








A Hydraloop water recycling system collects, treats and redistributes lightly contaminated greywater. Before the installation of a Hydraloop unit, make sure that the plumbing in your building is well prepared. In this 'Recycle Ready' Guide, you will find all necessary information to get any building 'Recycle Ready'.

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## LEGEND

	Greywater to Hydraloop
	Backup water to Hydraloop
	Treated greywater to toilet
	Treated greywater to washing machine
	Treated greywater to garden or pool
	Greywater waste to sewer
	Ventilation

## OWNER GUIDELINES



### Work with professionals

The preparation of your plumbing must be completed by a professional plumber.



### Submit your Pre-Installation Checklist

Before the installation of your Hydraloop unit, it is important to ensure the building is 'Recycle Ready'. If the preparations are not carried out correctly and complete, additional work and costs may be needed.

Please complete the Pre-Installation Checklist with your plumber, sign it, and forward to your installer at least one week before the installation date.



### Check your local regulations

Before moving forward with your Hydraloop installation, please check your local guidelines for recycled water re-use.

## PLUMBING GUIDELINES



### Input Connections

Only collect lightly contaminated greywater. Do not connect water sources that contain grease, food scraps or waste. **No wash basin, kitchen sink, dishwasher or floor drain.**

Do not connect a washing machine without owner having purchased the Washing Machine Water Recycle Option (WMR).



### Output connections

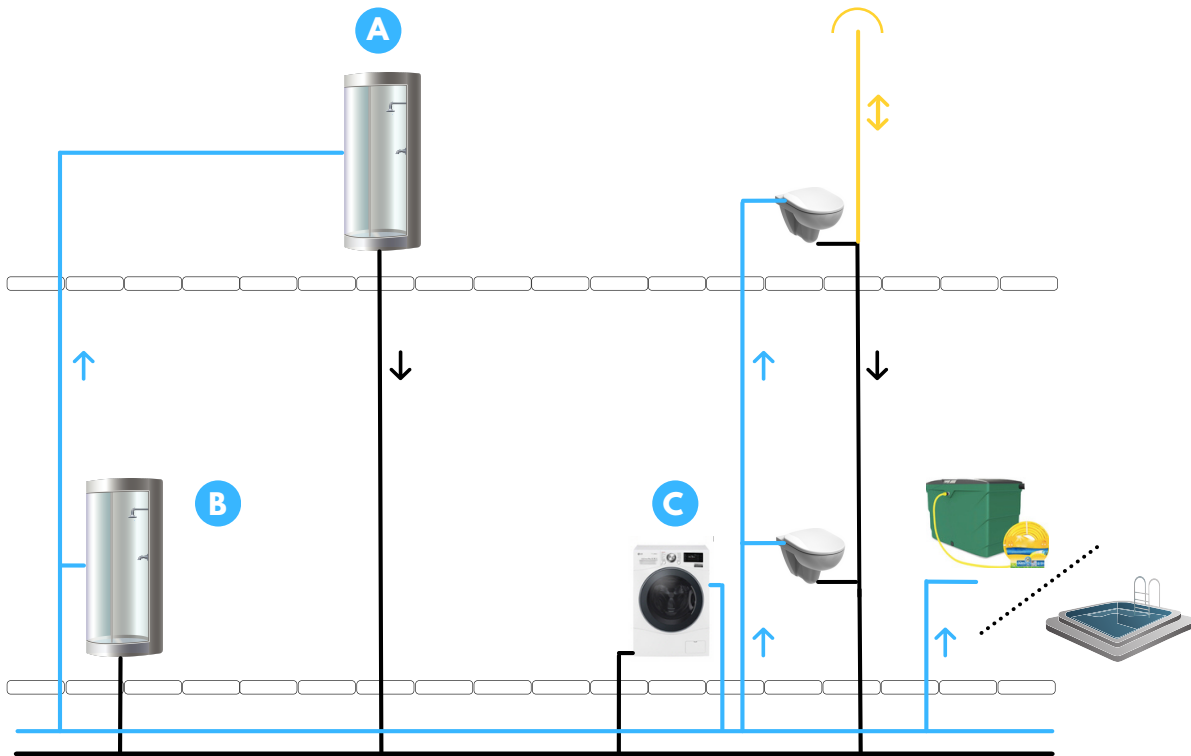
In addition to the general information in this document, please work with the technical drawings on pages 7-9.



