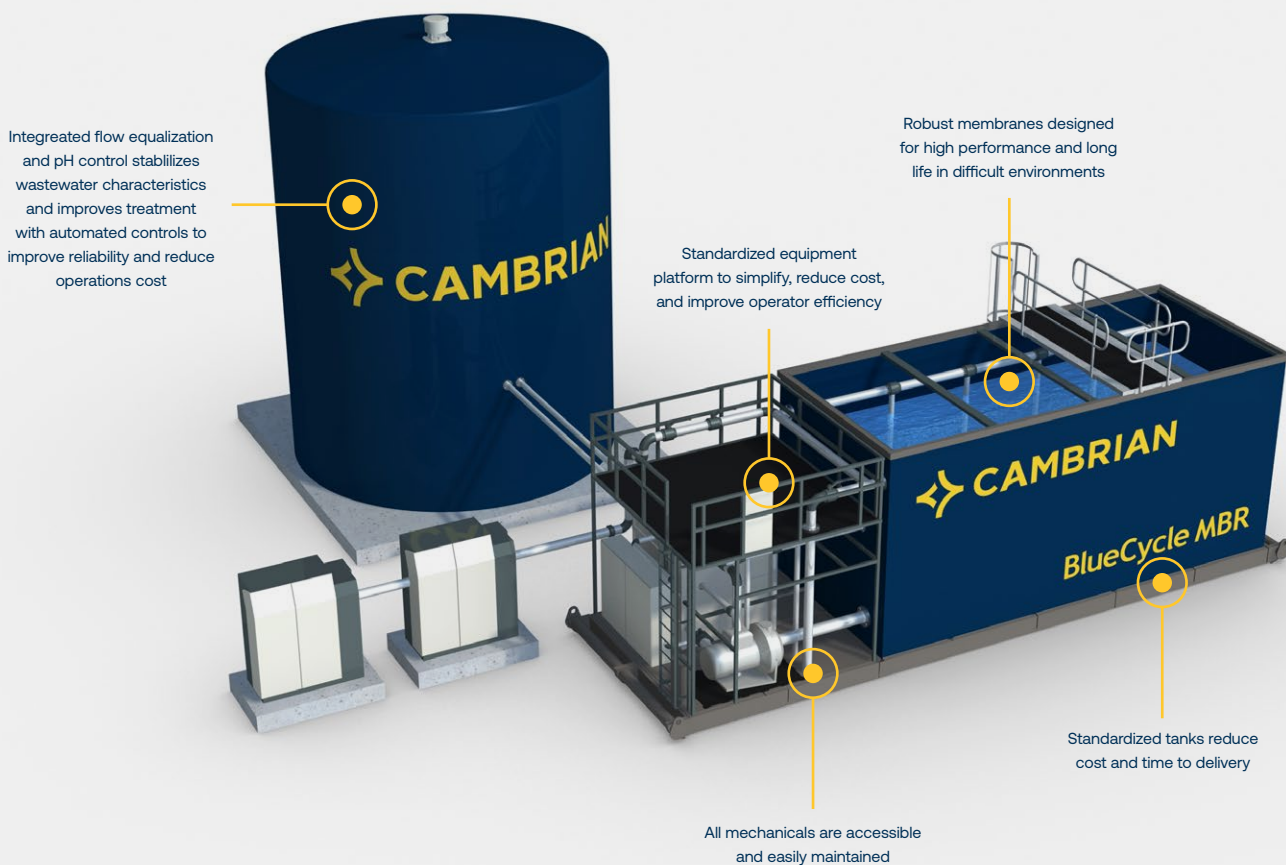


## BlueCycle MBR™

### 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 biological 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<sup>®</sup>), 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

