



MAJIECO-GRAY

RECOVERY PLANTS
AND GREY WATER TREATMENT

ECO

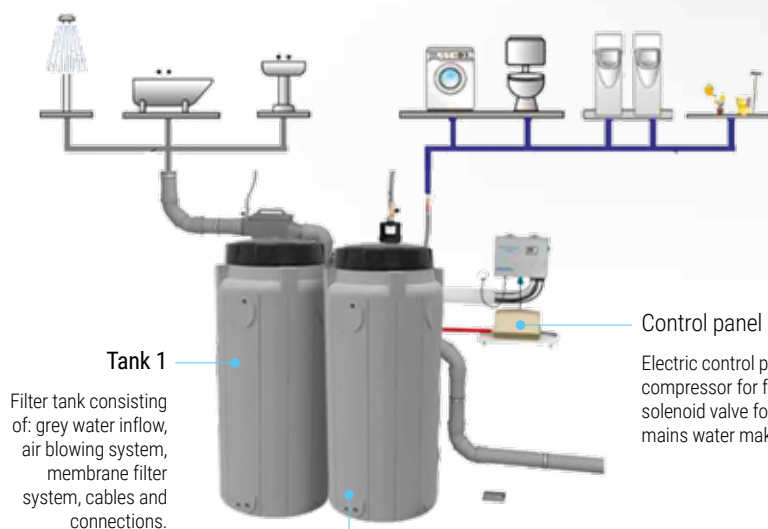
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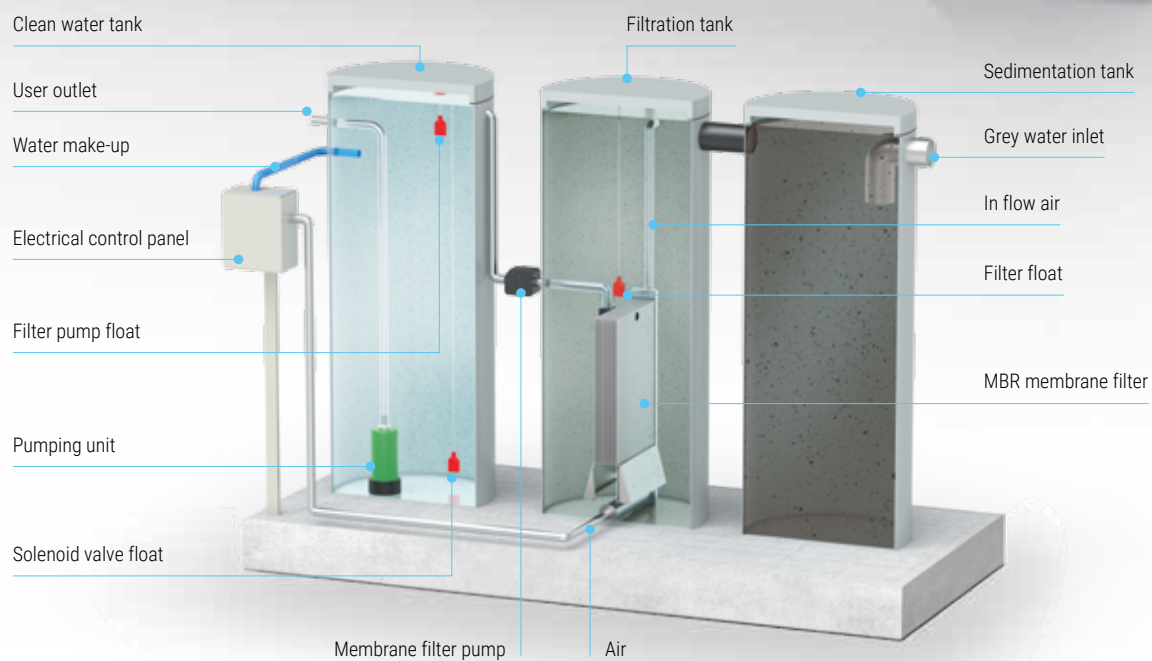
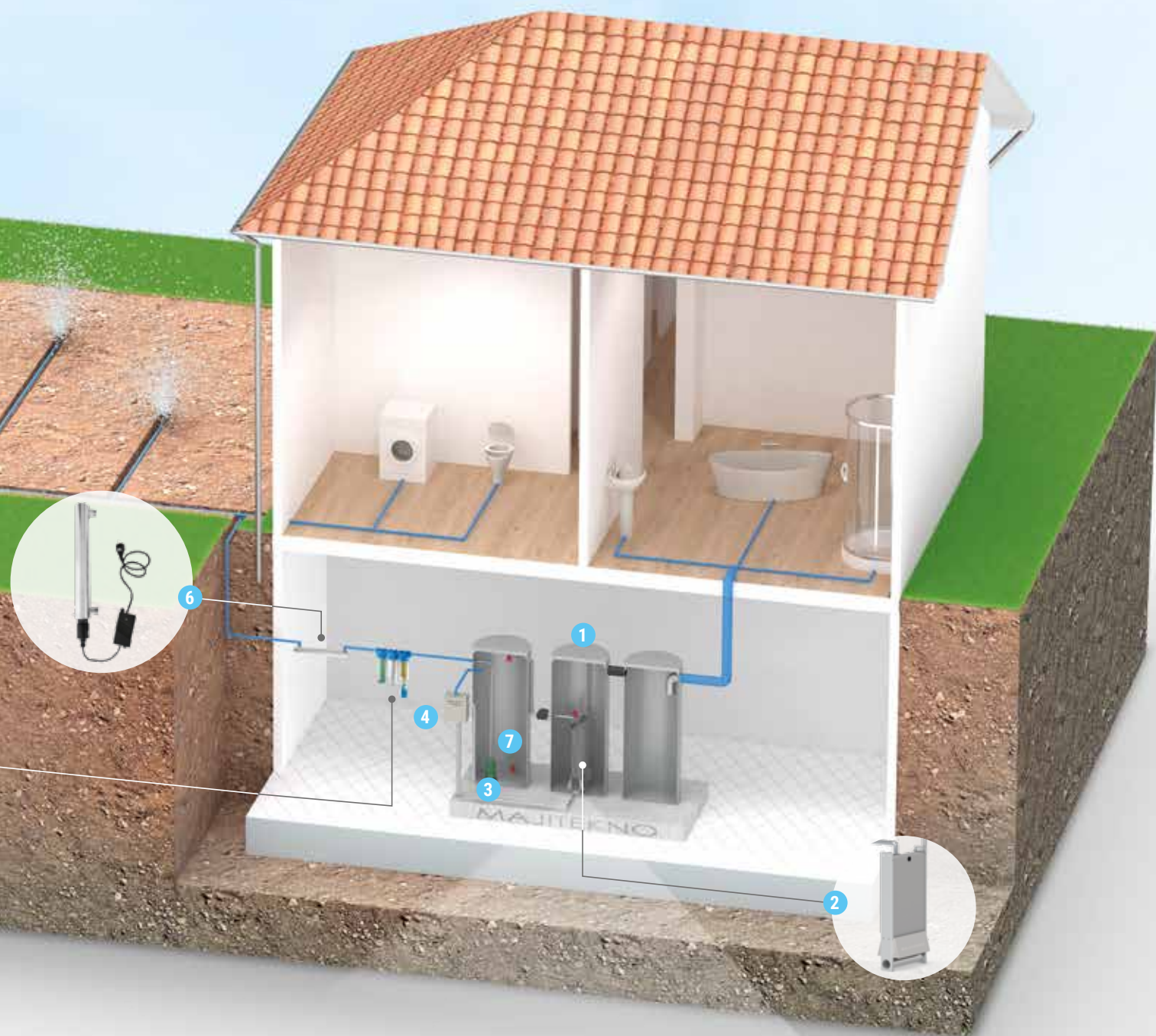
Majitekno designs and manufactures grey water recovery and treatment plants from the discharge of showers, bath tubs, bidets and washbasins. The water, which is filtered through a membrane system with a 99.99% filtering efficiency, can be reused for washing, toilet flushing, cleaning and irrigation systems. The filter uses bio-membrane technology and guarantees the total separation of biomass from the purified grey water, resulting in water free of solids and germs. A third tank can be used for sedimentation of the wastewater.

