

WATER TREATMENT SOLUTIONS

FOR OIL & GAS OFFSHORE
AND MARINE MARKETS

EQUIPMENT | PARTS | SERVICES | RENTALS

Protecting lives and the environment



H₂O'S OFFSHORE & MARINE MARKET AREAS OF EXPERTISE

FRESH WATER



WATERMAKERS
Generate fresh water for crew and process needs directly from the ocean



STORAGE TANKS
Store and maintain the quality of fresh water



WATER QUALITY
Ensures water is safe for use by people and maintains the integrity of plumbing



PRESSURE SETS
Supplies fresh water at sufficient flow and pressures for people and process



HOT WATER SYSTEMS
Ensures an ample supply of hot water is available

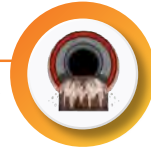


HIGH PURITY WATER
Produces water for special needs including amine and heat media makeup



PRODUCTS

SEWAGE TREATMENT



SEWAGE TREATMENT
Treats sewage to meet USCG and IMO discharge standards



LIFT STATIONS
Transfers sewage from low point drain to sewage treatment system

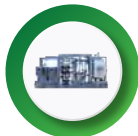


VACUUM COLLECTION
Collects wastewater when gravity drainage is not practical



GREASE TRAPS
Removes fats, oil and grease from wastewater

BIOFOULING CONTROL



ELECTROCHLORINATION SYSTEMS
Generates sodium hypochlorite from seawater



DOSING
Development of dosing levels using our best in class technology Ecodosing



MONITORING
Provides verification that biofouling control process is efficient and effective

OILY WATER SEPARATION



BILGE WATER TREATMENT
Removes the oil from vessel bilgewater prior to its discharge



MONITORING
Provides real-time monitoring of oil content in water

3 FRESH WATER

A LEGACY OF CLEAN

5 SEWAGE TREATMENT

COST-EFFECTIVE, SIMPLE SOLUTIONS FOR SEWAGE TREATMENT

7 BIOFOULING CONTROL

THE SAFE SOLUTION TO CONTROL MARINE BIOFOULING

9 OILY WATER SEPARATION

EASY-TO-USE, AFFORDABLE, AND EFFECTIVE OILY WATER SEPARATOR

11 RENTALS

FOR SHORT-TERM DEMANDS AND UNEXPECTED SITUATIONS



FRESH WATER



A LEGACY OF CLEAN

For more than 40 years, our **Bluecube watermakers** have set the standard for seawater desalination in the oil and gas industry, producing potable water that complies with all regulations and guidelines set by US Environmental Protection Agency and World Health Organization.

Our systems are rugged, reliable, cost-effective and easy to use. And they come with the best warranty in the business — a full year of coverage for both parts and labor.

Our Watermaker division offers reverse osmosis seawater desalination systems, storage tanks, carbon and sediment filters, water heaters, bunkering filters, ultraviolet disinfection, deionization tanks for ultrapure water, wash-down systems, pressure sets and water safety equipment.



RO DESALINATION SYSTEMS

- Produce potable water from seawater that is safe for people and plumbing
- Simple one-button operation
- Capable of operating reliably in shallow high silt environments
- Sized to support crews from 2 to 200
- Extensive safety features



SINGLE-SKID TREATMENT PACKAGES

- Save space by installing multiple offerings on a single skid. For example, you may have watermaker, pressure set and storage tank on one skid
- Reduce plumbing — no need to connect separate skids



PRESSURE SETS

- Transfer water from storage tank to the living quarters at adequate water pressure
- Compact
- ASME-rated bladder tanks and 316L SS pumps
- True lead lag technology
- Plumbing options include PVC, CPVC, welded stainless steel, threaded galvanized steel

CHEMICALS PARTS

CUBECLEAN[®] A & D

REVERSE OSMOSIS MEMBRANE CLEANERS

Over time membrane elements can become fouled by mineral scale, biological matter, colloidal particulates and insoluble organic constituents. The Cubeclean product line helps to recover permeate flow loss due to the deposits.

RUSTFREE 55

Turn brown water to clear. Prevent corrosion in the potable water system by injecting RustFree 55 potable water corrosion blocker. NSF/ANSI 60 certified.

FOOD GRADE HYPOCHLORITE

Inject a fixed amount of chlorine into the water to prevent bacteria and algae growth. The use of low levels of chlorine is required by almost all government agencies for the treatment of potable water.

CALCITE (NSF CERTIFIED)

Adding calcite results in a neutral pH range that helps to prevent corrosion of the water distribution system. A neutral pH is also necessary for chlorine to be effective at killing bacteria that may grow in the water supply.



