

Steripure

Water treatment

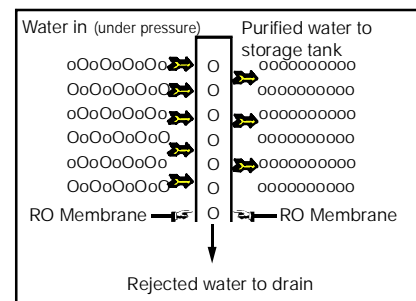
SRO-50PNX REVERSE OSMOSIS SYSTEM WITH PUMP & DE-MINERALISING FILTER



SRO-50PNX Reverse Osmosis System with extra housing
Note: for technical reasons filter position may change from above

The principle of Reverse Osmosis

- Reverse Osmosis is a very efficient method of purifying water.
- The ultra fine membrane rejects virtually all contaminants in the feed water to the drain at a rate of between 95-98%.
- The recovery of purified water is around 10-15% of the volume processed in a single pass of the membrane.
- The purifying process is powered solely by water pressure.
- The Domestic Reverse Osmosis system uses a semi permeable membrane that separates the hydrogen and oxygen molecules (H_2O) from the larger pollutant molecules in the water. See diagram below.



Typical percentage of impurities removed by Reverse Osmosis commonly found in water

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	88-82%	Silicate	88-93%
Silver	88-92%	Sodium	88-92%
Strontium	93-96%	Sulphate	93-96%
Zinc	94-97%	Fluoride	95%+

The Reverse Osmosis System

SRO series of RO systems offer advanced filtration and control systems which extend membrane life, reduce water loss with its auto shut-off system and ensures reliable operation in a compact and easy to maintain module. Key features of the Steripure SRO-50P Reverse Osmosis system are listed below:-

- Pressure pump to boost input pressure to over 3 bar (45psi)
- Compact Design
- Latest technology TFC membranes
- Fail-safe flow restrictor
- Auto shut-off on full tank
- Only 3 cartridges to change every 6 months
- Multi-stage cartridges protect membrane & enhance water quality
- Simple DIY installation

TECHNICAL SPECIFICATIONS

SRO-50PNX

Membrane Type	TFC
Membrane Rating (US Gals per day)	50 gpd
System Capacity (Imp. Gals per day)	16-34 gpd (71-150lts/day)
Pressure Booster Pump	12vDC Diaphragm type
For all models:	
Pressure Tank Capacity	18 litres max.
Recovery	Approx. 10-15%
Rejection %	Average 95-98%
Shut-Off	Automatic on full tank
Flow Restrictor	Fail-Safe
Pre-Filter	5m Sed/TX600 Carbon
Post Filter	GS10J
Feed Water Pressure	5psi Min. - 85psi Max.

RO REQUIREMENTS AND MAINTENANCE

- Cartridges need to be changed every 6 months.
- The RO membrane has an approximate life of 1-3 years. Excessive amounts of dirt, minerals and iron may shorten the membrane life. Chlorine attacks the membrane fabric so it is important to change the filter cartridges at the prescribed interval.
- A variety of post filter cartridges are available for specialist pollutant removal.
- The RO should be fed by a water supply that is potable (drinkable). If you have a private water supply that requires treatment, you cannot use this equipment on a microbiologically unsafe water supply and assume it is safe to drink.

FEED WATER REQUIREMENTS FOR SRO SERIES RO SYSTEMS (note most mains supplies in the UK will meet these requirements).

	MIN	MAX
Feed Pressure	10psi	85psi
Feed Temperature	4°C	25°C
Feed pH	3	11
Ambient Temperature	2°C	40°C
TDS (Dissolved Solids)	N/A	500ppm
Dissolved Iron (FE)	N/A	0.5ppm

Dimensions

- The RO will occupy a reasonable amount of cupboard space.



Height 450mm
Width 490mm
Depth 190mm

18 LITRE STORAGE



Height 400mm
Diameter 275mm

- Dry Weight 10Kg



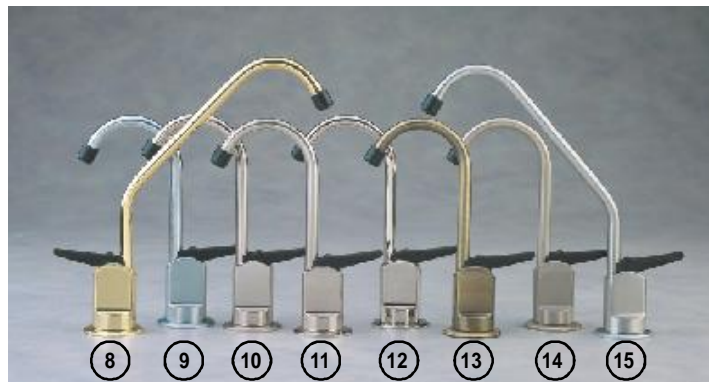
Agents: MES Ltd
PO Box 9536
Clacton - on - Sea
CO15 9BA.
Tel: 01255 422283
e-mail: enquiries@mesltd.net

Optional Extra: Tap Choice (Long reach SS (15) supplied)

Regular and Long Reach spouts are interchangeable.



Coloured taps - 1 white, 2 black, 3 grey, 4 red, 5 brown, 6 almond, 7 bisque.



Metal taps - 8 polished brass, 9 brushed chrome, 10 brushed nickel, 11 satin nickel, 12 polished nickel, 13 antique brass, 14 pewter, 15 brushed stainless.

Installation

- Everything you need to install the system is supplied.
- Full instructions on installation are included.
- Technical helpline to assist with any problems.
- Easy to install no previous plumbing knowledge required.
- Connection to the cold water supply is by a clamp-on saddle valve which fits 12 to 15mm copper pipe (no need to cut the cold water pipe).
- All other connections are simple push-fit type connectors.
- Reverse Osmosis Module is wall hung and the storage tank is free standing.

SRO 50PNX REVERSE OSMOSIS SYSTEM

DOMESTIC INSTALLATION EXAMPLE

