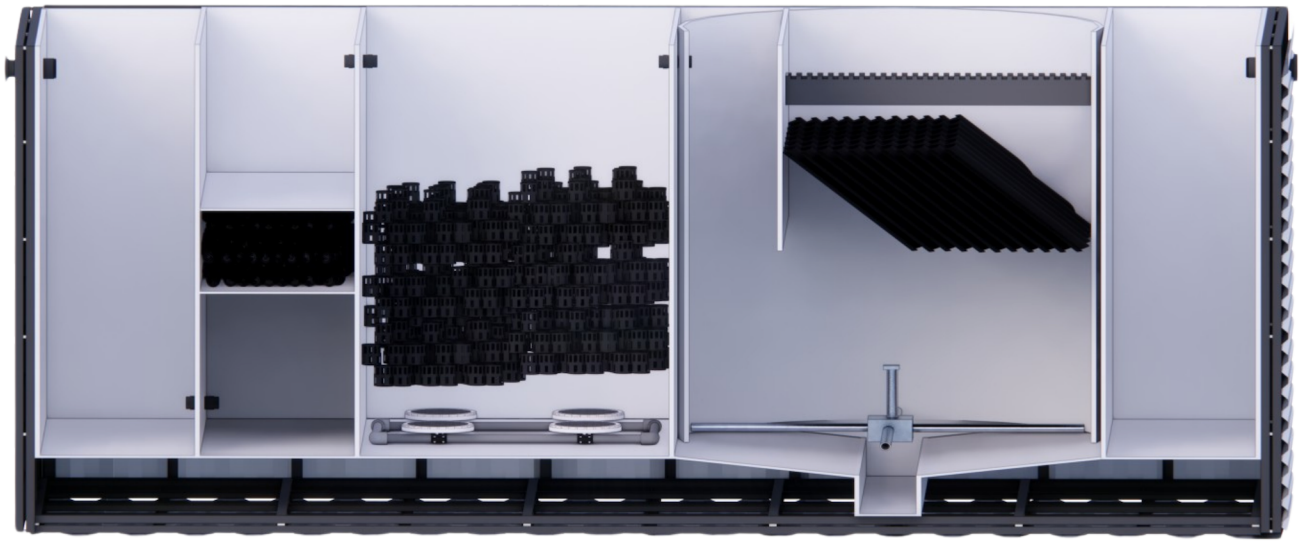
BioCar™

ADVANCED MOVING BED BIOFILM REACTOR

Engineered for efficiency and reliability, AriescorBioCar™ offers a sustainable solution for your wastewater challenges.

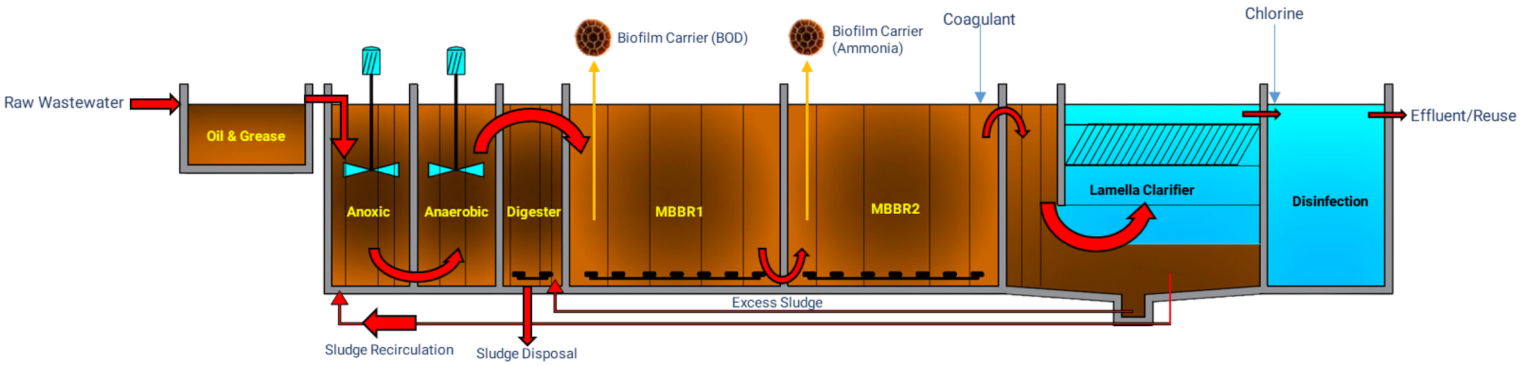
The AriescorBioCar™ excels in optimizing treatment processes, efficiently removing organic pollutants, nitrogen, and phosphorus from wastewater streams. Compact in design yet powerful in performance, they fit seamlessly into diverse operational setups, making the most of limited space while ensuring top-notch wastewater treatment.



System Features and Operation Description

AriescorBioCar™ is a modified and advanced Moving Bed Biofilm Reactor that represents a cutting edge in wastewater treatment technology, offering enhanced features and improved efficiency.

