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C'treat

Offshore Water Systems



WATERMAKERS | UV DISINFECTION SYSTEMS | CUSTOM WATER SYSTEMS

Engineered for life

OVERVIEW

C'treat Offshore manufactures and supports Reverse Osmosis (R.O.) Watermakers, UV Disinfection Systems, and Custom Water Systems for the offshore energy industry. With hundreds of systems installed around the world, we provide reliable and economical supplies of fresh water for any offshore application.

Our desalination systems use proven technology and components that have been demonstrated in the field for many years. The equipment is simple to maintain offshore and operates reliably with little attention.

C'treat's Operator Support personnel maintain routine, proactive after-sale contact with customers. Operator Support provides training for offshore personnel, problem-solving, and maintenance assistance. This support is available around the world from factory-trained technicians, along with stocks of parts and consumables.

BENEFITS

RELIABILITY

Offshore installations, particularly those remote and/or in the deep offshore, need to have a dependable source of fresh water for all applications, including; drinking, equipment washdown, boiler feed, turbine washing, well injection, or crude desalting. Many of our customers have been running C'treat equipment for more than 25 years and attest to the reliability of the equipment and the support provided to their offshore sites.

ECONOMY

The cost of fresh water is always a concern offshore, both in remote locations and where it is possible to supply water by boat. C'treat's innovations in design and technology have been bringing down these costs year by year. When measured by the cost of water produced (pennies per gallon), C'treat builds the most economical desalination systems available.

FIELD-PROVEN

Because the marine environment is so severe, operators must rely on systems which can withstand the test of time. Since 1980, C'treat has been proving designs and hardware on production and drilling facilities in partnership with our long-term customers; eliminating components which fail, and integrating field-proven components into the standard designs.

CAPABILITIES

INNOVATIVE TECHNOLOGY

Over a quarter century of innovative engineering, technology development, and field testing have been directed toward reducing the total costs of desalting seawater for the offshore energy industry. This sustained work has resulted in proven equipment for providing reliable, highly-efficient production of fresh water with reverse osmosis membranes. A simplified, chemical-free process is achieved through the use of appropriate automation. C'treat equipment is supported through its commitment to making consumables, spare parts, and technical service readily available to customers worldwide.

MANUFACTURING

C'treat builds and tests complete reverse osmosis watermakers and custom water systems at its plant in The Woodlands, Texas, U.S.A. Experienced shop personnel carry out strict quality control in all phases of manufacturing for complete systems and proprietary components. C'treat has formalized its quality control system to meet the requirements of ISO 9001:2008, and their designs and equipment are routinely certified by Classification Agencies such as ABS, and DNV.

OPERATOR SUPPORT

C'treat has established a team specifically to assist watermaker operators to optimize fresh water production while minimizing labour and parts costs. Operator support objectives include:

- Tracking each site's consumables and spare parts in order to provide better delivery services,
- Detecting equipment problems before they occur, and
- Keeping in close contact with system operators to ensure that they are properly trained and kept current with technical improvements.





PRODUCTS & SERVICES



WATERMAKERS

C'treat builds a complete range of Reverse Osmosis watermakers to meet the wide variety of demands of the offshore drilling and production industry. Each packaged system is designed and built for simple operation and ease of maintenance. Many special system components have been designed and optimized for use in the offshore environment.



UV DISINFECTION SYSTEMS

C'treat ultraviolet treatment systems are specifically designed for the demands of our offshore energy customers and utilize ITT low pressure, high intensity UV lamps to destroy microorganisms. ITT brings over 50 years of UV water treatment experience into every UV system.



CUSTOM WATER SYSTEMS

- **PRESSURE SETS** - C'treat pumping stations and pressure sets, utilizing ITT pumps, are unique as they are built to standards demanded by the offshore industry.
- **TURBINE WASH** - Requirements for high-quality water for many purposes, including turbine washing, are met with C'treat brackish water R.O. watermakers, specifically designed for project requirements.
- **STORAGE** - Potable water storage tanks, complete with level instrumentation, are provided on single-point lift frames for ease of handling and for a quick installation.
- **COMPLETE SYSTEM PACKAGES** - C'treat can integrate many or all of the above systems one skid, fully piped and tested.





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