

*Use your water twice – it`s  
the smart way!*

**AquaCycle® 900**

**PONTOS®**

**hansgrohe**

**Elixir of Life, Symbol of  
Freshness, Fitness & Wellbeing.**

**Vital**



# How much water do you need to feel well?

Fresh

We require water to survive just as we need oxygen to breathe. At present the daily average per capita consumption of water in Germany totals 129 Litres. To limit our consumption of water would mean to reduce the quality of life. Who would turn off their taps voluntarily?

## Did you know that the cost of water for German households rose by some 40% between 1992 and 1999?

During the same period, fiercely discussed petrol prices only went up 28,5%. But as long as you don't have to pay every time you buy water you're hardly worrying about the cost of it.

## Only recycling saves water in an intelligent way:

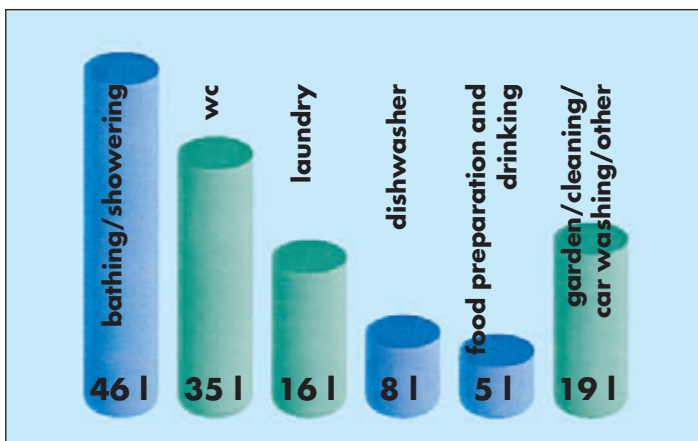
No loss of comfort, no limitations, sinking cost of water. It is possible! AquaCycle® 900 cleans your water from the shower and bath without the use of chemicals purely bio-mechanically and produces water which meets the strict E.U. Directive for clean Recreational Water. Water that's perfect for your

laundry, to flush the toilet, for domestic cleaning purposes, to sprinkle the lawn or water your flowers.

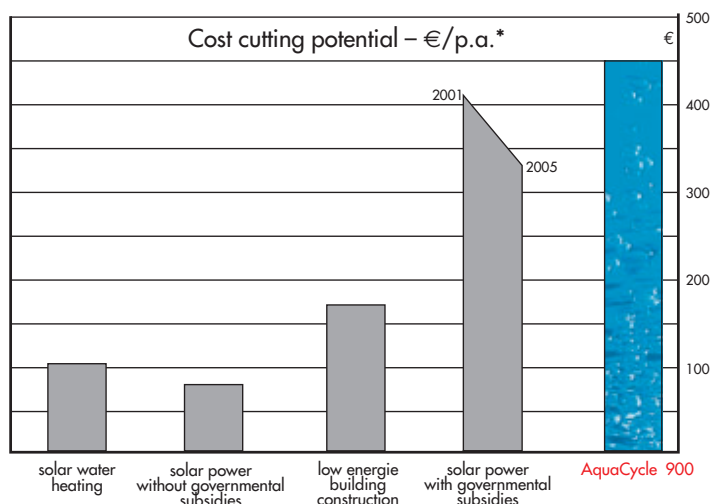
## Result: You're saving without limiting your water consumption or habits. You're winning all the way - with AquaCycle® 900.

You are lowering your consumption by up to 50% - thanks to the double use. A family of four to five has a saving potential of up to 90.000 Litres of water or more annually. And you are not only cutting your household expenses. At the same time you are contributing towards the conservation of a precious natural resource. It's a good feeling and the best formula to enjoy every litre of water in the future.

