

ClorTec®

On-site Sodium Hypochlorite Generators

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

Introduction

De Nora ClorTec® 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 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





Product Specifications

Model	Electrical Service Requirement	Efficiencies		Treatment Capacity @ 1ppm FAC dose	Generation Capacity		Flow Rate ****		Soft Water		Brine Flow		Salt			
		Salt	Energy		(lb/d)	(kg/d)	(gph)	(Lph)	(gph)	(Lph)	(gph)	(Lph)	(lb/d)	(kg/d)		
ClorTec 25	200 - 240 VAC/ 1PH, 30-amps, 50/60 Hz*	3 lb/ lb FAC	2.0 kW hr/ lb FAC	3 mgd 11,356 m3/day	25	11.3	15.6	59.1	14.4	54.5	1.22	4.61	75	34		
ClorTec 50	200 - 240 VAC/ 1PH, 60-amps, 50/60 Hz*			6 mgd 22,713 m3/day	50	22.7	31.3	118.3	28.8	109.1	2.44	9.23	150	68		
ClorTec 75	200 - 240 VAC/ 1PH, 90-amps, 50/60 Hz*			3 kg/ kg FAC	4.4 kW hr/ kg FAC	9 mgd 34,069 m3/day	50	34.0	46.9	177.4	43.2	163.6	3.66	13.84	225	102
ClorTec 100	200 - 240 VAC/ 1PH, 120-amps, 50/60 Hz*			12 mgd 45,425 m3/day	100	45.4	62.5	236.6	57.6	218.1	4.88	18.45	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% at 4 lbs salt/lb FAC conversion efficiency



About De Nora

Backed by 100 years of experience, you can be confident in the reliability and safety of ClorTec® On-site Generators. De Nora is the partner-of-choice for communities and companies around the globe. In fact, more than 500 million people around the world drink water treated by De Nora products every single day.

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