

Installation kit for water treatment

# AQUALOOP

- ▶ British standard
- ▶ Ultra- and microfiltration
- ▶ Countless applications

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WATER, WE'RE IN OUR ELEMENT

INTEΨA

# AQUALOOP

Installation kit for water treatment



AQUALOOP recycles water irrespective of whether the input water comes from surface water, groundwater, runoff water from wastewater treatment plants, industrial wastewater or grey water from houses, source water, pools and swimming ponds etc.! AQUALOOP produces germ-free, bacteriological high quality drinking water\*.

## INNOVATION

### Installation kit

The AQUALOOP system consists of a few modular components that can be easily assembled as required.

- ▶ **AL Pre-filter**
- ▶ **AL Growth**
- ▶ **AL Membrane station, controller**
- ▶ **AL Membranes**
- ▶ **AL Blower**

### Amount of water to be recycled

An AQUALOOP membrane station can be equipped with up to six filtering membranes and different blowers, depending on the required amount of water to be recycled. Multiple membrane stations can be used in parallel for even higher water volume requirements. The installation of multiple membrane stations ensures high general plant safety at larger, commercial systems.

### Inflow water quality

Depending on the quality of inflow water and its intended recycled use, the optimum AQUALOOP system can be selected from the modular components available.

- The AQUALOOP pre-filter is used for filtering household grey water containing hairs and organic contaminants.
- With greater organic load of inflow water growth medium is supplied in the fluidized bed process for biological degradation. This is supplied with oxygen via the membrane station.
- Less organically contaminated water can be cleaned directly by the membrane station.



### Pre-filter and growth bodies

The AQUALOOP pre-filter and growth bodies provide a consistent improvement in the quality of organically contaminated water such as household grey water in the collection tank. This is achieved by biological degradation as well as by automatic extraction of bottom sediment and floating debris from the collection tank.



\*Other parameters for fulfilling the EU Drinking Water Directive require analysis.



## TECHNOLOGY



### Membranes

Patented AQUALOOP membranes are the core of the water treatment process. The membranes special hollow fibres are designed to effectively retain bacteria and virus. AQUALOOP can improve the water quality without chemical additives such as chlorine, which has proven hazardous to health. This is equally good for the environment and for your wallet. AQUALOOP's special design and water treatment process allow for a long service life of up to 10 years with only minimal maintenance.

### Membrane station with systems control

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 here.

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

### Tank

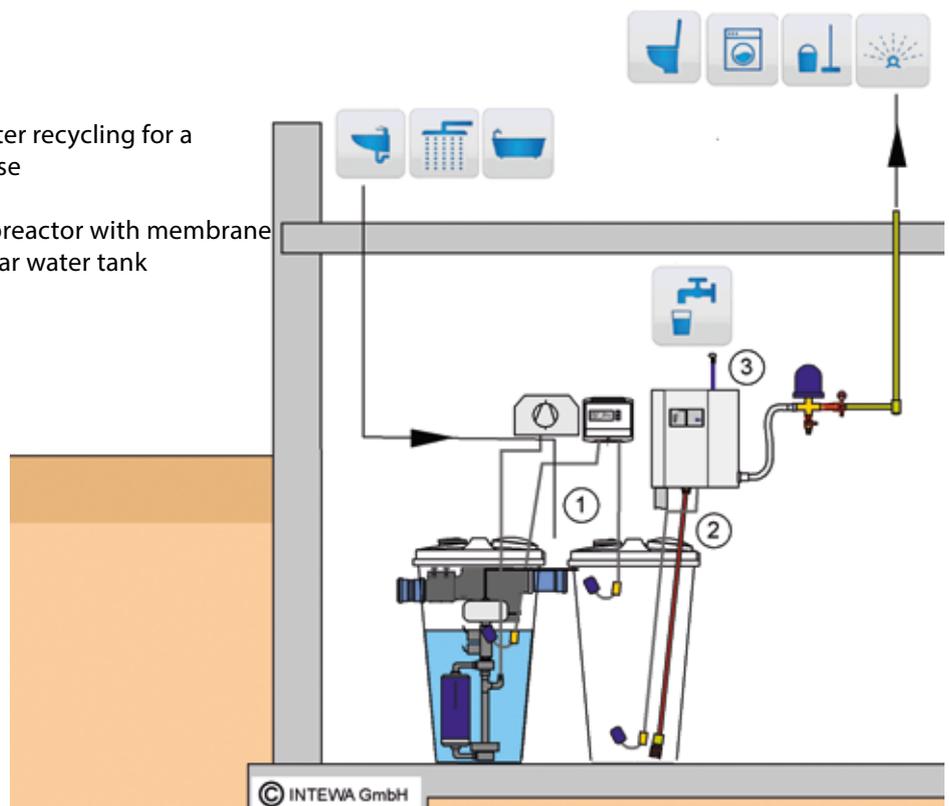
The water treatment plant's AQUALOOP prefilter and AQUALOOP membrane station can be integrated into almost any tank, regardless of whether it is situated indoors or outdoors.

### Water supply units

The recycled water is pumped throughout the house for uses such as toilet flushing, washing machine or irrigation via the RAINMASTER pump and control system.

Example: greywater recycling for a single family house

1. AQUALOOP bioreactor with membrane
2. AQUALOOP clear water tank
3. RAINMASTER



## REFERENCES

The AQUALOOP system is used worldwide for applications.



Your dealer:

[www.intewa.com](http://www.intewa.com)

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