Above-ground tanks can be installed in a technical room or outdoors with underground tanks.

The quality of the treated water meets the requirements of the European Bathing Water Regulations 76/160/EEC, 20006/7/EC and DIN 1956, Class 2 and UNI EN 1717:2002 and complies with the Drinking Water Directive 2001.



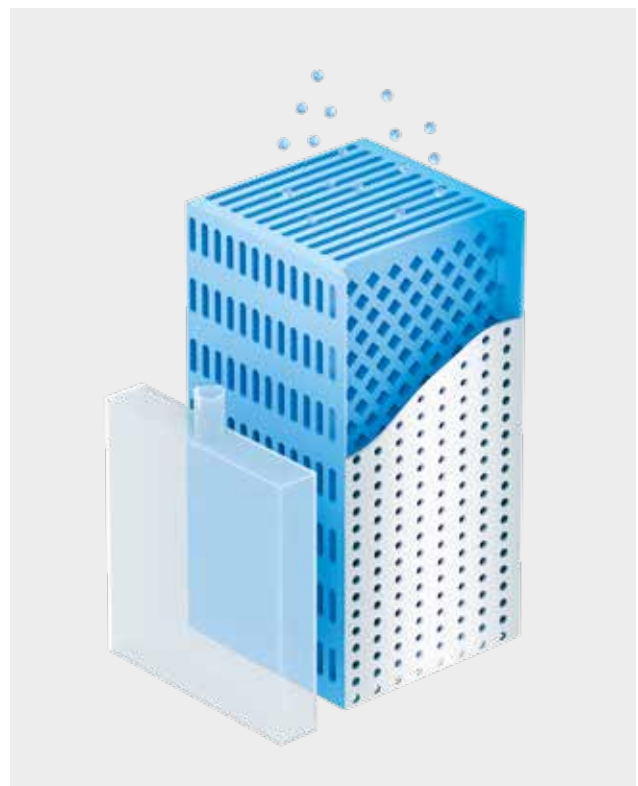
**Reduces bacteria
up to 99,99%**



- 1 Tanks
 - Sedimentation tank
 - Filtration tank
 - Clean water tank with submersible consumer pump
- 2 MBR membrane filter with 0.04 micron membrane pore size
- 3 Submersible pump
- 4 Electric control panel with air compressor for filter and solenoid valve for water mains water make-up
- 5 Multistage filter
- 6 Debacterialisation with UV lamp
- 7 Set of floats for water level management

MEMBRANE FILTER

Thanks to its barrier effect, the organic membrane filter technology (Micro-Clear) ensures that the biomass is completely separated from the purified grey water. This ensures that the purified water is free of solids, bacteria and viruses with a filter retention rate of 99.99%. The biological processing procedure of the membrane filter system can be used safely for the re-use of purified grey water in the home and garden. The required maintenance is extremely low: the system only needs an annual inspection to check that the system parts are functioning properly, and possibly a simple cleaning of the membranes that make up the filter.



Plant versions	BASE	MULTI USE
Recovery for use	Exterior	Exterior + Interior
Filters	2	2 + 5 + 6
Consisting of	- Minimum 3 tanks. - Pumping unit. - MBR membrane filter with 99.99% filtration capacity. - Electronic control system with solenoid valve for drinking water make-up.	- Minimum 3 tanks. - Pumping unit. - MBR membrane filter with 99.99% filtration capacity. - 3-stage multistage filter. - Debacterialisation with UV lamp - Electronic control system with solenoid valve for drinking water make-up.
Suitable for	Reuse of water for irrigation and cleaning outside the home.	Reuse of water for washing machine, toilet flushing, internal and external house cleaning, irrigation.