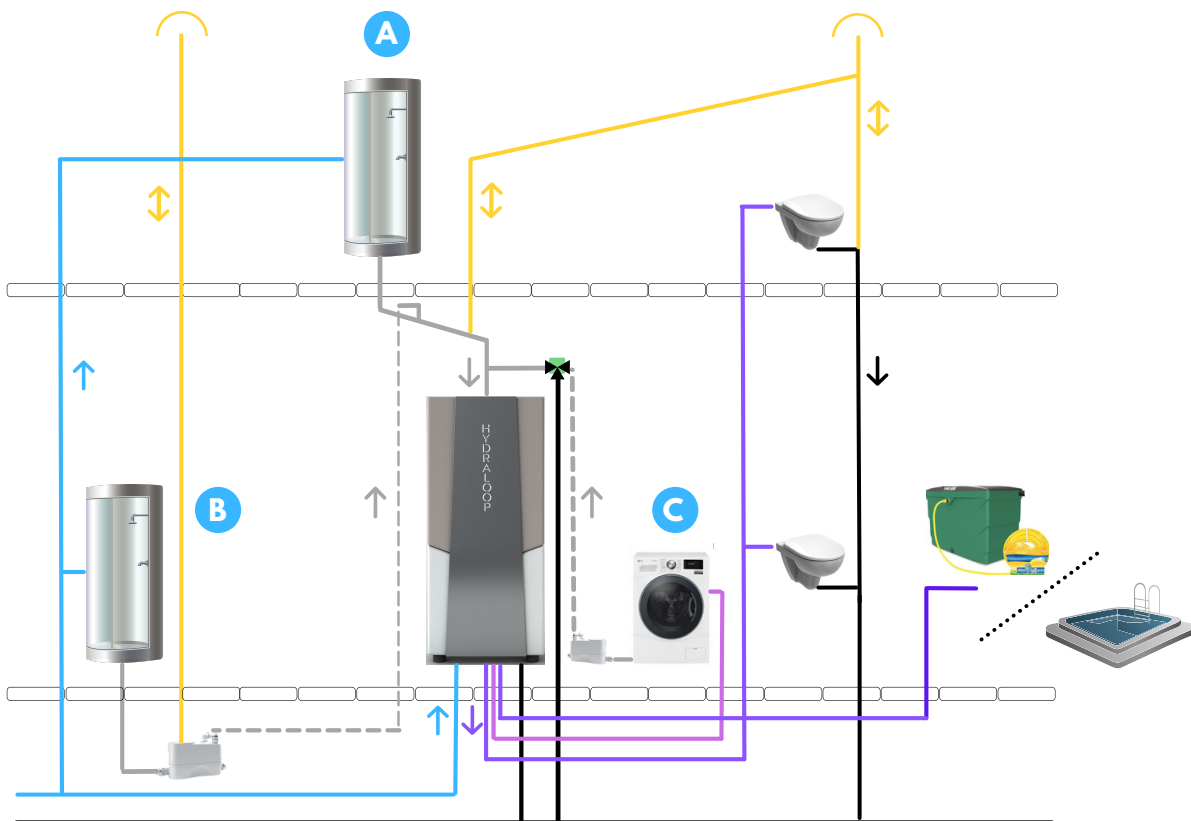
### Non-potable Water Identification

All outputs from the Hydraloop system must be identified with the word 'Non-Potable water' or by a Non-Potable water sign.

## CONVENTIONAL PLUMBING DIAGRAM



## 'RECYCLE READY' PLUMBING DIAGRAM WITH PLUMBING OPTIONS



- A** **Hydralooop installation on lower floor – input by gravity**  
Greywater from the shower, bath or other sources is gravity fed into Hydralooop
- B** **Hydralooop installation on same floor – input via lift pump**  
Greywater from the shower, bath or other sources enters Hydralooop through lift pump
- C** **Optional: Hydralooop Washing Machine Water Recycle Option (WMR)**  
50% of washing machine greywater enters the Hydralooop unit through Hydralooop-controlled **WMR**-valve

# CONNECTION OVERVIEW

## Greywater inlet to Hydraloop for water from

- shower
- bath

H300  
H600

- tumble dryer
- air conditioning
- heat pump

H600\*

- washing machine (only with **WMR** option)

H300  
H600

See page 4

\*In the current setup, the H300 system cannot collect condensation water. This option will become available in 2023. If you want to know more, please contact Hydraloop or your Hydraloop Partner.

