

HYDRALOOP[®]

SMART WATER SAVING

HYDRALOOP

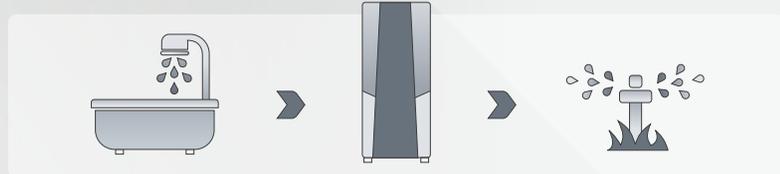
metsitec
water recycling solutions

WINNER
BEST START UP
BEST SUSTAINABLE PRODUCT
BEST OF THE BEST



what is **hydraloop**?

HYDRALOOP is an innovative in-house water recycling system that treats and disinfects wastewater from showers, baths, and washing machines without the use of any filters, membranes, or chemicals. The treated water from a HYDRALOOP system meets the highest international standards, and can be reused for the washing machine, toilet flushing, irrigation, topping up the pool, or car washing.



who uses a **hydraloop**?

HYDRALOOP is suitable for any application where there is greywater from washing machines, wash hand basins, baths, and showers, and the wastewater would otherwise go to the municipal sewer or an onsite sewage tank.



why use a **hydraloop**?



A HYDRALOOP can recycle up to 85% of the total in-house domestic water used. For a suburban family of four, this would amount to water savings in excess of 100,000 litres per year.



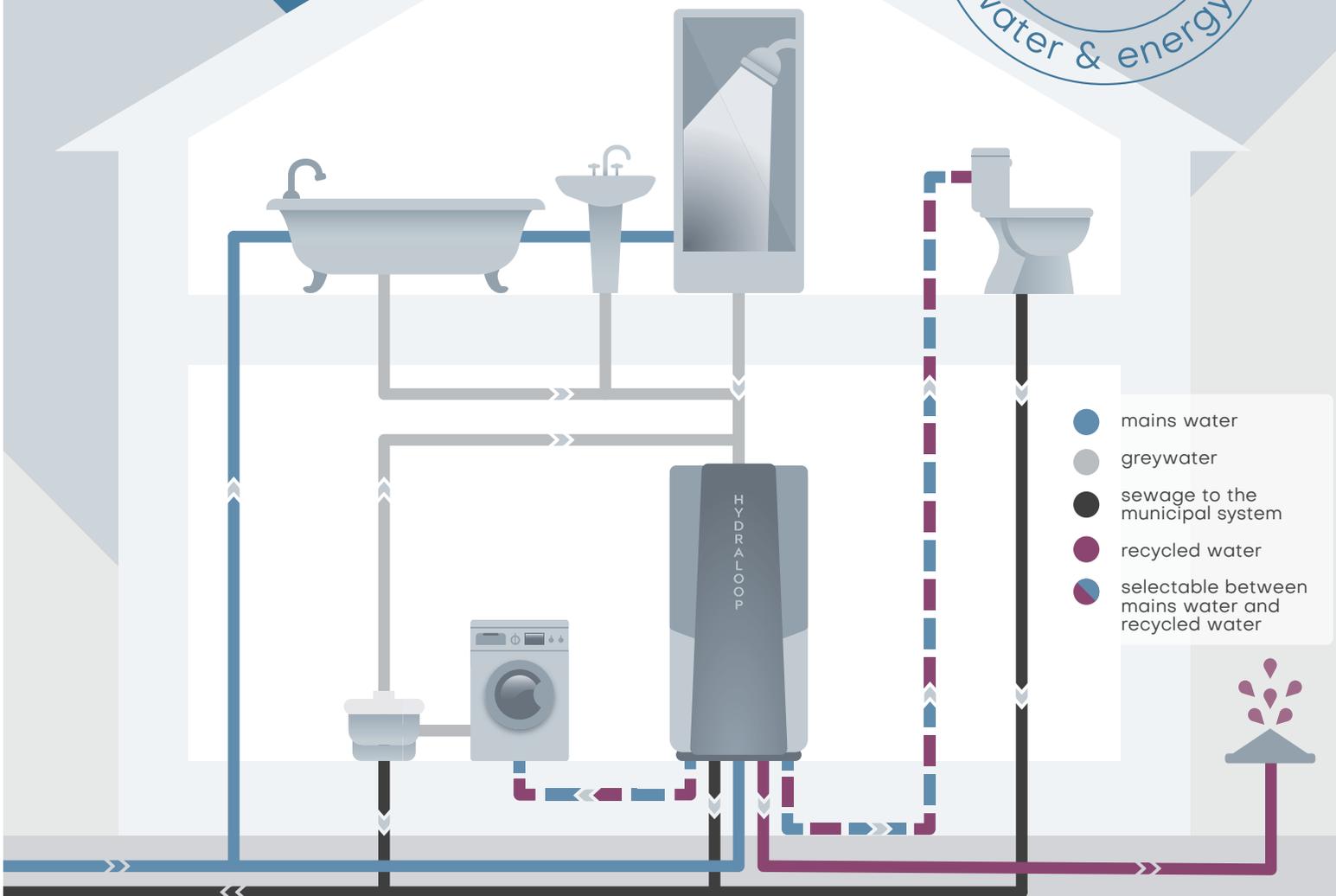
By installing a HYDRALOOP, users benefit from effortless compliance during periods of water restrictions, without the constraints and inconvenience of selective toilet flushing, shower water collection in buckets, and compromised laundry washing cycles.