REVERSE OSMOSIS MEMBRANE



BAG FILTER



CARTRIDGE FILTER

SERVICES

ANNUAL EQUIPMENT INSPECTION

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SEWAGE TREATMENT

OWENS |  **crapzapper**®
A product of H₂O

COST-EFFECTIVE, SIMPLE SOLUTIONS FOR SEWAGE TREATMENT

With more than 4,000 units manufactured and installed throughout the world, H₂O's sanitation devices are known for their high quality and dependability. Our systems are so tough, you can almost forget about them. They require little maintenance and can be easily installed in any area. And because their performance meets or exceeds industry standards, you can be confident our units will help you meet regulatory requirements.



FEATURES

- Biological sewage treatment
- Dual-certified, USCG and IMO - allows for operation anywhere in the world
- Stock sizes or custom-designed units
- Ultra-low maintenance with only one moving part
- Biomass carriers improve biodegradation and reduce footprint
- Heavy duty steel construction
- Fully corrosion protected for decades of dependable service
- Simple disinfection system with no parts to break or clog
- Serves crews from 2 to 500

CHEMICALS

BACTERIA

Formula 101 Bacteria

Formula 102 Enhancer and Odor Control

BOWL ZAPPER

Non-Bleach Toilet Cleaner

ALL PURPOSE ZAPPER

Non-Bleach All Purpose Cleaner

CALCIUM HYPOCHLORITE TABLETS

Effectively kills Bacteria, Controls Algae, Destroys Organic Contaminants

PARTS



DISCHARGE PUMP



BLOWER



BLOWER FILTER



CARBON FILTER

REMOVES CHLORINE BEFORE DISCHARGE



SERVICES

ANNUAL EQUIPMENT INSPECTION



BIOFOULING CONTROL



THE SAFE SOLUTION TO CONTROL MARINE BIOFOULING

The accumulation of marine organisms or biofouling can be costly, as it causes corrosion, diminishes heat transfer and increases pipe losses through flow restrictions.

Our electrochlorination systems allow for on-site generation of sodium hypochlorite - providing a safe and cost-efficient method for biofouling control.

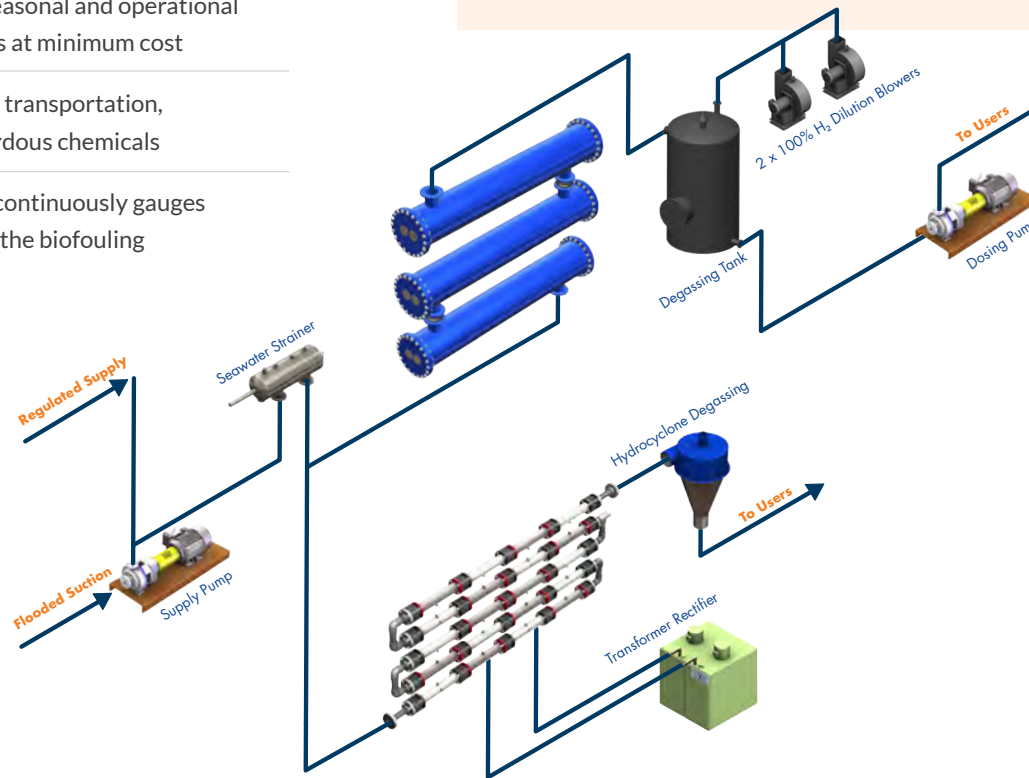
We offer both concentric tube and parallel plate electrolyzer technologies.

FEATURES

- Fully automated
- Complies with globally recognized standards
- Suitable installation in non-hazardous and hazardous areas
- Designed to meet seasonal and operational dosing requirements at minimum cost
- Eliminates handling, transportation, and storage of hazardous chemicals
- Monitoring system continuously gauges the effectiveness of the biofouling control system

APPLICATIONS

- WATER FLOOD
- COOLING WATER
- FIRE WATER SYSTEMS



CHEMICALS

PEPCON® CELL CLEANER

Over time the electrochlorination cells can become fouled by mineral scale and other deposits causing loss of performance. Regular use of the PEPCON Cell Cleaner helps to maximize the performance of the cells.

