

# ClorTec™

## On-Site Sodium Hypochlorite Generation Systems

T Series - 2 to 36 lb/day (0.9 to 16 kg/day)

On-site sodium hypochlorite generation is unparalleled in safety and cost efficiency. ClorTec™ on-site systems generate 0.8% sodium hypochlorite by combining three common consumables:

salt, water and electricity



(Salt + Water + Power = Sodium Hypochlorite + Hydrogen)

ClorTec T systems easily control sodium hypochlorite production and provide a powerful disinfection method for any application. T systems meet requirements for 2 to 36 lb/day (0.9 to 16 kg/day) chlorine equivalent. Applications include potable water, wastewater, odor and corrosion control, cooling towers, oxidation and swimming pool disinfection.

The ClorTec T systems are component based and consist of a modular configuration. This design allows for ease in serviceability and expansion potential. The primary components may be arranged to optimize available space and systems may be custom designed for unique applications.

### Features:

- ◆ Dual tank water softener
- ◆ Salt dissolver
- ◆ Brine proportioning system
- ◆ Electrolyzer cell panel cabinet & cell(s)
- ◆ Power supply
- ◆ Metering pump(s)
- ◆ Hypochlorite storage tank(s)



### Benefits:

- ◆ Eliminate safety hazards
- ◆ Reduce operating costs
- ◆ Improved water quality
- ◆ Low raw material usage
- ◆ RMP & PSM exempt
- ◆ Guaranteed performance
- ◆ Superior Warranty
- ◆ NSF 61 Certified



### Severn Trent Services

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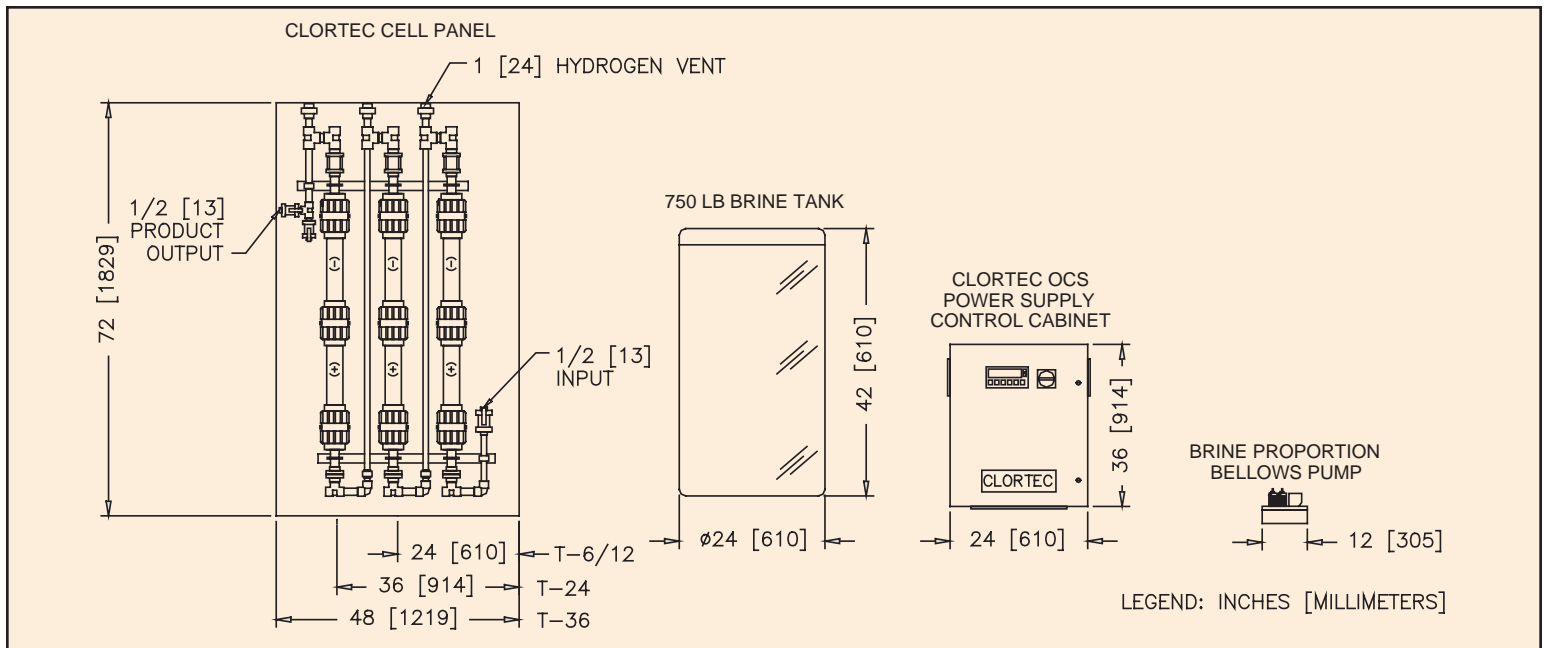
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## CLORTEC: T SERIES SYSTEM SPECIFICATIONS

