

PRO 75 & PRO 150 COMMERCIAL REVERSE OSMOSIS SYSTEM



Commercial Reverse Osmosis Systems: Left: PRO 75 Right: PRO 150

Pozzani's PRO series Reverse Osmosis (RO) Systems are ideal for making de-ionised water and will produce up to 300 litres of product water per day. RO is an extremely efficient method of converting tap water into demineralised water, a combination of post filtration cartridges can further produce High Purity or Ultrapure water for laboratory and other uses.

APPLICATION

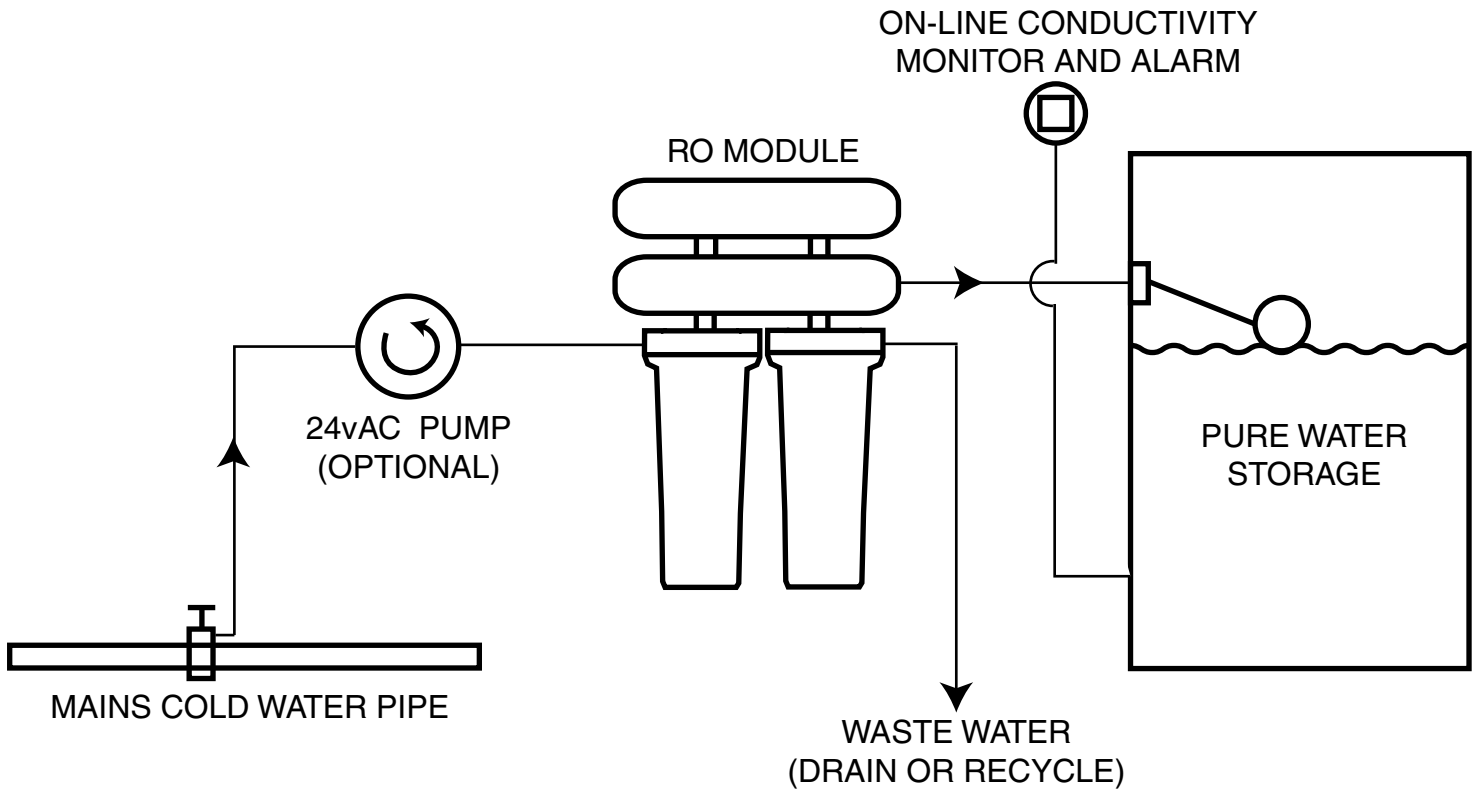
- Laboratories.
- Glass Washing Machines.
- Paint Workshops.
- Garages and Workshops.
- Industrial Applications (e.g. Laser cutter water reservoirs).
- Anywhere de-ionised water is used regularly.

LOW COST WATER PRODUCTION

Reverse Osmosis is very economical to run, it 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 around 10-15% of the volume processed in a single pass of the membrane. The PRO 150 is a twin membrane system which has a higher production rate and will recover up to 30% of the input water.

Rejected water is high in mineral content, but can be used as wash water and grey water for toilet flush etc.

SCHEMATIC DIAGRAM OF TYPICAL INSTALLATION



Technical Specifications

	PRO75	PRO150
Output per day*	150 Lts	300 Lts
Recovery	Approx 15%	Approx 30%
RO Membrane	1 x 12" TFC	2 x 12" TFC
Booster Pump ①	Optional	Optional
Flush	Manual	Automatic
Input Pressure Gauge	Yes	Yes
Auto Shut-Off	Yes	Yes

Feed Water Requirements

Water Feed Temperature	4° C to 25° C
Water Feed Pressure	4-7 bar
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 μ S/cm)
Performance	NB - mains water usually meets these requirements after pre-filter treatment.
	Recovery approx. 40%
	TDS better than 30 ppm

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

① Pump recommended if pressure is less than 60 psi. Booster pump essential if pressure is less than 40 psi.

SYSTEM MANAGEMENT

A wide variety of controls are available to ensure easy and reliable operation.

- On-line conductivity monitors available with a variety of scales and types of alarm when variable set-point exceeded.
- Pressure booster system includes low pressure and high pressure cut-out switches.



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