

# RECYCLE READY GUIDE - H300

With Hydraloop, you can save up to 45% on your total in-house water consumption and reduce 45% on your wastewater output. All you have to do is collect, treat and re-use the lightly contaminated greywater that is already in your building.

- ✔ Before starting your project, please check the local regulations for recycled water re-use.
- ✔ Before the installation of a Hydraloop unit, make sure that the plumbing in your building is well prepared. In this document, you'll find the necessary information to get any building Recycle Ready.
- ! Before the installation date of your Hydraloop unit, you have to fill out the Pre-Installation Checklist and send it to your Hydraloop contact person or Hydraloop Partner.

## CONNECTION OVERVIEW

### Input: greywater from

- shower
- bath
- tumble dryer
- air conditioning
- heat pump
- optional: washing machine

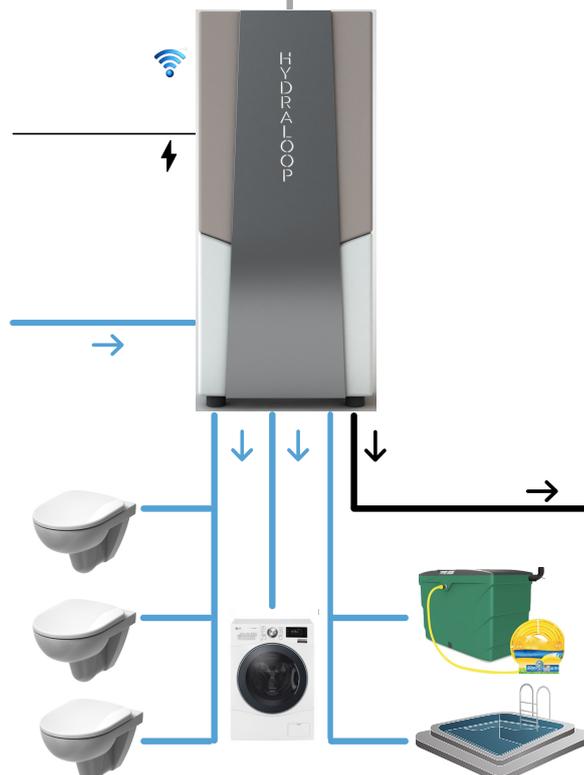


### System connections power/network

- wifi internet connection
- power supply

### System connections water

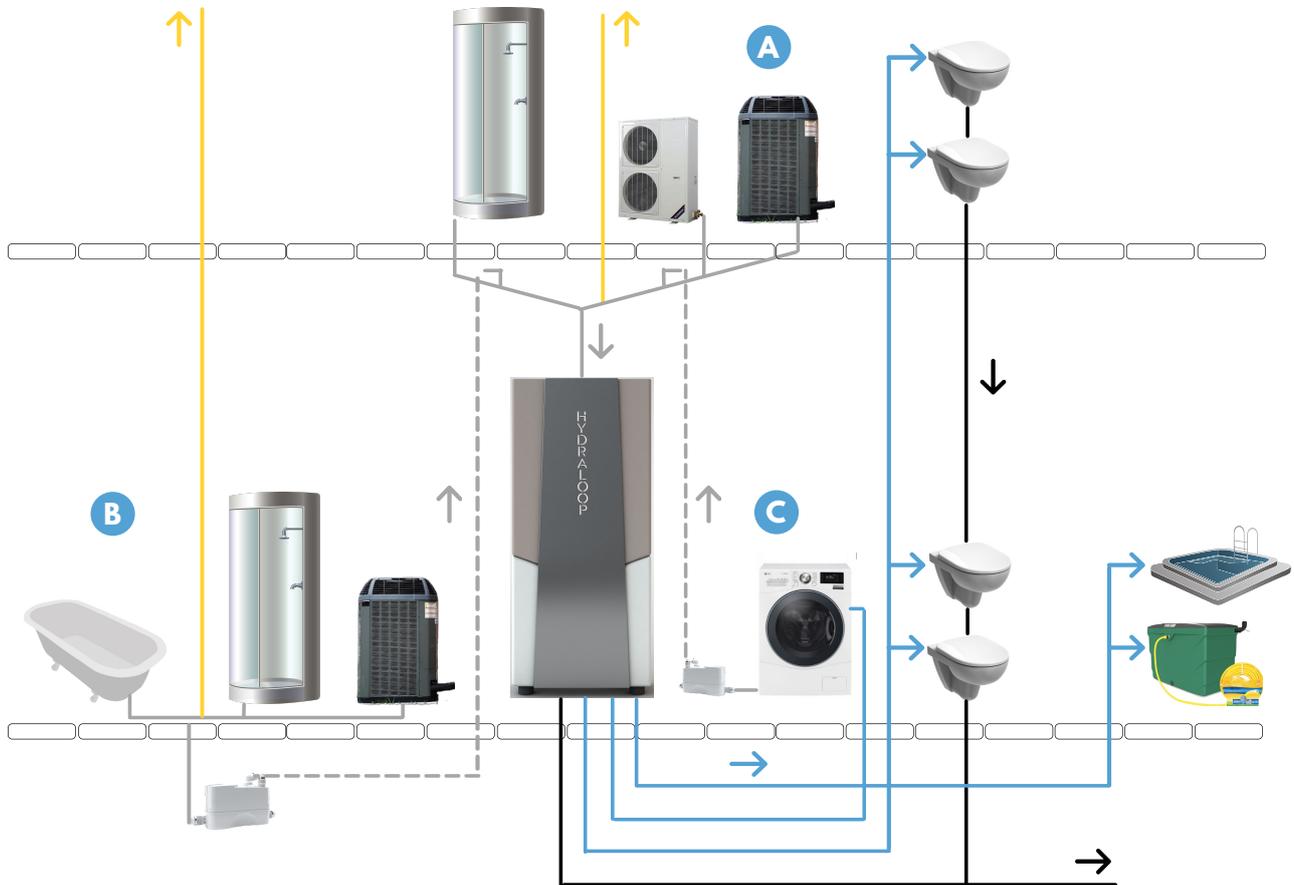
