

COMPACT SEWAGE TREATMENT

Ecocycle[®] MBBR COMPACT SEWAGE TREATMENT



Ecocycle® MBBR mobile wwtp system is a highly effective biological treatment process based on a combination of conventional activated sludge process and biofilm media. **Ecocycle® MBBR** provides easy installation and operation.

Biofilm media provides increased surface area for the biological microorganisms to attach and grow. The increased surface area reduces the footprint of the tanks required to treat the wastewater.

Ecocycle® MBBR compact systems contains all necessary stages, such as physical treatment (primary treatment), anoxic chamber, aeration, clarification, disinfection, sludge storage section and all the mechanical electrical equipment, piping, and instrumentation inside its compact structure as a mobile system.



Advantages of Ecocycle® MBBR Compact Package WWTP Units

- Less Space Requirement
- Recycling for irrigation
- Higher Outlet Water Quality
- Silence and Odorless
- Advanced Processing Technology
- High Efficiency In Different Flow Rates
- Low Initial Investment and Operating Cost
- Resistant to Different Temperature
- Easy Installation & Commissioning



AREAS OF USING Ecocycle® MBBR Package WWTP Units :

- Summer housing developments
- Temporary locations such as construction sites
- Housings and mass housings
- Factories and industrial facilities
- Offshore installations
- Villages, towns and municipalities
- Schools, hospitals and military facilities
- Accommodation facilities and restaurants
- Recreational facilities camps



Screw Screen

Intended for the extraction of medium and fine waste



MBBR Bio media

Bio media provides increased surface area for the biological microorganisms to attach and grow.



Tube Settler Lamella

High rate inclined plate lamella clarifier for wastewater sedimentation.



Clarified Water Weirs

The clarified water released over overflow weirs (AISI304, AISI316 Stainless Steel) on the top of the clarifier.



Basic process steps;

Pumping station

- Manual Coarse Screen
- Submersible Pumps

Screening

- Automatic Screw Screen
- Rotary Drum Screen (optional)
- Manual Basket Screen (optional)

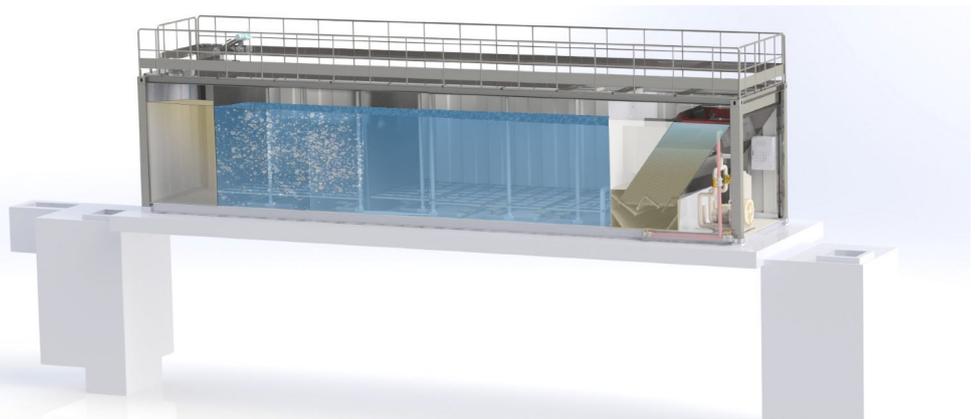
Denitrification

- Slow Mixer

Nitrification

MBBR & Aeration Tank

- Biocarriers
- Air lines & Diffusers



Clarification

- Lamella Sedimentation
- Sludge Recirculation
- Clarified Water Weirs

Filtration

- Sand Filters

Disinfection



Modular Design

The technology used is ideal for applications where trained operators are not in place or where minimal operator entry is required. Modular design makes it easy to increase the number of units according to capacity.

That's why **Ecocycle® MBBR** WWTP solutions are the best choice for a low-cost, automated and reliable wastewater treatment plant.



Easy Transportation

Arsimak designs and manufactures the **Ecocycle® MBBR** units in suitable sizes when it will reach by ship transportation.

