

# On-site Sodium Hypochlorite Generators

## **ClorTec<sup>®</sup>**

25 to 100 lb/d (11 kg/d to 45 kg/d)

### **ClorTec<sup>®</sup> Makes Electrochlorination Easy**

De Nora ClorTec<sup>®</sup> 25-100 on-site sodium hypochlorite generators are designed for high efficiency, low lifecycle cost, durability and reliability. Four model sizes generate from 25 - 100 lb/day (11 kg/d - 45 kg/d) with the ability to easily expand capacity 4X in the same enclosure.

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

The ClorTec<sup>®</sup> designs include a range of features including:

- Remote monitoring and communication options available
- Unique cell design and flow control features for simplified maintenance and operation
- Modular design and scalability reduces footprint and space requirements
- NSF/ANSI 61 Certified and CE Marking



# ClorTec® On-site Sodium Hypochlorite Generators

25 to 100 lb/d (11 kg/d to 45 kg/d)

## Product Specifications

Model	Electrical Service Requirement	Salt Conversion	Energy Conversion	Water Treatment Capacity at 1ppm FAC	Output Capacity (chlorine equivalent)		Flow Rate ****		Soft Water		Brine Flow		Salt			
					(lb/d)	(kg/d)	(gpm)	(Lph)	(gpm)	(m³/d)	(gpm)	(m³/d)	(lb/d)	(kg/d)		
ClorTec® 25	200 - 240 VAC, 1 ph, 30A, 50/60 Hz*	3.0 lb salt/ lb FAC	2.0 kW-hr/ lb FAC	3.0 mgd 11,355 m³/day	25	11.3	0.26	49.28	0.24	1.31	0.02	0.11	75	34		
ClorTec® 50	200 - 240 VAC, 1 ph, 60A, 50/60 Hz*			6.0 mgd 22,710 m³/day	50	22.7	0.52	98.57	0.48	2.62	0.04	0.22	150	68		
ClorTec® 75	200 - 240 VAC, 1 ph, 90A, 50/60 Hz*			3.0 kg salt/ kg FAC	4.4 kW-hr/ kg FAC	9.0 mgd 35,065 m³/day	75	34	0.78	147.85	0.72	3.93	0.06	0.33	225	102
ClorTec® 100	200 - 240 VAC, 1 ph, 120A, 50/60 Hz*			12 mgd 45,420 m³/day	100	45.4	1.04	197.14	0.96	5.24	0.08	0.44	300	136		

## Specifications

**Control:** Automatic batch, controlled by hypochlorite storage tank level

**Sodium Hypochlorite:** 0.8% ± 0.05 \*\*

**Water Supply:** Potable water @ 25 - 100 psi (1.7 - 6.9 bar)

**Temperature Range:** 55°F - 80°F (12°C - 27°C)\*\*\*

**Salt Quality:** 99.7% pure dry weight food grade salt or equivalent for best efficiency\*\*\*\*\*

**Additional cell increments to meet higher capacity:**  
25 lb/11.3 kg

### Notes:

\* Available in 3 ph, Wye 380 - 530 VAC, 15A, 25A, 35A, 50/60 Hz

\*\* HYPO Self-Cleaning FAC Concentration 0.65% ±0.1%

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

\*\*\* Recommended range provided - acceptable range is 40°F - 90°F (5°C - 35°C)

\*\*\*\* 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.

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

**PLC & Operator Interface:** Allen Bradley Micrologix 1400 with AB PanelView Plus 600

**Control Panel:** Painted Steel with rotomolded fascia

**Hydrogen Venting:** Passive venting via non-mechanical drop-tube design

### Optional Self-Cleaning:

Option A: FAC Concentration 0.65% ± 0.1% at standard salt conversion efficiency

Option B: FAC Concentration 0.8% ± 0.1% mg/L at 4 lbs salt/lb FAC conversion efficiency

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