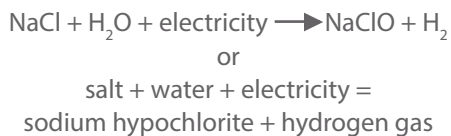


CLORTEC® ON-SITE SODIUM HYPOCHLORITE GENERATING SYSTEMS MCT SERIES — 12 – 36 LB/DAY (5.4 – 16.3 KG/DAY)

The ClorTec® on-site sodium hypochlorite generation process offers unparalleled safety and cost efficiency. ClorTec on-site systems generate typically 0.8% sodium hypochlorite by combining three common consumables:



ClorTec MCT systems easily control sodium hypochlorite production and provide a powerful disinfection method for any application. MCT systems meet requirements for 12–36 lb/day (5.4–16.3 kg/day) chlorine equivalent. Applications include potable water, wastewater, odor and corrosion control, cooling towers, oxidation and swimming pool disinfection.

The ClorTec MCT systems are supplied in a factory tested integrated skid mounted configuration. This compact design allows for easy maintenance and system expansion.

Features

- Integral skid mounted design
- High efficiency electrolytic cell(s)
- Integrated control panel/power supply
- Integrated brine proportioning pump
- On-board water softener

For more information on ClorTec® on-site sodium hypochlorite generating system visit www.denora.com



Typical Accessory Components

- Brine maker
- NaOCl storage tank
- NaOCl Metering pump
- Ultrasonic tank level control
- Hydrogen dilution blower
- Water chiller or heater

We Understand On-site Sodium Hypochlorite Generation



Benefits

- New cell design delivers 20% reduction in consumable operating cost
- On-demand sodium hypochlorite production
- No handling or transportation of hazardous materials
- Exempt from Process Safety Management
- Exempt from Risk Management Planning
- Best warranty
- Easy operation
- Minimizes disinfection by-products
- NSF 61 certified
- Hydrogen dilution blower safely removes and disperses H₂ gas, ensuring safe hypochlorite generation
- Optional water chiller reduces operating costs by increasing efficiency of sodium hypochlorite conversion

Typical Accessories

Brine Generator: HDLPE tank to store minimum of 1 weeks supply

Hydrogen Air Dilution System: Hydrogen by-product is exhausted to atmosphere by an active air dilution blower system

Water Chiller: Recommended for optimum efficiency when water temperatures are over 80°F (27°C): Air cooled design; classified by Underwriters Laboratories in accordance with ANSI/NSF 61, 1997b

Water Heater: Recommended for optimum efficiency when water temperatures are below 65°F (18°C): UL® and CSA recognized and listed unitized assembly

MCT Series System Specifications

Capacities: 12–36 lbs/day (5.4–16.3 kg/day); free available chlorine

Control: Automatic batch, regulated by storage tank status

Hypochlorite: 0.8% ± 0.05%

Raw Materials: 2.8 lbs (1.4 kg) salt, 2 kWh electrical energy, and 15 gal (57 L) water per pound of free available chlorine produced

Water Supply: Potable water @ 20–50 psi (1.4–3.5 bar), temperature range 65°F–80°F (18°C–27°C)

Salt Quality: 99.7% pure dry weight solar salt or equivalent

Electrical Power:

– Rectifier: 208–240 VAC 1 Phase, 60 Hz

– Control panel: 208–240 VAC 1 Phase, 60 Hz

Operator Interface:

– 6 Inch monochromatic touch screen*
or

– 2 line LCD display with dedicated keypad*

*Data logging and communications capability.