## Power/network connections

- power supply
- wifi internet connection

See page 5

## Treated greywater output dedicated lines for

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

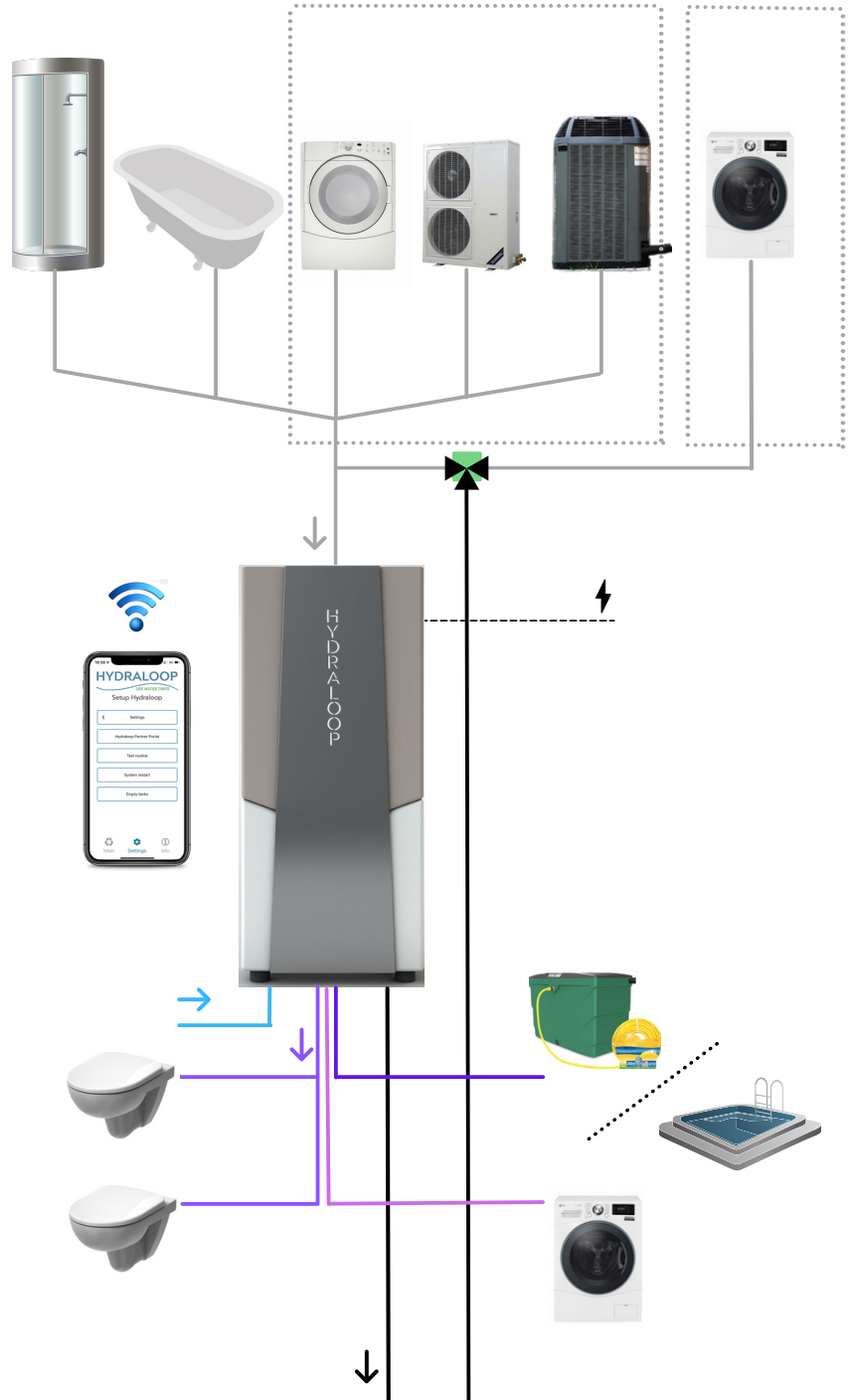
## Backup water inlet

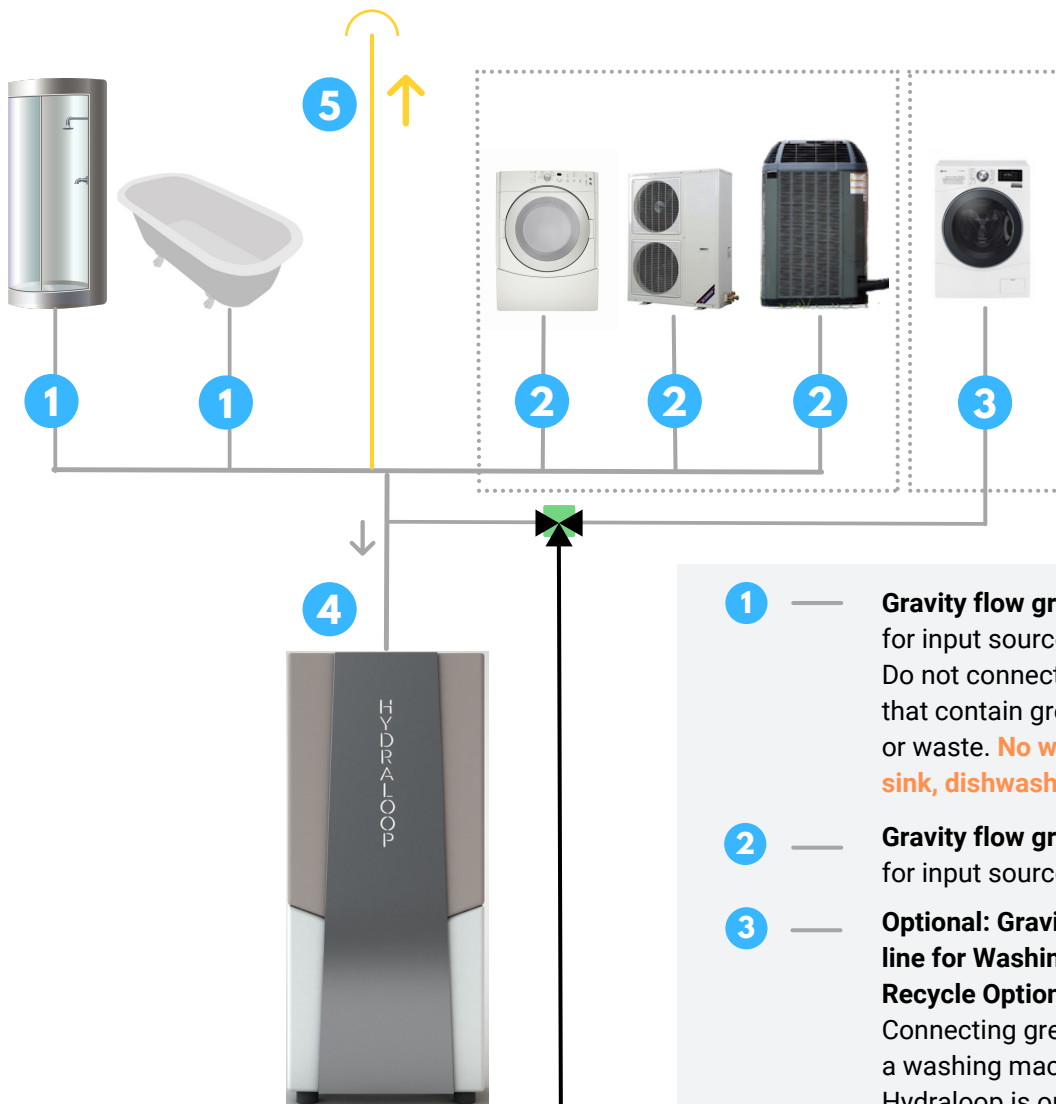
- tap water or filtered rainwater

## Wastewater outlet

- connection to sewer

See page 6





## CONNECTION DETAILS

### Greywater into Hydraloop

40mm | 1½" connections

### Use separate greywater lines

Make sure that all greywater sources enter the Hydraloop unit from above. Ensure that all greywater connections are separated from black water.

### Bring all greywater sources into one dedicated line

Connect all incoming greywater pipes into one single line going into the inlet (40 mm | 1½") on top of the Hydraloop system.

### Input by gravity or lift pump

If your greywater input sources are located on a higher floor than the Hydraloop system, you can use gravity for the input greywater. In other circumstances, you'll need a lift pump. For lift pump requirements, see page 5.

See page 5

- 1** — **Gravity flow greywater line** for input sources to H300 & H600  
Do not connect water sources that contain grease, food scraps or waste. **No wash basin, kitchen sink, dishwasher or floor drain.**
- 2** — **Gravity flow greywater line** for input sources to H600
- 3** — **Optional: Gravity flow greywater line for Washing Machine Water Recycle Option (WMR)**  
Connecting greywater output from a washing machine to the Hydraloop is only possible if you specifically choose the **WMR**.
- !** You can connect only one washing machine to the Hydraloop unit.
- 4** — **Greywater inlet**
- 5** — **Ventilation**  
Placed along the greywater line to ensure proper ventilation and to help prevent air locks. Ensure that greywater input and sewage output both have proper two-way ventilation. For more information, see schematic overview 'Recycle Ready' Plumbing Diagram on page 2.

The ventilation for the greywater input should be positioned above all greywater lines and end outside the building. You can also combine it with the sewage ventilation.

