

Steripure

Water treatment products

SRO-300PNX COMMERCIAL REVERSE OSMOSIS SYSTEM



SRO-300PNX Commercial Reverse Osmosis System

Width	530mm
Height	588mm
Depth	190mm

LOW COST DE-IONISED WATER PRODUCTION

Reverse Osmosis is a very economical method of converting tap water into de-ionised water and has many advantages over distillation and ion exchange processes. Water is produced on demand at a low flow rate, the product water is usually stored in a pressure vessel or tank ready for use.

The recovery of de-ionised water is approximately 50% of the input volume on the SRO-300PNX system, rejected water can be recycled for wash water, grey water, toilet flush etc.

THE SRO-300PNX SYSTEM

Steripure SRO-300PNX Reverse Osmosis (RO) system is a compact freestanding module capable of producing up to 700 litres of de-ionised water a day (dependent on conditions).

RO is an extremely efficient method of converting tap water into demineralised water, a combination of post filtration cartridges can further produce High Priority or Ultrapure water for laboratory and other uses.

Steripure specialises in small Reverse Osmosis systems, the SRO-300PNX module is a completely integrated system which is simple to set-up, very easy to use and does not require expensive pre-treatment essential for larger RO plant. The SRO 300 module includes:-

- Built in 24vDC pressure pump
- On-line conductivity monitor with alarm
- Automatic high and low pressure cut outs
- Automatic membrane flush on start and stop
- Pressure gauge
- Built in pre-filtration with choice of add-ons
- Built in post filtration with choice of add-ons
- Manual membrane flush

APPLICATIONS

Catering

- Ice makers
- Coffee machines
- Steam ovens
- Filtered water

Industrial

- Laboratories
- Glass washing machines
- Paint workshops
- Garages and workshops
- Industrial applications (e.g. Laser cutter water reservoirs)
- Anywhere de-ionised water is used regularly



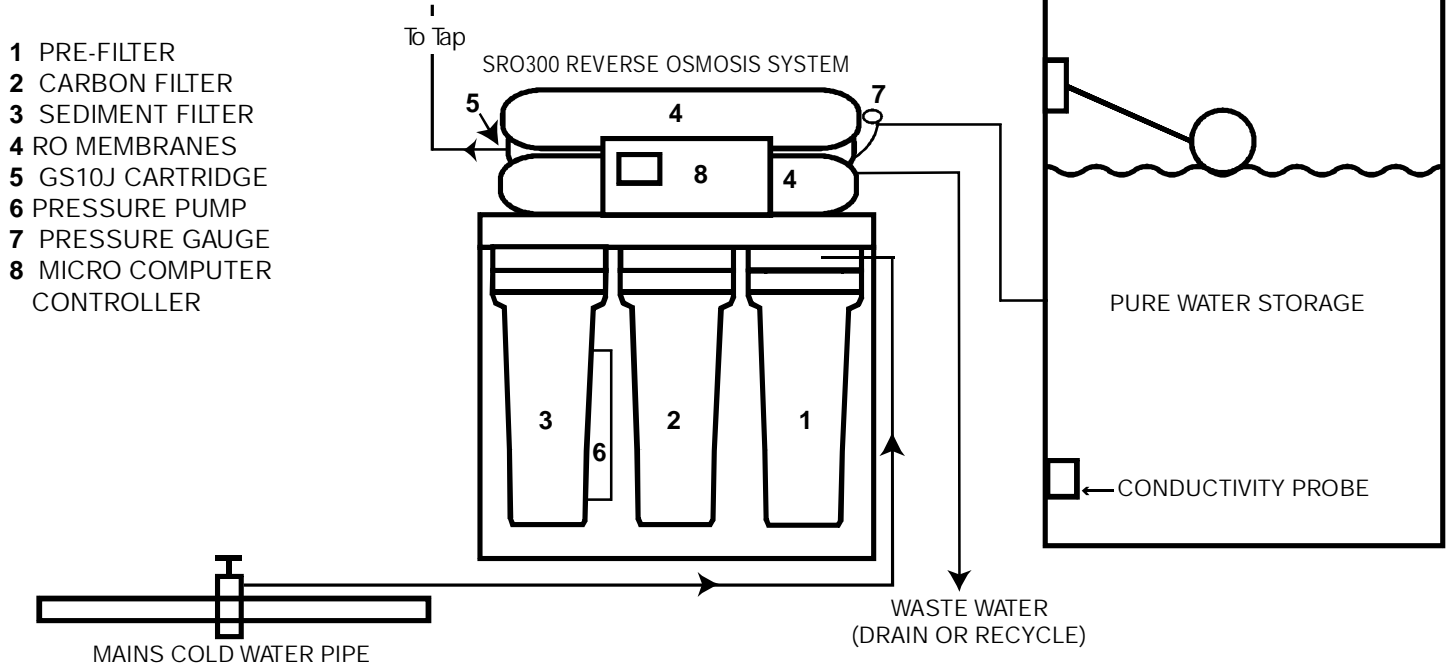
Press the button labelled Set until the required TDS reading is shown in the LCD panel. If the TDS reading goes over the set amount a indicator light above the Set button will come on.

Picture left: Micro Computer Controller Model - 128

Indicator lights from right to left on panel


- 1 Power On
- 2 Source
- 3 Process Water
- 4 Flush Tank
- 5 Tank Full

SCHEMATIC DIAGRAM OF TYPICAL INSTALLATION



Reverse Osmosis membranes reject approximately 90-95% of the Total Dissolved Solids (TDS), mains water with a conductivity of say 600uS should therefore yield a product water of around 30uS to 60uS. Higher quality water is achieved by post filtration cartridges which can reduce conductivity to virtually zero and achieve a mechanical filtration of 0.2 micron absolute.

UV can also be added as a post filtration stage to ensure sterility - please call for details where a specific water quality is required.

Technical Specifications PRO-300PNX		Feed Water Requirements	
Output per day*	700 Lts	Water Feed Temperature	4° C to 25° C
Recovery	Approx 50%	Water Feed Pressure	4-7 bar (60psi-100psi)
RO Membrane	3 x 12" TFC	Chlorine	<0.1mg/l
Booster Pump	24vDC Automatic Start-Stop	Dissolved Iron	<0.2mg/l
Membrane Flush	Automatic on start and stop	Feed pH	3 to 11
Feed Pressure Gauge	0-160 psi	Max Silt Density Index	5.0 (15 min)
Conductivity Meter	Digital display with variable set-point visual alarm	Max Feed Turbidity	1.0 NTU
Conductivity Range	0-999ppm	Max Feed Conductivity	500 ppm (approx. 1000uS/cm)
Controls	Low pressure cut out High pressure or Float switch cut out on full tank	NB - mains water usually meets these requirements after pre-filter treatment.	
Electronics	24vAC & 24vDC - Transformers supplied	 <p>Agents: MES Ltd PO Box 9536 Clacton - on - Sea CO15 9BA. Tel: 01255 422283 e-mail: enquiries@mesltd.net</p>	
Module Dimension	Width 530mm x Height 588mm x Depth 190mm		
Module Weight (dry weight)	13.5Kg		

* Based on a water temperature of 16° C at a pressure of 60 psi. Lower temperature and pressure will reduce the production rate.