ZeeWeed* Mobile Water Treatment System

Applications:

- Reverse Osmosis pre-treatment
- Industrial process water
- Production of potable water
- Treatment of secondary effluent

Unit Capacity:

Up to 0.78 MGD (123 m3/hr) at up to 10 psi (69 kPa)

Key Benefits:

- Easily transportable
- Proven, reliable barrier technology
- Fully tested and ready for installation
- Fully automated for ease of operation
- Minimal installation time required
- Membranes shipped installed
- Insulated, heated, and air-conditioned container
- Handles large variations in raw water quality
- Strongest purewater ultrafiltration membrane on the market
- Includes chemical cleaning and neutralization system
- Integrated PLC/MCC control room

Mobilization/Demobilization Services:

Mobilization includes:

- Preparation of equipment at GE Water & Pro ess Technologies
- Full drawing package to detail system layout
- System startup and operator training
- System performance checks

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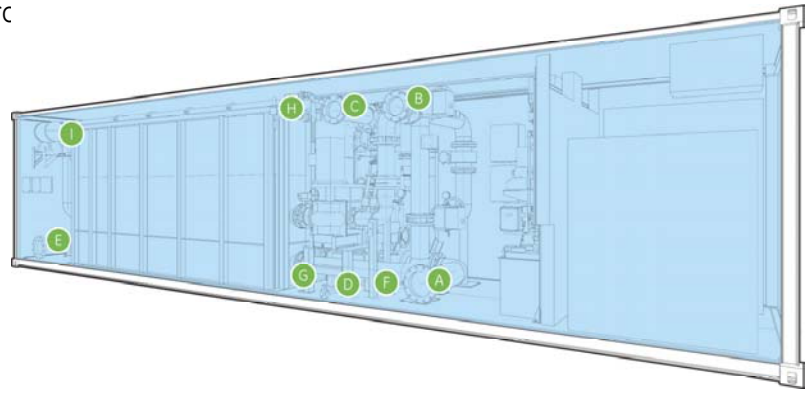
Demobilization includes:

- Complete mechanical checkout of equipment
- Coordination of Customer supplied mechanical and electrical contractors
- Supervision of membrane preparation for return shipment (cleaning, removal, preservation, bagging and crating)

Termination Points			
Tag	Size	Connection	Function
A	10”	150# FLG RF	UF Feed
B	8”	150# FLG RF	Permeate
C	8”	150# FLG RF	Reject
D	1.5”	150# FLG FF	Waste
E	10”	150# FLG RF	Overflow
F	0.5”	150# FLG RF	Potable water
G	1”	ODT Tube	Instrumentation drain
H	2”	150# FLG FF	Cleaning Supplemental potable water
I	2”	150# FLG FF	Potable water to BP tank



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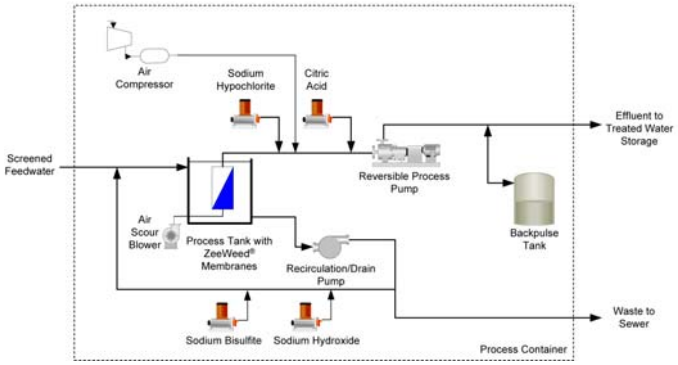
Standard Features:		
Membrane	Membrane Module	ZeeWeed 500 (NSF Certified)
	Membrane Type	Reinforced, low pressure, immersed hollow fiber
	Permeate Flow Path	Outside-in
	Nominal Pore size	0.04 microns
	Membrane material	PVDF
System	Configuration	1 train with 4 cassettes, 26 modules per cassette
	Dimensions	40'L x 8.0'W x 9.5'H (40'(12m) HC ISO Container) 12.2m L x 2.5m W x 2.9m H
	Membrane tank	316 Stainless Steel
	Process piping	316 Stainless Steel
	MIT (membrane integrity test)	Yes
	Automatic backpulse cleaning	Yes
	LT2 compliance	Yes
	Process tank volume	4,800 gal; 18,168 L
	Clean in Place (CIP) tank volume	1,184 gal; 4,481 L
	Weight, shipping/operating	55,000 / 130,000 lbs (24,950 / 58,970 kg)
	Aeration scour	Blower self-contained
	Control - Interface	Allen Bradley PLC with Transduction PC (HMI)
	Instrumentation	Feed and permeate turbidimeters and permeate particle counter
	Data Collection System	ZenoTrac™
	Technical support 24/7	Yes
Requirements	Overhead clearance	12 ft (3.66 m) minimum
	Surrounding access	5 ft (1.5 m) minimum
	Electrical	460V/3ph/60Hz/236 amps
	Raw water pressure	5 psig (34.5 kPa) minimum 20 psig (138 kPa) maximum
	Raw water screening	< 1 mm

Average Feed Water Characteristics		
Source	**Parameters**	**Permeate**
Direct Filtration	<100 NTU turbidity <5 mg/L TOC	<0.3 NTU turbidity
Enhanced Coagulation	<100 NTU turbidity >5 mg/L TOC*	<0.3 NTU turbidity
Settled Water	<5 NTU turbidity	<0.3 NTU turbidity
Oxidation (Fe & Mn)	<10 NTU turbidity <5 mg/L TOC >1 mg/L Fe,* >0.3 mg/L Mn*	<0.3 NTU turbidity
Secondary / Tertiary Effluent	<100 mg/L TSS	<0.3 NTU turbidity

Process Flow Diagram



* Operating parameters to be confirmed with GE membrane solutions under these conditions