

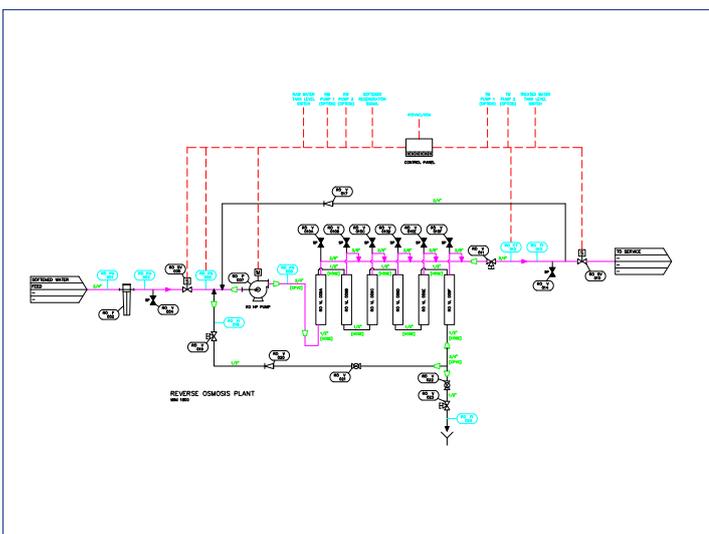
# AWT REVERSE OSMOSIS PLANT - MINI RANGE

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The MINI Reverse Osmosis range is designed with many advanced features as standard to reduce the need for additional controls and plumbing on site making the MINI range competitive as a highly functional plug and play unit incorporating facilitation of future plant expansion. This flexibility is principally provided through the control system design. Some notable features include:-

## KEY FEATURES

- Colour touch screen interface for RO monitoring and control providing continuous display of permeate conductivity, plant status and hours run.
- High level of instrumentation with flow monitoring on permeate, concentrate and concentrate recycle.
- Permeate recycle as standard to reduce water wastage and extend membrane life.
- Alarm logging facility with storage available for 50+ alarms.
- Common alarm signal available as volt free contact.
- RO "in service" signal available as volt free contact for softener control.
- Automated Permeate quality monitoring and control.
- Facility for sampling permeate from individual RO membrane vessels.
- Full mechanical and electrical assembly on 304 stainless steel skid, complete with adjustable legs.
- Small footprint required for installation.
- Clean in place preparation.
- Low energy membranes.
- Options available for control of raw water and treated water pumps.
- Full factory acceptance testing at our UK works prior to delivery.



## FUNCTIONAL DESCRIPTION

The pre-treated water supply is fed through a pre filter (5  $\mu$ m filter element) and inlet solenoid before reaching the RO high pressure pump. High pressure water is then passed through semi-permeable membranes where water diffusion takes place, typically rejecting approx. 95% - 99% of contaminants. This purified water is referred to as permeate. The rejected water that does not pass through the membrane contains high concentrations of rejected ions and is known as concentrate. A portion of concentrate will be recycled through the RO with the remainder passed to drain.

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## OPTIONS

A number of expanded control options are available through the RO control panel depending upon initial specification, to allow integration of auxiliary water treatment plant items such as a feed water or treated water pump should water distribution needs arise.

## TECHNICAL DATA

RO Model	MINI 600	MINI 900	MINI 1200	MINI 1500	MINI 1800
Capacity*	600 L/h	900 L/h	1200 L/h	1500 L/h	1800 L/h
Stabilized salt rejection	>99%	>99%	>99%	>99%	>99%
Water recovery	max 75%				
Typical Treated Water Quality*	<30 µS/cm				
Concentrate recirculation (min)	1200 L/h	1000 L/h	900 L/h	1000 L/h	500 L/h
Feed water intake	3/4 "	3/4 "	3/4 "	3/4 "	3/4 "
Permeate outlet	3/4 "	3/4 "	3/4 "	3/4 "	3/4 "
Drain outlet	1/2"	1/2"	1/2"	1/2"	1/2"
HP Pump rated power	1.5kW	1.5kW	1.5kW	1.5kW	1.5kW
Control panel current rating	40A	40A	40A	40A	40A
Power connection	3x400/50	3x400/50	3x400/50	3x400/50	3x400/50
Protection type	IP65	IP65	IP65	IP65	IP65
Feed water pressure (min/max)	2/6 bar				
Feed water pressure fluctuation	± 0.5 bar				
Permeate back pressure (max)	0.3 bar				
Feed water temperature (min/max)	5/25 °C				
Ambient temperature (max)	40 °C				
Relative humidity	<95%	<95%	<95%	<95%	<95%
Dimensions (HxWxD)	1700mm x 900mm x 930mm				

\* Dependent upon feed water supply quality. Projections are made based upon a maximum feed TDS of 1,000 mg/L at 15 °C.

## Other products in this range

An extensive range of cost effective AWT Reverse Osmosis models including the SUPER MINI, MIDI & MAXI are available providing flow rates from 300 litres per hour to 25m<sup>3</sup> per hour with additional pre and post treatment equipment to suit all applications.

Please contact us for more information and assistance in selecting equipment to best suit your requirements.



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