

# OCEAN PURE

## PREMIER CONTAINERIZED REVERSE OSMOSIS DESALINATION SYSTEM

### Redefining Excellence in Seawater Desalination

Ocean Pure is an advanced containerized reverse osmosis (RO) desalination system developed by **dask Jalmart Pvt.Ltd** to deliver reliable and high-efficiency freshwater production from seawater. Designed for durability and flexibility, it combines modern desalination technology with robust industrial construction.

Suitable for offshore, industrial, municipal, and emergency applications, Ocean Pure ensures consistent performance and scalable water output in challenging environments.



GET A QUOTE

### UNMATCHED TECHNOLOGICAL EXCELLENCE

#### 1 PRECISION ENGINEERED CONTAINERIZED DESIGN

- **Global Deployment:** Ocean Pure is available in standard 20-foot and 40-foot ISO containers, allowing easy transportation and quick installation worldwide. Its modular structure enables smooth integration into both remote and urban water treatment systems.
- **Built to Last:** The system is manufactured using marine-grade 316L stainless steel, offering excellent resistance to corrosion and harsh environmental conditions. This ensures long-term reliability, even in demanding marine and industrial settings.

#### 2 STATE-OF-THE-ART REVERSE OSMOSIS TECHNOLOGY

- **High-Performance Membranes:** Ocean Pure uses advanced thin-film composite (TFC) membranes designed for high desalination efficiency and reduced fouling. The multi-stage membrane configuration enhances water recovery and maintains consistent output quality.
- **Flexible Capacity:** The system is available in capacities ranging from 10 m<sup>3</sup>/day to 500 m<sup>3</sup>/day, with options for expansion. This flexibility makes it suitable for both small installations and large-scale desalination projects.

#### 3 ADVANCED PRE-TREATMENT AND ENERGY EFFICIENCY

- **Comprehensive Pre-Treatment System:** A multi-layer filtration system using sand, gravel, and activated carbon removes impurities before the RO process. This protects membranes and improves overall system performance and lifespan.
- **Cutting-Edge Energy Recovery:** Ocean Pure incorporates efficient energy recovery devices, such as pressure exchangers or turbines, which can recover a significant portion of energy from the reject stream, reducing operating costs and energy consumption.

#### 4 SOPHISTICATED CONTROL AND AUTOMATION

- **Advanced PLC System:** The system features a PLC with an intuitive HMI interface for easy control, monitoring, and system management. Operators can track performance and make adjustments in real time.
- **Remote Monitoring Capabilities:** Integrated SCADA functionality allows remote access for monitoring, diagnostics, and performance analysis via secure internet or VPN connections.

#### 5 ROBUST OPERATIONAL FEATURES

- **Automated Cleaning-In-Place (CIP):** The automated CIP system ensures effective membrane cleaning through programmed cycles, helping maintain efficiency and extend component life.
- **Enhanced Safety Protocols:** Ocean Pure includes safety features such as pressure monitoring, alarms, emergency shutdown systems, and automatic isolation valves, ensuring safe and reliable operation.

### VERSATILE APPLICATIONS

Ocean Pure is designed for use in a wide range of environments:



#### Offshore Platforms

Provides a dependable freshwater supply in remote marine locations.



#### Emergency Response

Supports rapid deployment for disaster relief and humanitarian operations, ensuring access to safe drinking water.



#### Industrial Applications

Supplies high-quality water for industrial uses such as cooling, boiler feed, and manufacturing processes.



#### Defense and Military

Offers portable and reliable desalination solutions for operations in remote or challenging conditions.



#### Municipal Water Supply

Helps supplement urban water systems in areas facing freshwater shortages, supporting sustainable water management.

### THE *dask* JALMART ADVANTAGE

Ocean Pure combines efficient desalination technology with a durable containerized design, delivering reliable performance and energy savings. Its scalability and adaptability make it a practical solution for diverse desalination needs worldwide.

For customized configurations and detailed information, connect with the experts at **dask Jalmart Pvt.Ltd**



High Efficiency & Reliability



Energy Saving



Scalable Solutions



Durable & Corrosion Resistant



Global Deployment

### FREQUENTLY ASKED QUESTIONS

- Q1** What is Ocean Pure used for?  
Ocean Pure is used to convert seawater into potable water using reverse osmosis desalination technology.
- Q2** What capacity range does Ocean Pure offer?  
Ocean Pure offers capacities ranging from 10 m<sup>3</sup>/day to 500 m<sup>3</sup>/day, with options for expansion.
- Q3** Is the system suitable for offshore applications?  
Yes, Ocean Pure is specifically designed to operate in offshore and other challenging marine environments.
- Q4** How does Ocean Pure reduce energy consumption?  
The system uses advanced energy recovery devices such as pressure exchangers or turbines, which recover energy from the reject stream, reducing overall power consumption.
- Q5** Can the system be operated remotely?  
Yes, Ocean Pure features integrated SCADA and remote monitoring capabilities, allowing secure access for monitoring, diagnostics, and performance management.

### Get Advanced Water & Wastewater Treatment Solutions

We design and deliver high-performance STP, ETP, RO & WTP systems with containerized and modular technology for fast installation, water reuse, and regulatory compliance.

GET CUSTOM SOLUTION →



Fast Deployment  
Quick Installation with minimal civil work



Water Reuse  
Treated water suitable for flushing & cleaning



Smart & Automated  
IoT-enabled monitoring for efficient operation

