

# 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 incl. Residual Disinfection.

Systems 10m<sup>3</sup> per day upwards to District size

LEED & PEARL benefits

Complies with British Standard BS 8525-1 2010

## General Description

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

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.

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.

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

## Eflo - About Us

**Eflo International Ltd**, UK is an OEM company offering proven and robust technologies for advanced wastewater treatment systems for both domestic and industrial waste water.

Eflo also designs and manufactures reverse osmosis plants for sea water and brackish water desalination delivering these as ready to run packaged plants in either skid for or containerised.

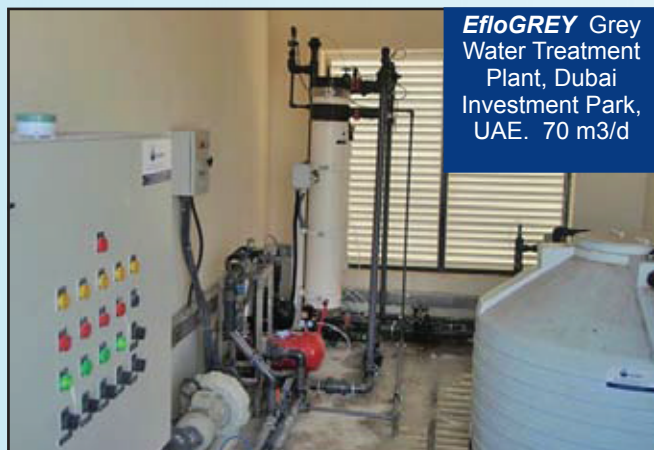
**Eflo** has designed & installed treatment plants in Europe, the Middle East, Africa, Caribbean the Indian Ocean islands over a period of more than 40 years and can delivery globally through local agents who provide product support.

**Eflo** offers a range of other innovative water treatment products including oily water separation and DAF processes as well as water treatment chemicals

Please contact us so we can help you with your water treatment requirements

### EFLO Water Treatment Products :

- EfloSAF** Submerged Aerated Filter
- EfloMBR** Membrane Bio-Reactor
- EfloDAF** Dissolved Air Floatation
- EfloGREY** Grey Water Re-Cycling
- EfloRO** Sea & Brackish Water Reverse Osmosis
- EfloSBR** Sequential Batch Reactor
- EfloCT** Extended Aeration
- EfloSEP** Oily Water Separator
- EfloCHEM** Water Treatment Chemicals
- EfloSLUDGE-DRY** Sludge Dewatering



**EfloGREY** Grey Water Treatment Plant, Dubai Investment Park, UAE. 70 m<sup>3</sup>/d



Raw Grey Water



**EfloGREY** Treatment



**EfloGREY** Grey Water Treatment Plant Abdali Project Jordan. 250 m<sup>3</sup>/d



Treated Water

# Eflo GREY

# Grey Water Re Cycling

## 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.

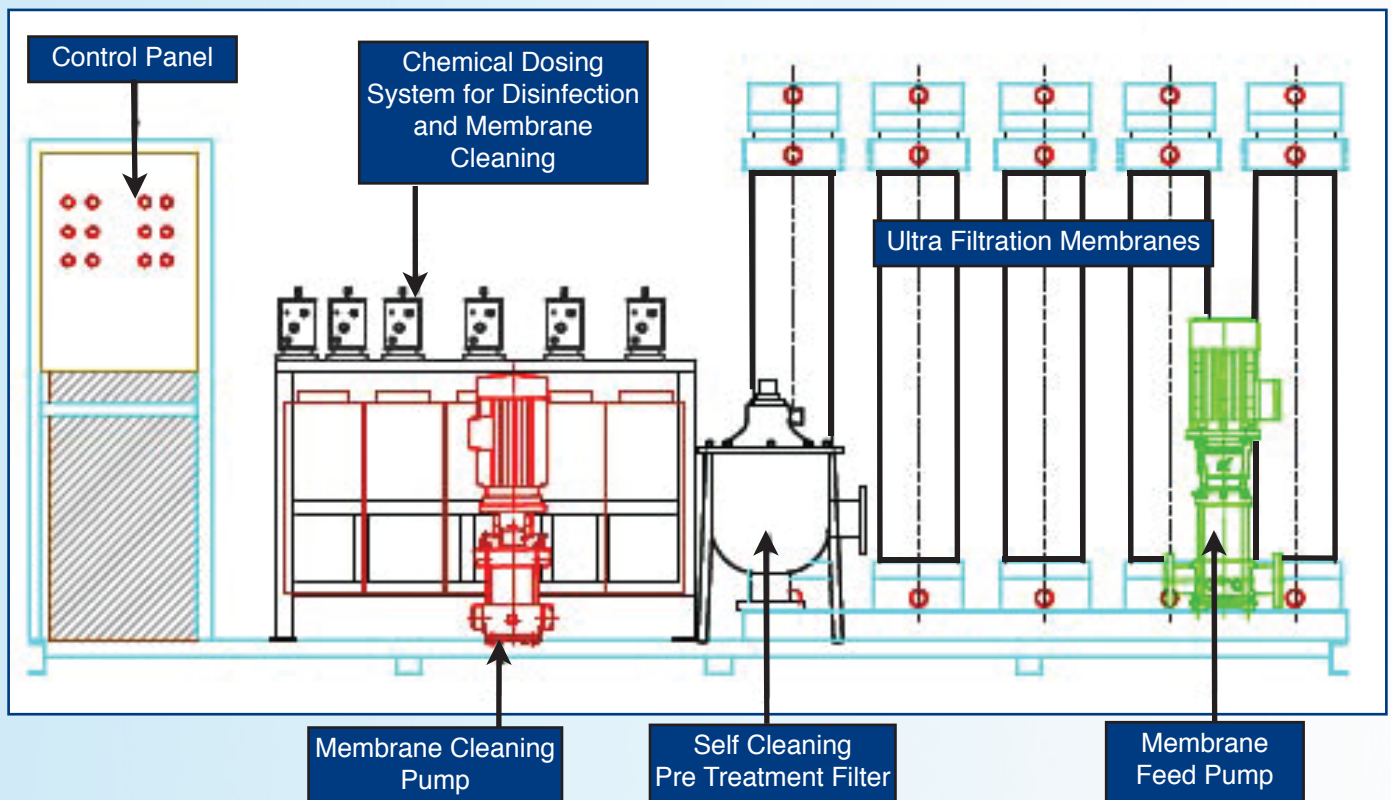


## Potable Water Use

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.



## LOCAL AGENT

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