



RO Plant for Dialysis

Ultra-Pure Water Solutions for Hospitals and Clinics - Ensuring Patient Safety Through Advanced Water Treatment Technology



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Understanding why ultra-pure water is essential for safe dialysis treatment and patient outcomes.

02. Contaminant Risks

Specific water contaminants that pose serious health risks to dialysis patients and their impacts.

03. ROSP Solutions

Advanced features and technical specifications of our medical-grade dialysis RO plant systems.

04. Partnership Benefits

Why healthcare facilities choose ROSP V AQUA for reliable dialysis water treatment solutions.

Dialysis Water Quality Critical



Dialysis is a life-saving treatment for kidney failure patients. Since dialysate solution directly contacts patient blood, water purity becomes the most crucial factor for treatment success and patient safety.

Patient Water Exposure

Dialysis patients are exposed to massive volumes of water during treatment. Any impurities in water can directly enter the bloodstream, making medical-grade water purification absolutely essential for preventing complications, infections, and ensuring optimal treatment outcomes.

600L

Water exposure per patient weekly

99%

Contaminant removal rate
required

Why RO Water Essential

Contamination Risks

Ordinary water contains dangerous contaminants that pose serious health risks to dialysis patients. These impurities can cause immediate and long-term complications when they enter the bloodstream through dialysate solution.



Chemical Contaminants

Chlorine and chloramine cause hemolysis (red blood cell destruction). Calcium and magnesium lead to calcification and cardiovascular problems affecting patient health.



Biological Hazards

Heavy metals like lead, arsenic, aluminum cause neurological disorders. Microbial contaminants and endotoxins result in fever, infection, and sepsis complications.



ROSP V AQUA Advanced Features

99%

**Contaminant
Removal**

24/7

Continuous Operation

SS-316

Medical Grade Steel

AAMI

**Standards
Compliance**

Core Technology

Advanced multi-stage purification system ensuring medical-grade water quality for safe dialysis treatment.

- Double-stage RO system with 95-99% salt removal
- UF ultrafiltration eliminates bacteria and endotoxins
- UV disinfection provides final microbial protection

Smart Controls

Automated monitoring and control systems ensure consistent performance and regulatory compliance standards.

- PLC digital control panel with alarms
- Real-time TDS and conductivity monitoring systems
- Automatic operation with quality assurance features

Design Excellence

Compact, hygienic design using medical-grade materials for reliable long-term operation.

- Stainless steel construction ensures corrosion resistance
- Compact footprint ideal for hospital environments
- Medical-grade membranes for healthcare applications

Technical Specifications Overview

Comprehensive System Specifications

Our dialysis RO plants meet stringent international standards including AAMI, ISO, WHO guidelines with customizable capacity options for different healthcare facilities.

Specification	Standard Range	Performance Level	Compliance	Application
Capacity Range	250-1000 LPH	Customizable	Hospital Grade	Multi-chair Dialysis
TDS Reduction	95-99%	Medical Grade	AAMI Standards	Safe Patient Care
Membrane Type	Medical Grade	High Rejection	Healthcare Approved	Endotoxin Removal
Construction Material	SS-304/316	Corrosion Resistant	FDA Approved	Hygienic Design
Control System	PLC/SCADA	Fully Automatic	WHO Guidelines	Real-time Monitoring

Applications and Comprehensive Benefits

Wide Healthcare Applications

Our dialysis RO plants serve diverse medical facilities from multi-specialty hospitals to standalone clinics, ensuring safe water treatment for all dialysis patients.



Patient Safety

Ultra-pure water prevents infections, hemolysis, and complications. Ensures better treatment outcomes and reduces long-term health risks for patients.



Healthcare Facilities

Meets international standards and extends equipment life. Easy operation with minimal downtime ensures continuous patient care and operational efficiency.



Cost Effectiveness

Low operating costs with customizable capacity. Nationwide service support available with comprehensive AMC packages for peace of mind.

Why Choose ROSP V AQUA



Trusted Brand in India

Serving hospitals, clinics, and dialysis centers nationwide with ISO-certified manufacturing facility ensuring consistent high-quality production standards for medical applications.



Custom-Built Solutions Expert Team

Designed according to dialysis machine requirements with experienced engineers and healthcare water specialists providing tailored capacity options for every facility.



Comprehensive Support Services

24/7 technical support with dedicated AMC services ensuring uninterrupted operations, immediate assistance, and proactive maintenance for optimal system performance.

Pricing and Client Success Stories



Proven Client Success

- Delhi hospital: 40% reduction in machine breakdowns
- Chennai center: 20 simultaneous dialysis chairs operation
- Mumbai clinic: Expanded from 4 to 10 chairs

Competitive Pricing Structure

- 250-500 LPH Models: ₹1.5 - ₹3.5 Lakhs
- 500-1000 LPH Models: ₹3.5 - ₹6 Lakhs
- Custom pricing for higher capacities available



Contact ROSP V AQUA Today

Our Dedicated Service Excellence

Our dedicated service team ensures customer satisfaction with after-sales support across India. We offer comprehensive AMCs post-warranty for uninterrupted operations and peace of mind.

Delhi NCR Location

C-49/1, Ekta Vihar, Jaitpur,
Badarpur, New Delhi – 110044. We
are a Delhi/NCR based company
serving healthcare facilities
nationwide.

Direct Contact Numbers

Call Us: 9654482913,
9560654995. Immediate technical
support and consultation available
for all your dialysis RO plant
requirements and services.

Digital Communication Channels

Email: info@roservicepoint.com
Website: www.roservicepoint.com.
Connect with us online for detailed
information, quotes, and technical
support.