HYDRALOOP offers both environmental and financial savings. By reducing domestic water demand by up to 45%, this reduces sewage discharge by the same amount, whilst collectively reducing carbon emissions. These savings extend upstream and downstream of the HYDRALOOP, as water abstraction, treatment and distribution is reduced.

save water
recycle up to **85%** of
in-house domestic water

to flush, wash, irrigate
& top-up pool



how does a **hydraloop** work?

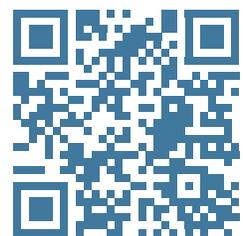
the patented hydraloop water treatment process

HYDRALOOP offers a completely unique, modern and innovative treatment process. While other greywater treatment systems rely on filters or membranes which clog and require regular cleaning and maintenance, HYDRALOOP removes dirt, soap, and other pollutants without using any filters or chemicals.

Instead the patented treatment system combines 6 proven processes namely:

1. Flotation
2. Sedimentation
3. Dissolved Air Flotation
4. Foam Fractionation
5. Aerobic Treatment
6. UV Disinfection

[see how it works](#)



calculate your savings potential



HYDRALOOP



what makes hydraloop unique?

a new-generation appliance

With its stylish design and minimal footprint, HYDRALOOP can be installed anywhere in the home, most commonly in a laundry or garage. HYDRALOOP is almost completely silent at less than 44dB, equivalent to a modern domestic fridge, while the treatment cycle is underway.

sophisticated yet simple

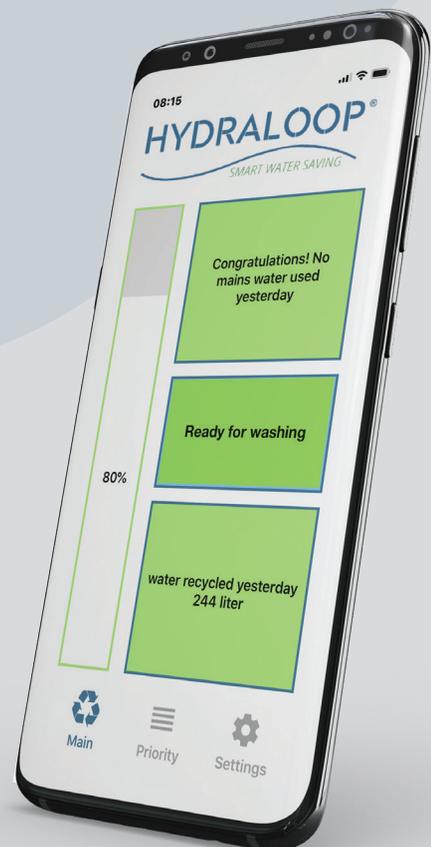
All key components within the HYDRALOOP system are continuously monitored, and in case of abnormal behaviour the system automatically switches to back-up water (mains or rainwater) and sends out an alert.

