

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.

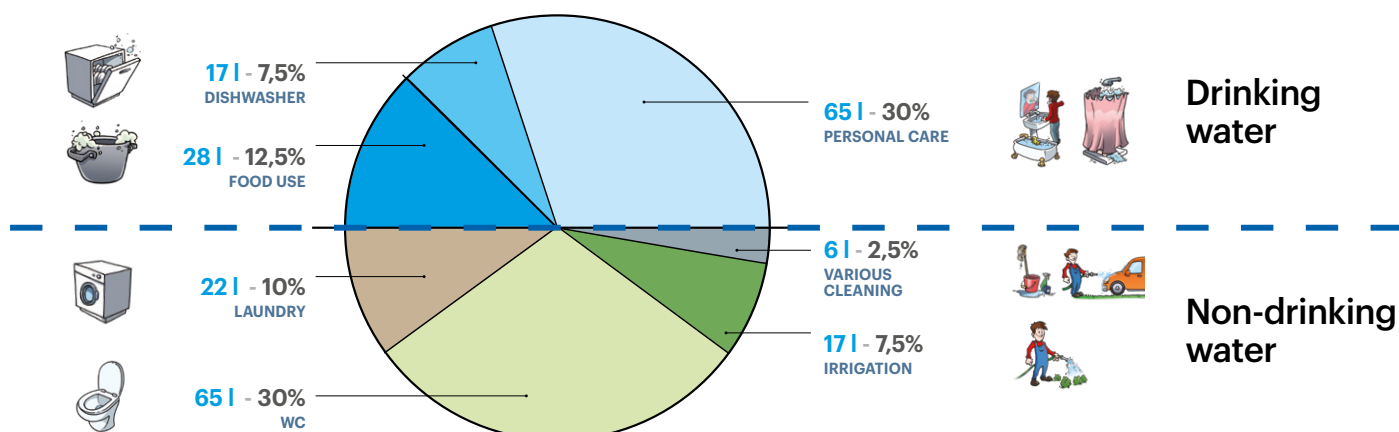
SAVINGS OF 50%, COLLECTIVE BENEFITS FOR REDUCTION OF: POTABILIZATION, OVERLOADING OF NETWORKS AND BETTER QUALITY OF POTABLE WATER.

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

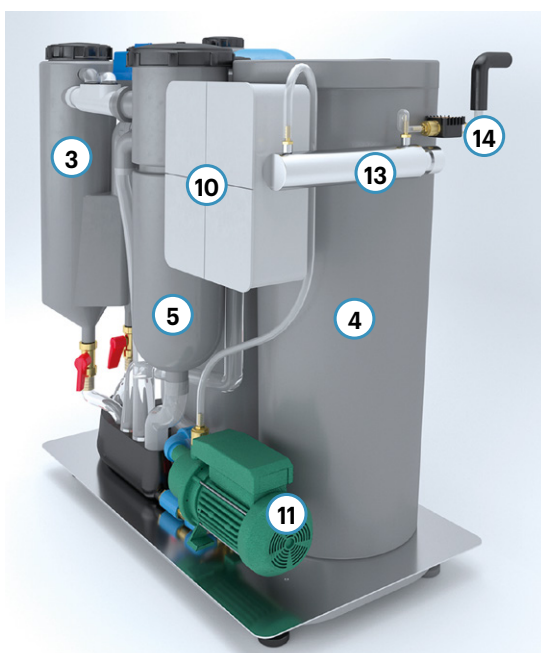
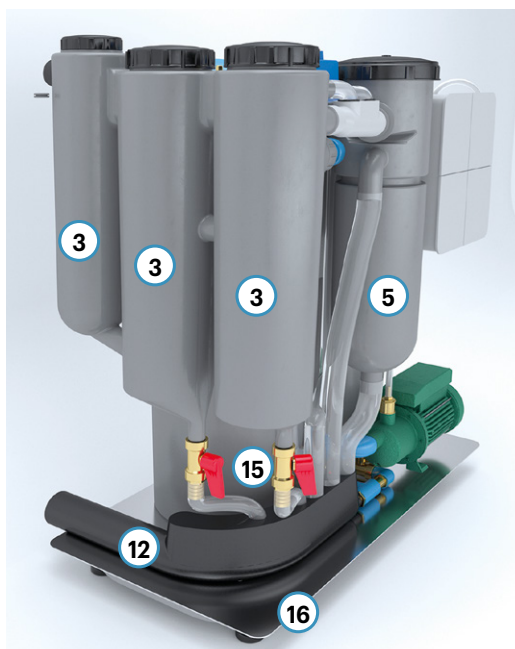
Biological treatment Equalization and oxidation tank equipped with ultrafiltration membrane and pump sucking purified water

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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