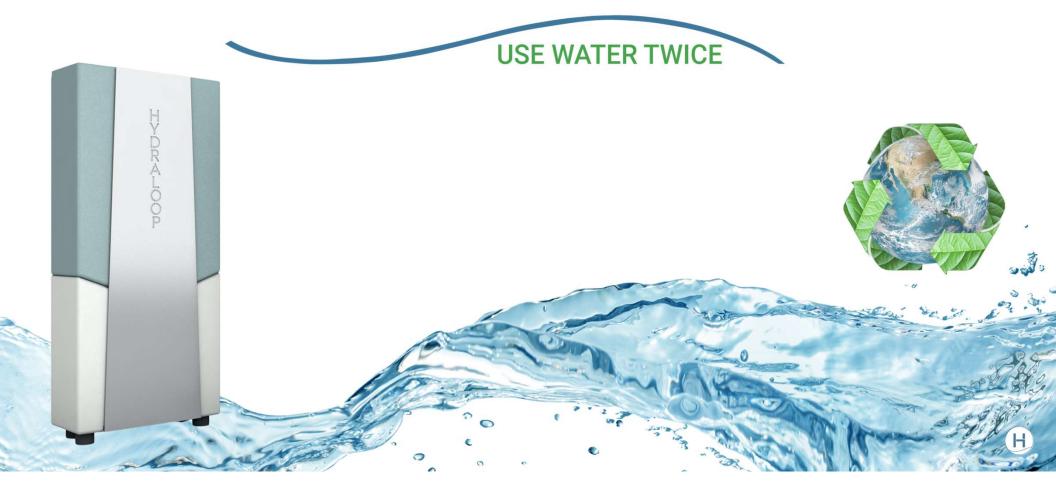
HYDRALOOP®





Hydraloop's solution principles

Leverage extreme decentralised water recycling

Safety first

At any time, the system delivers recycled water that meets the highest safety standards, such as NSF-350.

Minimal footprint

Extreme decentralisation implies installation in buildings with high square meter costs. Systems are compact, affordable, and include storage capacity.

Low maintenance

The system is self-cleaning and sustainable, demanding treatment without filters or membranes, or use of chemicals.

Modular design

A stylish design as well as a modular approach for scaled-to-measure supply in the case of multifamily housing and commercial realestate.

Automatic back-up procedure

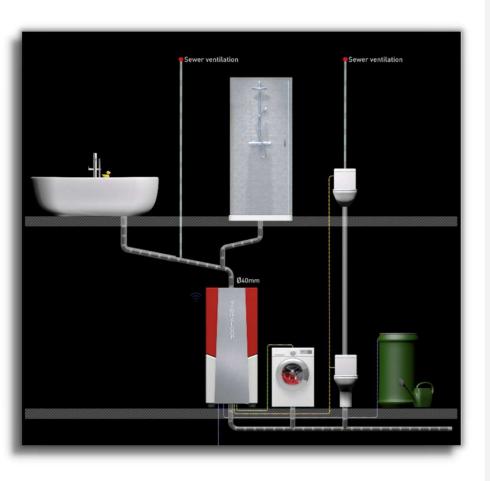
All cleaning processes are controlled electronically, the system should switch to backup water in case of malfunction or insufficient storage.

Internet connectivity

Like other smart home appliances, the system offers user-friendly controls per app, remote support, and over-the-air software updates.



How Hydraloop works





Collect lightly contaminated greywater

Hydraloop collects water from bath and shower, washing machine and dryer as well as condensation water from heat pumps and air conditioners.



Clean the greywater at the source

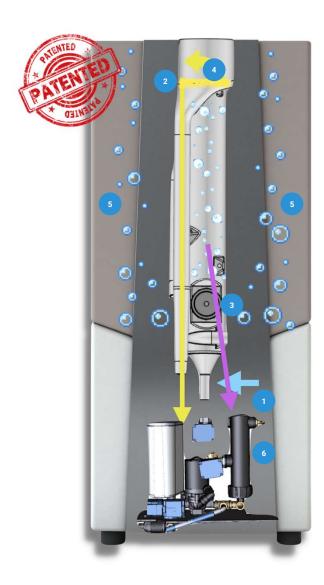
Hydraloop's sustainable technology treats the greywater in six cleaning steps, resulting in clean, clear, safe, and disinfected water for non-potable use.



Reuse the cleaned water

The treated water is redistributed to toilets, washing machines, and optionally for garden irrigation and/or topping up swimming pools.