PARTS



PLATE CELLS



TUBE CELLS

THE CHEMICAL REACTION IS EXPRESSED AS FOLLOWS:



SERVICES

ANNUAL EQUIPMENT INSPECTION



OILY WATER SEPARATOR



THE EASY-TO-USE, AFFORDABLE, AND EFFECTIVE OILY WATER SEPARATOR

BOSS Oily Water Separators are the world's No. 1 bilge water treatment systems that you can depend upon for years of low-maintenance use. Our systems are certified by US Coast Guard, IMO, ABS and other globally recognized certification bodies.

HOW IT WORKS:

BOSS Separator utilizes three step process to effectively treat oily bilge water before safely discharging the water overboard. First, free oil rises in our coalescing chamber where it is collected and removed from the water. The system automatically detects the amount of oil collected and discharges the oil to a waste oil collection tank. Secondly, the water runs through a cartridge filter to remove the unwanted sediments. Finally, the separator polishes the water to ensure it meets discharge regulations.



BOSS OILY WATER SEPERATOR

AVAILABLE MODELS AND SIZES

- 2.2T-107 (400-1,600 GT)
- 5T-107 (1,600-4,000 GT)
- 11T-107 (4,000-15,000 GT)
- 25T-107 (15,000 GT+ & Rigs)
- 45T-107 (Rigs and Larger Ships)

FEATURES

- Adjustable flow rate for optimal efficiency
- Easy to operate
- Low maintenance cost
- Compliant with IMO MEPC.107(49) regulations

ADDITIONAL MODELS



YACHT BOSS

- Extra small footprint for use on a Yacht, or any small vessel
- Optional white AWL Grip paint system
- Low cost of ownership



MINIBOSS

- Designed for vessels smaller than 400 GT, but can handle vessels up to 1,600 GT
- Small footprint (wall mounted) and low capital cost
- Complies with IMO MEPC.107(49) regulations

PARTS



COALESCING MEDIA



CARTRIDGE FILTER



ORGANOCLAY POLISHING MEDIA

FROM INSTALLATION TO MAINTENANCE, WE'RE READY TO SUPPORT YOU

- Installation and Removal of Existing Systems
- Ongoing Worldwide Maintenance for Your System
- Annual equipment inspection



RENTALS

FOR SHORT-TERMS DEMANDS AND UNEXPECTED SITUATIONS

To assist customers in meeting short-term demands and unexpected situations, we offer equipment for rental. Renting equipment may complement your business in a variety of ways:

Temporary needs. If the need is for a short-term activity, consider renting. Most of our rental customers do so for jobs that last less than a year.

Save capital expenditure budget. Renting can convert fixed costs into variable costs, produce favorable debt-to-equity ratios, and increase borrowing capacity.

Supplement. When your equipment can no longer meet fresh water demand or sewage regulatory requirements, don't sacrifice. We can supplement your needs with our vast inventory.

Try before you buy. Renting allows equipment users to evaluate the equipment's overall utility for the business.

Zero cost of ownership. Rental provides "like new" equipment maintained and serviced by our factory trained field engineers.

FRESH WATER

BLUECUBE®



SIZE

50 bbl/day

120 bbl/day

250 bbl/day

500 bbl/day

660 bbl/day

FEATURES

Class I Div II

Simple one-button operation – make life easier for operators

Water lubricated pump – no oil leaks to worry about

High TDS, automatic diverter valve – don't risk employees' health

High surface area pre-filters – reduces operator intervention by ten-fold

A product of H2O Watermaker Division.

SEWAGE TREATMENT

OWENS/CRAPZAPPER®



SIZE

750 gpd

1546 gpd

2026 gpd

FEATURES

Class I Div II

Dual-certified (U.S.C.G. & IMO) – meets discharge regulations worldwide

Only one moving part – experience 99% uptime

Unitary construction with lifting eyes – makes it easy to install

Odor control and bacteria auto-feed system – reduces operator intervention

A product of H2O Wastewater Division.

BENEFITS OF WORKING WITH H2O

CERTIFIED IN QUALITY

H2O maintains a substantial marine liability insurance policy, and our technicians are trained and certified to work anywhere you need us – including offshore worldwide. Our water safety plans and audit services have been utilized by many of the largest drilling and production companies in the world to help reduce potable water related risks and control common water quality problems.

CERTIFIED IN SAFETY

H2O is committed to providing high-quality products that our customers rely on. Our factory is ISO 9001-2008 certified and performs full acceptance testing on 100% of the equipment we manufacture before dispatching equipment to your job site.



LOOKING TO RENT EQUIPMENT?

To assist customers in meeting short-term demands and unexpected situations, we offer equipment for rental.

CONTACT

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