pozzani

Experts in water treatment products

SRO-300-NX
Reverse Osmosis System

SRO-300-NX
REVERSE OSMOSIS SYSTEM

Suitable for commercial and industrial applications

OVERVIEW

Pozzani's SRO-300-NX is a mid-capacity, direct flow system capable of producing up to 700 litres of purified water a day and has special NX post-filtration to further reduce conductivity to less than 2ppm ($5uS^{-1}$).

It is a compact, freestanding module mounted on a tubular steel frame which makes it easy to transport and site in virtually any working environment.

Installation is straightforward and the system comes with everything you need for complete set up. Once installed, there are four cartridges to replace every six months which can be purchased in a pack together.

TECHNICAL SPECIFICATIONS

Membrane type	3 x 12" TFC
System capacity	700 litres per day*
Booster pump	24vDC Automatic start/stop
Membrane flush	Automatic on start/stop
Recovery	Approx 50%
Feed pressure gauge	0–160 psi
Conductivity meter	Digital display with variable set-point visual alarm
Conductivity range	0–999 ppm
Controls	Low pressure cut out High pressure/ float switch cut out on full tank
Electronics	24vAC & 24vDC - Transformers supplied

FEED WATER REQUIREMENTS

Note: Mains water will usually meet these requirements afte pre-filter treatment.

	MIN	MAX
Feed pressure	37 psi	95 psi
Feed temperature	4°C	25°C
Feed pH	3	11
Chlorine	N/A	0.1 mg/l
Dissolved Iron	N/A	0.2 mg/l
Silt density index	N/A	5.0
Feed turbidity	N/A	1.0 NTU
Feed conductivity	N/A	500ppm

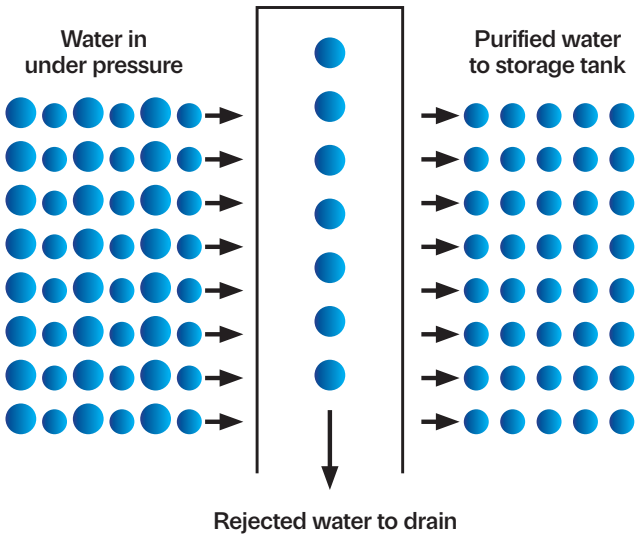
DIMENSIONS

Dry Weight	13.5kg
Height	588mm
Width	530mm
Depth	190mm

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

THE PRINCIPLES OF REVERSE OSMOSIS

To best explain reverse osmosis and how RO systems work, it makes sense to first start with osmosis. Osmosis is a naturally occurring yet incredibly important natural diffusion phenomenon that occurs in the cells of both plants and animals. When osmosis occurs, water from an area of low solute concentrate will migrate across a semi-permeable membrane due to naturally occurring pressure, to an area of high solute concentrate in order to try and create an equilibrium. The membrane allows the water to pass through but not larger molecules such as salt. In reverse osmosis, a large amount of pressure, which is greater than the naturally occurring osmotic pressure, is applied to the higher solute concentration in order to forcibly push water molecules through the semi-permeable membrane. The result on the other side of the membrane is pure water which is free from contaminants, as they are unable to pass through the membrane.



In RO systems, this process is utilised as a very efficient method of purifying water. The internal RO membrane rejects virtually all contaminants (which are sent away in wastewater through your drainage system) which leaves pure water feeding through to the storage tank. RO systems also have pre and post filters which add additional layers of contaminant removal to ensure the end water you receive is a pure as possible. The recovery of purified water is around 15-20% of the volume processed in a single pass of the membrane and the entire process is powered solely by water pressure.

TYPICAL PERCENTAGE OF IMPURITIES REMOVED BY REVERSE OSMOSIS

Impurity	% Removed	Impurity	% Removed
Microplastics	99%	PFAS and PFOS	95%
Bacteria	95%+	Endrin	95%+
Glucose	95%+	Lindane	95%+
Methoxychlor	95%+	Phenol	95%+
Protein	95%+	Pyrogens	95%+
Sucrose	95%+	THM's	95%+
Toxaphene	95%+	Urea	95%+
Virus	95%+	Aluminium	97%
Ammonium	85-90%	Bicarbonate	91-95%
Bromide	88-92%	Cadmium	93-96%
Calcium	93-96%	Chloride	88-92%
Chlorine	95%+	Chromate	85-90%
Copper	94-97%	Cyanide	85-90%
Hardness	93-96%	Iron	94-97%
Lead	95%	Magnesium	93-96%
Mercury	94-97%	Nickel	94-97%
Nitrate	50-90%	Phosphate	97%+
Potassium	88-92%	Silicate	88-93%
Silver	88-92%	Sodium	88-92%
Strontium	93-96%	Sulphate	93-96%
Zinc	94-97%	Fluoride	95%+

INDUSTRIES AND APPLICATIONS

RO systems are used in many different industries for a huge variety of applications. The type of RO system required will be based upon several factors including daily capacity requirements, levels of sediment in the incoming supply and what the treated water will be used for, amongst other things. The SRO-300-NX is generally suitable for the following industries and applications as examples:

- Laboratories
- Microelectronics
- Pharmaceuticals
- Cooling systems
- Dentistry
- Garages and workshops
- Food and beverage production

Note: Water produced by the SRO-300-NX is not suitable for use as drinking water. Please see the SRO-300 brochure for drinking water application.

TAP CHOICE

We have a very wide selection of kitchen filter taps available. Every reverse osmosis system purchased will come with a free tap as standard. **To view all available kitchen filter taps, simply download our tap catalogue.** When ordering your RO system, please let us know which tap you would like. Our range includes:

Touch Taps - Included with any RO system*

Standalone filter taps, these are sleek in design to ensure they can be installed discreetly The simple touch lever can be set to deliver a constant flow or pressed down for a short burst of water. The spout rotates 360°, and they come in a regular or long length to ensure ease of use. Available in a variety of painted and metal finishes.

Quarter Turn Taps - Included with any RO system*

Fitting seamlessly into any kitchen as a standalone filter tap, quarter turn taps are designed to provide you with full-flow water when the handle is turned 90°. They are available with an elegant, curved swan neck or longer goose-neck, and there are a range of handle types and finishes to choose from.

Three Way Taps

Delivering cold, hot and filtered water, three-way taps remove the need for a standalone filter tap and can be installed in place of your existing fitting. This saves on space and means that you don't need to make additional holes in your sink or work surface.

* excludes stainless steel finishes.

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