# SYSTEM CONNECTIONS, POSITIONING, LIFT PUMP REQUIREMENTS



## SYSTEM CONNECTIONS

### INTERNET

- 1 Internet connection**  
Stable internet connection with working Wifi in the room.
- !** Make sure to have a working Wifi connection with a bandwidth of 2.4 GHz or 5 GHz prior to installation. It's not possible to connect an internet cable.

### POWER

- 2 Electricity (Hydralooop system)**  
100-120V (60Hz) or 200-240V, depending on region.

We advise to position the power outlet in the room close to the top or the side of the system.

## POSITIONING

### Room specifications

Greywater inlet and optional **WMR** should be positioned at least 210 cm, 6.10" above the ground.

The room temperature should be between 14-35° C | 57-95° F. Extreme high or low temperatures should be avoided.

At any time: avoid direct sunlight on the Hydralooop unit.

We recommend placing the Hydralooop unit in a laundry room, mechanical room, or garage.

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

## LIFT PUMP REQUIREMENTS

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

### Flow

Maximum flow of appr. 100 liters per minute (LPM) | 27 USGPM.



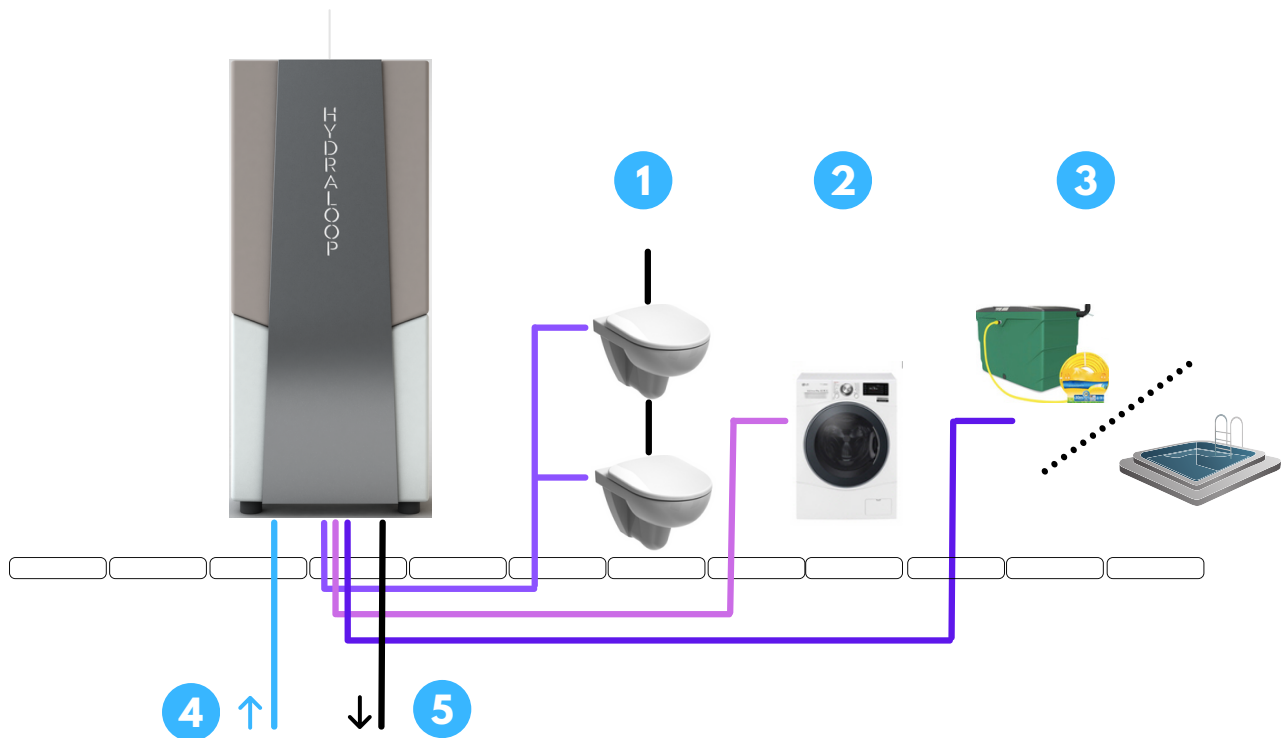
### Ventilation

Please ensure proper two-way ventilation by installing a ventilation stack that leads outside or by creating a relief line/overflow to the sewage.