APPLICATION EXAMPLES

Fitness centre

N. Persons/day (average)	20
Average daily shower water consumption	75 L
No. of days of use	300 days/year

450.000

L/year

Consumption of reusable drinking water for non-potable use

RECOMMENDED SOLUTION
System with filtration system
Capacity 2000 L/day

Multi-family apartment building

No. of flats	4
No. of total users	10
Average daily shower water consumption	75 L
No. of days of use	365 days/year

275.000

L/year

Consumption of reusable drinking water for non-potable use

RECOMMENDED SOLUTION
System with filtration system
Capacity 1000 L/day

Single-family house

No. of household members	4
Average daily shower water consumption	75 L
No. of days of use	365 days/year

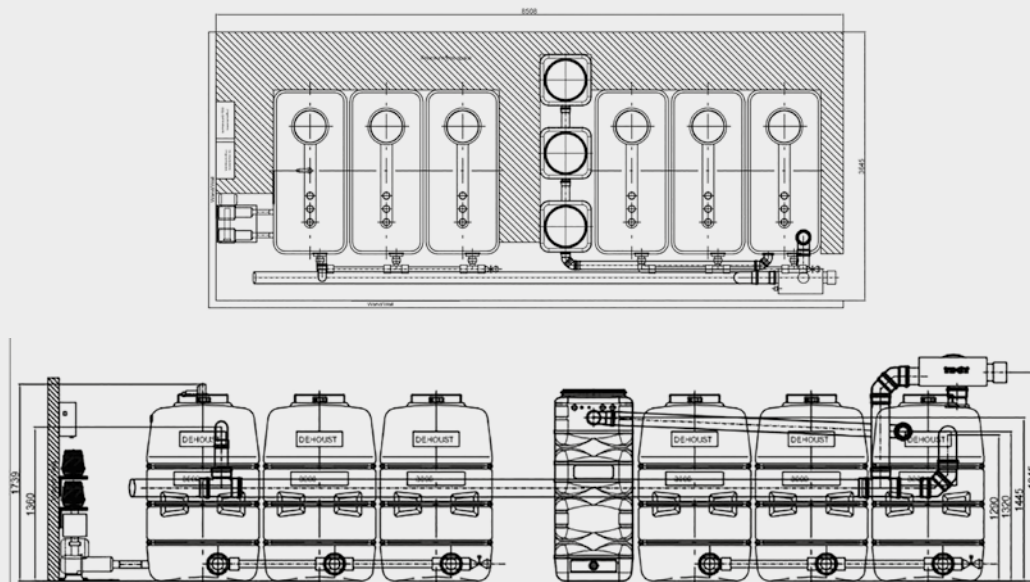
110.000

L/year

Consumption of reusable drinking water for non-potable use

RECOMMENDED SOLUTION
System with filtration system
Capacity 500 L/day

EXAMPLE OF INDOOR INSTALLATION



THE ADVANTAGES OF THE SYSTEM MAJIECO-GRAY



It reduces the consumption of drinking water.

The use of grey water in the toilet flushing system or for irrigation allows the reduction of drinking water consumption and contributes to the energy certification of the building.



Easy installation.

MAJIECO-GRAY is installed indoors with above-ground tanks and has a practical pre-assembled system that simplifies installation.



Maximum efficiency in minimum space.

Tank volumes of 500 L, 1,000 L and 4,000 L ensure optimal storage in a small space. Dimensions: Ø 650 - H 1650 mm (for a single 500 L tank).



Intelligent SMART system.

MAJIECO-GRAY is equipped with an intelligent solenoid valve that is automatically activated to replenish water from the aqueduct.



majitekno.com

MAJITEKNO
engineering for water

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