

PUR1TE
FIRST FOR PURE WATER

PRESTIGE^{COMPACT}

Renal Reverse Osmosis Unit

- Compact single patient reverse osmosis (RO) unit.
- Integrated pre-filtration.
- Easy to install and maintain.
- Graphical user interface.
- Point of use recirculation.
- Quiet operation.
- Semi-automatic chemical clean.



UNIT DESIGN

5µm carbon pre-filter – Protects reverse osmosis (RO) membrane.

Integral tank - Protects against feedwater pressure fluctuations and allows easy cleaning.

Integral variable power boost pump – Enables RO membrane to operate at optimum performance.

RO membrane – Removes up to 98% of dissolved minerals, and up to 99% of organic, bacterial and particulate contaminants.

Permeate divert on start-up - Ensures consistent permeate quality.

Audible alarm with mute facility – Provides an alarm monitoring permeate quality, chemical contamination and over pressure.

User friendly display – Back-lit display clearly shows information concerning the unit operation in both text and graphic format.

Semi-automatic chemical clean – With automatic chemical draw, recirculation and rinse, cleaning is straight forward and trouble free.

Standby recirculation for use in ITU / Acute applications – Ensures the bacterial quality is maintained so that the unit is ready for immediate use.

Flexible start / stop facility – Interface exists to allow remote start / stop of the unit either via the dialysis machine, a programmable timer, or via a remote key switch.

RS232 Interface – Provides easy connection to a remote PC.

Point of use recirculation – The design of the system means that water continually recirculates to the point of use, ensuring the bacterial quality of the water is maintained.

TECHNICAL DATA

Output	@25°C (l/hr)	112
	@10°C (l/hr)	66
Feedwater Hardness (Max) ¹	ppm CaCO ₃	400
Feedwater Temperature (Min/Max)	°C	1 / 35
Feedwater Pressure (Min/Max)	bar	1 / 6
Free Chlorine	ppm Cl ₂	<0.1
Optional Pretreatment Cylinder ²		CC7
Pure water recovery	Max (%)	25
Feedwater consumption	Max (l/hr)	292
Drain flowrate	Max (l/hr)	180
Power requirements		100-230v/50-60hz
Dimensions (w, d, h)	mm	420x548x630
Weight (Working)	kg	28
Weight (Shipping)	kg	20

¹ For harder water a Purite water softener is required

² Optional pre-treatment required if free chlorine >0.1ppm or feedwater has a fouling index >5.

The unit is designed for a maximum TDS of 1000 mg/l, sized on a water temperature of 10 °C and a maximum colloidal index of 3.

The permeate recovery depends on the raw water quality and the type of pre-treatment.

Errors and omissions excluded. Purite reserves the right to change specification without notice.

ACCESSORIES

Trolley – Designed specifically to facilitate easy movement of the unit and incorporates fully braked wheels.

Cleaning chemicals – A range of cleaning and sanitising chemicals to ensure the consistent operation of the unit and to prolong the life of the membrane.

OTHER PURITE SOLUTIONS

MEMBRANE CARE



A range of cleaning chemicals together with CIP (clean in place) trolleys are available to cater for routine membrane maintenance and for removing significant levels of fouling to ensure long membrane life.

RANGE



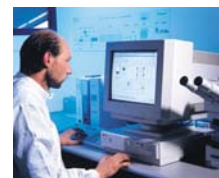
A range of larger RO units are available, capable of feeding up to 5 dialysis machines.

SYSTEMS



For larger renal dialysis applications, Purite can design, install and project manage bespoke solutions incorporating features such as fully automated heat disinfection.

SERVICE



A range of preventative maintenance contracts covering all Purite and OEM equipment is available.



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