Control Panel: Grey polyester coated NEMA 4 welded steel enclosure UL 508a

Sodium Hypochlorite Tank

Material: HDXLPE or equivalent

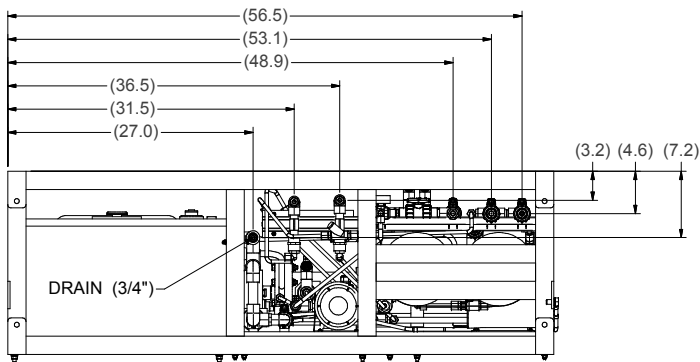
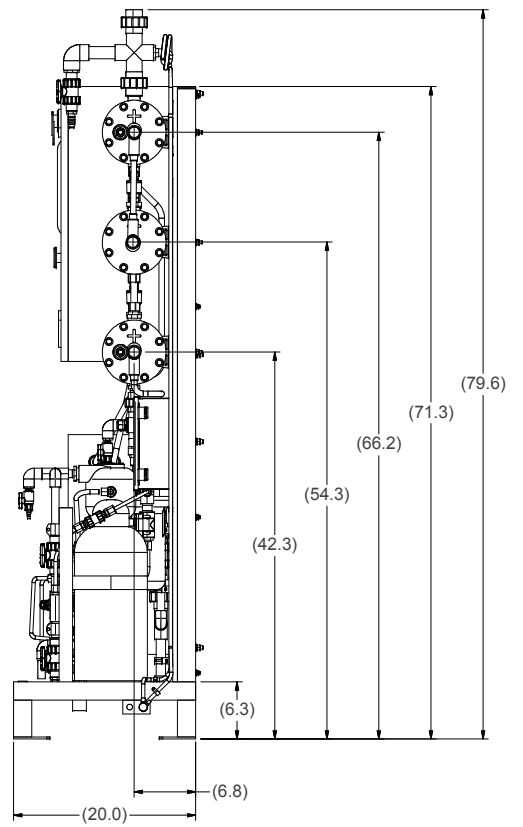
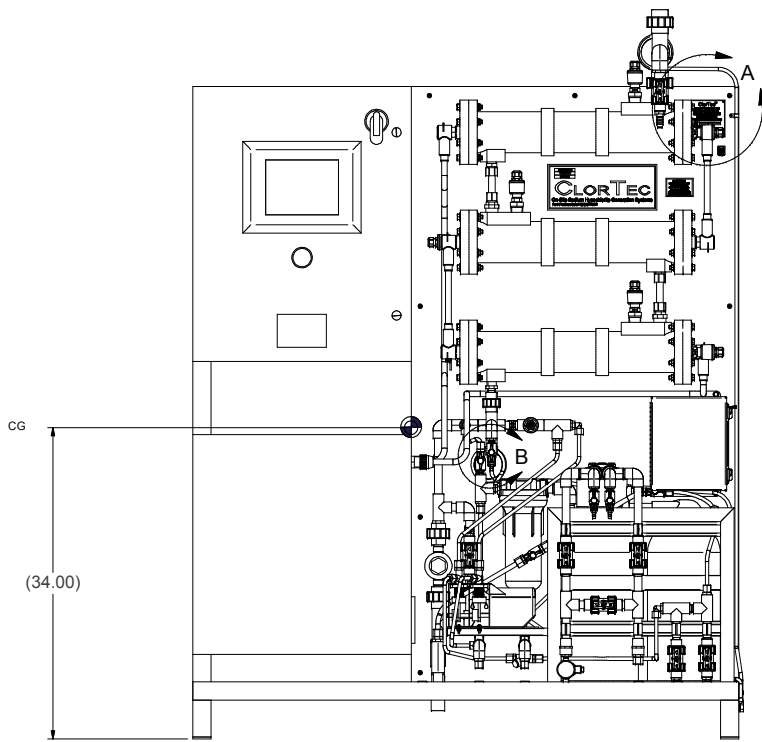
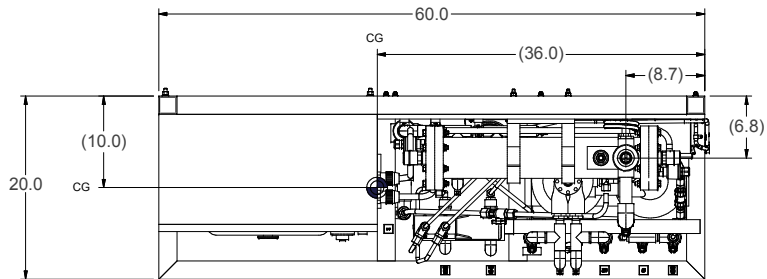
Size: One day storage recommended

