AQUALINE
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GREY WATER TREATMENT SYSTEMS

- WITH UF SYSTEMS
- WITH MBR SYSTEMS



GREYLINE GREY WATER TREATMENT SYSTEMS WITH UF SYSTEMS

Actually, there is no universally accepted definition of grey waters. Due to low level of contamination and easily biodegradable behaviour, the water comes from wash basins, bath and showers In houses, are accepted as grey water.

UF systems with a combination of multimedia filters, activated carbon filters or with a combination of aerated basins filled with biological media and UV or chlorine systems (at the end) can be used to treat this kind of water.

Treated grey water can be used as a flush water in toilets, in car washing and gardening.

GREY WATER AQUALINE UF SYSTEMS				
MODEL	MODUL QTY	TOTAL MEMBRANE AREA (m^2)	INLET FLOW m^3/saat @ 2,5 bar	NET PERMEATE FLOW m^3/saat @ 2,5 bar
GAUF16	1	6	0.28	0.25
GAUF26	2	12	0.55	0.5
GAUF36	3	18	0.83	0.75

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Greyline Standart Series has a capacity ranging from 2 m3/day to 100 m3/day. For larger capacities, please consult with our engineers.

CODE	CAPACITY (m3/day)	MEMBRANE AREA(m2)
GL 100-20-14	100	280
GL 80-20-12	80	240
GL 65-20-10	65	200
GL 50-20-8	50	160
GL 40-20-6	40	120
GL 30-15-6	30	90
GL 20-15-4	20	60
GL 10-15-2	10	30
GL 7-20-1	7	20
GL 5-15-1	5	15
GL 2-10-1	2	10

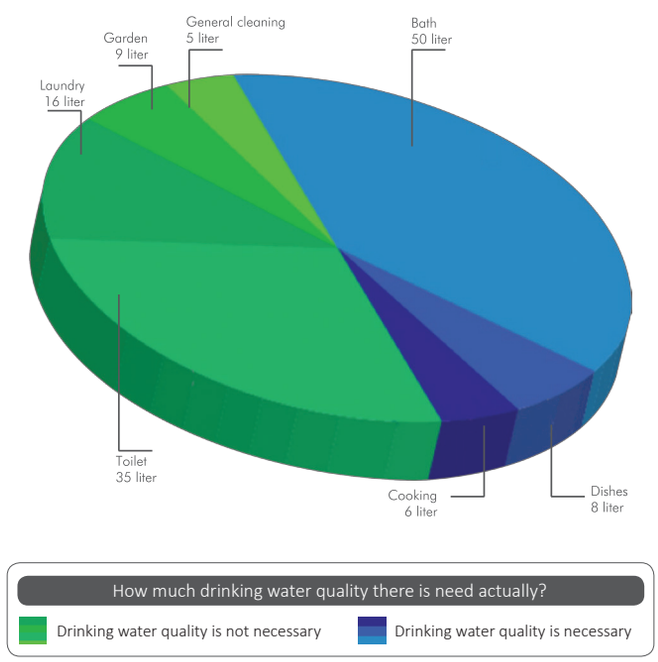
Note: Flux: 15 L-m2/hour For tank sizes: please contact with your local representative office

GREYLINE GREY WATER TREATMENT SYSTEMS WITH MBR SYSTEMS

Wastewaters nowadays are divided into two categories; black water and grey water. Due to low nutrients level, the greywater treatment will be less costly to treat and also no need to supplementary disinfection after treatment.

Greywater is generated from wash hand basins, showers and baths, which can be recycled on-site for uses such as WC flushing and also can be used for water gardening and car washing.

Greyline Grey water treatment plants technology is based on Aqualine PTFE MBR systems. They are generally ready-to-use systems but tailor-made design can also be done for end-users or system suppliers.



DESIGN SPECIFICATIONS

- Given product water flow is for well water including 15 NTU inlet turbidity, 3 mg/L DOC. For different turbidity values; required feed water pump capacity and product water capacity can change. Service and backwash periods will be arranged in field according to raw water quality.
- Chemical dosage pumps are selected according to 250 mg/l CaCO3 inlet alkalinity, 1000 us/cm inlet conductivity, 20 DegC water temperature, pH between 2,5 - 12.
- Required minimum feed water flow and pressure are given in table.
- Compact system frame is St-37 epoxy painted carbon steel for UF160, 260, 360 .
- T-rack UF system and syrface piping frame is St-37 epoxy painted carbon steel for UF470, 670, 870, 1070 ,1270 , 1470 ,1670, 1870.
- <300 micron pre-filter should be used before PAUF series. This filter is customer scope. (for PAUF160, 260 and 360; washable cartridge filter is included.)
- Frame is AISI304 stainless steel for GAUF series.
- It is assumed that UF product water tank will be used for CEB/BW tank. Required minimum tank volume is stated in table for each model.
- CEB/BW pumps are included in price. CEB/BW tank is not included in price.
- Piping material is PN10 PVC.
- Automatic valves are electrical actuated.
- Inline type product water flowmeter.
- Glycerin type manometers.
- SEKO chemical dosage pumps
- PLC + touchscreen for PAUF and GAUF series.
- Ehen manual CIP system is needed; please ask price.
- For grey water treatment; only GAUF series will not be enough; please ask offer.