

Super 700 MobileRO*

reverse osmosis for high flow applications

description and use

MobileRO reverse osmosis (RO) containers provide emergency, interval, or long-term service to meet the needs of industrial pure water users. The Super 700 MobileRO is configured to produce up to 700 gpm (159 m³/h) in single-pass mode and up to 300 gpm (68 m³/h) in two-pass mode. The unit 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 pre-filter, post-filter, primary, final, and interbank pressure transmitters.

The data is monitored to ensure the MobileRO operates optimally. The MobileRO container also contains the necessary chemical pumps essential for maintaining the required water quality specifications.

standard features

- RO configurable process flow to meet various water demands; two passes or two train operability in a single system
- Up to 700 gpm (159 m³/h) in single-pass mode or up to 300 gpm (68 m³/h) in two pass modes
- Rejection rates of 97% or more
- Removes not only dissolved ions, but also bacteria, pyrogens, organics, particles, colloids, color, and oxidizing agents at up to 99.9%
- Emergency, interval, and long-term service for RO water need
- Three injection ports for chemical addition
- 1-micron cartridge filtration for superior protection of reverse osmosis elements
- Able to combine with other SUEZ Mobile units to enhance system capability



general properties

Description	System on Board
Single Pass Product Flow	Up to 700 gpm (159 m ³ /hr)
Two Pass Product Flow	Up to 300 gpm (68 m ³ /hr)
Recovery	60 to 75%
Nominal rejection	95 to 99%
Operating range	45° to 85°F (7° to 30°C)
Minimum inlet pressure	30 PSIG (2 bar)
Maximum inlet pressure	60 PSIG (4 bar)
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Description	Trailer
Length:	40'-0" (12.2 meters)
Height:	9'-6" (2.9 meters)
Width:	8' (2.4 meters)
Shipping Weight:	50,000 lbs. (22,700 kg)
Operating Weight:	54,000 lbs. (24,500 kg)

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PLC Parameter	Inlet	Outlet	Instrumentation GE Fanuc PLC
Flow	X	X	Analog (4-20 mA) to customer tie-in and/or discrete tank level for automatic shut down and control
Pressure	X	X	
pH	X		
Temperature		X	
Conductivity	X	X	

Description	Electrical
1-phase Service:	120 VAC, 60 Hz
Breaker Size:	20 amps
3-phase Service:	480 VAC, 60 Hz
RO Train 1 Breaker size:	400 amps
RO Train 2 Breaker size:	250 amps

Description	Connections
Connection Type:	150# Flange
Train 1 Inlet:	6 inches
Train 1 CIP Inlet:	4 inches
Train 2 Inlet:	6 inches
Train 2 CIP Inlet:	4 inches
Permeate Outlet:	6 inches
Concentrate Outlet	4 inches
Train 1 Permeate CIP Outlet:	4 inches
Train 2 Permeate CIP Outlet:	4 inches
Train 1 Concentrate CIP Outlet	3 inches
Train 2 Concentrate CIP Outlet	3 inches