



Pozzani Pure Water Plc  
Warwick Road  
Fairfield Industrial Estate  
Louth  
Lincolnshire LN11 0YB  
Telephone: 0845 165 1250  
Telephone: (01507) 608100  
Fax: (01507) 608090  
email:enquiries@pozzani.co.uk  
www.pozzani.co.uk

**pozzani**®  
Water treatment products

# SRO300 COMMERCIAL REVERSE OSMOSIS SYSTEM



SRO300 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 SRO300 system, rejected water can be recycled for wash water, grey water, toilet flush etc.

## THE SRO300 SYSTEM

Pozzani's SRO300 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.

Pozzani specialises in small Reverse Osmosis systems, the SRO300 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

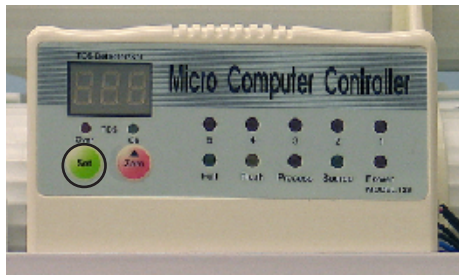
## APPLICATIONS

### 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.

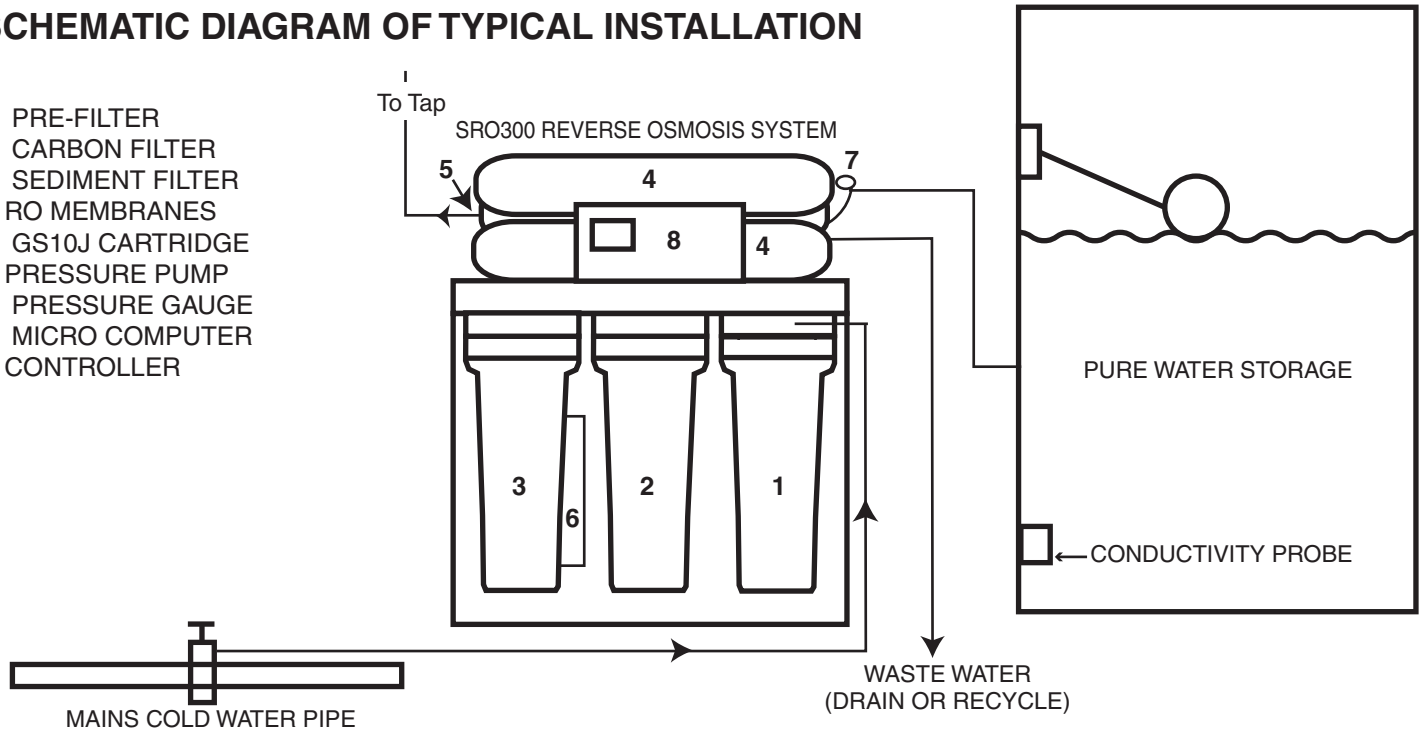
Picture left: Micro Computer Controller Model - 128

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

- 1 PRE-FILTER
- 2 CARBON FILTER
- 3 SEDIMENT FILTER
- 4 RO MEMBRANES
- 5 GS10J CARTRIDGE
- 6 PRESSURE PUMP
- 7 PRESSURE GAUGE
- 8 MICRO COMPUTER CONTROLLER



Reverse Osmosis membranes reject approximately 90-95% of the Total Dissolved Solids (TDS), mains water with a conductivity of say  $600\mu S$  should therefore yield a product water of around  $30\mu S$  to  $60\mu S$ . 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 PRO300

Output per day*	700 Lts
Recovery	Approx 50%
RO Membrane	3 x 12" TFC
Booster Pump	24vDC Automatic Start-Stop
Membrane Flush	Automatic on start and stop
Feed Pressure Gauge	0-160 psi
Conductivity Meter	Digital display with variable set-point visual alarm
Conductivity Range	0-999ppm
Controls	Low pressure cut out High pressure or Float switch cut out on full tank
Electronics	24vAC & 24vDC - Transformers supplied
Module Dimension	Width 530mm x Height 588mm x Depth 190mm
Module Weight (dry weight)	13.5Kg

### Feed Water Requirements

Water Feed Temperature	4° C to 25° C
Water Feed Pressure	4-7 bar (60psi-100psi)
Chlorine	<0.1mg/1
Dissolved Iron	<0.2mg/1
Feed pH	3 to 11
Max Silt Density Index	5.0 (15 min)
Max Feed Turbidity	1.0 NTU
Max Feed Conductivity	500 ppm (approx. $1000\mu S/cm$ )
NB - mains water usually meets these requirements after pre-filter treatment.	



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