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Experts in water treatment products

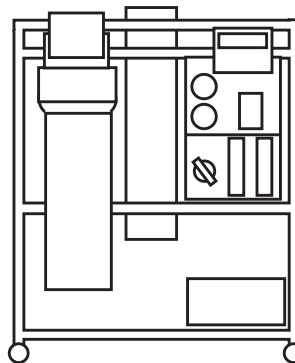
PROMAX SERIES: MODEL NO: 1-2140-150-BC (20") Reverse Osmosis System



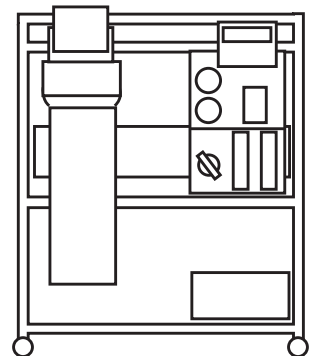
Promax Reverse Osmosis System 1-2140-150-BC

DIMENSIONS

Height = 980mm
Length = 580mm
Depth = 550mm
Weight = 38 kgs



Vertical Orientation



Horizontal Orientation

The Pozzani PROMAX Series of Reverse Osmosis systems offer some ground breaking advances in RO system design. Using the latest thin film composite (TFC) membrane technology - extra low pressure membranes produce deionised water very efficiently resulting in minimum power usage and surprisingly low running costs.

The compact design of the 'common rail' frame and control panel has allowed us to create a wide variety of machines with varying capacities and capabilities at very favourable prices.

This machine has the following design features and requirements.



1-2140-150-BC Computer Controller

Overview of 1-2140-150-BC

Output (Max)	150 litres/hour
Membranes	Extra Low Energy TFC 1 x 2" x 21"
Rejection	99.0% Stabilized Salt
Recovery (Max)	75% - Adjustable
Pump	0.37 kW (with speed control)
System Control	Automatic - with adjustable settings
Input Pressure	At least 2 bar (30 psi) is recommended
Power	240 VAC ~ 50Hz
Phase	Single
Amps	3.41
Capacitor μ F	16
Inverter	None
Controller	SW1-128

TECHNICAL DETAILS - PROMAX 1-2140-150-BC

KEY FEATURES	DETAILS
Output	Up to 150 litres per hour
Membranes	Qty 1 x 2" x 21" TFC - extra low pressure
Rejection	99.0% Stabilized Salt
Recovery	Up to 75% - Adjustable
Pump	Multi-stage centrifugal 240 VAC ~ 50Hz - 0.37kW with speed control
Controls	Fully automatic with options
Pre-Filtration	High capacity system included (additional pre-filtration available)
Running Costs	Very low power consumption and low cost spares
Technical Support	Free unlimited telephone support

CONSTRUCTION

■ Frame	Strong Box Section Steel - powder coated
■ Mobility	Lockable Castors (removable)
■ Control Panel	Stainless Steel - 304
■ Membrane Housings	Stainless Steel - 304
■ Pump	0.75kW (240v) Rated for continuous duty - with speed control
■ Pre-filtration	High Capacity Big Blue Filter(s) - Other options ①

CONTROLS AND INSTRUMENTATION

■ Pump Protection	Low and high pressure cut-outs
■ Pressure Gauges	Feed water and pumped water (Glycorene filled)
■ System controller	Automatic with in-built TDS meter
■ Flowmeters	Permeate and Concentrate flow monitoring
■ Recycling	Adjustable for up to 75% recovery
■ Automatic Flush	Periodic + Flush on Start/Stop
■ Control Lights	Status Lights on Controller and Flush Units
■ Optional Controls	TDS Controller with relay ②

SYSTEM OPTIONS

- ① Additional custom built pre-filtration can be supplied including water softening systems for hard water areas
- ② Additional TDS Controller with relay - for accurate monitoring and control of product water (see image of control display panel opposite)
 - Choice of 0-200uS/cm or 0-20uS/cm
 - Automatic Temperature Compensation (5 to 50°C)
 - Resolution 0.01mS/cm
 - Accuracy + 2% F.S.
 - Setpoint - Adjustable with trimmer throughout range
 - Relay Control - Activated when setpoint exceeded



FEED WATER REQUIREMENTS

This system is designed for use with clean pressurised water - recommended minimum water specification are detailed below

■ Maximum Operating Temperature	45°C (113°F)
■ Maximum Operating Pressure	120 psi (8 bar)
■ pH Range	2-11
■ Maximum Feed Silt Density Index	SDI 5
■ Free Chlorine Tolerance	< 0.1ppm after carbon filtration
■ Iron (Dissolved)	< 0.5ppm
■ Assured feed pressure - 3 bar (45 psi)	

PRE-FILTRATION

In hard and medium water areas, a duplex water softener must be fitted. Additional pre-filtration may be required to control pollutants like chlorine (high levels) suspended solids and iron etc.

POST FILTRATION

Reverse Osmosis product water (permeate) can be post-treated to produce higher quality water - please contact your installer or Pozzani for further details.

