

Reverse Osmosis



Machinery

NephroCan is committed to providing a full treatment package suited to your patient's needs and requirements, regardless of facility and location. With this in mind, our specialized engineers have designed two Reverse Osmosis machines, NephroCRO and NephroPRO, for outpatient clinics, medical centers, and homecare.

Both machines use proven and reliable Reverse Osmosis (RO) technology to provide purified water for use during hemodialysis treatments.



SUSTAINABLE

Low electricity and water consumption.



PATIENT SAFETY

Measures critical parameters through risk assessment.



GLOBAL USABILITY

Compatible regardless of geographical location and/or water quality.

Key Operational Features



NephroCRO



NephroPRO

- User-friendly, colour touchscreen LCD control panel for clear display of operational functions.
- High-quality stainless steel parts.
- Parameter and alarm storage using flash USB memory for tracking and troubleshooting.
- Remote configuration and monitoring for optimal performance.
- Compliant with all safety test requirements, including electrical and electromagnetic standards.

Machine Types and Technical Specifications

Name:	NephroCRO	NephroPRO
Type:	CENTRAL RO MACHINE	PORTABLE RO MACHINE
Description:	With a sleek and transportable design, this modular RO machine is capable of increasing purified water capacity onsite. Ability to serve 8 to 32 dialysis machines simultaneously.	A stylish design, the NephroPRO is mobile and suitable for smaller centers, or hospital use within coronary care units (CCU) or intensive care units (ICU). Ability to serve 2 dialysis machines simultaneously.
Stainless Steel Material:	316L Grade	316L Grade
Raw Water Connection Size:	3/4"	3/8"
Working Phase(s)/Hz:	3 Phase/50Hz	Single Phase/50Hz
Working Voltage:	380 Volt AC	220 Volt AC
Capacity:	Feeds 8 to 32 dialysis machines.	Feeds up to 2 dialysis machines.
Inlet Temperature:	Max 45°C	Max 45°C
Max Inlet Conductivity:	5000 µ/cm	5000 µ/cm
Permeate Pressure:	Max 5 bar	Max 5 bar
Raw Water Pressure:	Min 1 bar	Min 1 bar
Electrical Protections:	Compliant with Electrical Safety Standards, and includes FI switch, grounding system, bimetal switch, and phase controllers.	Compliant with Electrical Safety Standard, and includes FI Switch, grounding system and bimetal switch.
Membrane:	DOW- 4040	DOW- 4611
Connection Port:	Remote Control-LAN and USB Drive for Recording data.	Remote Control-LAN and USB Drive for Recording data.
Interface:	Multilanguage with the ability to create different operator access levels.	Multilanguage with the ability to create different operator access levels.
Body Material:	ABS	ABS

NephroCRO's Unique Features

- Continuous monitoring of critical parameters based on risk assessment including conductivity, temperature, and pressure.
- Equipped with PLC, control board, functional conductivity & temperature measurement sensors, pressure transmitters, solenoids, and a high quality pump.
- Ability to monitor, plan, and control each purifying process through a user-friendly touchscreen.
- Designed with an automatic and programmable rinsing system.
- Online operating system which feeds water into dialysis water loop suitable for centres.
- Pipeline made with high quality, 316L passivated stainless steel.

NephroPRO's Unique Features

- Equipped with functional pre-treatment system for global use, regardless of location and water quality.
- Continuous monitoring of critical parameters based on risk assessment including conductivity, temperature, and pressure.
- Equipped with PLC, control board, functional conductivity & temperature measurement sensors, pressure transmitters, solenoids, and a high quality pump.
- Automatic cleaning mode for chemical disinfection.



NephroPRO

NephroCRO