

Pure Peroxide Generation

Ready to use



Phase Two
Chemicals, Inc.

Our on-site peroxide (H_2O_2) generation system, **ECO-HP 2000**, offers a revolutionary approach to water treatment and disinfection, providing numerous benefits for industries such as **drinking water treatment, food processing, healthcare, and aquaculture**. By producing high-purity hydrogen peroxide directly at the point of use, our technology eliminates the need for bulk chemical storage, transportation and handling, while delivering significant operational, economic, and environmental advantages.

Applications in Critical Markets

Drinking Water Treatment

- Ensures the removal of trace organic contaminants.
- Ideal for municipal water treatment plants and private water systems.
- Complies with stringent regulatory standards for drinking water safety.

Food Processing

- Disinfects water used in food production, ensuring compliance with food safety regulations.
- Eliminates biofilms and pathogens in processing equipment and water systems.
- Food safe.

Healthcare and Medical Facilities

- Provides a reliable disinfection in hospitals, clinics, and laboratories.
- Ensures sterilization for medical equipment, wound care, and pharmaceutical production.
- Reduces the risk of healthcare-associated infections (HAIs).

Aquaculture

- Helps to maintain optimal water quality in fish farms and aquaculture systems.
- Effectively controls pathogens and algae, ensuring healthy aquatic environments.
- Safe for fish and other aquatic organisms, promoting sustainable aquaculture practices.



Key Features of our equipment



Cost Efficiency

- Eliminates recurring costs associated with purchasing, storing, and transporting bulk hydrogen peroxide.
- Reduces operational expenses through energy-efficient production and minimal maintenance requirements.



Enhanced Safety

- Removes the risks of handling and storing concentrated hydrogen peroxide, which can be hazardous.
- Produces low-concentration H_2O_2 (up to 2%) on demand, ensuring safe and controlled usage.



Sustainability

- Requires only water and electricity as inputs, making it an eco-friendly solution.
- Generates no harmful disinfection by-products (DBPs), ensuring compliance with environmental regulations.



Autonomous Operation

- Fully automated systems with remote monitoring capabilities reduce the need for on-site personnel.
- Ensures consistent and reliable performance without dependence on external chemical supply chains.



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Performance data

Volume of Peroxide UltraPure produced per day [L/day]	300
Output Peroxide UltraPure Concentration [wt%]	≤2

Inputs

Power consumption [kW]	2.5
Water consumption [m3/day]	0.3
Power inlet	AC200- 240V/50Hz

Dimensions

Length×Width×Height [mm]	920×1160×1940
Weight [kg]	300
IP rating [cabinet]	IP52

Operation range

Feed water pressure [bar]	0-3
Environment	Indoors
Water temperature [°C]	10-40
Ambient temperature [°C]	5-38
Humidity [RH%]	0-70

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