

Eflo GREY

Grey Water Re Cycling

EfloGREY Benefits

Ultra Filtration Technology for Disinfection

De-Centralised Treatment

Reduction in Volume of Bought in Water

Automatic, Skid Mounted Process including Residual Disinfection.

Systems 10m³ per day upwards to District size

LEED & PEARL benefits

General Description

Domestic water usage continues to put ever higher demands on municipal supplies and bigger costs on consumers.

Only a very small fraction of daily water consumption is used for drinking and cooking. Therefore, Grey Water Recycling for use as toilet flushing, irrigation and wash water makes economic sense.

In arid regions where potable water is created at great expense by desalination, the economics are more attractive still.

Grey Water is considered to be from showers, hand wash basins and baths. Toilet "black" water is excluded, as is kitchen sink and dishwasher water due to the oils and oily water emulsions. Separate drainage is required.

The treated Grey Water is disinfected, stored and ready for use via a separate rising main.

Eflo International Ltd, the UK designer and of wastewater treatment technologies, offer innovative treatment solutions.

Eflo has designed & installed treatment plants in the Middle East, Africa, Caribbean the Indian Ocean islands over a period of more than 30 years.

As well as the **EfloGREY**, Grey Water recycling, Eflo offers a range of other waste water treatment products for both sewage, industrial waste water & water re-use.

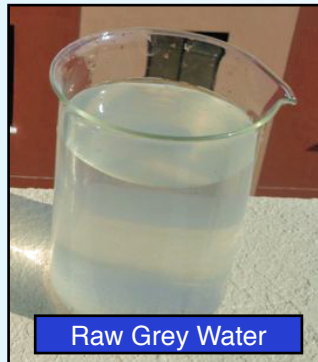
Eflo is part of the Concorde Corodex Group of companies and through this group can offer bespoke potable water treatment systems including River Water Treatment and Seawater Reverse Osmosis. Water treatment plants for small communities to large towns.

EFLO Products :

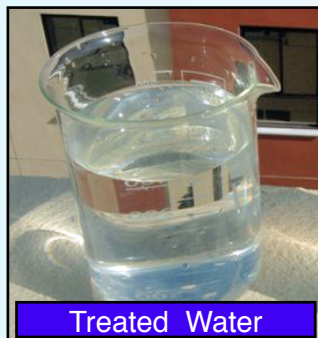
- EfloCT** Extended Aeration
- EfloSAF** Submerged Aerated Filter
- EfloSBR** Sequential Batch Reactor
- EfloMBR** Membrane Bio-Reactor
- EfloDAF** Dissolved Air Floatation
- EfloSEP** Oil Water Separator
- EfloGREY** Grey Water Re cycling



EfloGREY Grey Water Treatment Plant, Dubai Investment Park, UAE. 70 m³/d



Raw Grey Water



Treated Water



EfloGREY Grey Water Treatment Plant Abdali Project Jordan. 250 m³/d

Eflo GREY

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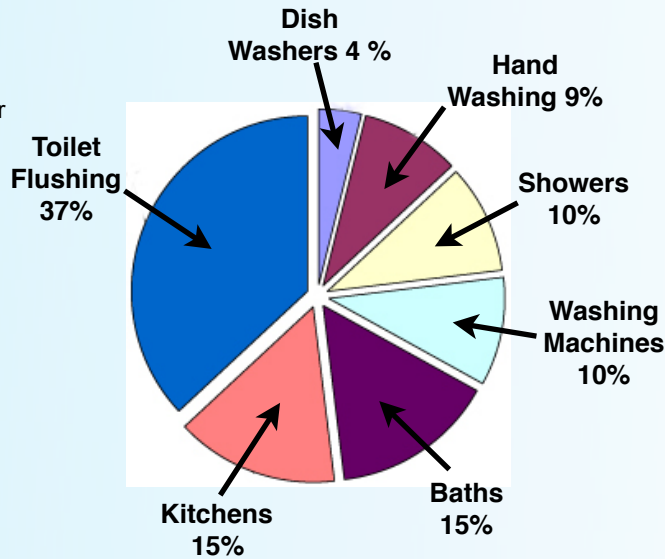
EfloGREY Treatment Process

Previously, Grey Water just excluded toilet water - the Black Water. Hence Grey & Black Water. The EfloGREY process also excludes kitchen & dishwasher water since this is very high in BOD and fats oils & greases. The result is Light Grey Water.