- back up water (tap water or filtered rainwater)
- wastewater outlet



### Output: dedicated pipelines for

- toilet flushing
- washing machine
- garden irrigation
- swimming pool

## PLUMBING OPTIONS



- A Hydraloop on lower floor – input by gravity**  
Greywater from the shower, bath or other sources flows into Hydraloop using gravity
- B Hydraloop on same floor – input via lift pump**  
Greywater from the shower, bath or other sources enters Hydraloop through lift pump
- C Optional: Hydraloop washing machine feature**  
50% of washing machine water enters the Hydraloop unit through Hydraloop-controlled inlet water source selection valve

## PIPING DETAILS

### Isolation

Isolate the greywater feed pipe from the sewer pipes.

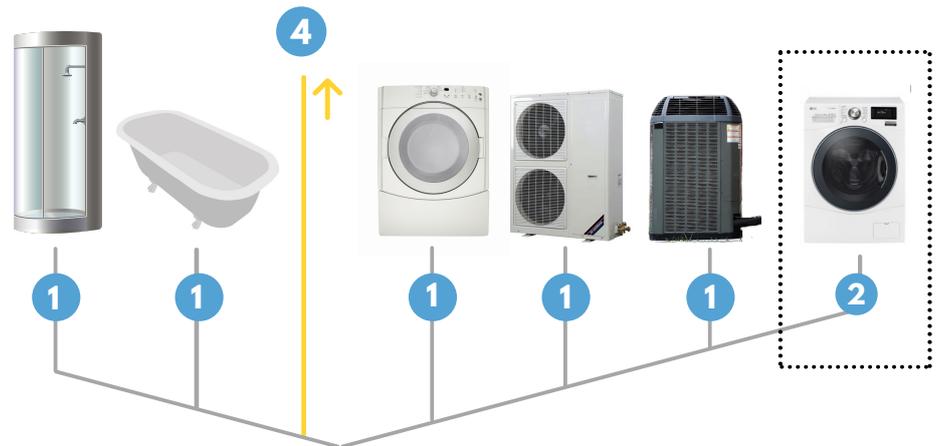
### Greywater input connection

Connect all incoming drains into a single pipe (75/50/40 mm | 3"/2"/1 1/2") into the inlet (40 mm | 1 1/2") on top of the Hydraloop system. Use riser pipes out of the system and branch them out to the output options.

