

# RECOVERY AND REUSE GRAY WATER



biogrigio  
Home



StaRplast 



# Water is our future.

Reuse gray waters in your home with total autonomy, today you can do it, with

# biogrigio Home



Starplast has designed a new gray recovery system that you conveniently install in your home.

**NOT ONLY THE SAVINGS FOR THE INDIVIDUAL FAMILIES, BUT ALSO GREAT BENEFITS FOR THE ENVIRONMENT AND THE COMMUNITY.**

One response to the growing demand for the water needs in homes is the reuse of water coming from the drains of sinks and showers used for personal body care: the so-called GRAY WATER, which can be reused for non-potable purposes ( example flushing of toilets) through the use of a small treatment system.

Already several countries in Europe and throughout the world have included in their regulations, on the subject of water saving, the obligation to equip one's home with a gray water reuse system for non-potable uses: toilet cisterns, garden watering, car washing, etc.

**PER CAPITA CONSUMPTION 220 LITERS PER DAY**

In industrialized countries, it appears that the per capita consumption of drinking water per single person within their own home is around 220 litres/day with data continually increasing.

By implementing your own water system with a gray water recovery and combined with a rainwater recovery system, allows families to save at least 50% of their requirements.

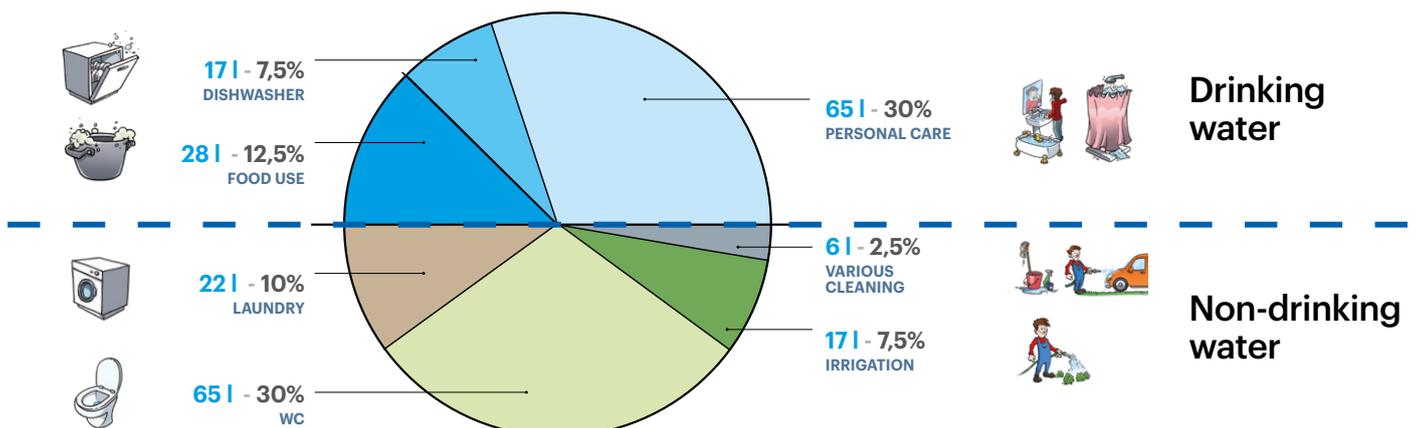
**SAVINGS OF 50%, COLLECTIVE BENEFITS FOR REDUCTION OF: POTABILIZATION, OVERLOADING OF NETWORKS AND BETTER QUALITY OF POTABLE WATER.**

In addition to significant economic savings for individual users on the drinking water bill including the fees relating to sewerage and purification services, strong benefits are also obtained on a social level due to the reduction in costs of potabilization (less supply

- less consumption energy), the reduction of overloading of waste sewerage and purification networks and, no less importantly, the greater availability of drinking water for all.



