

Mobile DAF

BioMOD™ Dissolved Air Flotation

Aquatech Mobile Solutions

Aquatech's BioMOD Dissolved Air Flotation (DAF) units are widely used in a variety of industrial applications to remove total suspended solids (TSS) and oil & grease (O&G) content from wastewater streams. BioMOD utilizes self-generating microbubbles to deliver maximum TSS/O&G removal with less equipment and a smaller footprint than conventional DAF. BioMOD can deliver high-quality product water with low biochemical oxygen demand (BOD), chemical oxygen demand (COD), and TSS with high removal efficiency.



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
- Organic colloid removal
- O&G removal

System Requirements:

- Feed water TSS: ≤ 500 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: 11'-6" x 10' x 16'

System Equipment Details:

- Carbon steel, internally epoxy coated Flotation Tank
- Micro bubble generating recirculation pump
- Coil flocculator and Static Mixer
- Chemical Dosing tanks and bracket mounted pumps
- Chemical Dosing: Coagulant/ Diluted Polymer
- Pneumatic Level adjustment
- Piping : CPVC Sch 80

Product Water:

- System flow: up to 800 gpm*
- Turbidity: ≤ 1 NTU
- Silt density index (SDI): ≤ 3
*Product water flow depends on feed water quality

System Connections:

- System flow: up to 100 gpm*
- TSS: about 85 to 90% removal*
- Emulsified O&G: about 90% removal*

*Product water quality & flow depends on feed water quality

