



ENVIRO-PURE FOUNDATION

PRESENTS:

"SAFE WATER IN ONE STEP FROM RIVER TO TAP"

WHERE WE COME FROM:

The Netherlands is famous for its expertise in solving water-related issues, such as flood-control, land-reclamation, protection against sea-water intrusion as far back as 1150 AD, almost 900 years ago!

ENVIRO-PURE FOUNDATION is a successful enterprise with Ultraviolet(UV) Disinfection and Ultrafiltration(UF) solutions based on > 40 years of experience, supported by universities and other knowledge centres from our world-wide network as active members of IDA, IWA, FIGAWA, Ö-Norm and IUVA. Our systems have been installed in countries in Africa, Asia, Europe, Middle East, and South-America, producing day-in-day-out, clean and safe drinking water to WHO-standards. Together with highly specialized and experienced partners in **Europe, Asia and Australia** we offer a full range of unique water-treatment systems that **excel in simplicity, performance, lowest operational costs and low maintenance**, designed for use in tropical environments even in the most remote areas.

Lowest energy-requirement, highest yield, lowest reject, fully automated. Field Tested and Approved, easy to transport, install and operate, locally supported by experts.

We cooperate with others; **we don't need to re-invent the wheel!** With well-established partners, and a network of well-trained regional or national distributors and representatives we provide safe and clean water solutions for rural villages, small to medium sized cities, refugee-camps, shelters for disaster survivors, islands, hospitals, clinics, hotels, resorts, condominiums, villa's, dairy-farms, beverage-industry etc. using the most **appropriate** technologies.

PRODUCTS and PARTNERS:

smartUF by **Akvoregia**, a Dutch design-, development- and consultancy-company with > 30 years of experience in manufacturing and application of UF-membranes for the water-, effluent-, and beverage-industry.

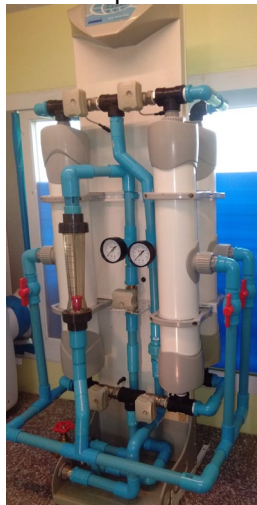
Fully automatic **smartUF** systems are available in capacities from 300-12,000 L/h.



smartBox
600 l/h



sUF5024/40
1,200-2,500 l/h



sUF-QUATRO-MMU
1,800- 3,600 l/h



sUF-DECA-MMU-SDE-TWIN
12,000 l/h from riverwater

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smartRO by **MOOR Filtration Technology**, another Dutch design-, engineering- and manufacturing-facility with a long track-record in manufacturing and supply of irrigation-systems of **Nexus RO** brackish-water filtration-systems, installed in Africa, Australia, Europe and S-America.



smartRO NEXUS-Simetra

A novel concept using patented connection blocks eliminating complicated and expensive SS high pressure fittings and hoses for RO-and NF-membranes. Modular, compact, short building times, low maintenance.

Designed for brackish ground- or surface-water with lowest reject.

Integrated communication module for 24/7 support, upgrading, trouble shooting.

In combination with UF pre-filtration highest yield and lowest operating costs. **Ideal for bottled water stations/ kiosks.**

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smartSEPARATOR: Purifying water from natural sources to produce safe, clean drinking water can be challenging, especially in remote areas and where no trained/schooled operators are available. To solve this problem other **smartSOLUTIONS** have been added to our program from worldwide renown manufacturers:



The MultiCyclone is a novel version of the well known hydrocyclone particle-separator. By using multiple small vortex inserts a very compact design with highest efficiency has resulted. We have adapted the MultiCyclone to work with our **smartUF** systems, removing > 80% of all particles > 30 micron from river water prior to UF, thus extending backwash intervals and removing the bulk of TSS/NTU without replaceable cartridges or other filter media. We developed a unique, simple system to supply filtered and disinfected water for personal hygiene, laundry, cleaning, toilet flushing etc. while at the same time producing drinking water to WHO-standards.

2 systems in 1

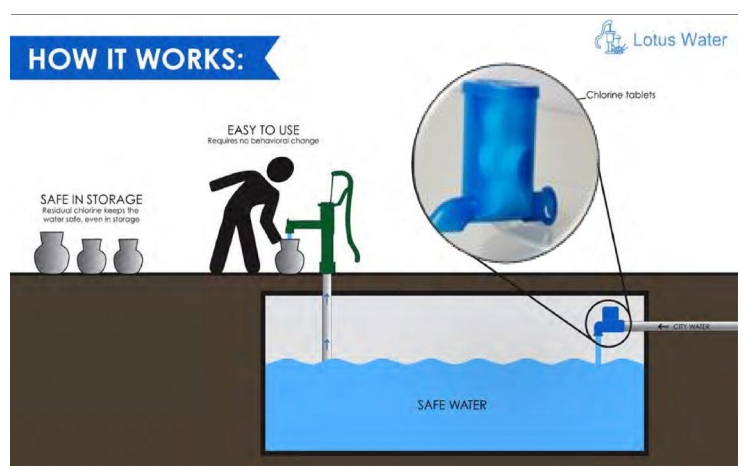
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smartDISINFECTOR

Following our philosophy: **"Make it Smart and Keep it Simple"** we have teamed-up with the world's largest manufacturers of disinfection tablets to preserve the quality of our perfectly clean drinking water after treatment. Chlorine, if used correctly without causing a serious taste problem, prevents re-contamination of safe water during storage and transport, in tanks, pipes, hoses and containers.

