

Single-Tank Water Softeners



With 2750, 2850, 2900, 3900 Series Control Valves



Standard Features

- High Flow Control Valves thru 3" – Flow Rates 200+ gpm
- Up to 1.2 Million Grain Tank Capacity
- Maximum Operating Pressure – 125 psi/110° F
- Top-mount Control Valves
- Timeclock or Electronic Meter Regeneration
- Premium Cation Resin – 30K grains/cu.ft.
- Hard Water Bypass
- Brine Tank – HDPE material, Salt Grid Plate or Gravel Underbed, Safety Brine Valve (30" & smaller diameter), Air Check and Overflow

Options

- Clean Water Backwash
- No Hard Water Bypass
- Clack™ Control Valves
- Electro-Mechanical Control Valve
- Steel and ASME rated Pressure Vessels
- Side-mount Control Valves
- Flow Management with Motorized Ball Valves or Staged
- Diaphragm Valves
- Water Quality Monitor Initiated Regeneration
- High Capacity Resin

Typical Use:

- Boiler Feed
- Cooling Tower
- Schools
- Light Industrial
- Hotels/Motels
- Apartments
- Nursing Home/ Assisted Living
- Condominiums
- Car/Truck Wash
- Corporate Campus
- Hospitals

Automatically reduce hardness (calcium/magnesium) and dissolved iron/manganese along with their unpleasant side-effects. Only the highest quality resin, controls and materials are used in CSI Commercial Water Softeners. Our motor-driven piston control valve is the most reliable under even severe water conditions and resists common adversaries such as hardness and iron. Meanwhile, our hub and lateral style or Vortech™ distribution systems within the corrosion resistant tanks maximize flow while reducing pressure loss through the units. Designed for use in commercial, industrial or domestic water applications.

As we remain **Committed to Innovation**, CSI provides the design and engineering support to ensure the most effective treatment solution for each installation. For a stand-alone installation or a new construction project, replace or integrate new equipment into an existing process, we have the proper system options available to meet your needs.



CSI WATER TREATMENT SYSTEMS – Commercial Division
710 Orange Street, Ashland Ohio USA 44805
Toll-Free 1-888-363-9434 • Phone 419-281-6829 • Fax 419-281-2375
www.csih2o.com

Product Specifications

Commercial Single-Tank Softeners

MODEL NUMBERS	GPM FLOW RATES				PIPE SIZE NPT		GRAINS EXCH CAP @ LBS SALT (PER RESIN TANK)	RESIN TANK		BRINE TANK		OVERALL HEIGHT	
	SERVICE		PEAK	BACK WASH				CU. FT. RESIN		SALT CAPACITY LBS Per TANK			
	15 PSI LOSS	8 PSI LOSS	25 PSI LOSS	Flow GPM	SERVICE	DRAIN		MAXIMUM	MINIMUM	DIA x HT	QTY		DIA x HT
CTS60-10	20	15	27	4	1"	3/4"	60,000 GR @ 30 # 40,000 GR @ 12 #	14" x 65"	2	18" x 40"	300	1	74"
CTS60-15	31	23	43	4	1 1/2"	3/4"						1	74"
CMS60-10NT	19	14	26	4	1"	3/4"						1	74"
CMS60-15NT	30	22	42	4	1 1/2"	3/4"						1	74"
CTS90-10	19	14	26	4	1"	3/4"	90,000 GR @ 45 # 60,000 GR @ 18 #	14" x 65"	3	18" x 40"	300	1	74"
CTS90-15	30	22	42	4	1 1/2"	3/4"						1	74"
CMS90-10NT	18	13	25	4	1"	3/4"						1	74"
CMS90-15NT	29	21	41	4	1 1/2"	3/4"						1	74"
CTS120-10	20	15	27	6	1"	3/4"	120,000 GR @ 60 # 80,000 GR @ 24 #	16" x 65"	4	24" x 50"	700	1	74"
CTS120-15	33	24	45	6	1 1/2"	3/4"						1	74"
CTS120-20	47	34	64	6	2"	3/4"						1	78"
CMS120-10NT	19	14	26	6	1"	3/4"						1	74"
CMS120-15NT	32	23	43	6	1 1/2"	3/4"						1	74"
CMS120-20NT	46	34	63	6	2"	3/4"						1	78"
CTS150-15	35	26	48	7	1 1/2"	3/4"	150,000 GR @ 75 # 100,000 GR @ 30 #	18" x 65"	5	24" x 50"	700	1	76"
CTS150-20	51	37	67	7	2"	3/4"						1	80"
CMS150-15NT	34	25	47	7	1 1/2"	3/4"						1	76"
CMS150-20NT	50	37	66	7	2"	3/4"						1	80"
CTS210-15	39	28	53	10	1 1/2"	1"	210,000 GR @ 105 # 140,000 GR @ 42 #	21" x 62"	7	24" x 50"	700	1	75"
CTS210-20	60	43	77	10	2"	1"						1	80"
CMS210-15NT	37	27	50	10	1 1/2"	1"						1	75"
CMS210-20NT	59	43	76	10	2"	1"						1	80"
CTS300-20	68	50	91	12	2"	1"	300,000 GR @ 150 # 200,000 GR @ 60 #	24" x 72"	10	30" x 50"	1,000	1	87"
CMS300-20NT	66	48	89	12	2"	1"						1	87"
CTS450-20	84	61	105	20	2"	1"	450,000 GR @ 225 # 300,000 GR @ 90 #	30" x 72"	15	30" x 50"	1,000	1	96"
CTS450-30	144	105	186	20	3"	2"						1	96"
CMS450-20NT	81	59	101	20	2"	1"						1	96"
CMS450-30NT	138	101	179	20	3"	2"						1	96"
CTS600-20	90	66	110	30	2"	1"	600,000 GR @ 300 # 400,000 GR @ 120 #	36" x 72"	20	42" x 60"	2,900	1	98"
CTS600-30	172	126	222	30	3"	2"						1	98"
CMS600-20NT	86	63	106	30	2"	1"						1	98"
CMS600-30NT	163	119	210	30	3"	2"						1	98"
CTS900-30	187	137	242	40	3"	2"	900,000 GR @ 450 # 600,000 GR @ 180 #	42" x 72"	30	50" x 60"	4,100	1	110"
CMS900-30NT	175	128	227	40	3"	2"						1	110"
CTS1200-30	194	142	251	50	3"	2"	1,200,000 GR @ 600 # 800,000 GR @ 240 #	48" x 72"	40	50" x 60"	4,100	1	107"
CMS1200-30NT	181	132	234	50	3"	2"						1	107"

CTS = Clock (Timer)

CMS = Meter (Demand)

NT = Electronic Timer and Turbine Meter

Operating Information

For use on Potable Water Only

Do not use on microbiologically unsafe or unknown quality water

Installation must comply with state and local plumbing/electrical codes

120v/24v CUL/UL listed transformer included with electronic meter systems

Tank warranty void if subject to vacuum

Low flow channeling – less than .5 gpm/cu. ft. resin – may cause hardness leakage

Water Temperature Range

Ambient Air Temperature Range

Operating Pressure Range

Electronic Requirements

Influent Turbidity

Influent Chlorine

Iron/Manganese

35° – 110°F

35° – 120°F

20 – 125 psi

110v/60Hz

5 NTU

1 ppm max.

< 5 ppm

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