### Ventilation

Don't forget proper ventilation of the inlet pipe (75/50/40 mm | 3"/2"/1 1/2") to support grey water flowing into the Hydraloop system without airlocks. Also provide sewer venting to ensure proper functioning of the Hydraloop system.

## INPUT CONNECTIONS



## INPUT SOURCES



### Greywater into Hydraloo

Shower  
Bath  
Tumble dryer  
Airconditioning unit  
Heat pump  
Optional: Washing machine  
(with Hydraloo-controlled inlet)



### Do not connect water sources that contain grease or chunky pieces

Hand basins  
Kitchen sink  
Dishwasher



## CONNECTION DETAILS

### Greywater into Hydraloo

40mm | 1½" connections

### Input by gravity or lift pump

If your greywater input sources are located on a higher floor than the Hydraloo system, you can use gravity for the input water. In other circumstances, you'll need a lift pump. For Hydraloo qualified lift pumps, see page 6.

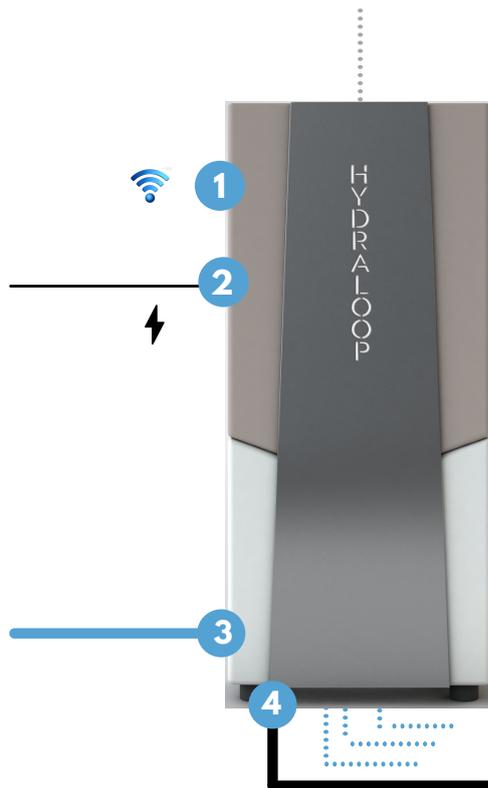


### Optional: Washing machine feature

Connecting a washing machine to the Hydraloo is possible if you specifically choose the washing machine feature (with a Hydraloo-controlled inlet water source selection valve). You can only connect one machine.

- 1** — Gravity flow greywater tube  
size 75/50/40 mm | 3/2/1.5 inch
- 2** — Gravity flow greywater tube  
size 75/50/40 mm | 3/2/1.5 inch
- 3** — Greywater inlet  
size 75/50/40 mm | 3/2/1.5 inch
- 4** — Sewer ventilation  
Placed along the greywater tube prior to ensure proper ventilation and to help prevent air locks

## POSITIONING AND SYSTEM CONNECTIONS



### POSITIONING

#### Room specifications

Minimum height of the ceiling: 210 cm, 6.10"  
The room temperature should be between  
14-35° C | 57-95° F.

We recommend placing the Hydraloop unit in a laundry room, garage, or technical room.  
At any time: avoid direct sunlight on the Hydraloop unit.

Allow 60 cm or 24" of space in front of the Hydraloop unit for maintenance access.

