

## GREY WATER TREATMENT & RECYCLING

**INTEWA AQUALOOP** - An automatic Greywater Treatment & Recycling System that makes it easy for every household to conserve precious water reserves.

AQUALOOP is a tertiary water treatment system with oxygenated biological degradation & patented ultra-filtration with organic membrane technology [0.2µm].

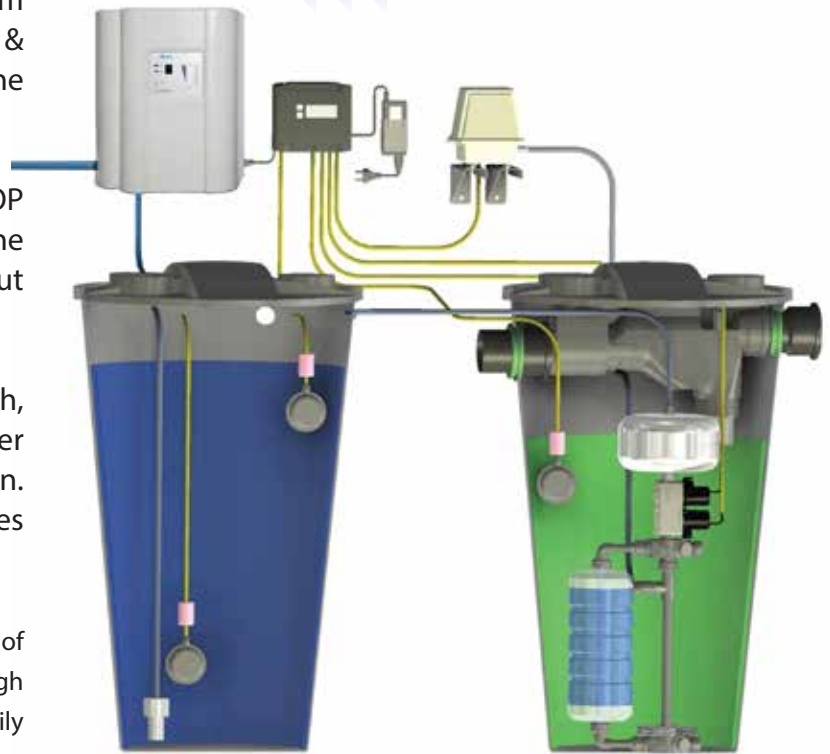
Simple to install and maintain, AQUALOOP produces germ-free high quality water with the safe removal of bacteria and viruses - without using chemicals!!

Treat your bathroom greywater (shower, bath, basin) with AQUALOOP to create clean clear water to reuse in your toilet, laundry or spray irrigation. A family of six could treat and reuse up to 450 litres of bathroom greywater every day!

The AQUALOOP system can also be used for the treatment of surface water, rainwater or groundwater - creating high quality drinking water. The AQUALOOP system is easily expandable to match daily water usage in residential homes or commercial buildings.

**INTEWA**  
INTEWA

**10**  
**YEAR**  
FILTER LIFE\*



*German Engineered and Manufactured*

# AQUALOOP

\*Depending on degree of utilization

**MODULAR | EXPANDABLE | LOW MAINTENANCE | NO CHEMICALS!!**

# AQUALOOP An Expandable Modular System

The AQUALOOP system consists of a few modular **components** that can be easily assembled as required. Depending on the quality of inflow water and its intended recycled use, the optimum AQUALOOP system can be selected from the modular components available:

## Components of the AQUALOOP SYSTEM

- PURAIN pre-filter**
- Growth bodies**
- Greywater storage tanks**
- Clean water storage tanks**
- AQUALOOP membrane station with controller and membranes**
- Blower**
- RAINMASTER pump station**

### 1. Pre-filter and Growth bodies

The PURAIN filter cleanses water with a high quality, break-proof, stainless steel wedge wire sieve with a gap width of 0.8mm. Its trapezoidal shape & diagonally set profile prevents dirt from settling and clogging. Includes automatic extraction of bottom sediment and floating debris via a skimmer.



The growth bodies provide ample space for a natural ecology of useful bacteria to develop and thrive, when combined with aeration - for excellent secondary biological treatment.

### 2. Two Tanks

The AQUALOOP prefilter and AQUALOOP membrane station can be integrated into almost any tank, regardless of whether it is situated indoors or outdoors. The system requires two tanks - one for the greywater and one for the clean water. These need to be sized correctly for your needs.



### 3. Membrane station with system control

The AQUALOOP membrane station is mounted within the greywater collection tank. This membrane station includes a platform for the mounting of membranes. A permeate pump, back-flushing pump, back-flushing tank and blower connection are all integrated.

The AQUALOOP membrane station can be flexibly equipped with up to six membranes, depending on the required amount of water to be recycled. Multiple membrane stations can be used in parallel - for higher water volumes.

Each membrane station contains a fully automatic system controller for operating and monitoring the pumps and blower. The blower simultaneously fulfils the jobs of membrane cleaning and supplying oxygen to the bioreactor.



## Amazing Membranes!



Patented AQUALOOP C-MEM membranes are the core of the water treatment process. The membranes' special hollow fibres are designed to effectively retain bacteria and viruses until it is automatically cleaned. This improves water quality without chemical additives such as chlorine. AQUALOOP's special design and water treatment process allow for a long service life of up to 10 years with only minimal maintenance.



### 4. Blower

The blower provides oxygen to the bioreactor. At the same time, an air current is passed through the hollow membrane fibres which allows optimal cleaning of the cartridge.

### 5. Pumping stations

Fully automatic, operating and monitoring stations combining pump, controller and built-in mains water top-up - so you NEVER run out of water! The recycled water can be pumped to the toilet, washing machine or outside irrigation.

*Treats and Recycles Water Daily*

***Safely use your water twice!***