



DE NORA
our research - your future

On-site Sodium Hypochlorite Generators

ClorTec®

100 to 3000 lb/d (45 kg/d to 1360 kg/d)

ClorTec® Makes Electrochlorination Easy

The latest generation of De Nora ClorTec® brine electrochlorination technology offers simple operation and maintenance as well as unrivaled performance, efficiency, low lifecycle cost, durability, reliability and safety advantages.

The large ClorTec® systems generate from 100 - 3,000 lb/day (45 - 1,360 kg/day) sodium hypochlorite using three common consumables: water, salt and power.



Using just water, salt and power to generate sodium hypochlorite on site eliminates the storage and handling of hazardous chemicals while providing chlorine residual.

All ClorTec® designs use the highest efficiency DSA® electrodes pioneered by De Nora and include a range of operator-driven features including:

- Remote monitoring and communication options available
- Unique cell design and flow control features for simplified maintenance and operation
- Patented split flow system ensures efficiency and minimized hypochlorite production by-products production
- NSF/ANSI 61 Certified



WATER MADE EASY



ClorTec®

On-site Sodium Hypochlorite Generators

100 to 3000 lb/d (45 kg/d to 1360 kg/d)

Product Specifications

Model	Cell Config.	Salt Conversion	Energy Conversion	Water	Output Capacity* (chlorine equivalent)		Total Flow**		Softwater		Brine Flow		Salt	
					(lb/d)	(kg/d)	(gpm)	(m³/d)	(gpm)	(m³/d)	(gpm)	(m³/d)	(lb/d)	(kg/d)
ClorTec® 100	1 x 100	3.0 lb salt/ lb FAC	2.0 kW-hr/ lb FAC	15 gal water/lb 125 L water/kg	108	49	1.04	5.67	0.96	5.23	0.08	0.44	300	136
ClorTec® 150	2 x 75				160	73	1.56	8.50	1.44	7.85	0.12	0.65	450	204
ClorTec® 200	2 x 100				216	98	2.08	11.34	1.92	10.47	0.16	0.87	600	272
ClorTec® 225	3 x 75				240	109	2.34	12.75	2.16	11.77	0.18	0.98	675	306
ClorTec® 300	3 x 100				324	147	3.13	17.06	2.88	15.70	0.24	1.31	900	408
ClorTec® 450	1 x 450				500	227	4.69	25.57	4.33	23.60	0.36	1.96	1350	612
ClorTec® 600	1 x 600				625	283	6.25	34.07	5.77	31.45	0.48	2.62	1800	816
ClorTec® 750	1 x 750				750	340	7.81	42.57	7.21	39.30	0.60	3.27	2250	1020
ClorTec® 900	2 x 450				1000	454	9.38	51.13	8.65	47.15	0.72	3.93	2700	1224
ClorTec® 1200	2 x 600				1250	567	12.50	68.14	11.54	62.90	0.96	5.23	3600	1632
ClorTec® 1500	2 x 750				1500	680	15.63	85.20	14.42	78.60	1.20	6.54	4500	2041
ClorTec® 1800	2 x 450 + 2 x 450				2000	902	18.75	102.21	17.31	94.36	1.44	7.85	5400	2449
ClorTec® 2400	2 x 600 + 2 x 600				2500	1134	25.00	136.28	23.08	125.81	1.92	10.47	7200	3265
ClorTec® 3000	2 x 750 + 2 x 750				3000	1360	31.26	170.40	28.84	157.20	2.40	13.08	9000	4082

Specifications

Control: Automatic batch, controlled by hypochlorite storage tank level

Sodium Hypochlorite: 0.8% ± 0.05

Water Supply: Potable water @ 30 - 70 psi (1.2 - 4.8 bar)

Temperature Range: 65°F - 80°F (18°C - 29°C)

Salt Quality: 99.7% pure dry weight solar salt or equivalent for best efficiency****

PLC & Operator Interface: 4"/7" PLC/HMI Touch Screen***
(Other PLC & HMI options are also available)

NOTES:

* Output capacities are maximum values. For detail sizing please contact De Nora Water Technologies

** Note flow is for generator only, additional water flow will be required for softening system and may vary but generally +15% should be adequate. Contact De Nora for project specifics

*** Data logging and communications capability.

Additional options are available - contact De Nora Water Technologies for your options

**** For lower salt purity usage, please contact De Nora Water Technologies

Control Panel: Grey polyester coated NEMA 4 welded steel enclosure UL 508A (Other materials are also available)

Hydrogen Venting: Waste hydrogen is diluted and vented to atmosphere by using air blower(s)

Electrical Power:

- Rectifier:** 208 or 240 Vac 1 Phase, 60 Hz or 480 - 600 Vac, 3 Phase, 60 Hz (50 Hz also available)

- Control Panel:** 208 or 240 Vac 1 Phase, 60 Hz (Any other voltages and 50 Hz are also available)

Skid Dimensions:

- ClorTec® 100 - 300:** 28" W x 17" D x 60" H

- ClorTec® 450 - 1500:** 133" W x 26" D x 60" H

- ClorTec® 1800 - 3000:** 152" W x 48" D x 60" H

WATER MADE EASY

MARINE

ENERGY

MUNICIPAL

INDUSTRIAL



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