

INDION

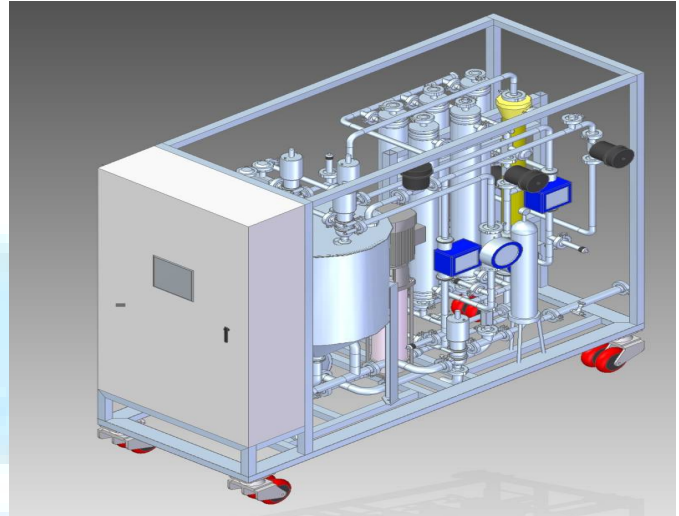
HIGH PURITY WATER SYSTEM FOR ARTIFICIAL KIDNEY DIALYSIS UNIT EFFICIENT, HYGIENIC AND SAFE

To meet an extensive water purification system is absolutely critical for Hemodialysis. Since dialysis patients are exposed to vast quantities of water, which is mixed with Dialysate concentrate to form the Dialysate, even traces of mineral contaminants or bacterial endotoxins can enter into the patient's blood causing nausea, vomiting, muscle weakness, severe headaches, skin flushing and low or high blood pressure. If anything less, than ultra-pure water is not recommended for your dialysis treatment.

For Hemodialysis applications water treatment equipment AKD meet's AAMI Standard and Recommended Practices. AAMI/RD62:2001.

AKD unit consists of Reverse Osmosis Membrane Technology which produces water with very low dissolved solids and which is also free from particulate, colloidal and organic matter and UF membrane advanced technology used for sterilization of pharmaceutical water separation of bacteria, microorganisms and endotoxins. The system uses Hot water Sanitisation Reverse Osmosis (HSRO) and state of the art Ultra Filtration (UF) membrane technologies to provide best results. It is available in 2 models 400 LPH and 1000 LPH using HSRO & HSUF technology.

UV system is used in this system for permanent inactivation of micro-organisms. UV-irradiation can be used for sufficient and reliable disinfection processes in drinking water.



FEATURES OF AKD

1. Service is Completely Auto
2. CIP And HWS is a semi auto operation
3. Plug In & Plug Out
4. Compact & portable, Skid Mounted Modular Construction requires minimum space and easy access for maintenance.
5. SS304 Skid Mounted System
6. Control & Fault critical parameters with safety interlocks
7. Uninterrupted purified water supply
8. Sanitary design of all Equipments & Components is used for maximum strength, reliability, and longevity with reduced operational and maintenance cost.
9. No Dead Lag Design
10. RO & UF Membranes are Hot water sanitization.
11. For High Purity of Water UV has been used.

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Technical Data

Model	AKD-400	AKD-1000
Type	FULLY AUTO	FULLY AUTO
Average product flow(LPH)	400	1000
Average Recovery(%)	30	35
Maximum Permissible TDS feed (PPM)		
Average TDS Removable (%)	Between 90-95	Between 90-95
Minimum feed pressure required at pump inlet(kg/cm ²)	Not less than 1.0	Not less than 1.0
Cartridge Housing	SS316	SS316
Cartridge	1R-20"-PP	1R-20"-PP
RO SYSTEM		
Membrane	4"-HSRO -4040-FF	4"-HSRO -4040-FF
Number of membrane	2	5
Pressure Tube	SS316L- 1 Element Long	SS316L -One Element Long
Skid	SS304	SS304
UF SYSTEM		
Membrane	NADIR	NADIR
Membrane Qty	1	1
Membrane Type	6000 MWCO	6000 MWCO
UV SYSTEM		
Model	API20	API20
MOC	SS316	SS316
End connection	Tri-clamp	Tri-clamp
HIGH PRESSURE PUMP		
Capacity and Head	1.97m ³ /hr @ 11.13bar	5.14 m ³ /hr 11.20 bar
MOC	SS316	SS316
Quantity	1Nos	1Nos
MULTI PURPOSE TANK		
	75 Lts-SS316	100Lts-SS316
AUTOMATION		
PLC	Non redundant PLC with 7" HMI -(AB make)	
SYSTEM DIMENSIONS		
LENGTH (mm)	2000	2100
WIDTH (mm)	800	800
HEIGHT (mm)	1740	1740

To the best of our knowledge the information contained in this publication is accurate. Ion Exchange (India) Ltd. maintains a policy of continuous development and reserves the right to amend the information given herein without