

The Technology.

Winture requires no diesel generator or grid connections to work. All components are designed to work with DC electricity input from solar panels. A relatively small solar array provides enough electricity for the system to run, resulting in a perfect island solution.

A variety of pre-filtration methods takes all non-dissolved particles out of the intake contaminated water sources producing drinking water free from organic and inorganic contaminants. A UV lamp as well as possible ozone treatment kills 99,9% of all viruses and bacteria.

A high-pressure pump pushes the water through reverse osmosis membranes, where the dissolved salts are separated from the water.



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Capacity

from 1,000 l/h up to 40,000 l/h

Filtration Technology

simplified reverse osmosis (RO)

Raw Water Source

seawater, brackish water, surface water, wastewater

Contamination

organic and inorganic, fluoride, chloride, salinity up to 50,000 TDS

Quality of Produced Water

TDS: 50 ppm - 300 ppm

AFFORDABLE SOLAR WATER DESALINATION

KfW
AWARD
2019
GRÜNDEN



سقى الإمارات
UAE WATER AID



The Winture® Planet Cube

is a robust water desalination system developed by Boreal Light. It can produce drinking and irrigation water directly from high saline water sources - 100% from solar energy.

It is designed to perform under the harshest climate conditions in the remotest parts of the world. The standard Winture solutions provide from 100 liters up to 40,000 liters of hygiene drinking water per hour.

The permeate water has drinking water quality. It can either be filled by hand, with a Water-ATM System or be distributed by piping systems.

The operation of Winture Planet Cubes installed around the globe, is under 24/7 live surveillance from Boreal Light GmbH's monitoring office in Berlin to guarantee the optimum performance of the systems.



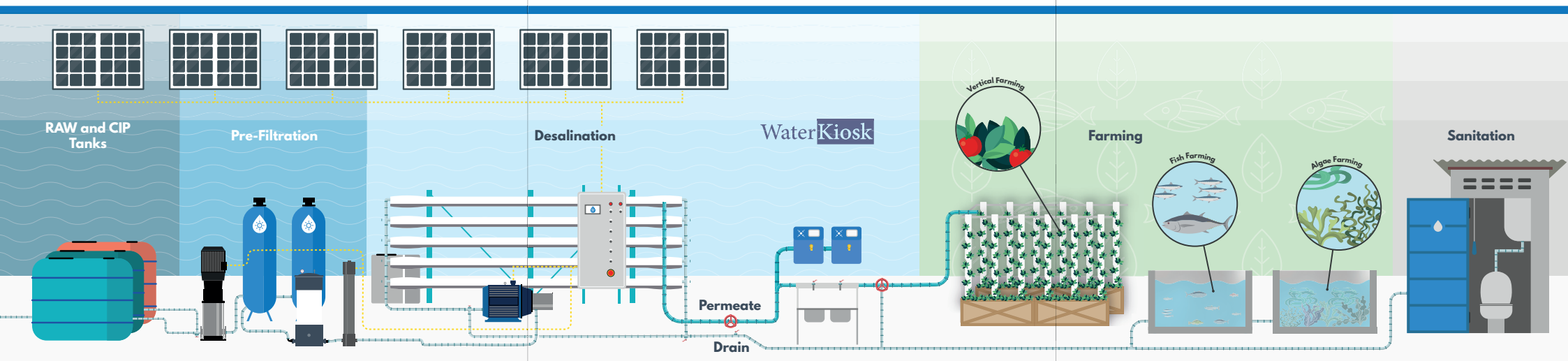
The Integrated Approach.

An attachable vertical farming plant is automatically irrigated with the high quality permeate water.

The chemical-free drain water is usable for fish farming of saltwater fish, as well as algae farming or as sanitation water for showering, hand washing or toilet flushing.

Our Competences.

- 1 Simplicity** - Simplifying a technology that is always known to be complex. Any trained person with a wrench and a screw driver can take care of over 80% of the maintenance.
- 2 Affordability** - Thoroughly designed for low-income communities with all their needs and requirements. Reducing the costs of access to drinking water by 90%.
- 3 Off-grid** - Entirely off-grid solution powered by solar energy and does not require expensive battery banks, inverters or diesel engines.



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