## Daily per capita water consumption in Germany 2000\*



## Compared to other environmentally friendly technologies AquaCycle® has the highest cost cutting potential:



\* Recycled clear water can ideally be used for the following purposes.  
 Source: Domestic usage of drinking water 2000, German National Association of the Gas and Water Industry, www.bgw.de

\* Referred to the average consumption of a household of four to five. Estimate may vary according to individual situation.  
 1) www.get-wasser.de  
 2) taz - die tageszeitung, www.forum-benzinpreis.de

**Finds a space in every cellar or  
basement – quickly installed, silent  
and free of odours.**

*Design*



*Simple*

*Safe*

*Hygienic*

# The clean and innovative solution: AquaCycle® by PONTOS® cleans water from shower and bath.



**Just use your water from shower and bath a second time – for your toilet, garden, laundry or domestic cleaning.**

**Your instant savings:**

up to 90.000 litres annually in a household of four to five. Keep in mind that you are also reducing your wastewater, which is normally more expensive than your freshwater, so you'll save twice.

**Maximum Savings:**

No other environmentally friendly technology has the cost cutting potential of AquaCycle.

**The cleaning principle:**

The all-new patented SmartClean® -System

**Hygienic water**

that conforms with the European Directive 76/160/EWG for Recreational Water.

**No chemicals required –**

100 % bio-mechanical treatment – free of odours.

**Our partners for the intelligent double use of water:**



# Modern, clean, safe



## The patented cleaning principle:

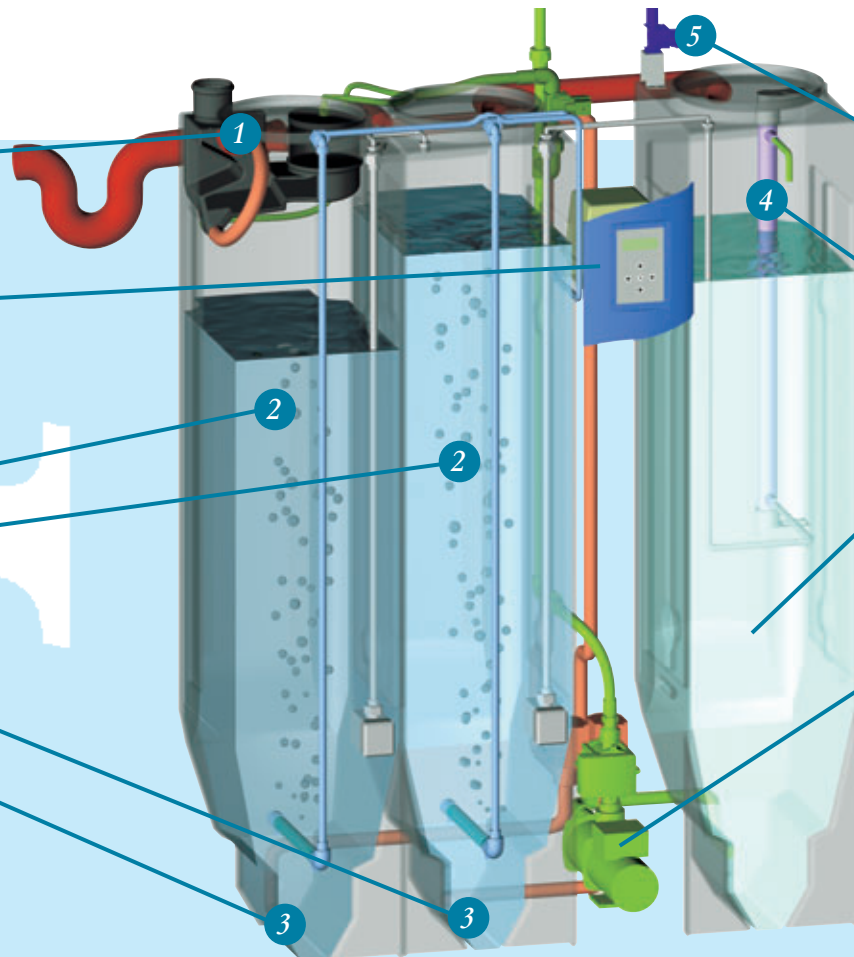
AquaCycle® uses the all-new innovative SmartClean® System – a four stage water treatment with UV-sterilisation.

Filtering unit with electronically controlled automatic flushing of the filter.

User friendly control panel with energy saving and self testing modes

Main recycling chamber and secondary recycling chamber for biological-mechanical cleaning

Automatic sediment disposal sucks organic sediments directly out from the chambers into the wastewater drain



Automatic freshwater feed on demand

UV-light lamp disinfects the water up to 99%. It is now odourless and storable for a long period.

