



SFC Umwelttechnik

clean water for the world

C-MEM ZERO Activated Carbon



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1. C-MEM ZERO Activated Carbon

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

- *electrical energy*
- *chemicals*
- *pumps, blowers, etc.*

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

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

C-MEM ZERO Activated Carbon 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 Activated Carbon uses organic hollow fibre membranes with micro-pores (average pore size 20.1 nm) as filtration media and activated carbon as adsorbent.

The combination of the two units rejects

- *suspended solids (< 0.2 NTU, by membrane)*
- *bacteria & viruses, parasite worm eggs (4-7 log, by membrane)*
- *Fe, Mn, As (with pre-oxidation process)*
- *Pesticides (by activated carbon)*
- *Soluble organic and inorganic substances (by activated carbon)*

3. PROCESS DESCRIPTION

C-MEM ZERO Activated Carbon works without electrical energy and is driven by geodetic pressure only (up to 8 m of head).

Optional feeding by solar driven pumps is possible.

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The unit consists of a filtration vessel and an activated carbon vessel. For water production the unit just needs to be connected to a higher located raw water tank. The raw water will enter the unit by gravity and will be cleaned by the ultrafiltration membrane cartridge and the activated carbon. 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.