

2'treat

rustabout™ Rentals

Reverse Osmosis Watermakers for
the Marine and Offshore Market



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ENGINEERED FOR LIFE

Overview

The ROustabout™ by C'treat is a dependable, rugged, and standardized reverse osmosis watermaker designed specifically for the marine and offshore markets. This versatile piece of equipment has the capability of producing from 4,000 to 20,000 USgpd (15 to 75 m³/day) of potable water from seawater.

Designed for the world's most extreme conditions, the ROustabout will give operators consistent volumes of fresh water on demand. With over 30 years of world-class service to this market and hundreds of installations offshore, customers can rest assured knowing their equipment is well proven.

The ROustabout uses field-proven technology and components. The simplicity and maintainability of design gives operators the highest level of confidence in fresh water quality and availability.

C'treat's Global Support Network is available to support the ROustabout and all C'treat products providing operators peace of mind.

Key Attributes

- Easy to use, PLC driver interface
- Chemical-free design
- Quick delivery
- Easily expandable to meet variable demand
- Three stages of pre-treatment to extend membrane life
- Corrosion resistant materials
- Automatic product water divert on high salinity
- Immediate availability upon startup
- Available for safe or hazardous environments
- Standard ports available for a membrane Clean In Place System
- Made with readily available and very standard parts
- Valve-less design to take the guesswork out of providing fresh potable water
- Meets or exceeds WHO requirements for removal of sediments, dissolved solids, and bacteria

Options

- Automatic Backwash Media Filter – An off-skid option which pre-filters and de-chlorinates the seawater utilizing activated carbon, resulting in extended membrane life. This PLC driven media filter requires no manual intervention for backwashing.
- Ultraviolet Sterilizers – an off-skid option to be utilized closest to the point of use. The UV lamps inactivate any chlorine resistant micro-organisms which may be found in the storage tanks.
- Pressure Sets – an off-skid option to distribute the fresh water about the vessel.
- Clean In Place System – an off-skid system that utilizes the boost pump to circulate cleaning chemicals through the membranes.

For custom designed systems, please contact C'treat to explore the full line of custom capabilities available.

"When your crew is miles from shore, there is no alternative to a safe and reliable source of drinking water."

Value

- Increase current fresh water supply for temporary higher water demand needs.
- Experience C'treat's world-class watermakers without the need of capital approval.
- Less expensive and more reliable than boating water/filling storage tanks at dock.
- Includes on-site training.
- Includes quarterly preventive maintenance inspections from our certified offshore service technicians.
- Multiple rental options to meet your length of contract and financial needs.



Features

Steel Frame

A light but rugged steel cage construction, with a three coat epoxy painting system and integral lifting eyes, encloses the watermaker components to protect them from a variety of dangers; from transportation, installation, and other equipment.



Piping System

For maximum corrosion protection; all low pressure fittings, valves, and Sch. 80 pipe are PVC, all high pressure pipe is welded and passivated duplex stainless steel, and all hoses are reinforced thermoplastics.



Axial Piston Pump

A high efficiency (up to 95%), Axial Piston Pump with minimal vibration and pulsation.

Corrosion resistant with wetted parts that are super duplex, polymer, or ceramic. All non-wetted parts are duplex, 316SS, or thermoplastic.

Compact design with all components in a single, sealed cartridge.

Mounted at waist level for easy, ergonomic preventive maintenance.



After Market Support

C'treat also offers a preventive maintenance program for each of its systems. Service personnel are factory trained to handle problem analysis and correction in the field.

