

GRAVIT'*eau*

## Regular maintenance

This sheet explains how to properly maintain a Gravit'eau water recycling system for handwashing.



**WHEN?**

- ✓ Every 2 weeks
- ✓ Water smells, is soapy or dirty



### Empty the system

1

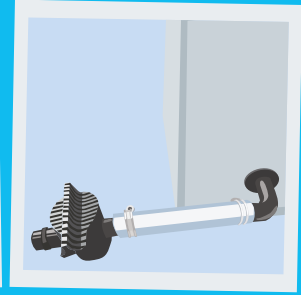
- ✓ Empty the sand and grease trap, clean it and refill it with water. Check that the outlet is not leaking.

2

- ✓ Empty clean water and membrane water tanks. Check, if outlets are not leaking. Fix if leaking.



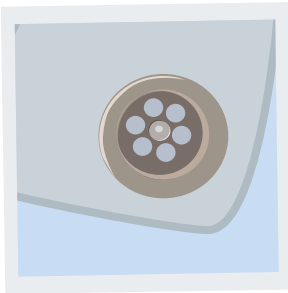
**NOTE:** To empty the clean and membrane water tanks, open the valves at the bottom of the tanks. If necessary lift gently to remove all water.



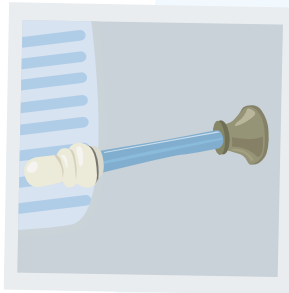
## Check, clean and record

3

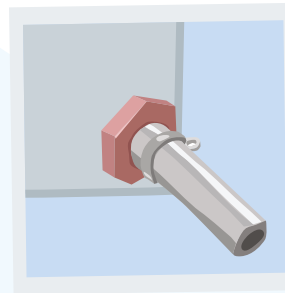
- ✓ Check all other connections for leakages. Fix connection by tightening if needed.



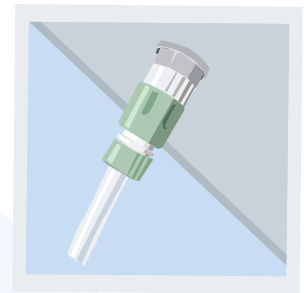
the sink outlet



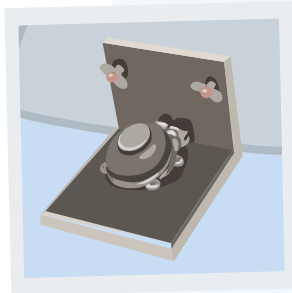
the membrane outlet



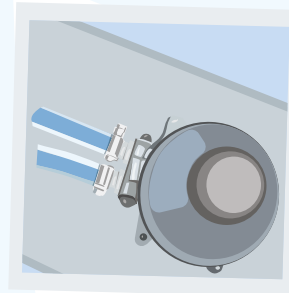
clean tank outlet



the tap inlet



the pump



the pump

4

- ✓ Check, if the pump is attached to the support board or floor and is functional. Check, if pump is working.

5

- ✓ Clean the system from dust and dirt.

6

- ✓ Record in the log book any leakage or damage.



**Do not let the membrane module dry. Drying damages it. Do not clean or scratch inside the membrane module.**

# C

## Refill water

7

- ✓ Refill the system with water until the membrane tank is full. Do not overfill.

8

- ✓ Record refilling of water in the log book.



## Chlorination: Check Aquatab flow container

# D

9

- ✓ Check if chlorine tabs are in the dispenser. Refill new tabs to the dispenser, if necessary and close the lid again.

10

- ✓ Record all measurements and tab added in the log book.

11

- ✓ If your system doesn't include an Aquatab device, you can manually add chlorine to the clean water tank each day to prevent recontamination of the recycled water.

**?**

**WHEN?**

- ✓ Every 3 month



# E

## Refill soap container when empty

12

- ✓ Refill soap container with diluted liquid soap -> for foam soap: (50% liquid soap, 50% water).

13

- ✓ Check, if the dispenser is fixed and foam is formed.

14

- ✓ Record refilling in the log book.



GRAVIT'eau

# Advanced maintenance

## Cleaning the membrane module



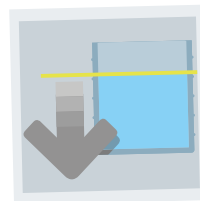
Do it only when:

- ✓ flowrate is lower than 1.5 L/hour
- ✓ Membrane is black and stinks badly



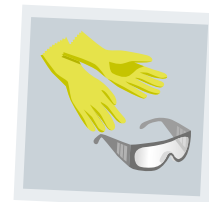
1

- ✓ Empty all tanks and refill the membrane tank with clean water until the membrane is covered.



2

- ✓ Wear personal protective equipment (gloves and glasses).



3

- ✓ Prepare sodium hypochlorite (bleach). If using bleach of 10-12%, add 80-100 ml into the tank. Maximum concentration is 0.05% or 500 mg/L.



4

- ✓ Add sodium hypochlorite to the tank and stir it.



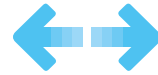
5

- ✓ Leave it for 30 min. Do not leave it longer than 30 min.



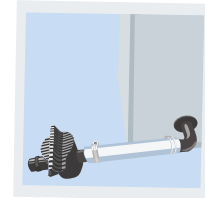
6

✓ Move the module in the tank if possible to allow material to come off the membrane.



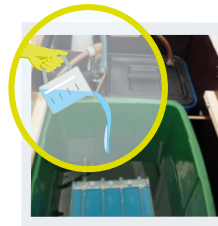
7

✓ Flush chlorine water out of the tank, refill with clean water.



8

✓ Flush with water 2-3 times.



9

✓ Leave the system empty for 1 hour but do not let it dry out.



10

✓ Refill it with water.



## IMPRINT

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# GRAVIT'eau

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## CONSORTIUM PARTNERS



University of Applied Sciences and Arts  
Northwestern Switzerland



Swiss TPH

Swiss Tropical and Public Health Institute



SPIN-OFF  
of Eawag

We Understand Behaviour Change



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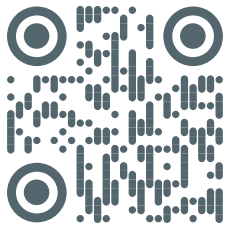
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hands4health.dev

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