**Capacities:** 2-36 lbs/day (0.9-16 kg/day). Free available chlorine.

**Control:** Automatic batch, regulated by storage tank status.

**Hypochlorite:** 0.8% ± 0.05%.

**Raw Materials:** Per pound of chlorine produced 3.5 lbs. salt, 2.5 kwh (DC), 15 gal. (57 L) water.

**Water Supply:** Potable water @20-50 psi (1.9-3.5 bar) temperature range 65°F-80°F (18°C-27°C).

**Salt Quality:** 99.7% pure dry weight Morton White Crystal or equivalent.

**Electrical Power:** 208 or 240 VAC 1 Ø, 60 Hz (T-2: 120 VAC 1 Ø, 60 Hz).

**Options available:** 240 VAC 1 Ø, 50 Hz

**Control Panel:** Grey polyester coated NEMA 12 welded steel enclosure

**Operator Interface:** PLC-based LCD operator interface for control and monitoring system status, alarms, tanks and flows.

**Programmable Logic Controller:**

Expandable from 8 to 32 discrete I/O channels, 4 to 16 analog inputs and 2 to 8 analog outputs.

**Full custom integration available**

**Salt Dissolver:** 78 gallon (750 lbs) cylindrical tank with cover (24" D x 41" H) constructed of rigid high impact nontoxic polyethylene or fiberglass.

### SODIUM HYPOCHLORITE TANK

**Material:** Linear polyethylene, designed to store contents with specific gravity of 1.5 at 73°F.

**Size:** One days storage recommended (lb/day x 15 gal).

**Level Control:** Ultrasonic or mechanical level sensor in tank controls start/stop function of system.

**Hydrogen Vent:** Waste hydrogen is vented to atmosphere either passively or by air dilution.

**Optional Water Chiller:** Air cooled design. Classified by Underwriters Laboratories in accordance with ANSI/NSF 61, 1997b.

**Optional Water Heater:** UL® and CSA recognized and listed unitized assembly.

Model	Cell Configuration	Output		Flow		Water		Salt		Power DC/kWh/day	AC Amp 220 V 1Ø Draw	Circuit Capacity
		lb/day	kg/day	gal/hr	L/hr	gal/day	L/day	lb/day	kg/day			
T-2	1 x 2	2	0.9	1.25	4.7	30	114	7	3.2	5	1.5	10
T-6	1 x 6	6	2.7	3.75	14.2	90	341	21	9.5	15	4.0	15
T-12	1 x 12	12	5.4	7.50	28.4	180	681	42	19.1	30	8.0	20
T-24	2 x 12	24	11	15.00	56.8	360	1,363	84	38.1	60	12.0	30
T-36	3 x 12	36	16	22.50	85.2	540	2,044	126	57.2	90	18.0	40

\* Ready for use containerized packages available.

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