### Examples of suitable lift pumps

DAB NovaBox 30/300 (230 Volt countries)  
Saniflo Sanivite (110 Volt countries)  
Liberty 405 Pump (110 Volt countries, CSA certified)

# HYDRALOOP OUTPUT CONNECTIONS: TREATED GREYWATER OUTPUT, BACKUP WATER INPUT, WASTEWATER OUTPUT



## TREATED GREYWATER

- 1 Toilet feed water**  
Treated Hydraloo-water to toilets (pressure-controlled)
- 2 Washing machine feed water**  
Treated Hydraloo-water to a washing machine (pressure-controlled)
- 3 Garden/pool output**  
Treated Hydraloo-water to garden or pool (Hydraloo-controlled, unpressurized open connection to an external storage or swimming pool) Note: Treated greywater cannot be connected directly to a garden hose or sprinkler system.

## BACKUP WATER

- 4 Backup water inlet**  
Connection to tap water or filtered rainwater supply

## WASTEWATER

- 5 Wastewater output**  
Wastewater from Hydraloo to sewer (gravity). Output operates on a timer for wastewater release every 7 days.

## CONNECTIONS

### Treated greywater

All output connections are ½" male thread (MNPT). Prepare the plumbing in the wall behind the future location of the Hydraloo unit. Connect with flexible hose. For details, see 'Technical Drawings for your Plumber', page 8-9.

### Backup water

½" male thread (MNPT), minimum water flow of 20 LPM | 5.3 USGPM, 1½-3 bar | 21-43 psi. If the pressure is higher, install a pressure regulator. If a rainwater pump is used, also install an expansion vessel and a 50-micron mesh filter.

### Wastewater

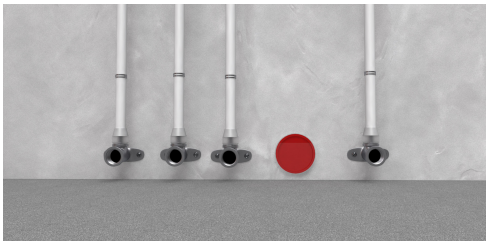
40mm | 1½" connection to sewer  
Sewer connection (minimum 50 mm | 2") with rubber sleeve underneath or behind the Hydraloo unit into the floor or wall.

## WATER SUPPLY CONFIGURATION PRIOR TO HYDRALOOP INSTALLATION

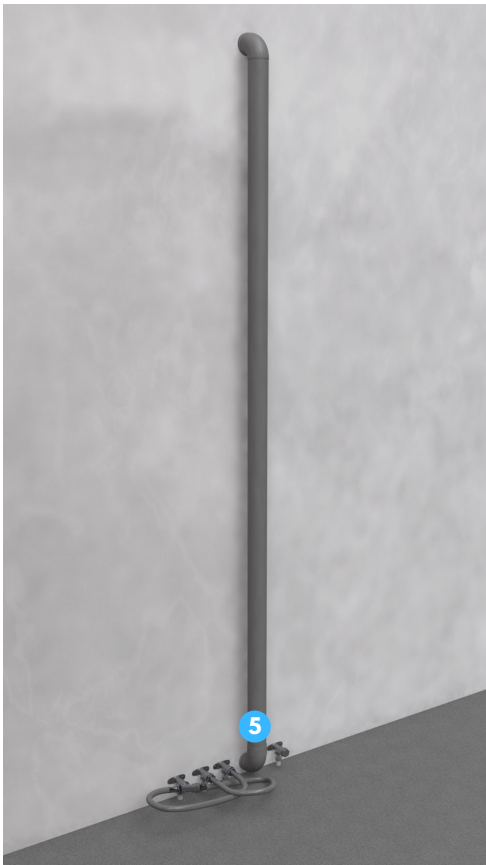
When the plumbing in your building is 'Recycle Ready', you can install a (temporary) bridge connection. This bridge connects the greywater input lines to the sewer and the backup water supply to the toilets and the washing machine. This enables you to use the showers, baths, toilets, and washing machine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

- 1 Toilet feed water
- 2 Washing machine feed water
- 3 Garden/pool output
- 4 Backup water inlet
- 5 Wastewater output

