

# ClorTec™ On-Site Sodium Hypochlorite Generation Systems

High Output CT Series - 450 to 3,000+ lb/day (204 to 1,360+ 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 CT systems easily control sodium hypochlorite production and provide a powerful disinfection method for any application. CT systems meet requirements for 450 to 3,000 lb/day (204 to 1,360 kg/day) chlorine equivalent. Applications include potable water, wastewater, odor and corrosion control, cooling towers, oxidation and swimming pool disinfection.

The ClorTec CT 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:

- ◆ Electrolytic cell(s)
- ◆ Rack mount
- ◆ Power supply/rectifier
- ◆ Control panel/PLC
- ◆ Water softener
- ◆ Brine tank
- ◆ Brine proportioning pump
- ◆ Product day tank
- ◆ Metering pump
- ◆ Ultrasonic level control
- ◆ Hydrogen dilution blower
- ◆ Intrinsically safe multiple safety system
- ◆ Optional Water heater and chiller



## Benefits:

- ◆ New cell design delivers 20% reduction in consumable operating cost
- ◆ On-demand sodium hypochlorite production
- ◆ No handling or transportation of hazardous materials
- ◆ No hazardous materials storage
- ◆ Exempt from Process Safety Management
- ◆ Exempt from Risk Management Planning
- ◆ Superior Warranty
- ◆ Easy Operation
- ◆ Minimizes disinfection by-products



## Severn Trent Services

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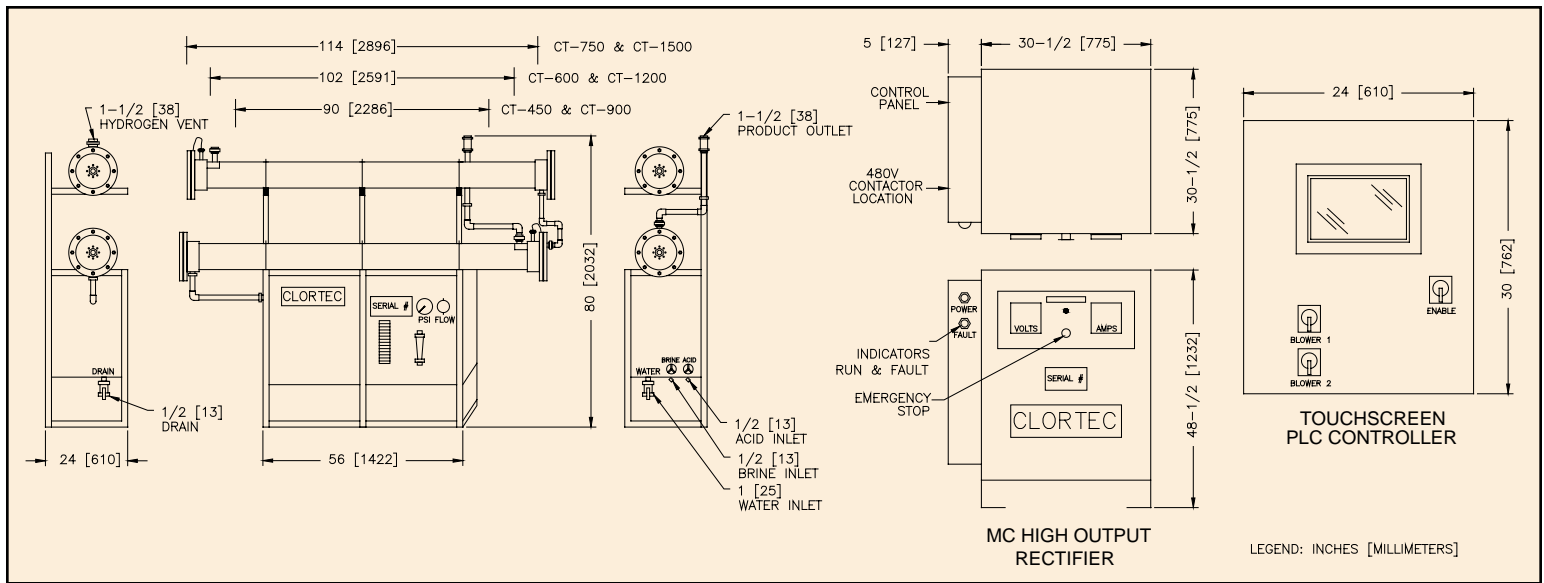
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## CLORTEC: CT SERIES SYSTEM SPECIFICATIONS

**Capacities:** 450-3,000 lb/day (204-1,360 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 lbs. salt, 2 kwh (DC), 15 gal. (57 L) water.

**Water Supply:** Potable water @30-60 psi (2.1-4.1 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:** 480 VAC 3 Ø, 60 Hz to rectifier, 208-240 VAC 1 Ø, 60 Hz. (Other voltages available as an option)

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

**Operator Interface:**

**Standard:** LCD touchscreen.

**Optional:** Color LCD touchscreen industrial computer with data logging and communications capability.

**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:** HDPE or FRP tank to store minimum of 1 weeks salt supply. (lb/day x 3 x 7 days min).

**SODIUM HYPOCHLORITE TANK**

**Material:** FRP or HDXLPE or equivalent

**Size:** Two days storage recommended (lb/day x 15 gal x 2)

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

**Hydrogen Vent:** Waste hydrogen is vented to atmosphere by an active air dilution system.

**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	Rectifier AC Amp 480 V 3 Ø Draw	Rectifier Circuit Capacity
		lb/day	kg/day	gal/hr	L/hr	gal/day	L/day	lb/day	kg/day			
CT-450	1 x 450	450	204	281	1,065	6,750	25,549	1,350	612	900	80	125
CT-600	1 x 600	600	272	375	1,419	9,000	34,065	1,800	816	1,200	90	150
CT-750	1 x 750	750	340	469	1,774	11,250	42,581	2,250	1,021	1,500	100	180
CT-900	2 x 450	900	408	563	2,129	13,500	51,098	2,700	1,225	1,800	140	250
CT-1200	2 x 600	1,200	544	750	2,839	18,000	68,130	3,600	1,633	2,400	170	300
CT-1500	2 x 750	1,500	680	938	3,548	22,500	85,163	4,500	2,041	3,000	210	400
Dual System												
CTD-1800	900 + 900	1,800	816	1,125	4,258	27,000	102,195	5,400	2,449	3,600	2 x 140	2 x 250
CTD-2400	1200 + 1200	2,400	1,088	1,500	5,678	36,000	136,260	7,200	3,266	4,800	2 x 170	2 x 300
CTD-3000	1500 + 1500	3,000	1,360	1,875	7,097	45,000	170,325	9,000	4,082	6,000	2 x 210	2 x 400

\* Ready for use containerized packages available.

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