Ecocycle® MBBR can be transported 20ft./40ft./40ft.HC Open Top containers.

Service & Maintenance

Arsimak provides a wide range of after-sale support and services to help our customers make the most of their assets.



Plug & Play

Ecocycle® MBBR is an All-in-one, compact, integrated, Prefabricated, Wastewater Treatment System.

Easy to install and requires almost no startup time after installation.



UMM QASR BMT CONTAINER TERMINAL YARD 5, QUAY WALL & MARINE WORKS
WORKER CAMP PROJECT
ENKA CO. - BASRA / IRAQ



MODEL	EQUIVALENT POP.	CAPACITY m ³ /day	DIMENSIONS (BxLxH) cm	NO. OF TANKS
Ecocycle® MBBR 100	100	20	235x300x300	1
Ecocycle® MBBR 200	200	40	235x300x300	1
Ecocycle® MBBR 250	250	50	235x450x300	1
Ecocycle® MBBR 300	300	60	235x450x300	1
Ecocycle® MBBR 400	400	80	235x525x300	1
Ecocycle® MBBR 500	500	100	235x675x300	1
Ecocycle® MBBR 750	750	150	235x675x300	1
Ecocycle® MBBR 1000	1000	200	235x900x300	1
Ecocycle® MBBR 1250	1250	250	235x1125x300	1

