

# Mobile ULTRA-FILTRATION



MPW's Mobile ULTRA-FILTRATION System provides up to 800 GPM of filtered water from a variety of influent water sources to meet or exceed stringent requirements.

MPW's Mobile UF System is a production solution for removing TSS, organics, Iron, Manganese, and other contaminants from a variety of water sources including, but not limited to, waste water and ground water. Units are available for emergency, supplemental, and long-term requirements. Each trailer-enclosed system is capable of delivering 800 GPM of filtered water from a variety of influent water sources. MPW's UF System comes fully automated with continuous monitoring instrumentation to ensure optimal operation. MPW's trained Field Service Technicians are available to assist with site evaluation, set-up, commissioning and operation.



## Features

- Resilient "outside-in" hollow fiber membranes
- Rejection of particles as small as 0.02 microns
- Fully Automated PLC controlled CIP system
- 24-hour remote monitoring and DAS to ensure water quality parameters are met
- Automated chemical feed systems for de-chlorination, pre-filtration, scale inhibit-ing and pH control
- 24/7 Logistics Department for dependable order placement and delivery coordination
- System automation / touch screen controlled



## Typical Applications

- Iron / Manganese removal from ground-water sources
- Removal of TSS and organics for reuse of process and waste waters
- Replacement for clarifiers with no sludge generation
- Pretreatment for reverse osmosis
- Tertiary filtration

## System Features

### DIMENSIONS

Trailer: (LxHxW) 53'x13.6'x8.6'  
 Operating Weight 125,000 lbs

### PRODUCT WATER

TSS 10-200 GPM (Per Tank)  
 Turbidity  $\leq 0.1$  NTU  
 Silt Density Index  $\leq 3$   
 TOC 40-70% Removal

### CONNECTIONS

Inlet 6" 150# ANSI Flange  
 Product 6" 150# ANSI Flange  
 Waste 6" 150# ANSI Flange  
 3" 150# ANSI Flange

### REQUIREMENTS

Max. Water Temperature 104°F  
 Min. Water Temperature 35°F  
 Inlet Pressure 5psig - 90psig  
 Inlet Turbidity 75 (peak to 200) NTU  
 Electrical 480VAC, 3ph, 198FLA  
 Influent Flow Up to 1000 gpm  
 Effluent Flow Up to 800 gpm

### INSTRUMENTATION

Inlet, Product and Reject Flow Meters  
 pH and Conductivity Meters  
 Inlet/Product Non-Contact LED Turbidity meters  
 Touch Screen Panel PC and PLC for Real-Time SCADA and System Trending  
 Digital Pressure Transducers  
 Electrical Efficiency- VFD Controlled Pumps

## Technical Specifications

