

FACT SHEET - Residential Water Recycling

With a Hydraloop system, you can recycle up to 95% of shower & bath water and optionally 50% of washing machine water – which enables you to reuse up to 85% of the total in-house domestic water. Due to its innovative and breakthrough technology, Hydraloop water is clean, clear, safe and certified and for toilet flushing, washing machine, garden irrigation and/or to top-up a swimming pool.

Hydraloop H600

H600	Input: Greywater from shower and bath Output: Two (2) valves for recycled water to the toilets and the washing machine Colour: Stone Front Plate: Stainless-steel front plate with white coloured logo and small status light
H600 Premium	Input: Greywater from shower and bath Output: Two (2) valves for recycled water to the toilets and the washing machine Choose from three colours: Dew, Chili and Stone Front Plate: Premium stainless-steel front plate with Hydraloop LED logo lights

Add-ons

Output Garden	One (1) extra valve for recycled water in the garden
Output Pool	One (1) extra valve for recycled water for the pool
Washing Machine Option	Option to recycle 50% of greywater from washing machine, including sanitary lift pump
Lift pumps *	DAB Novabox 30/300. This lift pump is submerged underneath the floor DAB Genix VT 030. This lift pump is on the floor

A lift pump is only necessary if the Hydraloop is positioned on the same floor or a storey higher as the shower/bathtub

Hydraloop H600 Specifications

Volume!	600 liters / 160 gallons
Cleaning capacity!	1000 liters / 260 gallons per day!!
Dimensions	80 cm wide, 60 cm deep, 187 cm high 31,5" wide, 13,4" deep, 74" high
Voltage	100/240 Volt, 24 Volt internal
Usage	40 watts during treatment. Average power consumption: 350 kWh/year
WIFI	The Hydraloop unit needs to be connected to the internet with a WIFI-network
Average recycled water quality	non-potable water CBOD5 (mg/L) < 10 TSS (mg/L) < 10 Turbidity (NTU) < 5 E. coli (MPN/100ml.) < 14 PH (SU) 6.0 – 9.0
Noise Level	± 46 dB.

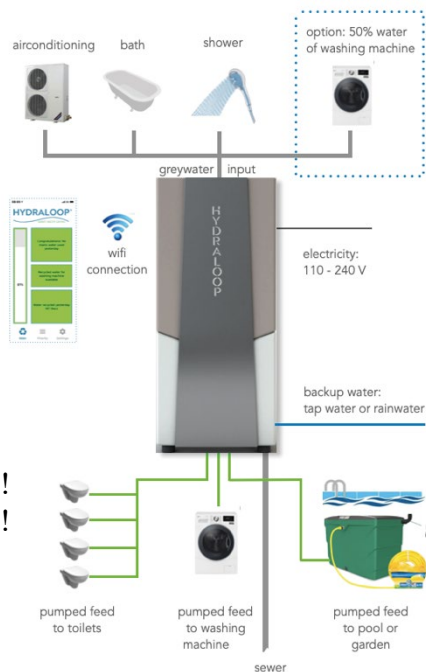
LED Light Indications

White	Hydraloop provides recycled water.
Blue	Hydraloop provides mains water (until recycled water becomes available).
Purple	The washing machine mode is active.
Green	In self-cleaning mode.
Orange + two (2) short sound signals per minute	The UV disinfection lamp is not functioning properly.
Red + three (3) short sound signals/minute	The water distribution pump has switched itself off. Which might happen when water is leaking somewhere in-house.



Certified to NSF/ANSI Standard 350

Schematic overview



- !! Input from wastewater of bath & shower
- !! Output for toilet flushing, washing machine, garden irrigation and / or pool
- !! WIFI connected for Smartphone app, over the air updates and remote support

- !! 'Fit & Forget' turnkey product
- !! No filters, membranes or chemicals
- !! Fully automatic, self-cleaning, low maintenance
- !! BREEAM and LEED certification points
- !! No compromise on hygiene and living comfort
- !! Contribute towards sustainable and off grid living

For more information, please visit www.hydraloop.com

HYDRALOOP®



The NSF/ANSI 350 standard verifies that all design and performance requirements of the standard have been met, and confirms through testing that effluent water meets the stringent quality criteria. The NSF/ANSI 350 standard also sets water quality requirements for the structure of chemical and microbiological contaminants for non-potable water use.

During the 20-week NSF/ANSI 350 testing period, the Hydraloop product met (passed) 35/37 with a generator mix that contained one wastewater, secondary effluent, dairy wash, hospital, conditions using hydrolytic microorganism, pathogen-free (ATCC fluid treatment, heavy detergent & alkaline, NaClO₂, NaClO, NaOH) and test dust. The Hydraloop generator and the treated effluent water met the test for 35 weeks, 35/37 of 3 days a week.

Inherent values of the incoming greywater used for the 35 week test

Parameter	Measurement range
TSS (mg/L)	80 - 160 mg/L
BOD ₅	140 - 210 mg/L
Temperature	21 - 16 Celsius
pH (pH)	8.0 - 8.5
Conductivity	20 - 100 µS/cm
Total phosphorus (P)	1.0 - 3.0 mg/L
Total sulphate (S)	140 - 150 mg/L
COD	200 - 280 mg/L
Total ammonia	10 ⁻² - 10 ⁻¹ µg/L/100 mL
Total	10 ⁻² - 10 ⁻¹ µg/L/100 mL

Effluent values NSF 350 requirements and Hydraloop average results

NSF/ANSI 350 requirements	Hydraloop average results
Microbial (log ₁₀)	< -10 (colony forming units)
TSS (mg/L)	< 10 TSS (mg/L)
Conductivity (µS/cm)	< 10 Conductivity (µS/cm)
pH (pH)	6.5 - 8.5 (pH)



Safety certificate

K10233501

Issue: 2020-01-01

Valid: 1 y 0 d



CERTIFICATE

Water recycling system

K10233501-01-01
This certificate certifies that the product complies with the requirements of the standard.

Hydraloop International B.V.
Company and the product manufacturer are both based in the Netherlands and are registered with the Dutch Chamber of Commerce for the water recycling system. In addition, their products comply with the BREEAM and LEED standards of technical water supply products for buildings with a maximum of 100,000 m².

NSF/ANSI 350: Technical water supply products for buildings with a maximum of 100,000 m².

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