### IN THE WALL (RECOMMENDED)



- 4
- 1
- 2
- 5
- 3



- 4
- 1
- 2
- 5
- 3



### IN THE FLOOR

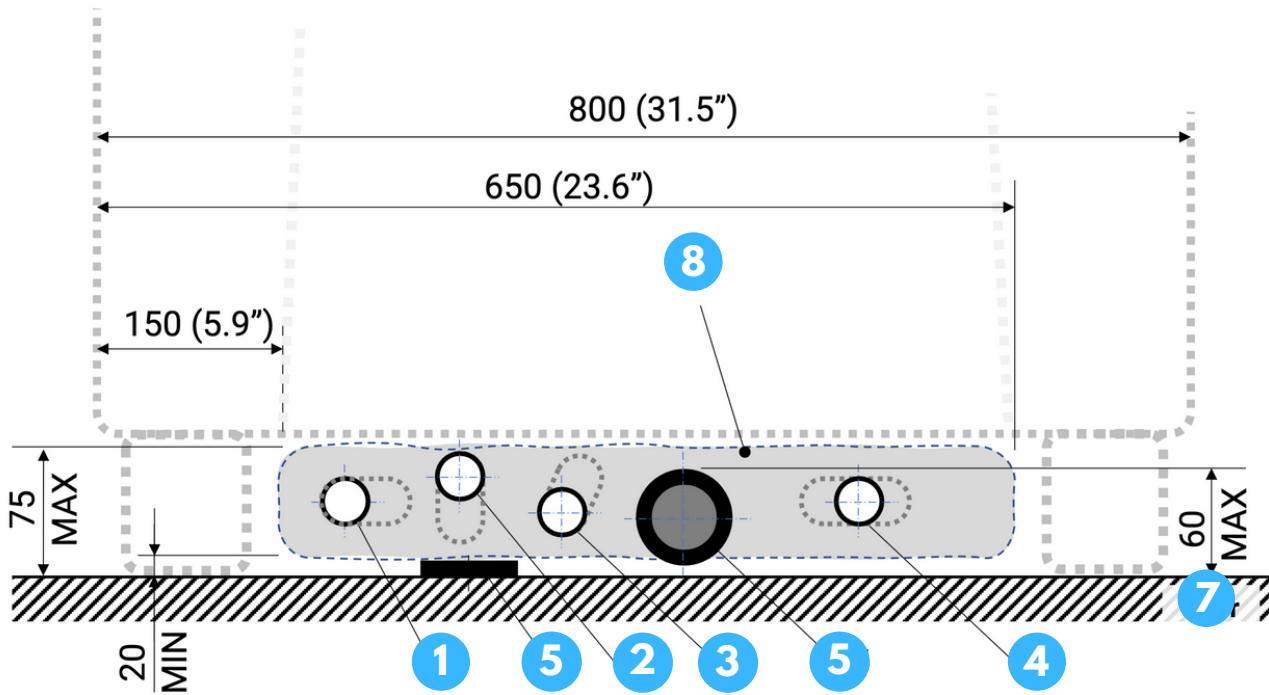


- 4
- 5
- 1
- 2
- 3



- 4
- 1
- 2
- 5
- 3





**Front view - H300 / H600**

All dimensions in mm (inches)

- 1 Toilet feed water**  
Treated Hydralooop-greywater to toilets (pressure-controlled)
- 2 Washing machine feed water**  
Treated Hydralooop-greywater to one washing machine (pressure-controlled)
- 3 Garden/pool feed water**  
Treated Hydralooop-greywater to garden or pool (unpressurized open connection to an external storage or swimming pool)
- 4 Backup water**  
Connection to tap water or filtered rainwater supply
- 5 Wastewater output**  
Wastewater from Hydralooop to sewer  
option 1: in the wall (recommended)  
option 2: in the floor

See page 7

**7 Wall**

**8 Allowed area**

**Toilet, washing machine, and garden/pool feed connections**

All output connections are ½" male thread – MNPT. We recommend preparing the plumbing in the wall behind the future location of the Hydralooop unit. Connect with flexible hose.