The clear water storage chamber stores the recycled water until it is used.

The pump supplies the recycled water on demand and supports the automatic filter flushing.

## This is how AquaCycle® works :

### 1 Pre-Filtration

Larger particles like hair and textile fragments are collected. The filter is automatically flushed by a special spray pump – sediments are washed away into the main wastewater drain.

### 2 Two-fold biological treatment

In the main and secondary recycling chambers the dirt particles are decomposed by bio-cultures. The water is pumped to the next station in three hour intervals.

### 3 Sediment disposal

The organic sediments which are produced during the recycling process are regularly sucked out from the chambers and diverted into the wastewater drain.

### UV-Sterilisation

On the way to the storage chamber the recycled water flows through a UV-light lamp, which disinfects it. The high quality of the water now conforms with the E.U. Directive for Recreational Water.

### Automatic freshwater feed on demand

Should the supply in the storage unit drop below a certain level, freshwater will automatically be fed into this chamber to ensure there is enough supply for flushing the toilets.

# Convincing modularity and performance

Learnwater

## Performance that speaks for itself:

### Max 3000 l water treatment capacity per day with modularity.

Automatic freshwater feed, if necessary.

### Constantly high clear water-quality:

water from the AquaCycle® is treated to a constantly high, guaranteed quality. It's bio-mechanical system is so safe, that even a temporary toxic shock from aggressive cleaning substances will not affect it.

### Compact construction. Minimal space required:

height 180 cm, width 135 cm, depth 60 cm. With only 0,81 m<sup>2</sup> floor space required, AquaCycle® will fit in any cellar or basement.

### Modular system:

AquaCycle® can optionally be extended with additional modules.

### Minimal operating expenses:

only 0,6 kWh daily power consumption, equalling about 20-25 € p.a.

### Easy to operate, easy to install:

self cleaning system, silent, free of odours

### Reliable in service:

the biological treatment and the tried and tested pump systems assure trouble free service. Fully automatic sediment disposal.

### Maintenance free:

Standard routine check via electronic control panel once a year. Estimated service life: pressurising pump 2.200 m<sup>3</sup>, UV-light lamp 3.000 m<sup>3</sup>. Airpump: service kit depending on air clarity each 6-8 years.

### Warranty:

tank/chambers: 5 years, all other components 2 years.

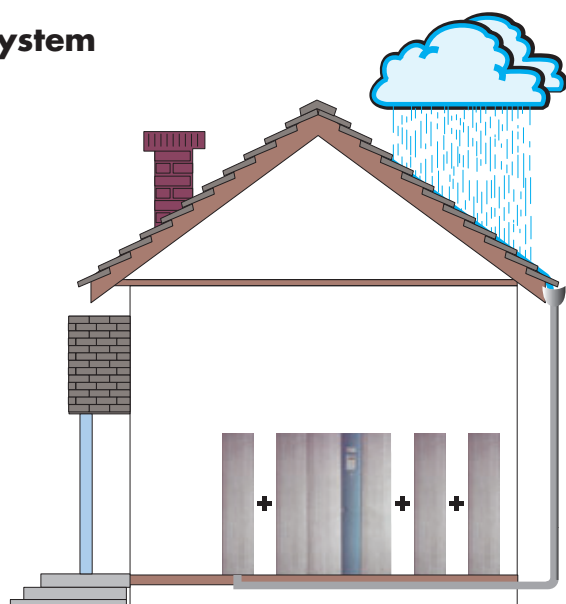
### Patented System:

It is based on several patents; developed and manufactured by one of Europe's leading companies in the sanitary market.

