

UHP Water System

C'treat's Ultra High Pressure (UHP) Water System is custom built to our customer's needs to support UHP water blasting on offshore platforms or rigs. Once supplied with seawater, this system produces freshwater, stores it, then transfers the fresh water on demand to the UHP water systems. This system can also be customized to provide potable water for living quarters, flotels, etc.



Watermaker Features:

- Automatically fills water storage tank based on storage tank water level
- Produces 21,000 USG/day (500 BPD) of fresh water from seawater
- 1st stage filtration removes suspended solids down to 5 micron
- 2nd stage filtration removes suspended solids down to 1 micron for extended pump and membrane life
- Spiral wound thin film composite reverse osmosis elements remove 99.7% of total dissolved solids (TDS)
- Automatically diverts product water on high TDS

Pump Features:

- Duplex / Super Duplex stainless steel construction
- Nine-piston wobble plate design to minimize vibration and pulsation
- Self-lubricating oil free design
- 8000 hours of maintenance free operation
- Required feed rate – 44 gallons per minute

Storage Tank Features:

- HDPE UV-stabilized construction to minimize weight
- 1800 gallon capacity
- External sight gauge and level transmitter to read water level
- Internally baffled for additional strength
- 22" diameter manway access for tank inspection

Water Distribution Features:

- Automatic start / stop of water distribution based on user demand
- Bladder tank minimizes distribution pump starts and stops as well as water hammer
- Flow rate of 30 gallon per minute at 60 PSI (customizable)

Electrical:

- Designed for Class 1 Div 2 , Groups BCD
- NEMA 7/4X starter box
- NEMA 4X control panel
- 30 HP (22 kW) - 480 V / 3ph / 60Hz - NEMA Premium Efficiency Motor
- 2 HP Booster pump for water distribution
- TEFC IP55 motor enclosure

Structural:

- Dimensions: 138" x 90" x 112" (L x W x H)
- Dry weight = 7800 pounds
- Top corner lifting lugs (pull tested)
- Fork lift pockets
- Carbon steel frame with three-coat epoxy paint with certified pull test to 2 times dry weight
- Anti-vibration mounts on high pressure pump to minimize vibration and harmonic transmission to the frame
- Certified slings and shackles available

Applications:

- Designed with UHP blaster companies in mind
- One package that meets all of your water needs to supply your teams and equipment with the fresh water needed to blast offshore equipment and infrastructure before applying new coatings
- Also ideal for offshore platforms, living quarters, flotels, etc to provide potable water for utility use
- Customizable to meet your flow and water quality requirements for unique applications

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