



SFC Umwelttechnik

clean water for the world

C-MEM ZERO SOLAR



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1. C-MEM ZERO SOLAR

C-MEM ZERO SOLAR is a smart and easy way to produce high-quality drinking water through ultrafiltration membranes without:

- *Fixed electrical energy connection*
- *chemicals*

C-MEM ZERO SOLAR can produce drinking water out of almost every water source such as:

- *rivers & ponds*
- *wells or*
- *groundwater*

C-MEM ZERO SOLAR is a light modular mobile skid and can be used for:

- *Remote villages*
- *Provincial hospitals*
- *University and High School campuses*
- *Remote army training and outdoor camps*
- *Disaster relief*

2. PRINCIPLE

C-MEM ZERO SOLAR uses solar energy for energy supply and organic hollow fibre membranes with micro-pores (average pore size 20.1 nm) as filtration media.

The membrane acts as physical barrier and rejects

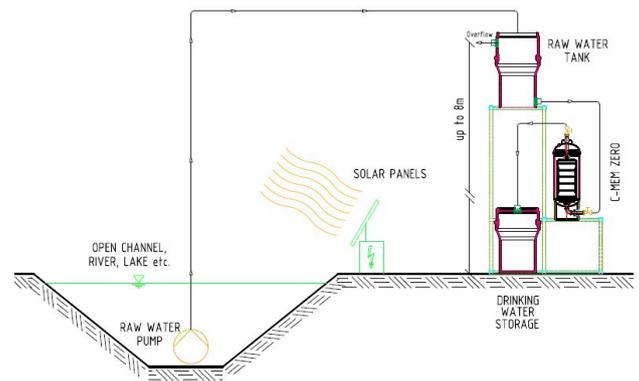
- *suspended solids (to less < 0.2 NTU)*
- *bacteria & viruses, parasite worm eggs (4-7 log)*
- *Fe, Mn, As (with pre-oxidation process)*
- *Pesticides (with activated carbon)*

Limits of application

- *Soluble organic and inorganic substances.*

3. PROCESS DESCRIPTION

C-MEM ZERO SOLAR works without fixed electrical energy connection and is driven by geodetic pressure and solar energy (up to 8 m of head).



The skid consists of a filtration vessel with integrated ultrafiltration membranes, a solar panel and a solar driven pump. For water production the skid just needs to be connected to a higher located raw water tank, which is filled by the solar driven pump. The raw water will enter the skid by gravity and will be cleaned by the ultrafiltration membrane cartridge inside the filtration vessel. Water production is up to 8,000 L/day per unit.

4. CONTACT

For further information, please contact:



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SFC is an ISO 9001/2008 certified company. C-MEM Zero is completely assembled in integrative companies with challenged persons.