### POWER

- 1 **Internet connection**  
Stable internet connection with working Wifi in the room (no cable)
- 2 **Electricity (Hydraloop system)**  
100-230 Volt power outlet with earth protection (max 100 cm | 3 feet from the top of the system)

### WATER

- 3 **Backup water**  
Connection to tap water or filtered rainwater supply
- 4 **Wastewater output**  
Wastewater from Hydraloop to sewer (gravity)

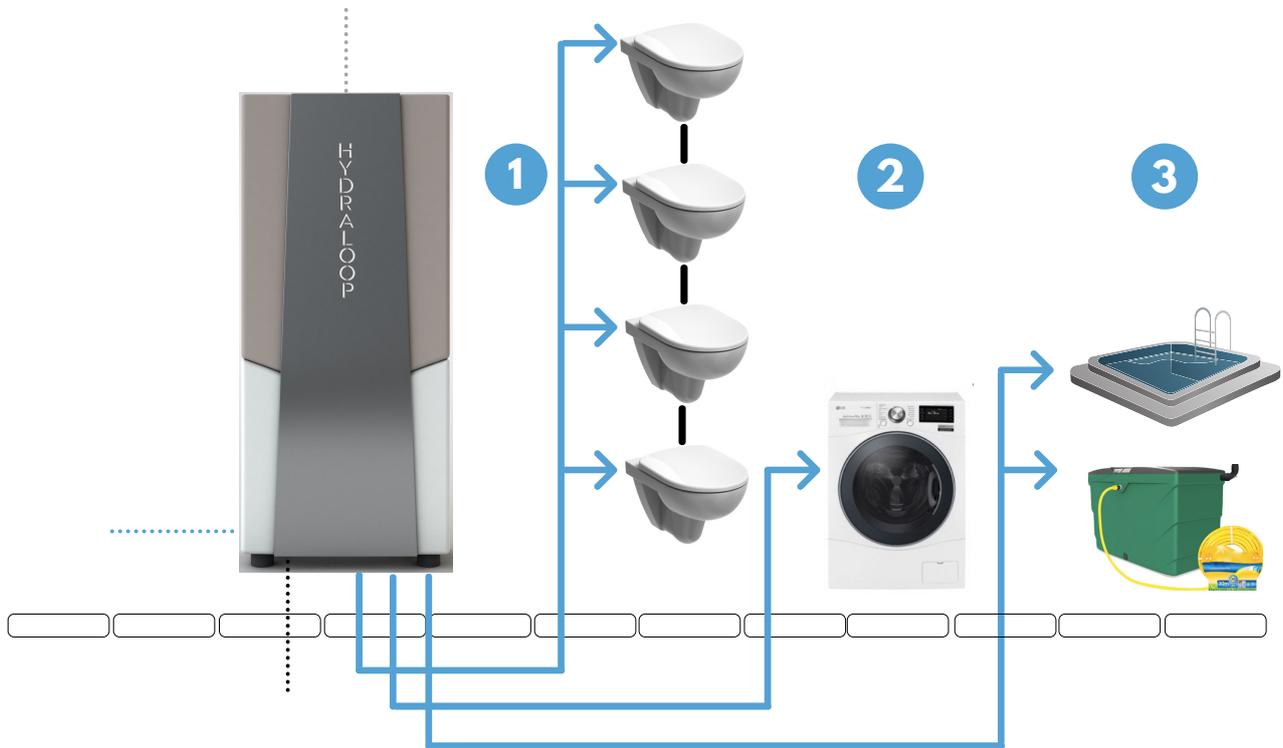
#### Backup water

½" male thread, the minimum water flow of 20 liters | 5.3 gallons p/m, 29 psi/2.2 bar. If the pressure is higher (max. 55 psi/4 bar), install an expansion vessel and a 50-micron mash filter.

#### Wastewater output

40mm | 1½" connection to sewer – Sewer connection (75 to 50mm | 3" to 2") with rubber manchet underneath or behind the Hydraloop unit into floor or wall.

## OUTPUT CONNECTIONS



## OUTPUT CONNECTIONS

- 1 Toilet output**  
Recycled Hydraloop-water to toilets (pressure-controlled)
- 2 Washing machine output**  
Recycled Hydraloop-water to a washing machine (pressure-controlled)
- 3 Garden/pool output**  
Recycled Hydraloop-water to garden or pool (Hydraloop-controlled, pressurized)

## CONNECTION DETAILS

### Toilet, washing machine, and garden/pool output

All output connections are ½" male thread – Prepare the plumbing in the wall behind the future location of the Hydraloop unit. See the technical drawing on the last page of this document. Connect with flexible hose.

