MONROE ENVIRONMENTAL
Water & Wastewater Treatment | Air Pollution Control

Patented Design

X-Flo Mobile Clarifier™

The **Monroe Environmental® X-Flo Mobile Clarifier™** is a patented design, completely integrated mobile clarification solution for temporary job sites and/or bypass operations.

The Monroe X-Flo Mobile Clarifier is designed to be a combination of traditional clarification technologies with mobile water storage treatment tanks to produce an economic means of solids separation, oil removal, and liquid clarification on a job site. It is designed to remove settle-able solids as well as floating solids/oils from your wastewater and process liquids – something that cannot be achieved with other plate clarifier systems.

X-Flo Mobile Clarifier Design

As the process stream flows horizontally through the cartridge, heavier solids settle on the surface of the plates while lighter contaminants rise on the underside of the plates. The settled solids collect at the bottom of the tank while the floating materials are collected by an adjustable pipe skimmer and are removed from the system. An integral retention baffle prevents the separated floating material from discharging with the clarified effluent stream and aids in the use of the slotted pipe skimmer.

Clarified liquid exits the unit through the effluent box, which consists of an effluent weir, launder, and flanged discharge.

Monroe Environmental has taken their diverse application experience and applied it to a growing mobile treatment industry. We've adapted a tried-and-true clarification technology into a cutting edge new product that boosts efficiency and lower costs for suppliers and end users alike.

Process Features

- Removal of floating and settle-able contaminants all in one clarification step
- Solids, grit, oil, and scum removal
- Co-current cross-flow principal
- Still water channels for quiescent zone to prevent re-entrainment
- Greatly increases settling surface area within mobile tank
- Extreme-duty, chloride resistant tank coating

Applications

- Emergency water treatment
- System bypass treatment
- Temporary treatment
- TSS reduction
- Metals reduction
- Primary and secondary clarification
- Oil/water separation
- Fracking and produced water
- Mining and dredging
- Maintenance events
- Surge flows
- Municipal water and wastewater

> ***"The X-Flo outperformed the Circular Clarifier we were bypassing."*** *– Environmental Manager*

Monroe Environmental rental and pilot systems are an excellent option for testing a technology's performance capability and suitability for a particular application. This is a cost-effective way to evaluate the technology before making a capital investment in a full scale system. Monroe also can provide the support services required to install, operate, and evaluate performance.

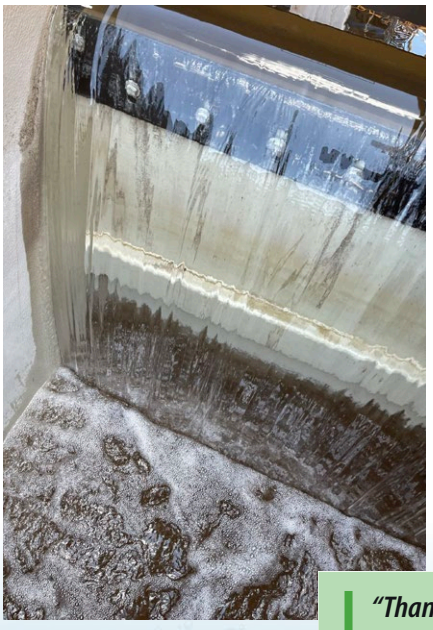
X-Flo Mobile Clarifier Components

- Diffusion wall
- X-Flo cartridge
- Effluent collection trough
- Sludge collection
- Optional sludge pump skid
- Optional pretreatment chemical addition and mixing tanks
- Optional enhanced inlet diffusion and oil removal

Rent or Buy

There are many ways to get the Monroe X-Flo Mobile Clarifier technology to your job site. The complete, integrated clarifier can be sold as a stand-alone system or rented on a monthly basis.

Monroe Environmental designs, fabricates, and retrofits custom wastewater treatment equipment all the time. We are experts. Contact an Applications Engineer today to review your requirements and we'll customize a solution for your application and needs.



> ***"Thanks, it's the best water they have ever seen."*** *– Environmental Consultant*

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