

Special Designs



Special design OZTI water purification systems are the best solutions to produce large amounts of clean drinking water (up to 2000t drinking water per day.) The components are installed ready for operation in a 20 ft container.



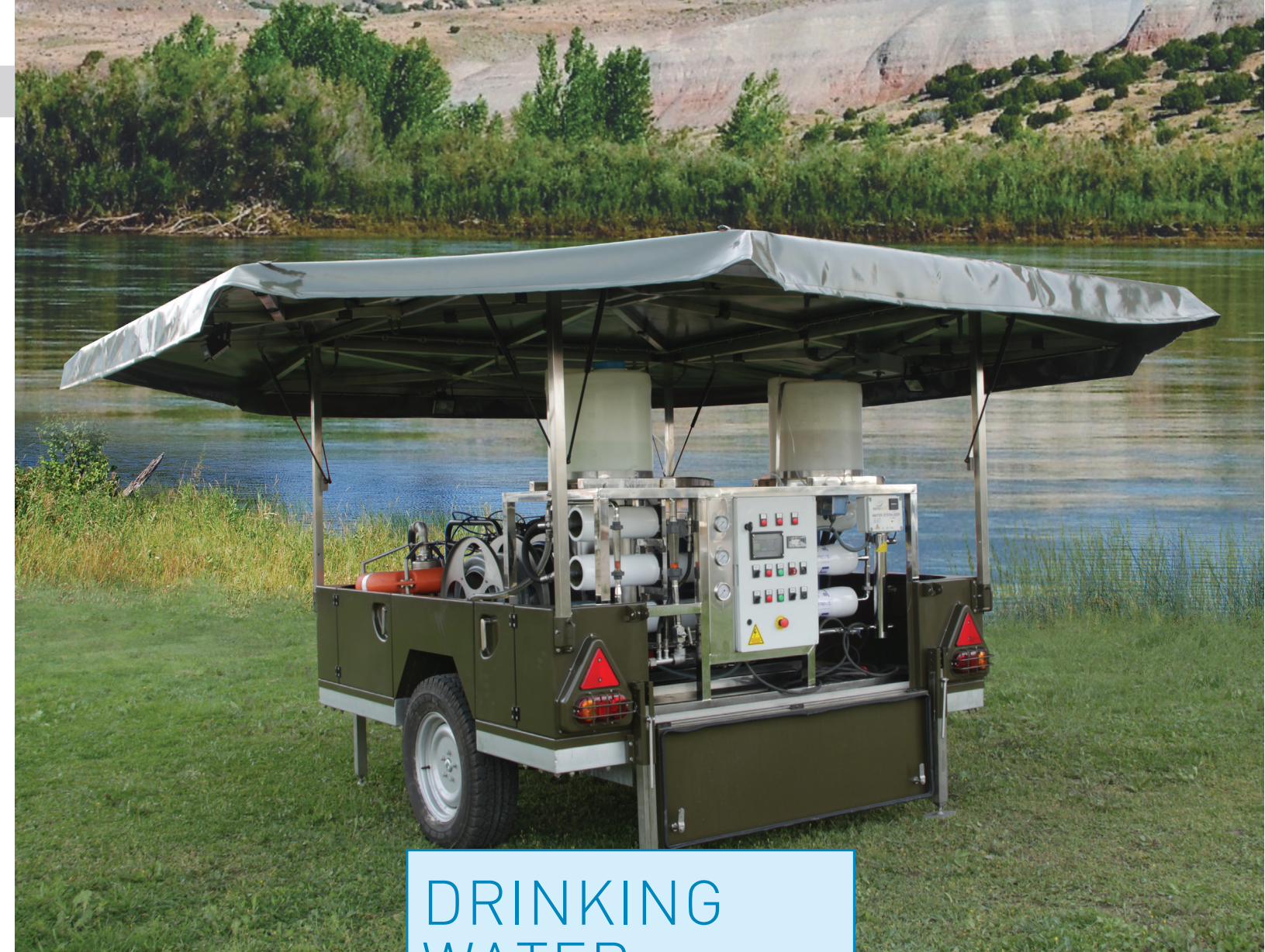
System Equipments:

- Generator
- Feed Pump
- Multi-Media Filter
- Reverse Osmosis Unit
- Ultraviolet Unit
- Post-Chlorination
- CIP unit can be added to clean the system periodically.