- ! Plumbing**  
Have the plumbing for your Hydraloop unit prepared according to the technical drawings on the last pages of this document.
- ! Non-potable Water Identification**  
Label all output connections. Use color coding or large warning labels to designate that the pipes are running non-potable water.

## WATER SUPPLY BEFORE INSTALLATION

When the plumbing in your building is Recycle Ready, you can install a (temporary) bridge connection from the greywater input pipes to the sewer and from the backup water supply to the toilets and the washing machine. This enables you to use the showers, baths, toilets, and washing machine as usual, until a water recycling system like Hydraloop is installed.



## H300 SPECIFICATIONS

### Capacity

300 liters | 80 gallons

### Maximum treatment capacity per day

530 liters | 140 gallons per day

### Recommended for

Family homes up to 5 people

### Dimensions

80 cm wide, 34 cm deep, 187 cm high |  
31 ½" wide, 13'4" deep, 74" high

### Voltage

100/230 Volt, 24 Volt internal

### Power consumption

20 watts during treatment.  
On average: 200 kWh/year per system

### 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

± 44 dB

## LIFT PUMP REQUIREMENTS

Please feel free to install a lift pump that is locally available and matches the following criteria:

### Measurements

36.83-60.7 cm wide, 17.8-30.9 cm deep,  
25.4 cm-36 cm high |  
14.5-23.9" wide, 7-12.2" deep, 10-14.1" high

### Flow

of 1.8-3.3 liters/second

### Connection pipes

Make sure the pressure tube from the lift pump is 32 mm | 1.26" to avoid excessive flow of water entering the Hydraloop system.

## QUALIFIED LIFT PUMPS

### DAB Genix VT030

This lift pump is placed on or partly in the floor.  
45.6 cm wide, 17.8 cm deep, 34.6 cm high |  
18" wide, 7" deep, 13.6" high

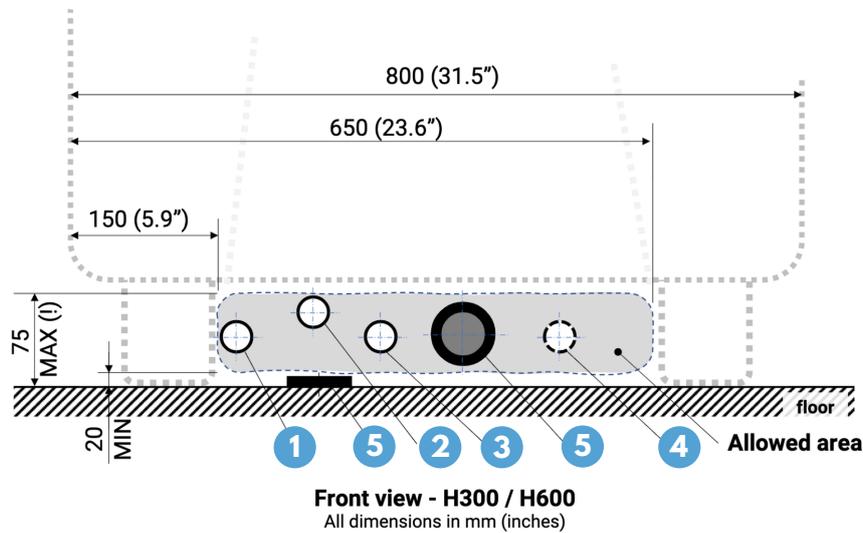
### DAB NovaBox 30/300

This lift pump is installed in a crawl space underneath the floor.  
60.7 cm wide, 30.9 cm deep, 36 cm high |  
23.9" wide, 12.2" deep, 14.1" high

### Saniflo Sanivite

This lift pump is placed on or partly in the floor.  
36.83 cm wide, 19.05 cm deep, 25.4 cm high |  
14.5" wide, 7.5" deep, 10" high

