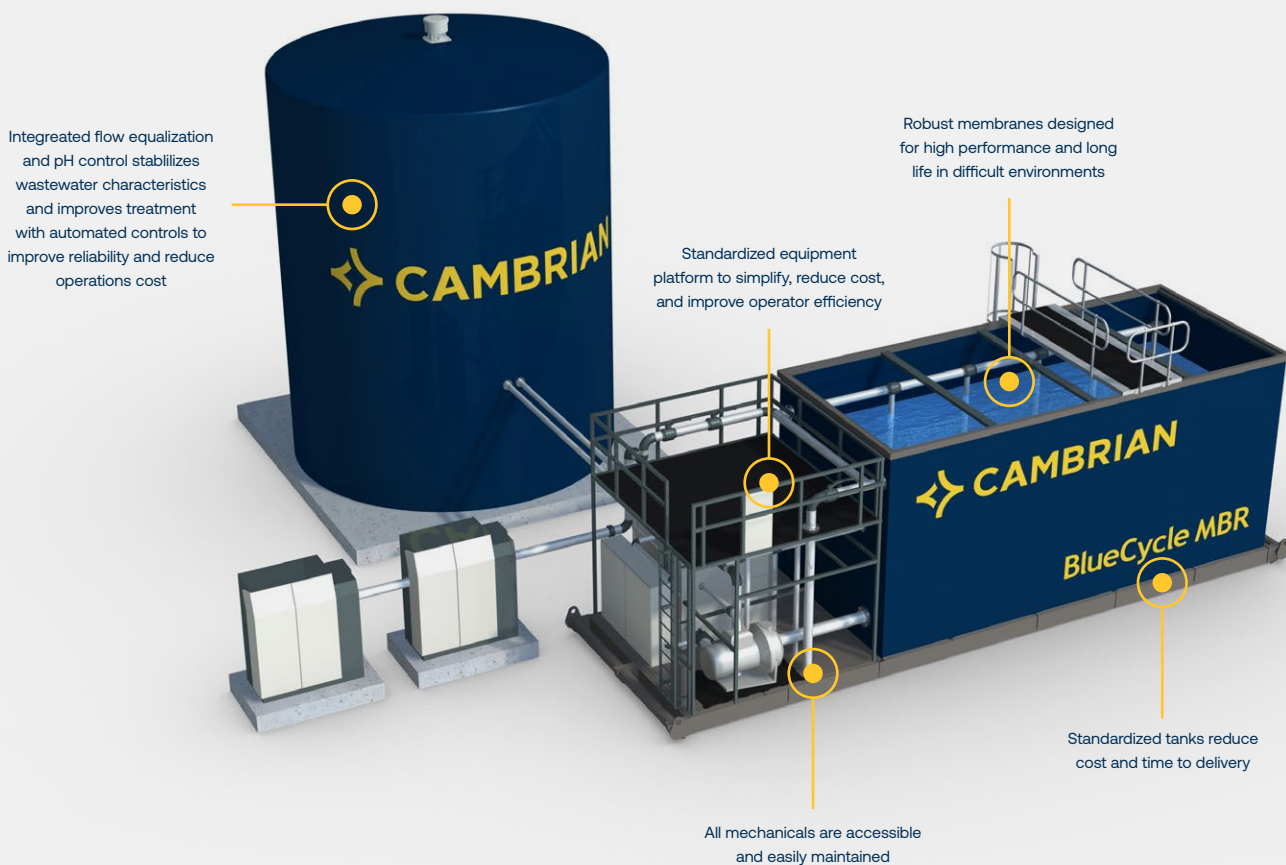


BlueCycle MBR™

For industrial wastewater

The **BlueCycle MBR** (membrane bioreactor) is an aerobic treatment system using state-of-the-art aeration, robust membrane filtration, and a dynamically-integrated controls architecture to remove over 99 percent of biochemical oxygen demand (BOD) and total suspended solids (TSS) from wastewater streams.



BlueCycle MBR Specifications:

- Can be used independently or with the EcoVolt® Reactor for energy-efficient treatment
- Generates CA Title 22-certified reuse quality water
- Modular, pre-fabricated, low-impact footprint allows for flexible capacity increase
- Generates continuous feedback on system performance to optimize throughput and minimize energy consumption

The BlueCycle MBR generates continuous feedback on system performance to optimize throughput and minimize energy consumption.

Membrane Tank

	MT1	MT2
Average Flow Rate, gal/day	73,000	147,000
Maximum Daily Flow Rate, gal/day	92,000	183,000
Average BOD Removal, lb/day	165	330
Dimensions, L (ft) x W (ft) x H (ft)	30 x 8.5 x 10	40 x 8.5 x 10
Number of Membrane Modules	2 – 4	6 – 8
Average MLSS Concentration, mg/L	15,000	
Maximum MLSS Concentration, mg/L	17,500	
Effluent Quality	Title-22 Certified; <10 mg/L BOD; <10 mg/L TSS	
Production Location	USA - off-site; pre-packaged	
Automated Control	Yes	
Energy Efficiency Credits Eligibility	Yes	
Remote Monitoring Service	Optional	
Sustainability Dashboard Package	Optional	
Reuse Package	Optional	

Aeration Tank

	A1	A2	A3	A4
Aeration Tank Volume, gal/day	31,000	55,000	97,000	158,000
Average BOD Removal, lb/day	704	1,100	2,200	3,520
Dimension, ø (ft) x H (ft)	15.4 x 20.95	21.5 x 20.95	29.7 x 20.95	41.6 x 20.95
Average MLSS Concentration, mg/L	12,000			
Maximum MLSS Concentration, mg/L	15,000			
Aeration Diffuser Type	Fine-Bubble			
Production Location	USA - off-site; field-erected			
Automated Control	Yes			
Energy Efficiency Credits Eligibility	Yes			
Remote Monitoring Service	Optional			
Sustainability Dashboard Package	Optional			
Reuse Package Option	Optional			

The BlueCycle MBR treats wastewater using separate unit processes for dynamic modularity. The prefabricated membrane tanks and aeration tanks can seamlessly integrate in any combination for a tailored fit to the specific flow and load requirements at your facility.

Treatment Matrix

		A1	A2	A3	A4
MT1	Average Flow, gal/day	73,000	73,000	73,000	73,000
	BOD treatment, lb/day	869	1,265	2,365	3,685
MT2	Average Flow, gal/day	147,000	147,000	147,000	147,000
	BOD treatment, lb/day	1,034	1,430	2,530	3,850

For peace of mind, leave wastewater management to Cambrian so you can focus on your core competencies.

Cambrian offers its entire product platform as a service. Under the WEPA (Water Energy Purchase Agreement[®]), Cambrian designs, builds, installs, owns, and operates your wastewater treatment system at no upfront cost. You simply pay for performance, on a per gallon basis, and focus your effort and equity on your core business.

Our Clients