Design Criteria:

- TDS $\leftarrow$ 45000 ppm
- Min inlet pressure: 3 bar
- Inlet water pressure: 3-7 bar
- Inlet water temperature: 5-35 °C
- Inlet water ph: 6,5- 9,5
- Inlet water max Mn concentration: 0,05 ppm
- Inlet water max turbidity: 1,5 NTU
- Operating Pressure: 20 - 65 bar

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**DRINKING
WATER
PURIFICATION
SYSTEM**

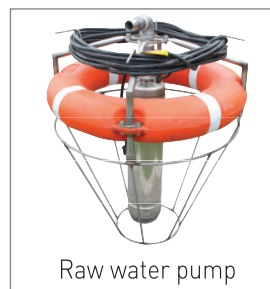
WHEREVER you are,
WHENEVER you need...

OZTI mobile water purification system produce drinking water from almost any creek, pond, lake or sea water. The system is based on the reverse osmosis technology and removes dust, heavy metals, organics and bacteriologic pollution without requiring toxic chemical treatment. OZTI Water purification system is quickly and easily deployed anywhere in the world and can operate indefinitely. The system is complete with trailer, borehole type pump, pre-filter, reverse osmosis unit, clean water tank and power generator. Permeate water quality and all equipments are controlled by PLC.



Process Flow:

- Raw water pump: Makes water intake from water source.
- Pre-filtration: Removes large particulate matter prior to purification treatment thus protects the membranes.
- Reverse Osmosis system with high pressure resistant membranes
- Ultraviolet disinfection provides additional safety and destroy all virus and bacteria
- Post Chlorination prevent the growth of bacteria



Standard Features:

- FRP vessels resisted to 1000 PSI
- 316L stainless steel line
- Membranes resisted to high pressure
- Production and waste flowmeter
- Operation manometers
- Dublex high pressure pump
- PLC control
- Online conductivity meter
- Stainless steel chassis
- Cleaning water tank

