

Clean Water Unit (CWU)

Modules

Pre-filter:

Pre-filter: removes particles larger than 50-200 micron

Air supply:

Produces high quality oxygen from ambient air

AOP: (Advanced Oxidation Processes)

Oxidation of organic and inorganic matter

Ultraviolet (UV) system:

Works as catalyser in the oxidation process

Retention tanks:

Ensures optimum ozone reaction time

Ceramic membrane:

Ultra filtration of oxidized matter

CIP

Automated chemical cleaning of membranes

Back flush:

Automated cleaning of ceramic filter

Active Carbon:

Completes the oxidation cycle

Reverse Osmoses pre-filtration:

Prevents carbon residue downstream

Reverse Osmoses:

Pressurized flow of different solute concentrations across a membrane

pH adjustment

Sunstone's self-contained mobile unit for water purification, high processing volumes and easy-to-use operation systems.

Versatile user scenarios

The Clean Water Unit is designed for a number of purification scenarios including surface water, saltwater intrusion, energy-water reclamation and disaster relief for emergency water Usage.

Sunstone can customise the unit configuration to the specific water treatment needs through predefined modules. It can also be used within industrial process industries.

Worldwide delivery

The modules are mounted on a steel frame that allows for easy transport and relocation regardless of whether it is shipped by air, sea, rail or over-the-road.

The unit is temperature controlled for optimum production climate in hot or cold weather

Technical information



Container type	40 feet mobile reefer container
Container measurements	Length= 40', 12.2 meter
	Height= 9'6, 2.9 meter
	Width = 8', 2.4 meter
Built in a complete frame	Stainless Steel Frame
Weight excl. Cooling Container	10,000 kg (20,000 Lb)
Weight incl. Cooling Container	14.500 kg (29.000 Lb)
Weight in Purifying Mode (W/ Water)	30.000 kg (60.000 Lb)
Power consumption	Brackish water: 0.75 - 1.2 kw/m ³
<i>(Depending of water source)</i>	Sea water incl. recovery 2.55 kw/ m ³ , excl. recovery max 4.5 kw/m ³
Power supply	400-480 Volt AC, 3 Phase, 40-60 Hz
Capacity (inlet)	20 m ³ /h, depending on water source
Durability	Can withstand an earthquake
Cleaning	The system can back flush (CIP)

**Explore
CWU**



Easy operations

The unit can be operated and controlled off-site.

An online remote monitoring system lets you access real-time and saved data.

Adjust set-points and receive operational warnings/alarms.

Control and schedule maintenance.

