



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

CAPITAL CONTROLS®

Chlorine Dioxide Generators

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 ppm)	All-vacuum eductor type	Sodium chlorite 25-31%	Chlorine gas	>95%
T70 Series	1 - 10 kg/hr (500 ppm)	All-vacuum eductor Type	Sodium chlorite 25-31%	Hydrochloric acid 30-38%	Up to 95%
OXICORE™ U	1 - 17 kg/hr** (900 ppm)	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

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