

Super 600 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 600 MobileRO (Figure 1) is configured to produce up to 650 gpm (148 m³/hr) in single-pass mode and up to 350 gpm (79.5 m³/hr) 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 and final pressure transmitters.

The MobileRO container also includes the necessary connections for chemical pumps essential for maintaining the required water quality specifications.

typical applications

standard features

- RO configurable process flow to meet various water demands; two pass or two train operability in a single system
- Up to 650 gpm (148 m³/hr) in single-pass mode or up to 350 gpm (79.5 m³/hr) in two pass mode
- 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
- VFD controlled high-pressure pumps
- Centralized gauge panel for convenient system monitoring
- 1-micron cartridge filtration for superior protection of reverse osmosis elements
- Able to combine with other SUEZ Mobile units to enhance system capability

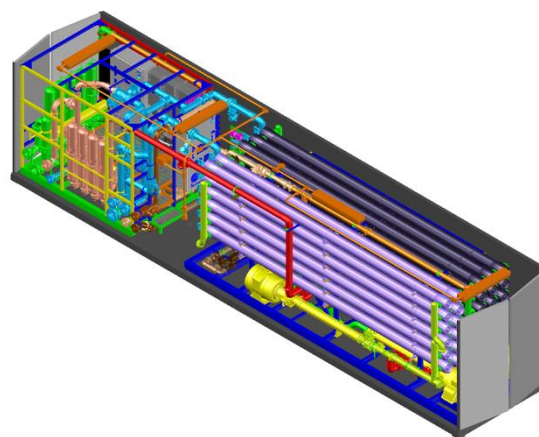


figure 1: Super 600 MobileRO

general properties

Single Pass Product Flow Up to	650 gpm (148 m ³ /hr)
Two Pass Product Flow Up to	350 gpm (79.5 m ³ /hr)
Recovery	60 to 75%
Nominal rejection	95 to 99%
Operating range ¹	35° to 105°F (2° to 40°C)
Minimum inlet pressure	30 PSIG (2 bar)
Maximum inlet pressure	60 PSIG (4 bar)
SDI ₁₅	3

¹ flow limited by membrane flux at high temperatures

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Container

Item	Description
Length	40' 0" (12.2 meters)
Height	9' 6" (2.9 meters) 13' 6" (on chassis)
Width	8' (2.4 meters)
Gross shipping weight (approx.)	50,000 lbs. (22,700 kg)
Gross operating weight (approx.)	54,000 lbs. (24,500 kg)

PLC / Instrumentation

PLC		Instrumentation	
Parameter	Inlet	Outlet(s)	Allen Bradley
Flow		X	Analog (4-20 mA) and/or discrete tank level inputs are available for customer automatic shutdown and control.
Pressure	X		
pH/ORP	X		
Temperature	X		
Conductivity	X	X	

Connections

Item	Description
Connection type	150# Flange
Raw water inlet	6 inch (150 mm)
Concentrate outlet	3 inch (75 mm)
Permeate outlet	6 inch (150 mm)
CIP inlet (1 per train)	4 inch (100 mm)
CIP concentrate outlet (1 per train)	3 inch (75 mm)
CIP permeate outlet (1 per train)	4 inch (100 mm)
Caustic injection	½" FNPT

Electrical³

Item	Description	
Service	380/460 VAC, 3-phase, 50/60Hz 575 VAC with minimal modifications	
Breaker service ²	Gen 1	Gen 2
Train 1	400 Amp	350 Amp
Train 2	250 Amp	250 Amp
Full load amps		
Train 1	290 Amp	249 Amp
Train 2	155 Amp	142 Amp

²Alternatively, customer can supply single power supply with 600 Amp breaker service for Gen 1, and 500 Amp breaker service for Gen 2.

³Lower power options may be available upon review by commercial engineering team.