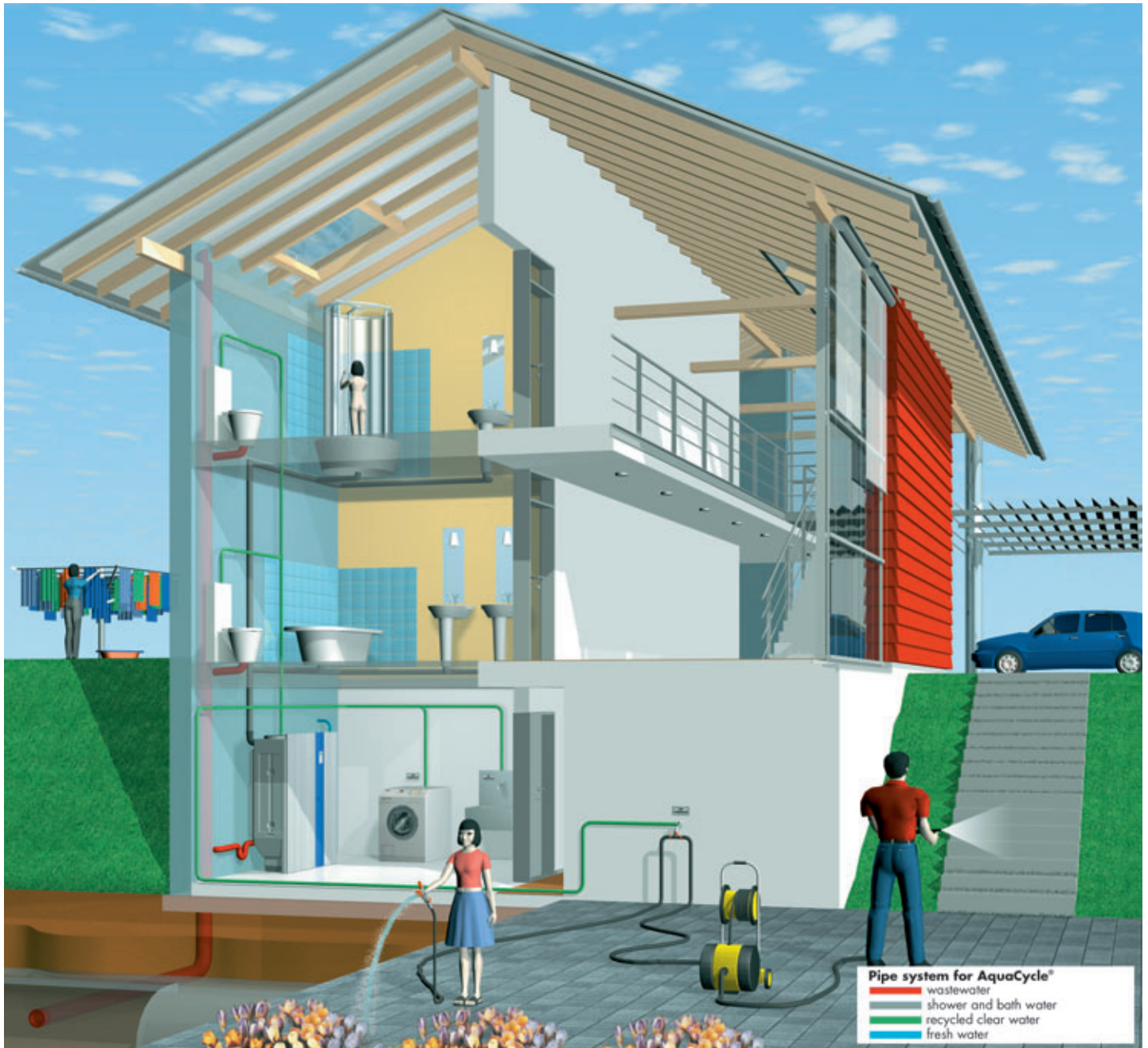
## The AquaCycle®: A modular system

Are you an **architect** or a **planning office**, involved in the contracts business of water recycling? Then you will certainly be pleased to hear that the AquaCycle® system can be adopted to individual requirements. Additionally rain water can be fed in the AquaCycle®. This way, the AquaCycle® is ideally suited for commercial buildings as multi-family homes, apartment blocks, hotels, camping sites...

Get in touch with us! We will help you find a custom solution for your water recycling needs.



