Proven and reliable AC drive assembly
- Low voltage drive assembly controlled by valve's circuit board
- Flow from male inlet to female outlet has a 2.6 PSI drop at 125 GPM
- Operating pressures: 20 PSI minimum/ 125 PSI maximum
- Operating temperatures: 40°F minimum/ 110°F maximum

ChargerPro Thoroughbred 2" 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 2" Valve Specifications

Inlet/Outlet (1).....2" NPT Adapter

Cycles.....up to 9

Valve Material.....Lead Free Brass

Regeneration.....Downflow or Upflow

Operating Pressures

Minimum/Maximum20 psi - 125 psi

Operating Temperatures

Minimum/Maximum40° - 110°F