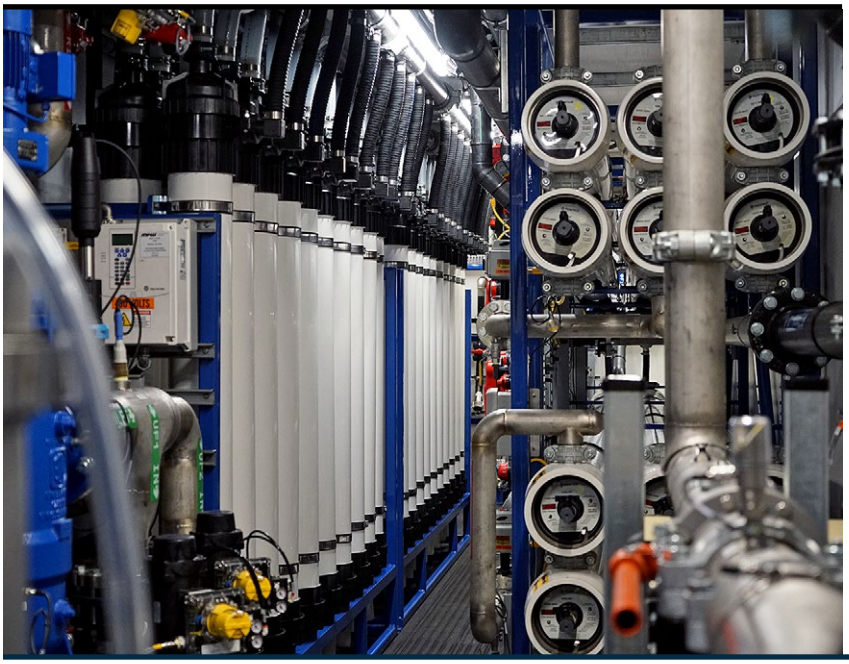
Mobile UF/RO Combination

Filters water from various sources with changing conditions and production requirements.

UF system removes TSS, organics, iron, manganese and other contaminants from a variety of water sources.

RO system removes dissolved solids, total organic carbon (TOC) and other colloidal contaminants.

Operable in single-pass mode with 300 gpm nominal flow rate or double-pass mode with 200 gpm nominal flow rate.



FEATURES

- Resilient PVDF "outside-in" hollow-fiber membranes
- Particle rejection to 0.02 microns
- Independent dual train design
- Quick RO conversion to single- or double-pass operating modes
- Automated chemical feed systems for chlorination, dechlorination, scale inhibiting, interpass caustic
- Removes up to 99 percent of ionic contaminants and organics over 200 molecular weight
- Onboard touchscreen panel PC and PLC for real-time SCADA and system trending
- Onboard filtrate tank

APPLICATIONS

- Iron/manganese removal from groundwater sources
- Wastewater recovery for process use or discharge
- Pretreatment for demineralizer systems
- Tertiary filtration
- Removal of color
- Reduction of dissolved solids, organic compounds and colloidal silica
- Water system outage support

DIMENSIONS

Trailer
53’x8.6’x13.6’ (LxWxH)

Operating Weight
85,000 pounds

PRODUCT WATER

Turbidity
≤0.1 NTU

Silt Density Index
≤3

TDS Rejection
95%

TOC*
40-70% Removal

** Based on coagulation and pilot study*

CONNECTIONS

Inlet
6” 150# ANSI Flange

Product
4” 150# ANSI Flange

Waste
6” 150# ANSI Flange

REQUIREMENTS

Max. Water Temp.
100˚ F

Inlet Pressure
40-80 psi

Inlet Turbidity
75 (peak to 200) NTU

Electrical
480 VAC, 400 FLA, 3PH

Influent Flow
Up to 600 gpm

Effluent Flow
Up to 300 SP/250 DP

INSTRUMENTATION

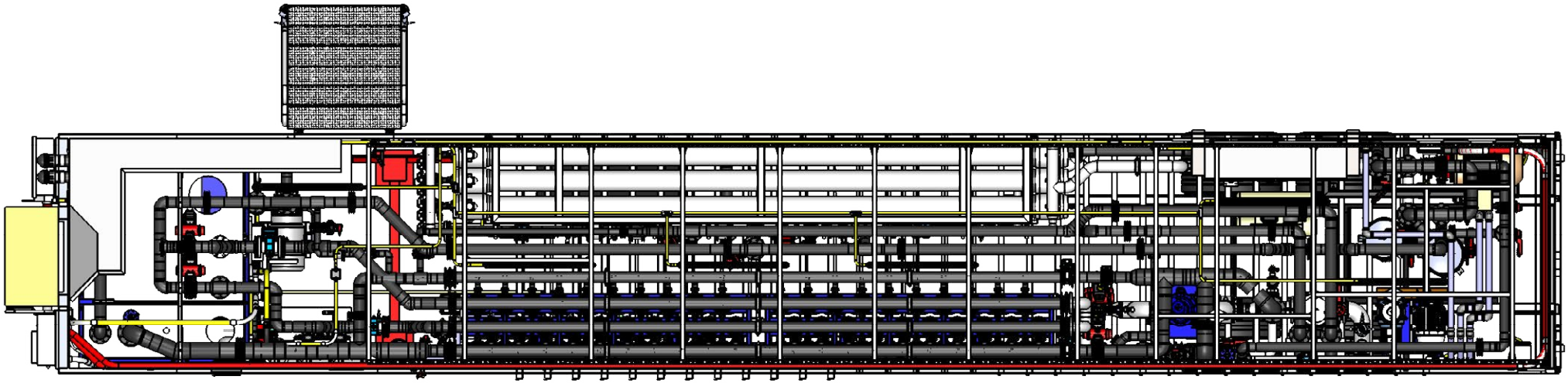
Product water flow meters

pH and conductivity meters

Inlet turbidity meters

Touch screen panel PC and PLC for real-time

SCADA and system trending

Digital pressure transducers

Electrically efficient VFD-controlled pumps