

Pure Water Everywhere!

Mobile & Compact Units from 200 m³/day



CONTAINERIZED TURNKEY WATER PLANTS

DESALINATION
SEA AND BRACKISH WATER
REVERSE OSMOSIS

- High-pressure Reverse Osmosis to remove dissolved solids including minerals, and reduce the conductivity/total dissolved solids (TDS) to meet potable needs.
- World Health Organisation drinking water quality

Advantages

Turnkey unit ready to connect (plug in, out, reject)
Fully automated control, easy to operate
Low operating costs – Mobile and easy to move.
Pure water from 200 to 2000m³/d in one unit!

Applications

Seawater, groundwater, boreholes with inadequate salinity, ponds, marsh and surface water resources (river, lake) polluted.
Salt water wedge and salinity variation

PURIFICATION
SURFACE WATER, BOREHOLE
ULTRAFILTRATION

- Low pressure membrane technology to separate fine particulates, solids and a majority of bacterial/viral contaminants
- 1000 times more effective than sand filters!
- Purify and clarify in one step





Ultrafiltration Technology

as a low pressure membrane process, helps to clarify and disinfect water in one step, and separate solids and a majority particulate sizes exceeding 0.01 micron.

Pollen, parasites, algae, bacteria and viruses are eliminated, and also pollutants and most of the mineral colloids.

FLEXONIC® patented algorithm for real-time salinity and turbidity management, allows production to be adapted to salinity variations.

Guaranteed performance

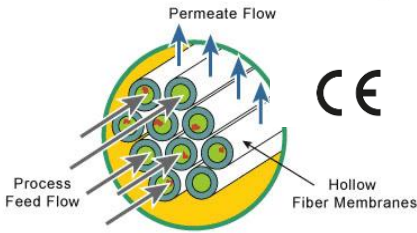
drinking water quality

Turbidity <0.1 NTU

Virus (99.99%)

Bacteria (99.999%)

TOC - 65%



Reverse Osmosis General Design

Long life **high quality pressure pumps**

Robust Membrane

from premium manufacturer

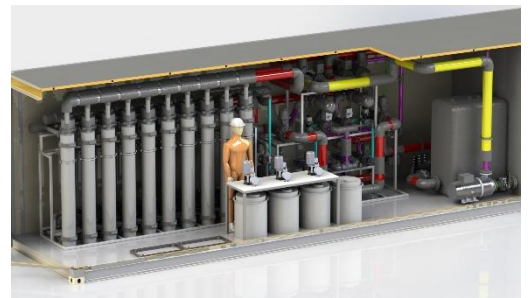
Automatic plant with PLC

Energy recovery integrated system

40' High Cube maritime container isolated, air-conditioned and tropicalized, **resistant to aggressive environments.**

from 20 m³/h up to 100 m³/h

| Technical characteristics | SeaWater | Brackish | Surface Water |
|--|--|---|--|
| Production capacity Max hourly rate | 500m ³ /day 20m³/h | 1000m ³ /day 40m³/h | 2000m ³ /day 100m³/h |
| Conversion Rate | 45% | 75% | 95% |
| Dim: L12m - l2,4m - H2,9m | 40'High cube | 40'High cube | 40'High cube |
| Raw water quality max | 40,000 TDS | 10,000 TDS | 200 NTU |
| Pure water quality | WHO certified | WHO certified | WHO certified |
| Energy consumption kWh/m ³ | 3,5 kWh | 2 kWh | 0,5 kWh |
| Electrical Power | 100 kVA | 90 kVA | 35 kVA |
| Total Weight | 9000Kg | 8000Kg | 6000Kg |
| Connection : in/out/rejet | DN80 / DN65 / DN65 | DN100 / DN80 / DN50 | DN150 / DN150 / DN200 |



CHEMDOCWATER is a manufacturer of **containerized mobile water** treatment units, compact size and low energy consumption adapted to **tropical** and **desert** conditions. Certified equipment meeting the **most stringent standards.**

Our project engineering department allows us to respond to the most complex needs of our industrial customers, water treatment professionals, engineers and public buildings managers.

www.chemdocwater.com