## 220 LITERS daily water consumption per person





## DATA SHEET

**Specific treatment flow rate** 50 - 70 litres/inhabitant per day

**Maximum transfer flow rate** 80 litres/min

**Treatment capacity** 500 litres/day

**Accumulation of treated water** 300 litres

**Pre treatments** Three lapping separation sections and sedimentation with automatic valve and air pumps with scheduled discharges

**Tank with bag filter** Tank with interchangeable bag filter for hair parting residues and for the material sedimented

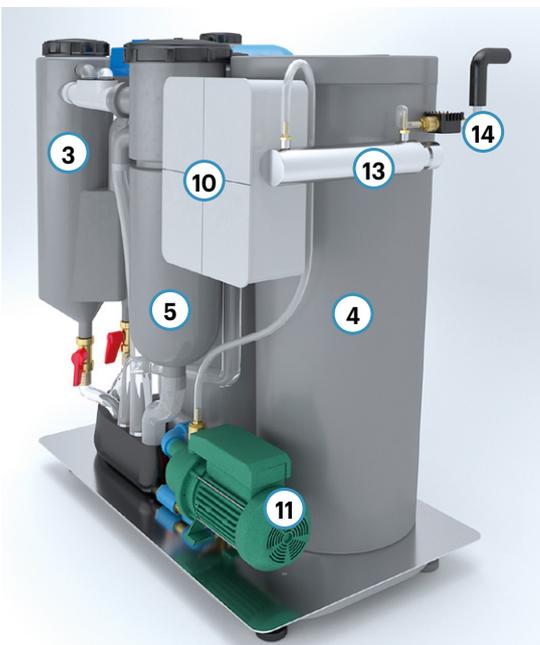
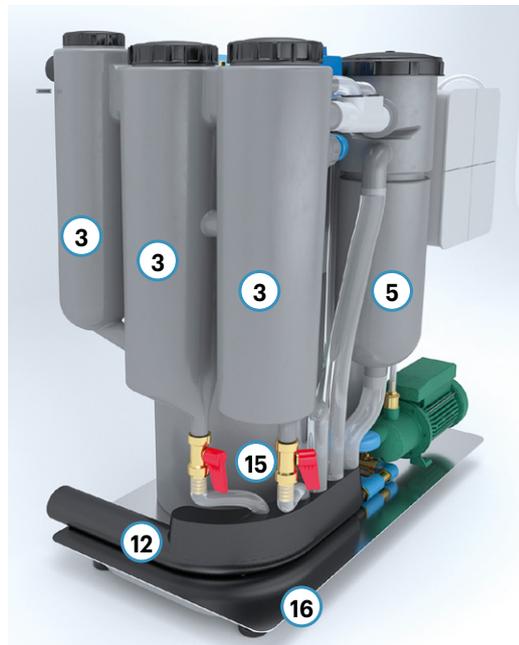
**Biological treatment** Equalization and oxidation tank equipped with ultrafiltration membrane and pump sucking purified water

**Disinfection** High pressure UV sterilization lamp 0.20 kW/h

**Pressurization system** Multi-stage centrifugal pump with integrated presscontrol – Flow rate 60 litres/min, pressure 3.5 bar. Power 0.55 kW

**Control unit** Control unit equipped with Dedicated APP for smartphones with data visualization operation, consumption, water and energy saving e maintenance alarms.

**Maintenance** Replacing the hair bag filter (approx 1 time per month); cleaning of the ultrafiltration membrane (rinsing with running water approximately once a year).



## LEGEND

- 1 - Purified water accumulation tank for reuse
- 2 - Lid
- 3 - Primary treatment consisting of three tanks, with PVC inlet diameter 60 mm
- 4 - Secondary treatment: (a) oxidation (b) ultrafiltrat
- 5 - Tank with bag filter, reused for rinsing the filters
- 6 - Valve with normally open actuator, for secondary treatment supply
- 7 - Diaphragm compressor
- 8 - Air solenoid valves
- 9 - 60 mm diameter collector for bag filter su
- 10 - Electrical panel with PLC
- 11 - Pump for supplying utilities
- 12 - Total exhaust manifold diameter 80 mm
- 13 - UV disinfection lamp
- 14 - Digital litre-counter
- 15 - Total exhaust valve group
- 16 - Sheet metal base
- 17 - Aluminum panel with display



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