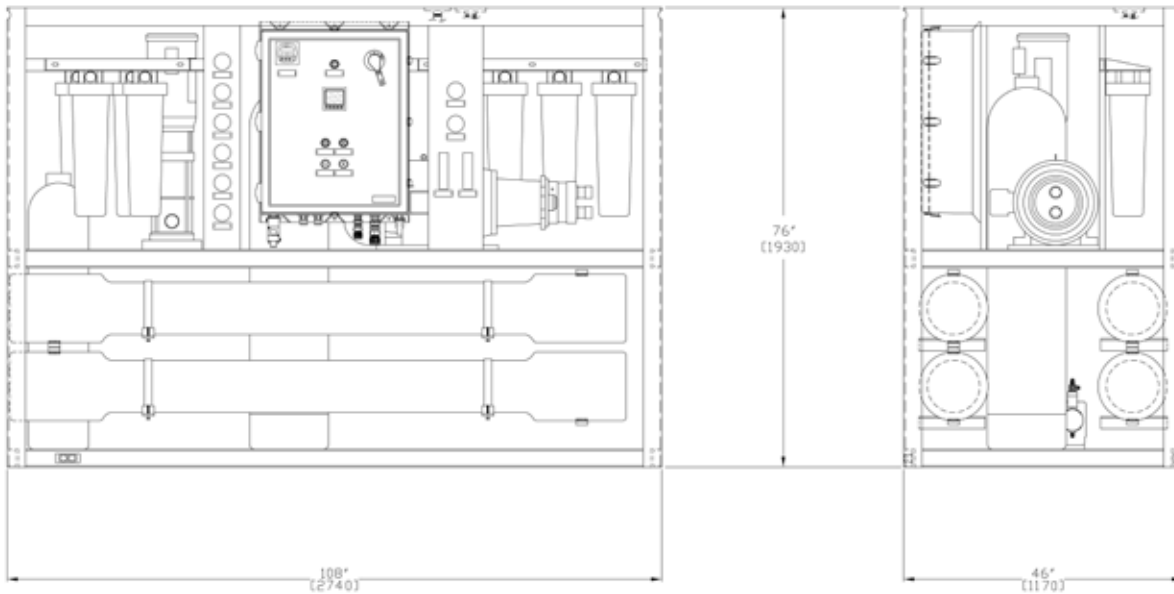
- Consumables included in Rental Day rate.
- Spare parts that become required due to normal use are available in Houston, Texas for quick delivery to the US Gulf of Mexico.
- Technical Support available 24 hrs/day to answer your questions at operatorsupport@ctreat.com.



Optional hands-free activated carbon media filter

Visit our website at

www.ctreat.com or call 281.367.2800



| Model | Flow | | | | Shipping Weight | | Recommended Number of Personnel on board |
|---------------|--------------|----------------------|--------------|----------------------|-----------------|-------|--|
| | 60 Hz | | 50 Hz | | Lbs | Kg | |
| | USgpd x 1000 | m ³ / day | USgpd x 1000 | m ³ / day | | | |
| ROustabout 10 | 4 - 10 | 15 - 38 | 4 - 8 | 15 - 32 | 2,250 | 1,020 | 40-100 |
| ROustabout 14 | 10 - 14 | 38 - 53 | 8 - 12 | 32 - 44 | 2,500 | 1,130 | 100-140 |
| ROustabout 18 | 14 - 18 | 53 - 68 | 12 - 15 | 44 - 57 | 2,800 | 1,270 | 140-180 |
| ROustabout 20 | 18 - 20 | 68 - 76 | 15 - 17 | 57 - 63 | 3,100 | 1,410 | 180-200 |

Notes:

- Flows are for all seawater conditions
- Required seawater flow is 42 USgpm (9.5 m³/hr)
- Required power is 30 hp (22 kw) or, with seawater boost pump option, 33 hp (25 kw)
- Allowable voltages are 3 phase: 380 – 415 volts (50 Hz) and 440 – 480 volts (60 Hz)

Additional on-skid supply (options):

- C’Klor – on-skid disinfection system used for supporting the requisite residual disinfection of the downstream potable water storage tank.
- C’Kal – on-skid pH neutralization for enhancing the palatability of the product water.
- Boost pump – on-skid supplementary pressure to support the watermaker when available line pressure is not sufficient.

| Connection | Size | |
|----------------------|--------|----|
| | Inches | DN |
| Seawater Inlet | 1 1/2 | 40 |
| Brine Reject / Drain | 1 1/2 | 40 |
| Product Outlet | 1 | 25 |
| Air Inlet* | 1/2 | 15 |

Notes:

Connections are ANSI 16.5 Cl 150 FF flanges
 * Air connection is NPT female and only required for electrically classified areas