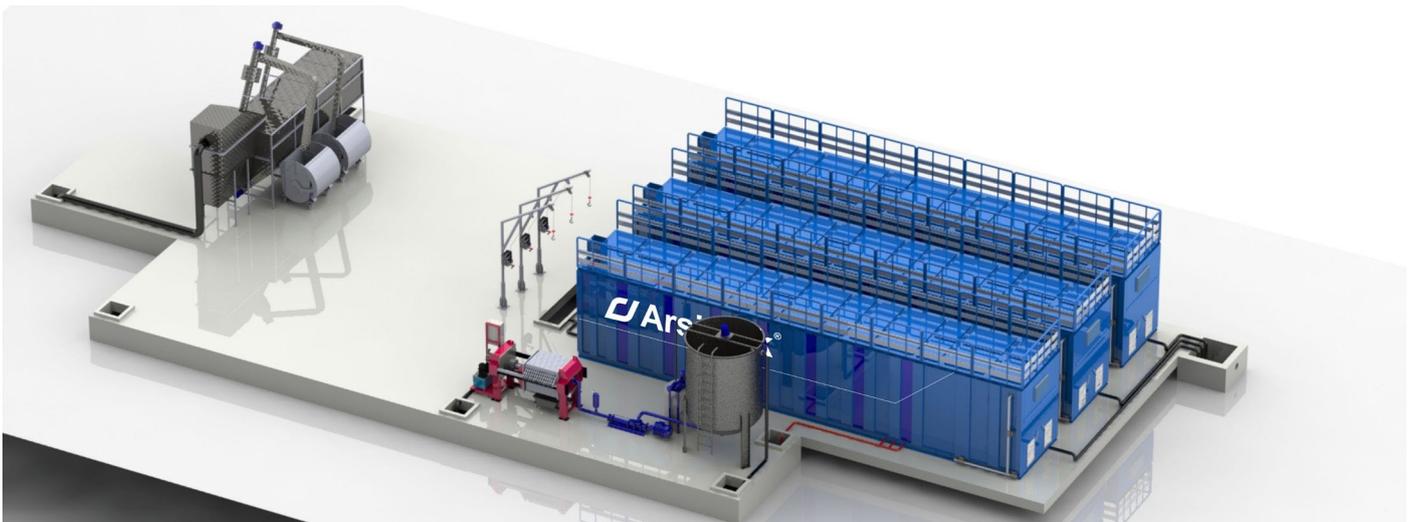
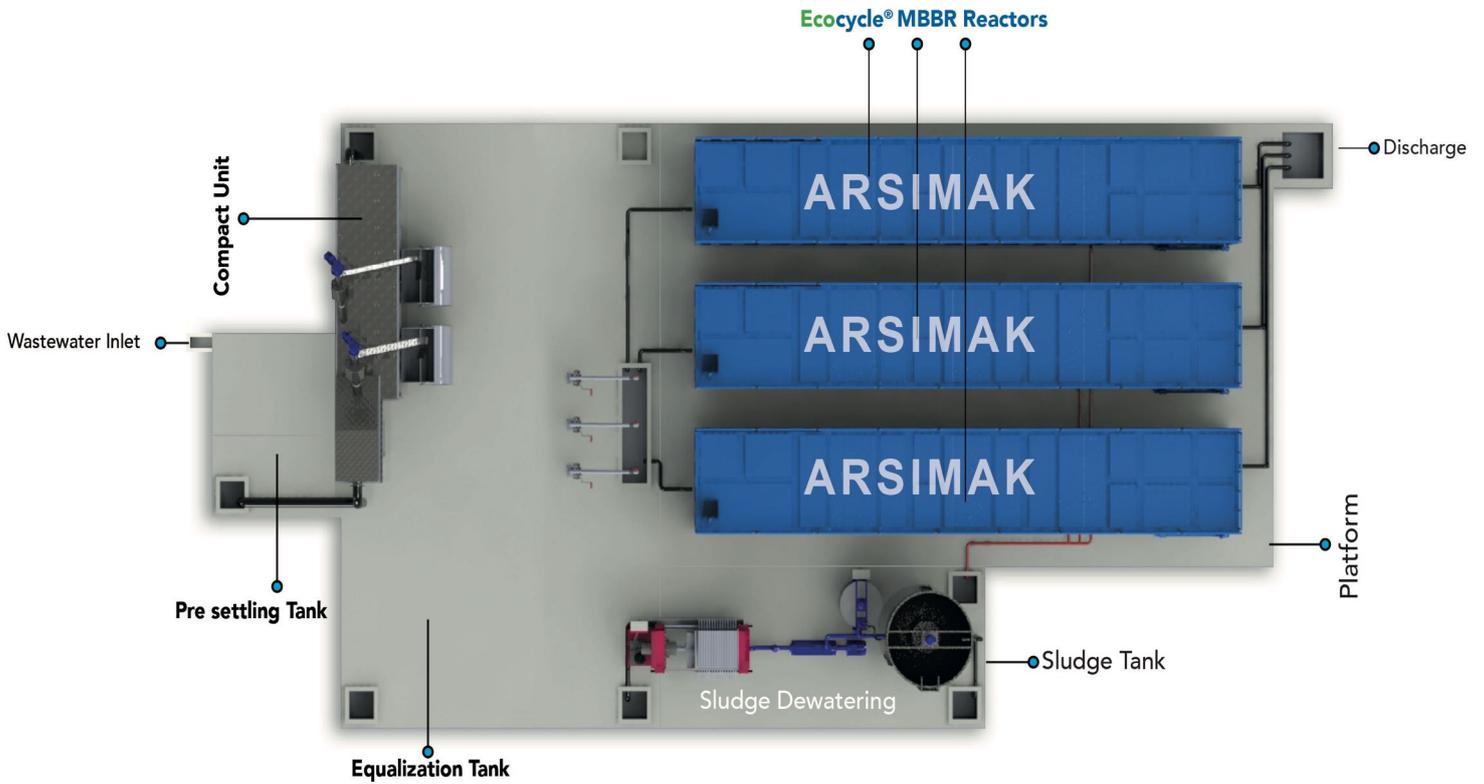
Water consumption is considered 200 liters per person per day in the above list. For specific projects, please refer to Arsimak for **Ecocycle® MBBR** unit selection.

For offshore transport, **Ecocycle® MBBR** sizes will be standard container dimensions.



**KHORMALA GAS - FIRED POWER PLANT WORKER CAMP PROJECT
KAR GROUP - ERBIL / IRAQ**

Sample Application





Technology Advantages

- Less Space Requirement
- Small footprint
- Fast deployment
- Scalable & simple operation

- Flexible & innovative technology
- Durable & Stable
- Intensive nitrification
- Environmentally friendly

Arsimak[®]

www.arsimak.com



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