# The AquaCycle®: systematically clean water



## Technical data:

### Measurements, completely assembled:

height 180 cm, width 135 cm, depth 60 cm,  
weight 100 kg  
System is delivered as two separate assembly units:  
Unit 1:  
height 180 cm, width 74 cm, depth 60 cm, weight 50 kg  
Unit 2:  
height 180 cm, width 61 cm, depth 60 cm, weight 50 kg

### Performance:

Pressurizing pump: max. 775 W  
sediment disposal pump: max. 100 W  
dip pump: max. 15 W  
UV-light lamp: max. 36 W  
Max. total performance: 1 KW

### Capacity:

Total treatment capacity: 600-3000 l (modularity)  
main recycling chamber: 300 l  
secondary recycling chamber: 300 l  
clear water storage chamber: 300 l

### Pressure:

max. 4,7 bar  
min. 1,5 bar

### Control:

intervals for batch operation: 3 hours\*  
intervals for sediment disposal: 4 days\*

(\* Individually programmable)

### Connections:

to toilet: DN15 (1/2")  
freshwater: DN15 (1/2")  
shower/bathwater: DN 70  
(coupling/connection height centre 184 cm)  
outlet wastewater: DN 15 (1/2")  
overflow connection wastewater: DN 70  
(connection branch/connection height centre 163 cm)  
Needs to be secured with air trap!

### Power consumption:

0,6 kWh/day

### Power:

230 V/50 Hz

# Answers to the most frequently asked questions

FAQ

## ? Where can I buy the AquaCycle®?

! Please contact us at phone no.: +49 (0)7836-51-1920 and we will gladly inform you about the dealer closest to you.

## ? How long will it take until my investment is paid back?

! In an average household of 4 to 5 people, the unit will have paid for itself within ten years.

## ? How much will I save with AquaCycle®?

! This depends on your bathing & showering habits, the size of your household and the price you pay for your fresh and wastewater. In a household of four to five up to 90.000 litres annually. Say, you're paying € 5,- per m<sup>2</sup> of fresh and wastewater, then you will be saving some € 450,- year after year!

## ? Do I need to pay attention to special installations while constructing my house?

! Yes. A separate pipe system for fresh and recycled water.

## ? Can I use the recycled water for my laundry?

! Yes. The recycled water is hygienically safe and can be used for the laundry, since it conforms with the E.U. Directive for Recreational Water. Independent institutions have certified it's safety.

**More frequently asked questions are answered on our Website [www.pontos-online.de](http://www.pontos-online.de) at "FAQ`s"**



## What customers and experts are saying about the AquaCycle®



Peter Ellies,  
Owner of Wilksch-Ellies  
Plumbing

The re-use of water in the private household has always been of interest to us. We have been looking for a tried and tested, flexibly installable system for a long time. With AquaCycle® we have finally found a product that meets all our demands. A system that has already proven it's reliability and safety in daily life many times.



Petra Symelka,  
Architekt

For the homeowner/-builder there are many alternatives of investing into eco-friendly systems. From my point of view, recycling and re-use of shower and bath water is an intelligent decision no matter if you're aiming at cost cutting or considering ecological aspects. It is definitely a promising technology.



Schuhmacher-Mohlau,  
End consumer

Antje Schuhmacher-Mohlau, has been using AquaCycle® in her home for over two years: The easy use of the system has really surprised me. Compared to our dishwasher I don't even see or hear it. Nonetheless it cuts our water bill day after day. And helps, like our solar water heating, protect our environment substantially. Our son likes the idea, too.



Brigitte Reichmann,  
Member of the Administration  
of the Senate of Berlin

We expressly welcome the development of enduring technologies that help preserve our natural resources. Our projects "Ecology in Urban Environments" have shown that the use of water recycling technologies requires state of the art systems as well as a sense of responsibility from the operator's side.

# The AquaCycle® is equipped with the latest technology from PONTOS®, protected by several patents

PONTOS® belongs to the Hansgrohe AG – one of Europe's most renowned and innovative companies in the field of sanitary appliances. Hansgrohe has a long tradition of combining ecologic and economic demands and has been the first company in the sanitary sector to be certified according to the European Eco Audit Decree.

AquaCycle® by PONTOS® guarantees 100% safe and hygienic water treatment to a constantly high quality. It works with the new environmentally friendly SmartClean® technology: a four-phase-water treatment with UV-light sterilisation, which renders germs and bacteria harmless. Choose the safe and easy way to a smart multiple use of water: AquaCycle® by PONTOS®

**Would you like to know more? Talk with our experts about using the AquaCycle® in your home!**

**Hotline: +49 (0) 78 36/51 19 20**

**PONTOS®**

**hansgrohe**