



### 1. DESALINATION PLANT 2.3 m<sup>3</sup>/day (DSM2.3)

Mobile water treatment plant DSM2.3, for sea water, by reverse osmosis and fed mainly by photovoltaic energy.

It consists of a single **hydraulic + energy block**. The assembly time is less than 24 hours.

The hydraulic block is a water treatment plant; it transforms seawater providing drinking water treated with chlorine for human use.

This unit uses solar energy (solar panels) or conventional energy (generator or electric grid connection) to power the hydraulic block.

### 2. PLANT CHARACTERISTICS

SOURCE OF THE WATER TO BE TREATED:	<b>Sea water in tank, minimum 20 m<sup>3</sup> / day</b>
PRESSURE OF THE WATER TO BE TREATED:	<b>2.5 bar</b>
TDS. POWER:	<b>42,000 mg / l</b>
TDS. PERMEATED:	<b>&lt;350 ppm</b>
TREATED FLOW:	<b>2.3m<sup>3</sup> / day</b>
DUTY CYCLE:	<b>23 hours a day.</b>
ENERGY CONSUMPTION:	<b>33 kWh / day</b>

The energy block allows operation during 23 hours a day, time needed to make water drinkable, keeping sewage service even at night, thanks to the electric batteries that are recharged daily.

On days when solar energy is insufficient, they have a battery life of 8-16 hours, being the water supply determined by the capacity of the regulating reservoir. This reservoir can absorb water consumption peaks, specific solar lacks and keep residual chlorine required for human consumption. The ideal capacity of the reservoir according to the drinking water production of the plant is 12.5 m<sup>3</sup>

### 3. PHOTOVOLTAIC TREATMENT PLANT, COMPONENTS AND SYSTEMS



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