

Mobile RO Trailer

Description and Use



Mobile Reverse Osmosis (RO) Trailers provide emergency, interval, or long-term service to meet the needs of industrial pure water users. The Mobile RO is configured to produce up to 600 gpm (136 m³/h) in single-pass mode and up to 300 gpm (68 m³/h) in two-pass mode (two-pass mode requires a minor reconfiguration). The Mobile RO contains the necessary hardware to monitor the system operation including, inlet and permeate conductivity, inlet pH, inlet ORP meters; concentrate and permeate flow meters; and prefilter, post filter, primary, final, and interbank pressure transmitters. The data is monitored to ensure the Mobile RO operates optimally. The Mobile RO Trailer also contains the necessary chemical pumps essential for maintaining the required water quality specifications.

General Properties

Features

- Up to 600 gpm (136 m³/h) in single-pass mode or up to 300 gpm (68 m³/h) in two pass mode
- Able to combine with other mobile products to enhance system capabilities
- Rejection rates of 97% or more¹
- Technical sales representative operates trailer
- Emergency, interval, and long-term service for RO water need
- Removes not only dissolved ions, but also bacteria, pyrogens, organics, particles, colloids, color and oxidizing agents at up to 99.9%

Table1: Trailer Specifications

Dimensions	
Trailer Length	48 ft (14.6 m)
Trailer Height	13 ft, 6 in. (4.1 m)
Trailer Width	8 ft, 6 in. (2.6 m)
Shipping Wt.	@ 50,000 lb (22,680kg)
Operating Wt.	@ 55,000 lb (24,948kg)
System on Board	
Single Pass,	Up to 600 gpm (136 m ³ /h)
Two Pass	Up to 300 gpm (68 m ³ /h)
Recovery	75%
Rejection	95 - 99% ¹
Membrane	Osmonics high rejection polyamide membranes
Max. Water Temp.	85°F (29°C)
Min. Water Temp.	45°F (7.2°C)
Nom. Water Temp.	60° - 75°F (16° - 24°C)
Max. Inlet Pressure	60 psig (4.1 bar)
Min. Inlet Pressure	30 psig (2.1 bar)
SDI 15	< 4 (3 preferred)
Connections (PVC)	
Connection Type	Victaulic/Flange
Inlet	6-in. (152-mm)
Outlet (Permeate)	6-in. (152-mm)
Waste (Concentrate)	3-in. (76-mm)
Inlet Clean In Place (CIP)	4-in. (102-mm)
Outlet Permeate CIP	6-in. (152-mm)
Outlet Concentrate CIP	3-in. (76-mm)
Electrical	
Power Requirements	Two drops of 240 amp 3-phase power (460 VAC)
Breaker size	Two 250 Amp 3-phase (min.)
Installed KVA	383 KVA
Motor HP and type	75 Hp (56kW) TEFC



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Table1: Trailer Specifications (continued)

Instrumentation			
PLC	GE Fanuc PLC		
Customer tie-in	Analog (4-20 mA) and/or discrete tank level for automatic shut down		
Parameters	Inlet	Outlet (Permeate)	Waste (Concentrate)
Flow		X	X
Conductivity	X	X	
Pressure	X	X	X
PH	X		
ORP	X		
HVAC			
The Mobile RO Trailer is climate controlled with an electric HVAC unit.			
Chemicals			
GE will supply all treatment chemicals required for operation of the Mobile RO trailer system.			

¹ Average rejection rate is dependent on influent TDS, ionic composition, and maintenance

Safety Precautions

A Material Safety Data Sheet containing detailed information about this product is available on request.