**Backup water connection**

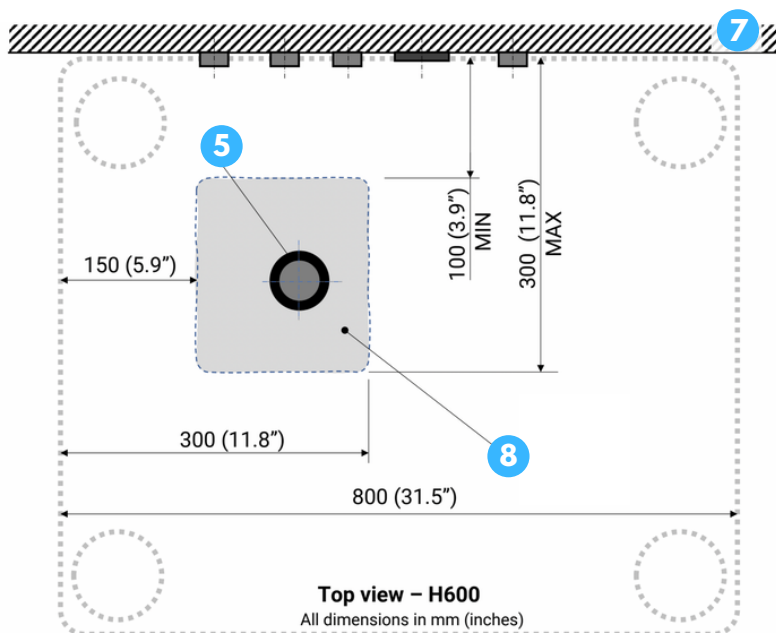
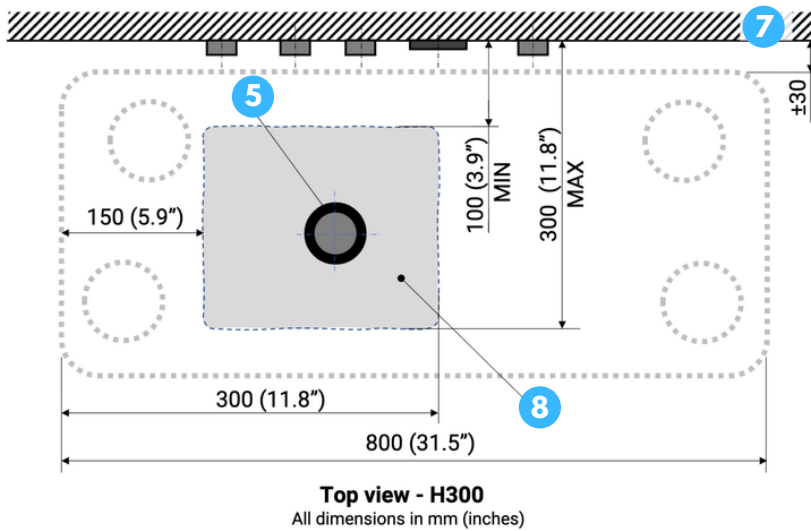
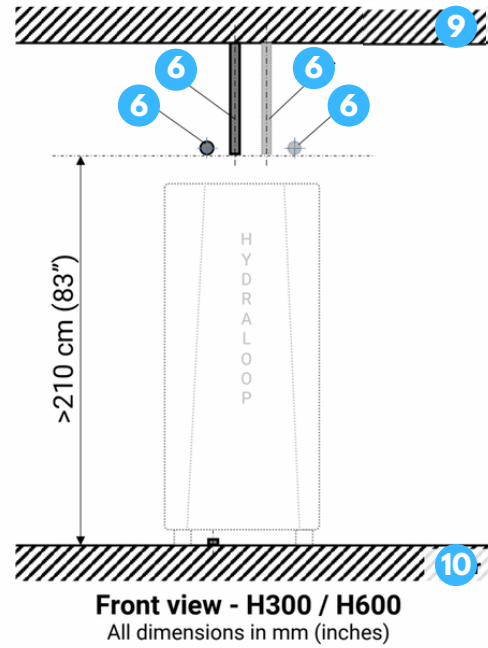
½" male thread (MNPT), minimum water flow of 20 LPM | 5.3 USGPM, 1½-3 bar | 21-43 psi. If the pressure is higher, install a pressure regulator. If a rainwater pump is used, also install an expansion vessel and a 50-micron mesh filter.

**Wastewater output**

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



- 5 Wastewater output**  
Wastewater from Hydralooop to sewer  
option 1: in the wall (recommended)  
option 2: in the floor
- 6 Greywater inlet**  
option 1: (left) in the wall  
option 2: (right) vertical, from the ceiling
- 7 Wall**
- 8 Allowed area**
- 9 Ceiling**
- 10 Floor**



## H300

### Capacity

300 liters | 80 gallons

### Dimensions

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

### Voltage

Versions for 100-120V (60Hz) or 200-240V (50 Hz), 24 Volt internal

### Power consumption

On average: 180 kWh/year per system

### Noise Level

± 44 dB

### Greywater input sources

- shower
- bath
- washing machine (only with WMR)

## H600

### Capacity

600 liters | 160 gallons

### Dimensions

80 cm wide, 69 cm deep, 187 cm high |  
31 ½" wide, 27,5" deep, 74" high

### Voltage

Versions for 100-120V (60Hz) or 200-240V (50 Hz), 24 Volt internal

### Power consumption

On average: 350 kWh/year per system

### Noise Level

± 46 dB

### Greywater input sources

- shower
- bath
- tumble dryer
- air conditioning
- heat pump
- washing machine (only with WMR)

