



**evoqua**  
WATER TECHNOLOGIES



## MOBILE COMAG® CLARIFICATION SYSTEM

Evoqua Water Technologies provides the best in mobile clarification featuring the CoMag® system. This self-contained trailer-mounted system is capable of treating highly turbid water (up to 1,000 NTU), and produces extraordinarily clear effluent (1.0 – 2.0 NTU), with remarkable stability under varying raw water conditions.

Simple and reliable, the CoMag® system uses magnetite to ballast conventional chemical floc, enhancing settling rates and increasing the performance of wastewater and water treatment operations. The high-density, magnetite ballasted floc flows into a solids separator. To minimize the amount of solids escaping the unit, the solids separator is equipped with a baffle plate and restrictive flow tube settlers. The solids separator is designed to maintain a sludge blanket in the hopper compartments under the tube settlers that act as a pre-filter.

In addition to achieving high rate clarification, the CoMag system employs a sludge recycle function to increase the system performance and the clarity of its effluent. Approximately 20% of the clarifier underflow is recirculated back to the system's reaction tank. In the recirculation loop, sludge is processed through an inline, high-speed shear mixer where the magnetite is liberated from the floc. The resulting two-part slurry is then passed under a magnetic recovery drum.

The permanent and stationary magnets inside the drum help to capture 99+% of the magnetite and return it to the system. The sheered sludge, minus the magnetite, then flows to waste.

### Mobile Systems Provide Reliable Service for:

- Temporary or long-term water treatment requirements
- Pilot plant operations on various water streams
- Treatment for seasonal peaks or scheduled maintenance
- On-site operational expertise

Mobile systems contain instrumentation and equipment for a fully automated and monitored operation. Chemical feed skids and fail-safe shut down controls are also included to ensure efficient and reliable operation.

When using Evoqua mobile systems, we guarantee quality, quantity and cost of treated water. All mobile equipment is backed with an inventory of standard critical components. Our skilled service team is on call 24-hours per day to meet your needs.

Call Evoqua for your water treatment requirements. We have over 80 local service facilities across the United States and Canada, ready to meet your needs.



EVOQUA WATER TECHNOLOGIES NORTH AMERICA SERVICE NETWORK

**SPECIFICATIONS**

Design Capacity	400 - 1,200 gpm
Dimensions	53' x 8'6" x 13'6"
Shipping Weight	64,000 lbs.
Operating Weight	142,000 lbs.
Connection Inlet	8"
Outlet	16"
Waste	6"
Feed Flow	430 - 1,250 gpm, 20 - 50 psig

Waste Flow	30 - 50 gpm, Gravity
Outlet Flow	400 - 1,200 gpm, Gravity
Electrical Connections	480 VAC, 3 ph, 100 amp
Instrument-Influent	Raw water turbidity meter Raw water flow meter Coagulated water pH meter Coagulated water ORP meter
Instrument-Effluent	Clarified water turbidity meter Clarified water ORP meter
Control Panel-PLC-based	NEMA 4x UL label Operator interface display



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