



# Dialysis Water Treatment – It's a matter of trust

Eco-Chem newly enhanced portable RO system is designed for ease of use, quiet operation, and superior reliability. Unlike other portable RO systems, Eco-Chem's unique compact design is a complete package. All pretreatment, which includes dual carbons (tank plus filter) and anti-scalant for hardness reduction, is located inside the cabinet. It has everything you need to transform your tap water into dialysis quality water (no softener or salt is needed).

#### **FEATURES**

- 1) Cost effective water treatment system
- 2) Uses the reverse osmosis principle
- 3) Suitable for all types of commercial/industrial usage
- 4) Suitable designing & best engineering work
- 5)Latest in water treatment technology
- 6) Cleans the water contaminants
- 7) Removes all dissolved water impurities
- 8) Using semi-permeable membrane
- 9) Delivers pragmatic & profitable water treatment solution
- 10) Heavy duty cycle, easy installation & low maintenance 11) Removes non-essential and corrosive salts, metals & chemicals
- 12)Making water safe for tools and equipment usage 13)Easy to install and cost-efficient
- 14)Removes salts, minerals and other impurities
- 15)Rejects bacteria, sugars, proteins, and other particles 16)Designed as per the technical details provided by the client
- 17)Serves the requirement with highest level of precision18)High production capacity, reliable & durable19)Ideal for different types of commercial / industrial
- setups
- 20)Highly effective and easily maintainable
- 21)Can be cleaned with ease and operate continually

## ENHANCED FEATURES

- Effective patient care (up to two stations)
- Unique compact design
- Entire device conform WHO standard
- Plug-n-play controller
- Recirculation feature reuses excess product

water, reducing water usage up to 45%

Complete package

PARAMETERS	Model -100	Model - 200	Model - 500	Model - 1000	Model -2000
TREATMENT CAPACITY	100 LPH	200 LPH	500 LPH	1000 LPH	2000 LPH
FLOOR AREA	3m X 3M	3m X 3 m	4 m X 4 m	5m X 4 m	5m X 4m
МОС	SS	SS	SS	SS	SS
POWER CONSUMPTION	2 kw	3 kw	4 kw	5 kw	6 kw
TERTIARY FILTRATION	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	✓
ULTRA VIOLET SYSTEM	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$

#### MAIN TECHNICAL PARAMETERS

- Input water requirement
- The original water is tap water which pressure≥0.20MPa
- Conductivity≤300mS/cm, and the water quality should accord with GB57492
- Water standard
- PH:5.5-7.5
- Copper:≤0.1mg/1
- Cond.≤10mS/cm
- Chloride:≤0.1mg/L
- Cyanide≤0.001mg/
- Lead≤0.005mg/L
- The best pressure of RO: 0.8-1.2MPa

• The may pressure of RO: 1 4MPa water output size :

We can supply many models of the hemodialysis RO system based on the number of the beds as follows :-

Model	Water Output ( L/hr)	Bed Number
Model 150	150L/hr	1-4
Model 250	250L/hr	4 – 7
Model 500	500L/hr	7 – 15
Model 750	750L/hr	15 – 20

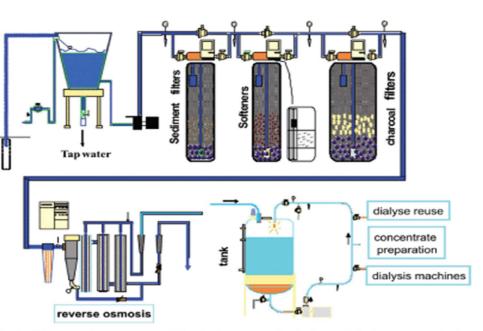
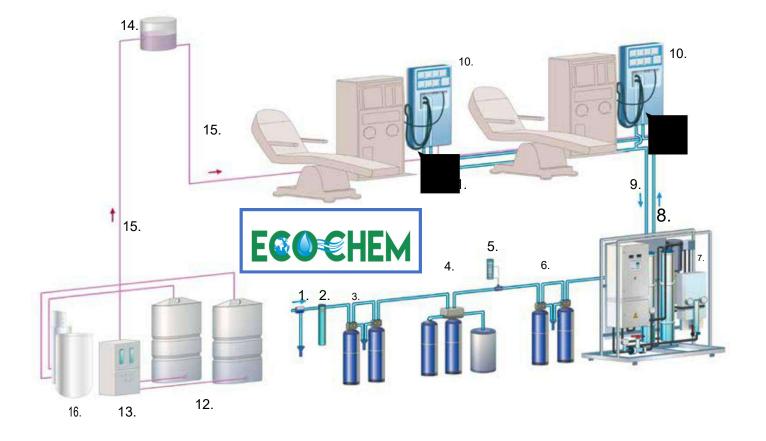


Fig. 1 - Diagram of treatment and distribution system in the hemodialysis center studied.



### At a glance – the complete water treatment system for artificial dialysis



- 1. backflow preventer
- 2. pre-filter
- 3. iron removal filter (option)
- 4. duplex water softening unit
- 5. hardness monitoring unit limitron
- 6. activated carbon filter (option)
- 7. Reverse osmosis unit
- 8. supply side distribution ringmain without dead legs

- 9. return side distribution ringmain without dead legs
- 10. bed head media panel
- 11. double-hose connection system, flow and return without dead zones
- 12. concentrate holding tank
- 13. central concentrate distribution
- 14. high-level concentrate distribution reservoir
- 15. concentrate supply pipe
- 16. concentrate mixing system

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