Treatment of Grey Water must address all of the contaminants and it must be treated to a quality whereby it is of use in daily life.

The reality is that Grey Water contains solids, hairs, organic contaminants, oils, bacteria/E-Coli and measurable levels of BOD.

The **EfloGREY** process includes: Pre-disinfection with chlorination and ozone, self cleaning pre membrane filter, Ultra Filtration membranes, auto membrane cleaning system, stored filtrate disinfection with chlorine.

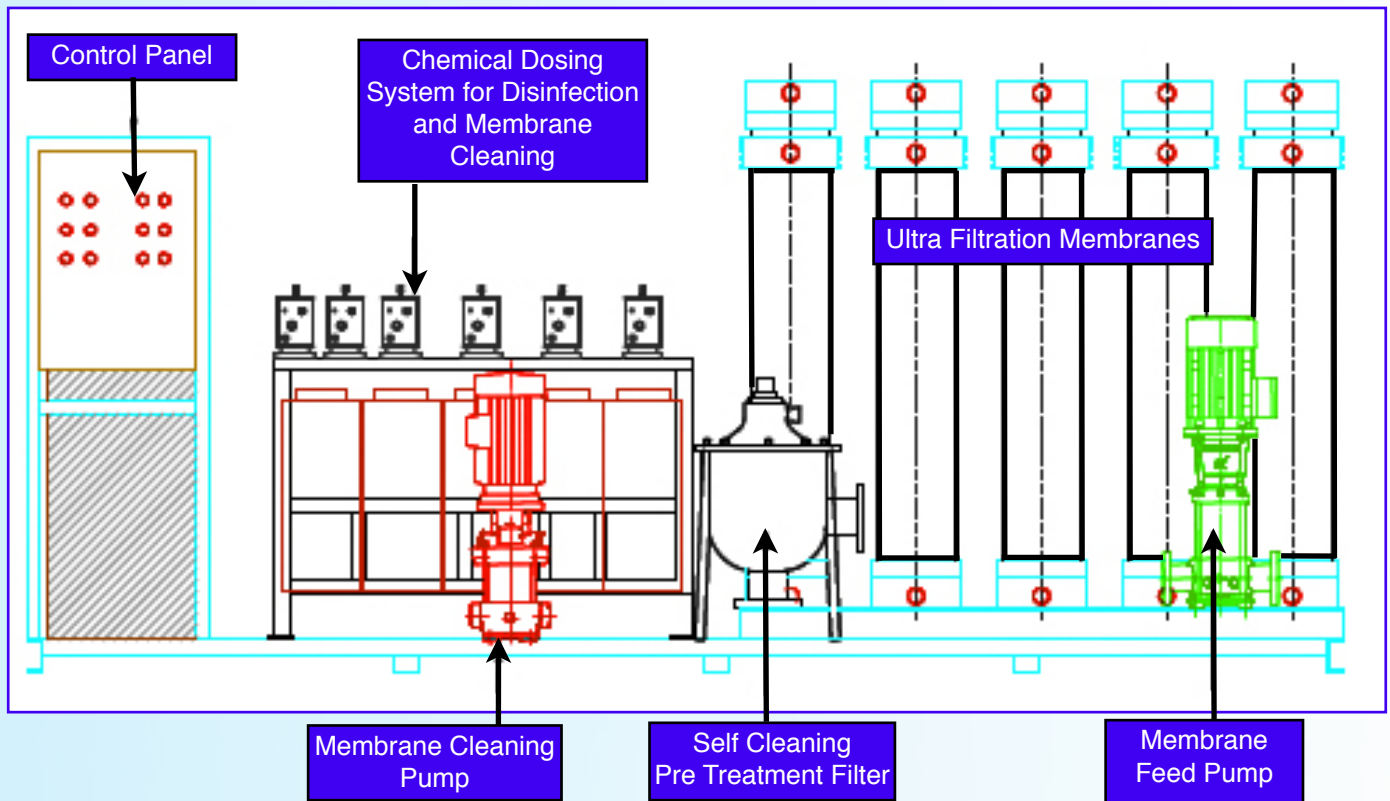


Potable Water Use

The chart shows the normal domestic usage of potable water.

Hand Washing, Showers, Clothes Washing Machines and Baths are all Grey Water.

This represents 44% of water use and water that is available for Grey Water Treatment.



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