

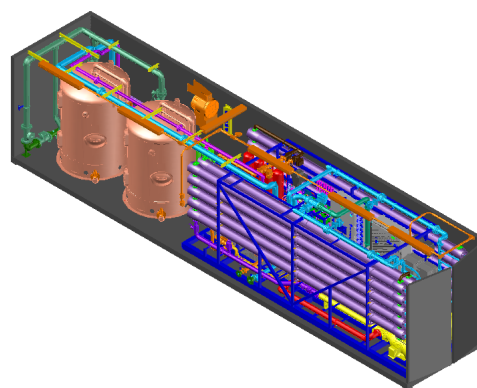
# super 300 MobileRO\*

## reverse osmosis for mid-flow applications, with integral media pretreatment

### 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 300 MobileRO (Figure 1) is configured to produce up to 300 gpm (68 m<sup>3</sup>/h) in single-pass mode and up to 150 gpm (34 m<sup>3</sup>/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 and final pressure transmitters, and pretreatment turbidity meter downstream.



**Figure 1: Super 300 MobileRO**

### standard features

- RO configurable process flow to meet various water demands; two passes or two train operability in a single system
- Up to 300 gpm (68 m<sup>3</sup>/h) in single-pass mode or up to 150 gpm (34 m<sup>3</sup>/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
- 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

### general properties

Single Pass Product Flow Up to .....	300 gpm (68 m <sup>3</sup> /h)
Two Pass Product Flow Up to.....	150 gpm (34 m <sup>3</sup> /h)
Recovery .....	60 to 75%
Nominal rejection .....	95 to 99%
Operating range <sup>1</sup> .....	35° to 105°F (2° to 40°C)
Minimum inlet pressure .....	30 PSIG (2 bar)
Maximum inlet pressure .....	60 PSIG (4 bar)
SDI <sub>15</sub> .....	3

<sup>1</sup>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 Parameter	Inlet	Outlet(s)	Instrumentation 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	4 inches (100 mm)
Concentrate outlet	2 inches (50 mm)
Permeate outlet	4 inches (100 mm)
CIP inlet	4 inches (100 mm)
CIP concentrate outlet	2 inches (50 mm)
CIP permeate outlet (1 per train)	3 inches (75 mm)
Caustic injection	½" FNPT

## electrical

Item	Description
Service	380/460 VAC, 3-phase, 50/60Hz 575 VAC with minimal modifications
Service <sup>2</sup>	
Main	300 Amp
Full load amps	
Main	236/217 Amp

<sup>2</sup>Lower power connected load and use options may be available upon review by commercial engineering team.

## contact us

SUEZ's Mobile Water projects provide customers with the quantity and quality of water needed with emergency, short and long-term contracts. If you would like more information about how a Super 300 MobileRO or other mobile water solution can provide you with the same, please contact your SUEZ account representative or visit [www.suezwatertechnologies.com](http://www.suezwatertechnologies.com).