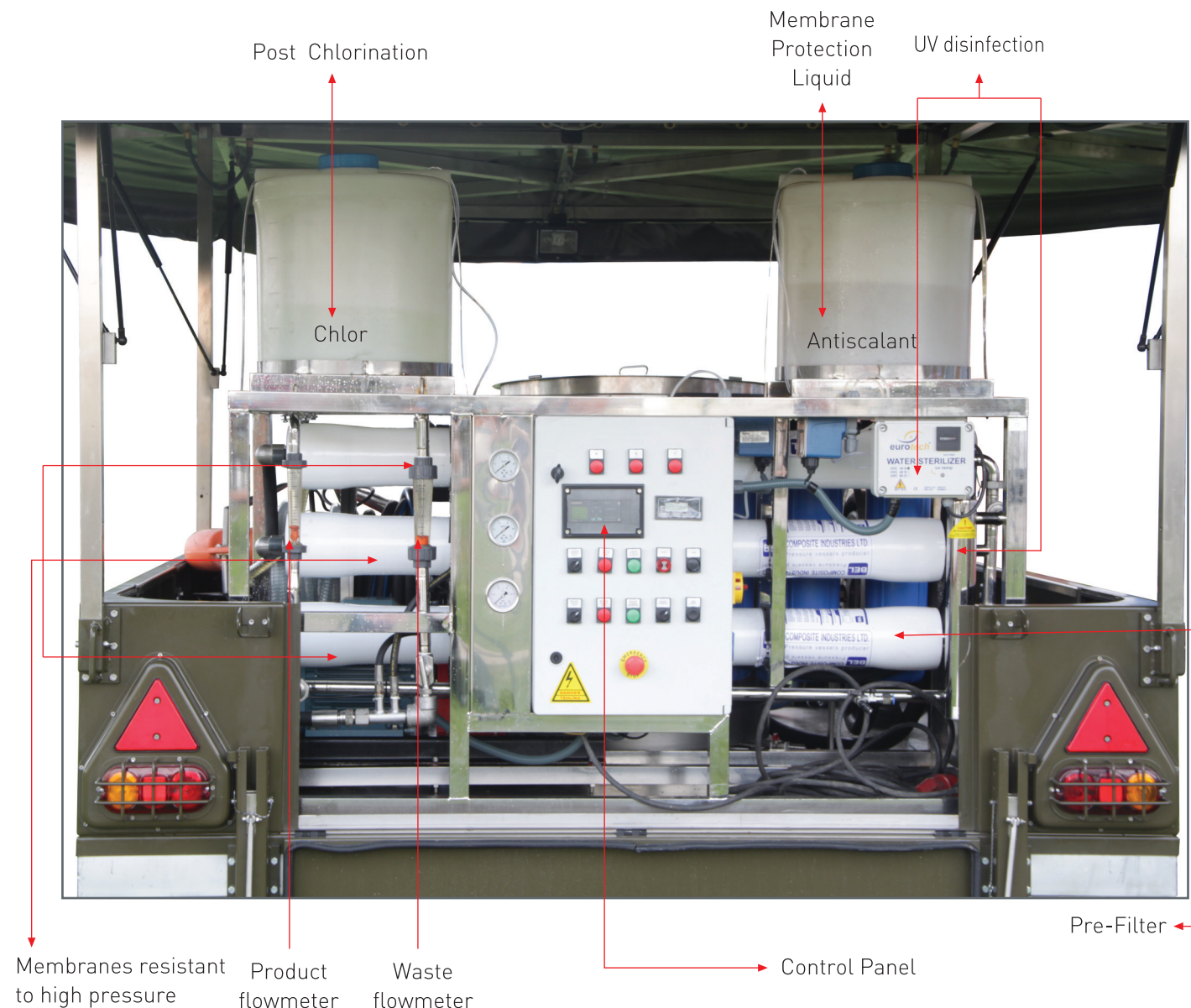
Trailer Technical Data:

Dimensions and Weight:

Net Weight:	approx.1350 kg
Overall length:	4235 mm
Overall width:	2170 mm
Overall height:	approx.2350 mm
Ground clearance:	250 mm

Chassis with frame:

Over running brake with automatic back-up lock	
Towbar height, adjustable	550-1050 mm
Retractable support wheel	1
Handbrake with breakaway cable	1
Asbestos-free brake linings	2
Tyres, 225/75 R16	2+1
NATO towbar eye, standard fitment	1
DIN towbar eye	on request



	OZTI RO S500 (Salty Water)	OZTI RO F600 (Fresh Water)
Production at fresh water	max 600 lt/hr	max 600 lt/hr
Production in the sea water flow	max 500 lt/hr	N/A
Recovery at fresh water	25%	25%
Recovery at sea water	20%	N/A
3 Step Pre-filtration	80µ, 5µ sediment filter, blok carbon filter	80µ, 5µ sediment filter, blok carbon filter
High pressure pump flow	2.5 m3/saat	4.5 m3/saat
High pressure pump power	5.5 kw	2.2 kw
Membrane pcs.	3	2
Raw water temperature	+5°C +35°C	+5°C +35°C

Design Criteria:

- TDS < 45000 ppm (sea water)
- TDS < 20000 ppm (fresh water)
- Min inlet pressure: 3 bar
- Inlet water pressure: 3-7 bar
- Inlet water temperature: 5-35 °C
- Inlet water ph: 6,5- 9,5
- Inlet water max Mn concentration: 0,05 ppm
- Inlet water max turbidity: 1,5 NTU
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POWER	10 kVA	7.5 kVA
ENGINE TYPE	4-STROKE DIESEL	4-STROKE DIESEL
COOLING SYSTEM	AIR COOLED	AIR COOLED
FUEL CONSUMPTION	2.96 l/h	2.32 l/h
ALTERNATOR TYPE	MONOPHASE	MONOPHASE
CONTINUOUS VOLTAGE	220-240 V	220-240 V
CONTINUOUS FREQUENCY	50 Hz.	50 Hz.
FUEL TANK CAPACITY	16l.	16 l.