## TECHNICAL DRAWINGS FOR YOUR PLUMBER



- 1 Backup water**  
Connection to tap water or filtered rainwater supply
- 2 Toilet output**  
Recycled Hydraloop-water to toilets (pressure-controlled)
- 3 Washing machine output**  
Recycled Hydraloop-water to one washing machine (pressure-controlled)
- 4 Garden/pool output**  
Recycled Hydraloop-water to garden or pool (Hydraloop-controlled, pressurized)
- 5 Wastewater output**  
Wastewater from Hydraloop to sewer (unpressurized)

option 1: (left) in the floor

- also see top view on next page

option 2: (right) in the wall

- ! Non-potable Water Identification**  
Label all output connections. Use color coding or large warning labels to designate that the pipes are running non-potable water.

### Backup water

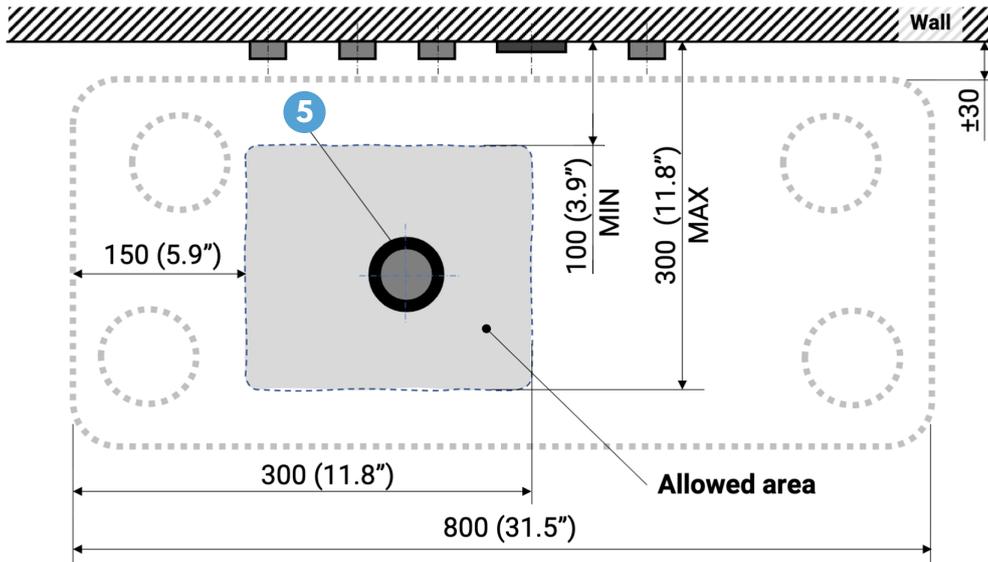
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### Toilet, washing machine, and garden/pool output

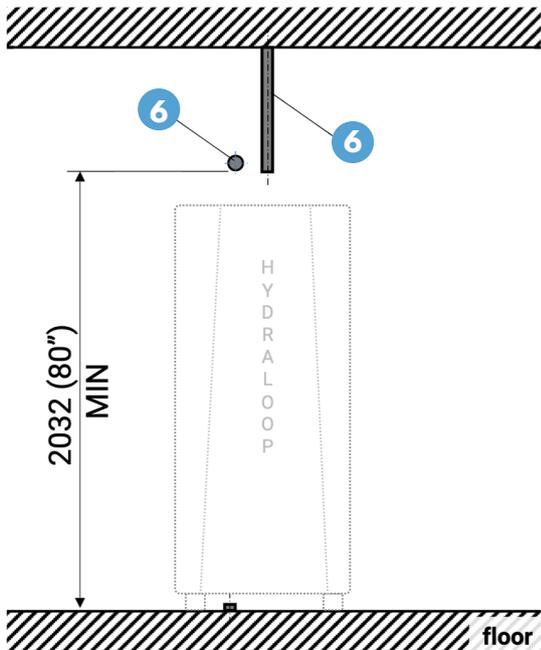
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**Top view - H300**  
All dimensions in mm (inches)



**Front view - H300 / H600**  
All dimensions in mm (inches)

- 6 Greywater inlet**  
option 1: (left) in the wall  
option 2: (right) vertical, from the ceiling