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

Model Series	Cells Configuration	Output		Flow		Salt		Max Circuit Capacity* ampere	Dry Shipping Weight
		lb/day	kg/day	gal/day	L/day	lb/day	kg/day		
MCT-12	1 x 12 lb/day cell	12	5.4	180	681	33.6	15.3	40	665 lbs.
MCT-24	2 x 12 lb/day cell	24	10.9	360	1363	67.2	30.5	50	680 lbs.
MCT-36	3 x 12 lb/day cell	36	16.3	538.0	2044	100.8	45.8	60	695 lbs.

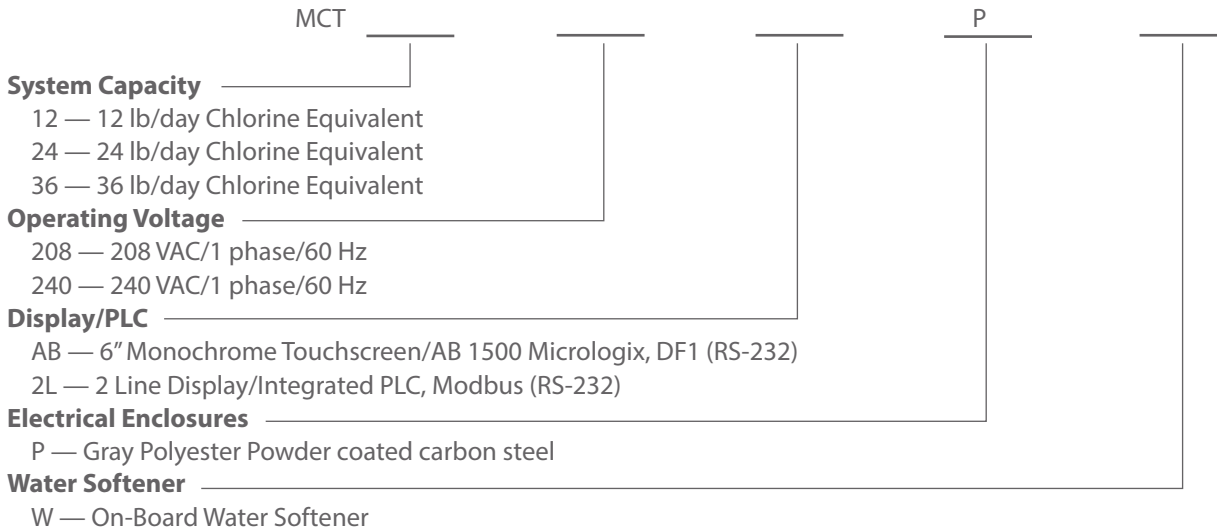
*Maximum @ 240 VAC 1 phase, standard MCT system.

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ClorTec® On-site Sodium Hypochlorite Generating Systems MCT Series

MCT Sodium Hypochlorite Generator Ordering Information



Order Example:

MCT24240ABPW

24 lb/day system, 240 V/60 Hz operating power, touchscreen, gray steel enclosures with an on-board water softener.

Typical Equipment Included on an MCT Sodium Hypochlorite Generator:

- Epoxy powder coated steel skid
- Cells/Electrodes
- Brine proportioning system
- Power supply/rectifier
- Water Softener
- Control Panel with:
 - PLC & HMI
 - SCADA ready (Modbus (RS-232) for 2 line display model or DF1 (RS-232) for AB touchscreen model)
 - Blower controls (blower package sold separately)
 - Intrinsically safe barriers for cell level & temperature safety switches
- One hardcopy O & M Manual and one CD Electronic version
- Supplied with domestic crating

Note: Dosing Controls are not included.

For more information on ClorTec® on-site sodium hypochlorite generating system visit www.denora.com

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