

The background image shows an industrial facility with several large, white, horizontal storage tanks. These tanks are connected by a complex network of pipes and metal structures. In the background, there are more industrial buildings and power lines under a clear sky. The image is partially overlaid with a blue and orange graphic on the left and a purple graphic at the bottom right.

# CAPITAL CONTROLS®

## Chlorine Dioxide Generators

High efficiency, modular design with the reliability  
expected from 45 years of Chlorine Dioxide generation

For generations, the Capital Controls® name has been synonymous with disinfection\* in water treatment. With hundreds of chlorine dioxide generator installations around the world, De Nora has leveraged that expertise, developing the next stage in chlorine dioxide production — a modern, flexible, and safe line of chlorine dioxide generators.

### Why Choose De Nora?



CHLORINE DIOXIDE  
EXPERTISE - 45  
YEARS COVERING ALL  
TECHNOLOGY TYPES



EFFECTIVE - YIELD  
UP TO 99%



CONSISTENT  
PERFORMANCE



THE SAFEST UNDERWATER  
REACTOR IN THE INDUSTRY



DESIGNED FOR EASE OF  
ACCESSIBILITY DURING  
MAINTENANCE



MODULAR DESIGN  
-FLEXIBLE PLANT LAYOUT



EASY TO UPGRADE OR  
DOWNGRADE CAPACITY



OXICORE™ Underwater Containerized Solution  
for Chlorine Dioxide Generation

Capital Controls chlorine dioxide generators from De Nora employ commercially available chemistries, with sodium chlorite as a precursor to chlorine gas, or hydrochloric acid, to safely generate chlorine dioxide as a liquid under vacuum or water.

## Capital Controls® Chlorine Dioxide Systems

### High chemicals conversion rate

- Produces Chlorine Dioxide at high efficiency and purity up to 99%

### Consistent performance

- Higher corrosion resistance minimising metallic components
- New robust dosing pumps - one design fits all makes maintenance easier

### The Safest Underwater Reactor in the Industry

- All liquid chlorine dioxide system under water or vacuum for safe production

### Expertise

- 45 years experience in Chlorine Dioxide systems including more than 400 installations globally
- Design and patent of the original underwater technology
- All types of chemistries and technologies including under water and vacuum

### Skid simplicity

- Piping routing is clear and well divided

### Designed for ease of accessibility during maintenance

- No enclosure ensures for easy access
- Online monitoring of production yield

### Modular / flexible design

- Can simply increase production capacity by adding units with minimal engineering time and effort
- Containerized solution reduces installation time and cost



## CHLORINE DIOXIDE APPLICATIONS

- THM & HAA reduction
- Oxidation of iron and manganese
- Taste and odor and color removal
- Food & beverage, brewing, bottling, dairy production
- Membrane pre-treatment and biofouling control
- Algae control
- Disinfection and oxidation of ammonia rich waters, i.e., ammonia production facilities, fish farming

Model	Capacity	Design	Precursor	Activator	Yield (Practical)
G50 Series	5 - 50 kg/hr (2500 ppd)	All-vacuum eductor type	Sodium chlorite 25-31%	Chlorine gas	>95%
T70 Series	1 - 10 kg/hr (500 ppd)	All-vacuum eductor Type	Sodium chlorite 25-31%	Hydrochloric acid 30-38%	Up to 95%
OXICORE™ U	1 - 17 kg/hr** (900 ppd)	Under water reactor	Sodium chlorite 25-31%	Hydrochloric acid 30-38%	Up to 99%



Capital Controls  
OXICORE™ Generator



Capital Controls  
G50 Generator (NSF61)



Capital Controls  
T70 Generator