The Moving Bed Biofilm Reactor (MBBR) process treatment involves several stages that facilitate the effective removal of contaminants and pollutants from wastewater:



In a BioCar™ system, the wastewater passes through the reactor, and as it flows over the media, microorganisms attach themselves to the surfaces of these carriers, forming a biofilm. The biofilm acts as a substrate for the growth of bacteria, fungi, and other microorganisms that consume organic matter and nutrients in the wastewater.

The key advantage of BioCar™ technology is its efficiency in treating wastewater within a relatively small footprint compared to conventional systems. The mobility of the media helps in maintaining an active and diverse microbial population, enhancing the treatment process's effectiveness.

BioCar™ systems are used in various wastewater treatment applications, including municipal sewage treatment, industrial wastewater treatment, and in upgrading existing treatment plants to improve their capacity and efficiency. They're known for their flexibility, ease of operation, and ability to handle fluctuations in wastewater flow and composition.

The performance of a BioCar™ system depends on factors like the type of media used, wastewater characteristics, hydraulic retention time, and proper monitoring/control of operating conditions to ensure optimal microbial activity.

The effectiveness of the BioCar™ process depends on factors like the type and size of media used, the ratio of media to wastewater volume, hydraulic retention time, aeration rate, temperature, and the composition of the wastewater being treated.

BioCar™ systems are known for their efficiency, flexibility, and ability to handle varying wastewater compositions. They're used in various applications, from municipal sewage treatment to industrial wastewater treatment, providing a compact and effective solution for water purification.

System Solutions:

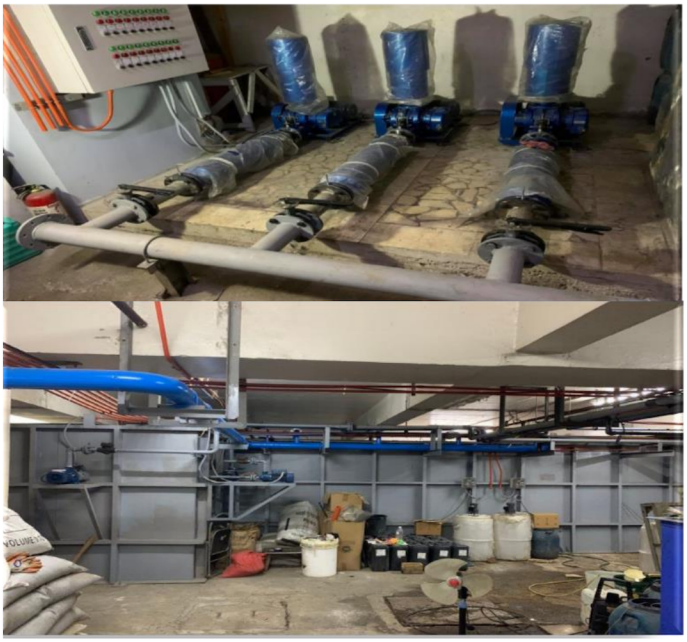
- Efficient Wastewater Treatment
- Compact Design and Space Efficiency
- Flexibility and Scalability
- Low Operational Costs
- Reliability and Ease of Operation and Maintenance
- Economical and Environmentally Friendly
- Remarkable Effluent Quality and Compliance with the DENR Effluent Standards (DAO 2016-08 and DAO 2021-19)

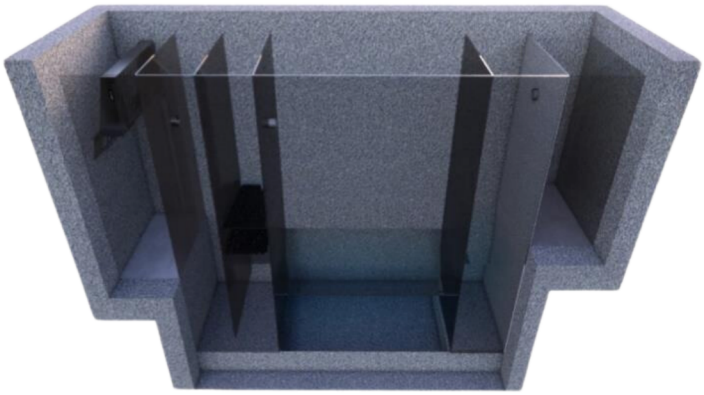
Project Highlights

Emerald Condominium

Designed to treat 175 m^3 of residential sewage, this compact BioCar™ is designed to upgrade the existing DAF System.

Technology: BioCar™ (Moving Bed Biofilm Reactor)
Industry: Condominium
Capacity: 175 m^3/day
Scope: Design and Consultancy
Location: Ortigas, Pasig City





Cloud Kitchen

Designed to treat Sewage that comes from a commercial kitchen establishment. It is a new design of Moving Bed Biofilm Reactor – BioCar™ product by Ariescor Water for small capacity wastewater treatment facilities.

Technology: BioCar™ (Moving Bed Biofilm Reactor)
Industry: Commercial Kitchen
Capacity: 5 m3/day
Scope: Design and Build
Location: Brgy. Bangkal, Makati City