smart and automatic

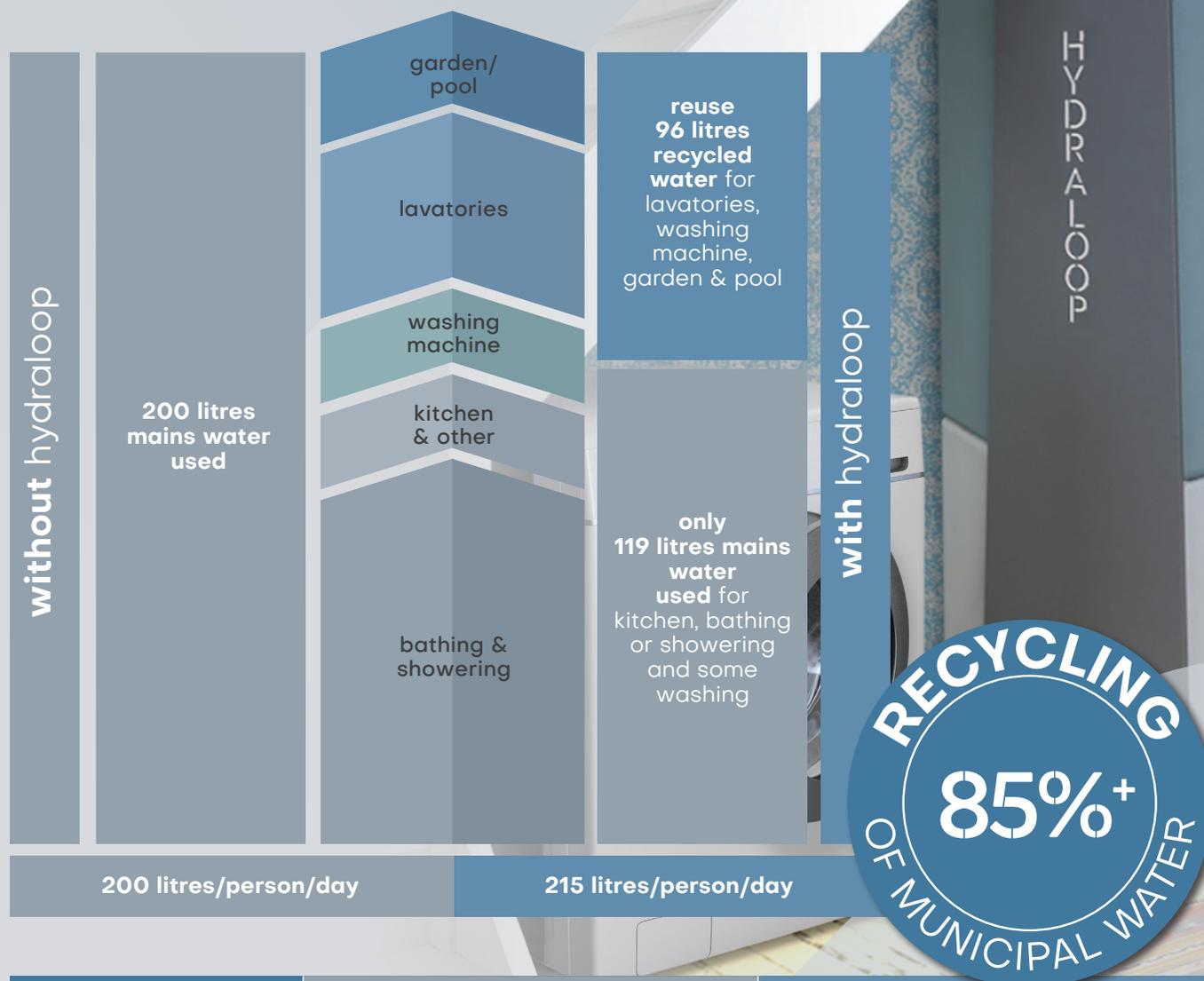
HYDRALOOP is completely automatic, and can be monitored and managed using the HYDRALOOP Smartphone App. By connecting the HYDRALOOP unit to a local WiFi network, it will continuously monitor the system operation and notify the user of any incidents. The HYDRALOOP app shows the amount of water recycled and saved, and allows the user to select the priority for recycled water or backup water use. For example, if there is insufficient supply of recycled water, the HYDRALOOP can automatically switch to the back-up water supply.

energy efficient

With a low-voltage circuit, small pump, blower, and UV-light, HYDRALOOP uses minimal power and is well-suited to off-grid dwellings that rely on alternate power generation such as solar PV or wind.



illustrative savings



Domestic water usage (per resident)*	WITHOUT HYDRALOOP		WITH HYDRALOOP	
	Municipal Water	HYDRALOOP	Municipal Water	HYDRALOOP
Shower	100 litres	0 litres	100 litres	0 litres
Toilet	20 litres	0 litres	0 litres	20 litres
Kitchen	15 litres	0 litres	15 litres	15 litres
Washing machine	15 litres	0 litres	4 litres	11 litres
Garden	50 litres	0 litres	0 litres	50 litres
Total	200 litres	0 litres	119 litres	96 litres



	HYDRALOOP home	HYDRALOOP garden	HYDRALOOP pool
Incoming water from	Bath, Shower Optional: Washing Machine and Wash Hand Basin (requires extra lift pump)		
Treated recycle water outlet(s)	2x pressure-controlled valves, 1x for toilet flushing, and 1x for washing machine Optional: Third level-controlled outlet to water tank for garden irrigation or pool	1x level-controlled outlet to a buffer tank for garden irrigation	1x demand-controlled outlet to swimming pool water treatment system
Colour options	Dew, Chilli, Stone	Dew	Dew
Dimensions (WxDxH)	800mm x 340mm x 1,870mm		
Maximum treatment capacity per day	530 litres		
Electrical supply	200 - 240VAC, 50Hz (24VDC internal)		
Energy consumption	20 Watts during treatment (±200kWh/year)		
Noise	±44dB during treatment		
Connectivity	2.4Ghz, 802.11b/g WiFi HYDRALOOP requires internet access via a wireless network		



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