The treatment process

Without the use of chemicals, filters or membranes

Controlled by central processor and smart use of air pressure, to stimulate the law of communicating vessels, the following sequential treatment processes apply:

- Sedimentation
 Sediment is collected at the bottom of tank
- Floatation
 Floating dirt (hair, soap) is purged via central skimmer into the sewer
- Dissolved air floatation
 Tiny air bubbles will travel upwards, collecting small particles
- Foam fractionation
 Soap and suspended solids are skimmed off
- MBBR
 Biological treatment by aerobic bioreactor
- **UV disinfection**Every 4 hour by UV-light





Long term operation

Low maintenance and user-friendly



Self cleaning

Automatic regular self-cleaning

Safe air gap

Tap water switch via a safe air gap according to EU, US & AU standards

Distribution

Treated water will be distributed by a low noise water pump and controlled valves

Back-up water

Automatic switching to back-up water supply in case of default and/or insufficient storage

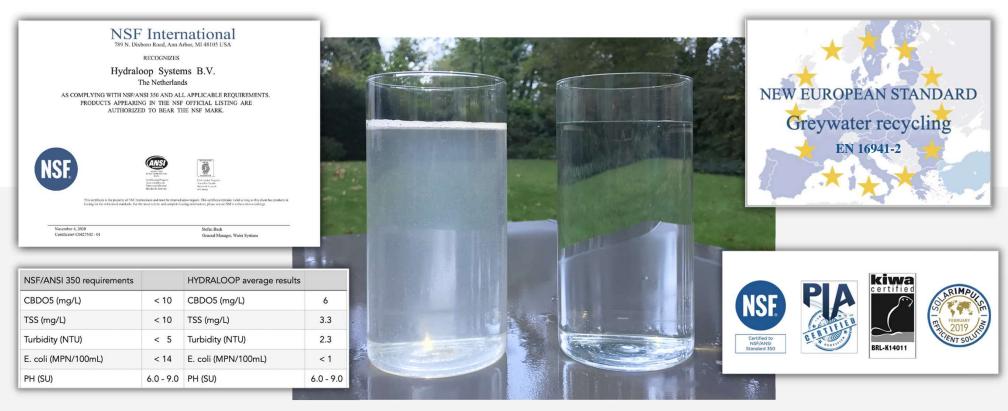
Internet connected

All systems are internet connected with smartphone app support and remote monitoring and over-the-air-software updates



Hydraloop water quality

Treated water meets stringent European, US and international quality standards for reuse as non-potable water



Before Treatment

After Treatment



Product portfolio

For residential real estate



Hydraloop 300

For single-family housing with 4-5 persons

Hydraloop 600

For larger communities up to 10 persons

Hydraloop Concealed

For multi-family housing and apartments Easy plumbing for retrofit situations

Product portfolio For commercial real estate



Hydraloop Cascade

For larger operations such as hotels, office buildings, shopping centers, student housing, sports clubs, airports, and more

Modular and scalable made-to-measure







Competitive position

Hydraloop vs. alternative solutions for water supply and water savings

SUSTAINABLE GOALS		Hydraloop	Do nothing	Rainwater Harvesting	Desalination	Blackwater Recycling	Direct competition
V 6	Clean Water	\checkmark	×	✓	\checkmark	✓	\checkmark
1	Sustainable Cities and Communities	✓	×	<u>+</u>	<u>±</u>	✓	✓
© 1 2	Responsible Consumption and Production	\checkmark	X	<u>+</u>	×	×	✓
1 3	Climate Action	\checkmark	×	±	×	×	✓
3	Low Maintenance	\checkmark	n/a	<u>±</u>	×	×	×
	Small footprint	\checkmark	n/a	×	×	×	×
	Home application design	\checkmark	n/a	×	n/a	n/a	×
	Return on Investment	<u>+</u>	n/a	<u>+</u>	×	<u>+</u>	<u>+</u>

It always makes sense to use water twice



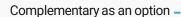












Happy customers

Residential



Volongo family, Luxembourg



Mertens family, Belgium



Kaust student house, Saudi Arabia

Commercial Real Estate



&Beyond Resort, Namibia



Bed & Breakfast, The Netherlands



Soccer Club ONT, The Netherlands



Hydraloop in motion

A few examples



Brave Blue World **Netflix Documentary**



Innovation Nation CBS, United States



7 News **Australia**



Energy Observer United Nations



The 8 O'clock news NPO1, The Netherlands



EcoIndia **Deutsche Welle, global news**



Founded in Friesland NPO1, The Netherlands



Addressing World Leaders **Hydraloop at COP26**



Click on image or find more on the Hydraloop YouTube Channel



mt/sprout Challenger50-winnaars











BEST OF THE BEST

Best of Innovation Award: Sustainability, Eco-design & Smart Energy

Best Sustainable Product

Best Startup

TIME Magazine top 25 best products of CES 2020

NEWSWEEK top 12 best products of CES 2020