Slow dissolving tablets are safe to use by people without knowledge of chemicals, and easy to transport and store, contrary to liquid or powder chlorine and infinitely safer than chlorine gas. Our partners from Ireland manufacture a range of slow dissolving Cl tablets with millions produced annually and > 25 billion litres of water treated every year; internationally approved and certified, used by many NGOs.





Aquatabs InLine System in combination with *smartUF*, *smartSEPARATOR* and Flat Pak Tanks.

+ ***smartSTORAGE*, and *smartWTP***, in cooperation with our Australian partners we offer complete **WASH** solutions:
FLAT PAK TANKS, developed by GreenCo Water in Melbourne, Made in Thailand:

UNIQUE INVENTION TO COPE WITH LOGISTICS AFTER DISASTERS OR INSTALL SAFE WATER STORAGE IN REMOTE, HARD TO REACH LOCATIONS

Folding tanks that come in pallet-size boxes of 14 cm high and 26 Kg only, assembled in 10 minutes to form an insect-free water storage of 1,000 L! 14 tanks fit on a pallet to create 14,000 L of volume. Available from stock in Bangkok area; already installed all over Asia-Pacific.



+ ***smartWTP***, by **ENVORINEX** of **TASMANIA**, called **BIPU**:



BIPU, Lego-style blocks of **recycled** plastic with tough liners form compact easy to transport and install **SEPTIC** tanks, **PRIMARY & SECONDARY** treatment and **DESLUDGING** for Remote Locations, Refugee-Camps, Army-Facilities and Disaster Mitigation. BIPU's for 50,000 people were installed after the Tsunami in 2004 in Aceh-Indonesia and more in Papua New Guinea, East Timur(UN), Fiji's etc.

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smartPERFECTOR: RIVER WATER PURIFICATION for LARGE VILLAGES and CITIES:

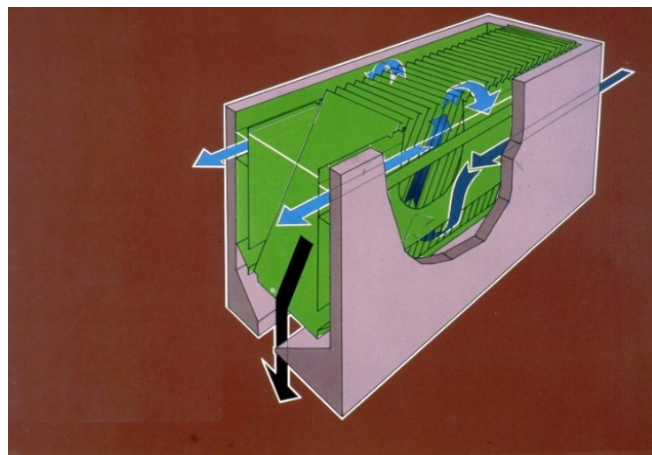
"SAFE WATER IN ONE STEP FROM RIVER TO TAP"

For governments wishing to provide citizens with clean water to **International standards** at 100-120 l/day/per person, our **smartPERFECTOR** is the optimal solution. Designed by leading drinking water experts in The Netherlands with > 40 years of experience.

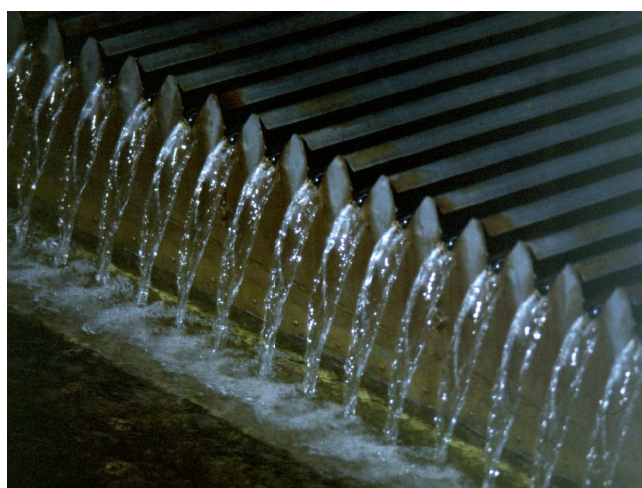
With only 50% footprint, and needing 50% of concrete the PERFECTOR has CAPEX of 50% of conventional treatment systems, and 70% of OPEX, copes with seasonal fluctuations of TSS in rivers up to 3,000+, AND is made with 80% ASEAN content.



Perfector mixing in 1 second



Optimized design of lamella-separator



TSS < 0.5, NTU < 0.3 even under high load



Compact **Perfector**: 50% less footprint

Australia, Indonesia, Ireland, The Netherlands and Thailand

Joining hands to offer the most appropriate and tested water technologies to the developing world.



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