

# HYDRALOOP

## Hydraloop Recyclers

Hydraloop is an IoT-enabled, decentralized greywater recycling system for homes and buildings that reduces potable water demand without compromising hygiene or comfort. Using a patented treatment process without filters, membranes, or chemicals, it treats lightly contaminated greywater for safe non-potable reuse in toilets, laundry, and irrigation. Lowering both tap water consumption and wastewater discharge.

**Abbreviations**  
 WM = Washing Machine  
 WC = Water Closet  
 AUX = Auxiliary



Distribution Pump Performance		Water Connections			
Pressure	Flow rate	Toilet	WM	AUX	Backup
2.4 bar (240 kPa)	up to 8 L/min	1/2" BSP*	1/2" BSP*	1/2" BSP**	1/2" BSP*
2.4 bar (240 kPa)	up to 8 L/min	1/2" BSP*	1/2" BSP*	1/2" BSP**	1/2" BSP*

\* Permanently pressurized  
 \*\* Pressurized to external tank when T3 85% filled



Features		Details		
1. General	Certifications	NSF/ANSI 350R / IAPMO R&T / EN-16941-2		
	Greywater Inlet Sources	Shower, Bath	Shower, Bath, Handbasin*, Condensate Drain*	
	Non-Potable Water Reuse	up to 45%*		
	Reuse Applications	WC, WM, or AUX*		
	Colour	Ivory		
	Front Plate	Galvanised steel* with top status light		
	Installation Location	Inside Building's Thermal Envelope		
	2. Backup Water & Backflow prevention	Backup Water Requirement	Permanently pressurized ≥12 L/min	
		Backflow Prevention Backup Water	AB class safe air gap (T4)	
		Backup Water Source	Mains tap water, rainwater, well water	
3. Technical Specifications	Effective Cleaning volume	130 liters	260 liters	
	Effective Storage Volume	100 liters	200 liters	
	Inlet Diameter	40 mm O.D.	40 mm O.D.	
	Required Drainage Connection	110 mm		
	Voltage (Frequency)	110-120V AC (50-60 Hz) or 220-240V AC (50-60 Hz) 24V DC internal		
	Average Power Consumption	220 kWh/year (25 W during treatment)	460 kWh/year (50 W during treatment)	
	Internet Connectivity	Ethernet (RJ45) or 2.4 GHz Wi-Fi (WPA/WPA2 compatible)		
	Wi-Fi Router Distance	> 1 m		
	Required Service Space	800 mm in front	A-side 800 mm, B-side 600 mm	
	Ambient Temperature	14 - 35 °C		
4. Dimensions & Weight	Width	800 mm	800 mm	
	Depth	360 mm	695 mm	
	Height	1870 mm (excluding inlet) Height adjustable legs + 20 mm / - 10 mm	1892 mm (excluding inlet)	
	Dry Weight	83.5 kg	128 kg	
	Wet Weight	384 kg	740 kg	
	5. Acoustic Specifications	Air Pump	29 dB(A)	
Distribution Pump		29 dB(A)		
Greywater Inflow		48 dB(A)		
Backup Water Filling		48 dB(A)		
Inlet Diverter		50 dB(A)		
Self-Cleaning Cycle		50 dB(A)		
Hydraloop Treated Water Test Results				
BOD5	< 10 mg/L			
TSS	< 10 mg/L			
Turbidity	< 5 NTU			
E.coli	< 14 MPN/100mL			
Ph	6.0 - 9.0 SU			
Hydraloop delivers NSF/ANSI 350 R certified recycled water.				