



# REVERSE OSMOSIS (40M<sup>3</sup>/HR) MOBILE WATER SERVICES DATA SHEET



Whether you need a rapid response to an emergency breakdown or a longer-term solution, our mobile reverse osmosis (RO) water treatment system delivers fast, efficient, reliable results.

In dynamic manufacturing and industrial settings, adaptability to fluctuating demands is crucial, and our single-pass mobile RO water treatment system guarantees streams of up to 40m<sup>3</sup> per hour of purified water, even if your demand or current supply changes.

Each containerised unit arrives pre-built, pre-tested, and pre-commissioned, for easy 'plug and play' installation and is available for emergency, scheduled, or long-term basis.

## APPLICATIONS


- Emergency water requirements
- Refurbishment projects
- Planned shutdowns
- Commissioning tasks
- Steam blows
- Boiler and pipe flushing
- Supply shortages
- Seasonal capacity enhancements
- Changing water quality and increased demand



## FEATURES & BENEFITS

- Engineered to meet your requirements
- Tested in our purpose-built manufacturing facilities
- Fully containerised for operation inside or outside of your main building
- Pre-treatment system for pH adjustment, chlorine removal = suspended solids reduction, and scale prevention
- Reverse osmosis (RO) membrane treatment with high-rejection, low-pressure polyamide thin film composite (PA TFC) membranes
- Programmable logic controller (PLC) and human-machine interface (HMI)
- PureCare RemoteView digital remote monitoring and management system. It features trend data analysis and insights reporting package for drift resolutions and performance optimisation
- Control integration to treated water storage tank and forwarding pumps
- Feed water booster pump, high pressure RO pump, and an integrated treated water pump
- Easily connects to your existing water treatment plant with connection kits provided for feed water, treated water, and drain lines
- Ready to operate, with easy commissioning and ultra-fast start-up
- Avoid Capital Expenditure (CAPEX) by renting units with fixed monthly costs, enabling accurate budgeting
- Can combine with other Envirogen water treatment and process filtration systems to bolster overall system capabilities

## ADDITIONAL OPTIONS

- PureCare Rental - maintenance programmes for planned service and maintenance visits
  - Approved spare parts and consumables packages
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## TECHNICAL SPECIFICATION (40M<sup>3</sup>/HR)

Fully containerised mobile reverse osmosis unit delivering up to **40m<sup>3</sup> per hour** of ultra-pure treated water. The system is supplied within a 20-foot shipping container for easy connection and operation.

RO Model (40 M <sup>3</sup> /HR)		
Feed flow	m <sup>3</sup> /hr	54
Reject flow	m <sup>3</sup> /hr	13.5
Recovery	%	75
Permeate quality (salt passage)	%	<5
Temperature	°C	15
Feed water quality requirements	-	Fe < 0.1 mg/l, Mn < 0.1 mg/l, pH 2-11, < 1 NTU, SDI15 < 5
Feed water pressure requirements	-	Flooded suction
Feed water temperature requirements	°C	5-40
Max TDS feed water	mg/l	2000
Connection		
Feed water	4" PN16 Flange or DN100	
Product water	3" PN16 Flange or DN80	
Waste water	2" PN16 Flange or DN50	
Power	415V 3L N+E 100A	
Power connection	Hard wired into panel	
External connections	Treated water pump inlet: 4" PN16 Flange or DN100	
	Treated water pump outlet: 4" PN16 Flange or DN100	
	First permeate flange: 3" PN16 Flange or DN80	
	CIP connections: 2" PN16 Flange or DN50	
Dimensions & Weights		
Dimensions: Length	m	6.1
Dimensions: Width	m	2.4
Dimensions: Height	m	2.9
Shipping weight	t	7.6

## ABOUT ENVIROGEN

Envirogen is a leading international provider of water and wastewater treatment solutions. We solve complex challenges relating to water availability and quality, and help our customers to increase productivity, reduce costs and meet environmental and sustainability targets.

We do this through offering:

- Best in class water and wastewater treatment and process filtration technology
- Expertise in design, project management and engineering
- World class manufacturing and servicing capability



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**USA:** Texas, Tennessee, New Jersey, California, Nevada.

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