



INDION[®] AKD-WP

Reliable Source of
High Purity
Dialysis Water



INDION[®] AKD-WP

Efficient
Hygienic
Safe

High Purity Water System for Artificial Kidney Dialysis Unit

Water - An integral part of the dialysis facility is mixed with dialysate concentrate in large quantities to form the dialysate. Traces of mineral contaminants and bacterial endotoxins in water can enter into the patient's blood causing nausea, vomiting, muscle weakness, severe headache, skin flushing and low or high blood pressure. Hence, water purity is vital for safe and effective medical treatment.

INDION AKD-WP – a new development from Ion Exchange with unique features to provide ultra pure water which meets AAMI standards (Association for the Advancement of Medical Instrumentation)

Process

The system treats water in stages:

- › Hot Water Sanitisation Reverse Osmosis (HSRO): The process produces water with minimal/low dissolved solids which is free from particulate, colloidal and organic matter. Hot water sanitisation is used for disinfecting water without use of chemicals.
- › UF Membrane Technology: Used for sterilisation of water that separates bacteria, micro-organisms and endotoxins.

Features

- › Touch screen panel for easy and quick operation.
- › Equipment and components are designed to provide maximum strength, reliability and durability with minimal operational and maintenance cost.
- › High rejection of TOC, bacteria and endotoxins.
- › PLC based system with HMI for minimum monitoring and ease of operation.
- › Skid mounted modular unit with complete sanitary design.
- › Minimum space requirement with easy access for maintenance.
- › HSRO membrane ensures high permeate quality and durability.
- › Hollow fiber UF membrane of polyethersulfone offers excellent chemical and heat resistance.
- › Minimum power consumption.
- › Semi-automatic sanitising system.



Technical Data

Model	AKD-WP - 400	AKD-WP -1000
Average Product Flow (LPH)	400	1000
Average Product Flow (GPM)	1.7	4.4
Average Recovery (%)	30	
Average TDS Removal (%)	Between 90 to 95	
Minimum Feed Pressure required at Pump Inlet (kg/cm ²)	Not Less than 1.0	
Type & Quantity of RO Membranes	HSRO - 2	HSRO - 5
MOC of wetted components	S 316L	
Type & Quantity of UF Membrane	6000 MWCO	
Connection Type		
Inlet, Product Outlet and Drain	1" Triclover	1 ¹ / ₂ " Triclover
Drive Motor (HP/RPM)	3.0/2900	
Power Supply	415 V, 50 Hz	
System Dimensions		
Length (mm)	800	1000
Width (mm)	1100	1600
Height (mm)	1800	2000

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 notice.

INDION is the registered trademark of Ion Exchange (India) Ltd.



Visit us at : www.ionindia.com