

# Mobile MBBR

## BioMOD™ Moving Bed Bioreactor

Aquatech Mobile Solutions

Aquatech's BioMOD Moving Bed Biofilm Reactor (MBBR) provides wastewater treatment and recycling to a broad range of industries looking to reduce chemical oxygen demand (COD) and total suspended solids (TSS) from wastewater streams. BioMOD MBBR uses the highest active media surface area available on the market, reducing the footprint requirement of the overall package. MBBR can treat up to 3,000 mg/l\* COD, capable of delivering superior effluent quality suitable for further recycling, irrigation, or discharge.



### Salient Features:

- Up to 100 gpm of feed flow
- Modular plug-and-play design
- PLC-based automated system
- Touch screen controlled
- Optional remote monitoring available

### Applications:

- Suspended solids removal
- COD removal
- TSS Removal

### System Requirements:

- Feed water TSS:  $\leq 200$  ppm
- Feed water COD: 600 – 3000 ppm
- Max feed water temperature: 100° F
- Max feed water pressure: 25 psig
- Min feed water pressure: 20 psig
- Electrical requirements:
  - 120 VAC/1 Ph/ 60 Hz
  - 480 VAC/3 Ph/60 Hz

### System Details:

- L x W x H: 53' x 10' x 16'

### System Equipment Details:

- Carbon steel, internally epoxy coated carbon steel tank with aeration chambers
- Fine air diffuser grid at the tank bottom
- Air blowers with VFD control
- Piping: CPVC SCH 80
- Instruments: ultrasonic level transmitters

### Product Water:

- System flow: up to 100 gpm\*
- COD: up to 90% removal\*
- TSS: < 10 ppm can be achieved using solid-liquid separation

\*Permeate capacity depends on feed water quality

