

mobile water RO series

flexible, efficient, reliable



SUEZ offers one of the largest global fleets of versatile, low-to-high capacity mobile reverse osmosis (RO) fleets on the market, supplying ultrapure water to industrial users on an emergency, scheduled, or long-term basis.

high flexibility

- 24/7 on demand rapid deployment of mobile assets to support customer needs
- can combine with other SUEZ's mobile water products to enhance system capability
- handles large variations in raw water quality

InSight* enabled fleet

- demand prediction and quicker decisions on equipment performance ensuring optimal performance for our customers
- 24/7 data monitoring platform that is securely stored, processed, and analyzed to create meaningful and actionable information
- focus on your business while SUEZ takes care of the water

high treatment capacity with smaller footprint

- compact, high capacity fleet allows you to get the most water production with a single fleet
- a highly efficient footprint and layout minimizes infrastructure requirements and cost

- Double pass or two trains operability in a single system

typical applications

- Supplemental or emergency service to support in-house equipment for water purification
- TDS reduction prior to demineralisation
- TOC reduction for boiler feed water use
- Post-treatment of DI water to remove bacteria, endo-toxins and other contaminants such as colloidal silica in ultra-pure water systems mobile RO Series

Capacity				
Model	Mode	Permeate (m ³ /h)	Reject (m ³ /h)	Feed (m ³ /h)
Flexosm0 DP10	2 Pass	10	5	15
MRO 200	1 train	22.5	9.5	32
	2 train	45	20	65
Flexosm0 DP25	1 Pass	50	21	71
	2 Pass	25	13	38
MRO240	1 Pass	55	23	78
	2 Pass	25	13	38
SR0300	1 Pass	68	27	91
	2 Pass	32	14	45
Flexosm0 DP50	1 Pass	100	43	143
	2 Pass	50	28	78
SR0500	1 Pass	115	49	164
	2 Pass	55	30	85
SR0600	1 Pass	148	63	211
	2 Pass	79.5	45	124
Performance				
Recovery (%)		Single Pass 70 to 75 Double Pass 64 to 70		
Nominal salt rejection (%)		Single Pass >95 Double Pass >99.5		
Feed water parameters				
Max. conductivity (µS/cm)		<1000		
Max. turbidity (NTU)		<1		
Max. SDI ₁₅		<3		
TOC (mg/l)		<3		
Fe, Mn, Ba, Sr		Restrictions apply		
Feed pressure (bar) (min / max)		Refer installation & utility requirements		
Water temp. (°C) (min / max)		5 to 35		

All information is typical, some unit variation possible.

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additional information

Model	FlexosmO DP10	MRO 200	FlexosmO DP25	MRO 240	SRO 300	FlexosmO DP50	SRO 500	SRO 600
Pre-treatment								
Pre-RO media vessels	No	2 x 5ft	No	2 x 5ft	2 x 5ft	No	No	No
Typical media loading	N/A	GAC	N/A	GAC	GAC	N/A	N/A	N/A
Cartridge Filtration								
Housing Quantity	1	1 x 3	2 x 1	1 x 3	1 x 3	2 x 1	2 x 4	2 x 4
Cartridge filter model	PX05-30	PX05-40	PX05-30	PX05-40	PX05-40	MHF005-40	PX05-40	PX05-40
Typical filtration	5µm	5µm	5µm	5µm	5µm	5µm	5µm	5µm
Cartridge filter length	76cm (30")	102cm (40")	76cm (30")	102cm (40")	102cm (40")	102cm (40")	102cm (40")	102cm (40")
Cartridge filter Qty	9 / housing	7 / housing	17 / housing	7 / housing	7 / housing	3 / housing	7 / housing	7 / housing
Instrumentation & Control								
Feed	Flow, conductivity, pH, temperature							
Product	Flow, conductivity, temperature							
Alarms	Audible & visual							
Automation & Control (via volt free contact)	Auto start/stop, Aux. equipment start/stop, External alarm shut down, RO alarm signal							

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installation & utility requirements

Model	FlexosmO DP10	MRO 200	FlexosmO DP25	MRO 240	SRO 300	FlexosmO DP50	SRO 500	SRO 600
Hydraulic connections & conditions								
Connection Type	DIN, PN10	ANSI 150	DIN, PN10	ANSI 150	ANSI 150	DIN, PN10	ANSI 150	ANSI 150
Inlet	DN50	4"	DN150	4"	4"	DN150	6"	6"
Permeate	DN50	4"	DN150	4"	4"	DN150	4"	6"
Concentrate	DN50	2"	DN100	2"	2"	DN100	3"	3"
GAC Backwash	N/A	2"	N/A	2"	3"	N/A	N/A	N/A
Inlet water pressure (bar) (min/max)	3.0 / 6.0	3.5 / 6.9	3.0 / 6.0	3.5 / 6.9	3.5 / 6.9	3.0 / 6.0	2.0 / 4.0	2.0 / 4.0
Electrical requirements								
Power	400VAC, 3-phase, 50 Hz ¹							
Panel Breaker Size	63 A	200 A	400 A	200 A ²	300 A	400 A	2 x 250A ³	Train 1 400A ⁴ Train 2 250A ⁴
Full Load Amps	60 A	162 A	250 A	162 A	177 A	250 A	280 A	Train 1 290A Train 2 155A
Utility Supply	N/A	N/A	N/A	230VAC, 16A, 1-ph, 50Hz	N/A	N/A	230VAC, 16A, 1-ph, 50Hz	N/A
Utility supply connection	N/A	N/A	N/A	IEC 60309 16A Plug	N/A	N/A	IEC 60309 16A Plug	N/A
Dimensions and weights								
Format ⁵	20' Container	Trailer (T) & Container (C)	Trailer	Trailer (T) & Container (C)	Container	Trailer (T) & Container (C)	Container	Container
Weight in transport (kg)	5,500	21,000 (T) 19,000 (C)	18,000	21,000 (T) 19,000 (C)	19,750	18,000 (T) 19,000 (C)	18,000	22,700
Weight in operation (kg)	6,000	25,000 (T) 24,500 (C)	20,000	25,000 (T) 24,500 (C)	24,300	20,000 (T) 21,000 (C)	20,500	24,500

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Notes:

- SRO 300 & 600 can accept 60 Hz power supply
- Low power option available.
 - Single feed: 400VAC, 3-phase, 50 Hz, FLA 99.4 Amps. Panel breaker size 160 A
 - Double feed: Incoming line 1: 400VAC, 3-phase, 50 Hz, FLA 50.35 Amps. Incoming line 2: 400VAC, 3-phase, 50Hz, FLA 49.0 Amps. Minimum overcurrent protection 2 x 63 A [by others]
- Recommended minimum overcurrent protection 400 A [by others]
- Combined supply: 400VAC, 3-phase, 50Hz, FLA 425 Amps. Recommended minimum overcurrent protection 600A [by others]
- Dimensions (length, width, height)
 - 20' container: 6.1m x 2.4m x 2.9m
 - 40' ISO high cube container 12.2m x 2.4m x 2.9m
 - Trailer 13.2m x 2.6m x 4.3m