

**NephroCan**



# RETHINKING HEMODIALYSIS

REVERSE OSMOSIS MACHINES



**2024**

[www.NephroCan.com](http://www.NephroCan.com)



NephroCan provides a fully integrated product and service offering for patients living with End Stage Renal Disease (ESRD), in accordance with medical device regulations and international standards. NephroCan equipment and consumables are made with high quality components, enabling healthcare providers to customize safe, effective, and efficient dialysis treatments for patients.

## CANADIAN LEADER IN HEMODIALYSIS



# Nephro PRO

NephroCan's Portable Reverse Osmosis machine (NephroPRO) is a functional portable pre-treatment water system for global use, regardless of location or water quality. Ideal for healthcare providers in dialysis centres or wards, including Intensive Care Units (ICU), Coronary Care Units (CCU) or Emergency Departments (ED).

NephroPRO can also be used for home hemodialysis treatments.



## Key Features:

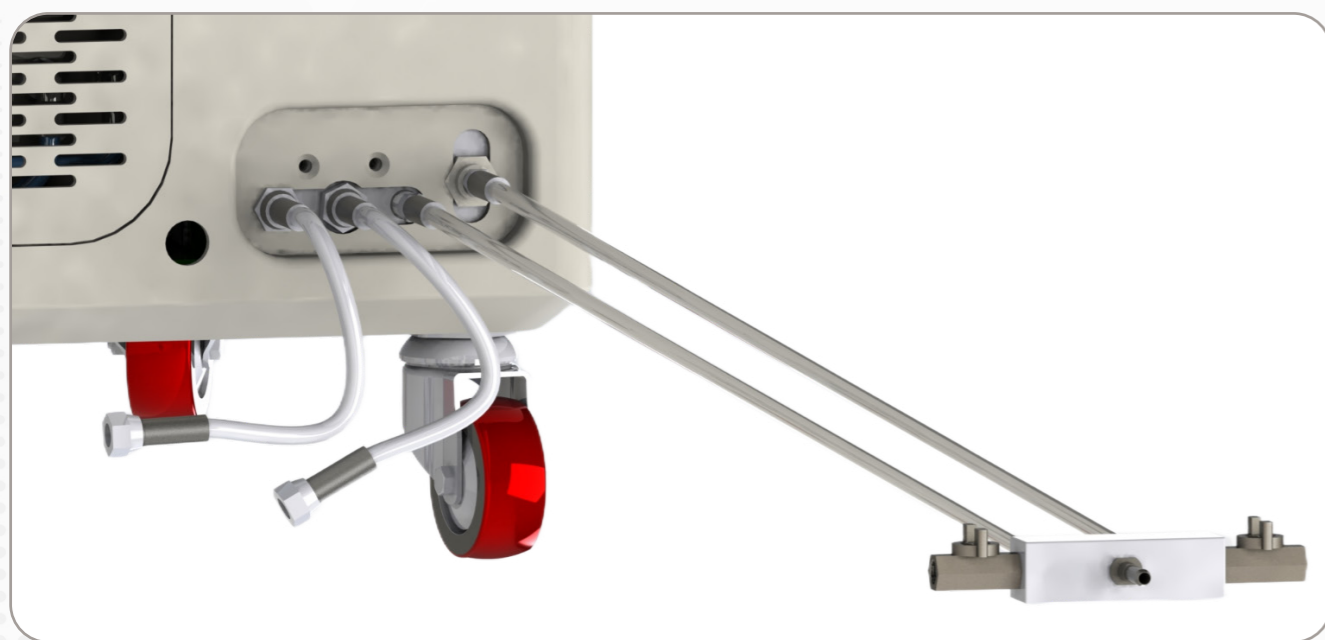
- ✦ Ability to supply two dialysis machines simultaneously, at a maximum capacity of 100 liters/hour
- ✦ Water production pressure adjustable according to required inlet pressure for a dialysis machine
- ✦ Production of purified water with less than 100  $\mu\text{S/cm}$  conductivity
- ✦ Smart control system with capability of adjusting main parameters for online operation
- ✦ Appropriate dimensions and low weight for transfer and use in all areas of the hospital
- ✦ Automatic cleaning menu for easy desalination and disinfection processes
- ✦ Ability to collect raw and purified water samples from accessible sampling valves prior to treatment
- ✦ Remote monitoring by NephroCan after sales team

# Nephro PRO




Option to compensate for low raw water quality by increasing the volume of the pretreatment system

Ability for disinfection at the nearest point of connection to the dialysis machine



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# REVERSE OSMOSIS MACHINES

PARAMETERS	Nephro  PRO
Type	Portable RO Machine
Description	With a stylish, compact design, NephroPRO is mobile and suitable for small centres or hospital use within coronary care units (CCU) or intensive care units (ICU)
Capacity	Ability to serve two dialysis machines simultaneously. 100 L/hr
Material	Stainless steel - 316L Grade
Raw Water Connection Size	3/8"
Electrical Phase / Frequency	Single-Phase / 50 Hz
Working Voltage	220 Volts AC
Capacity	Accommodates up to two dialysis machines
Inlet Temperature	Max 30°C
Max Inlet Conductivity	2000 µS/cm
Permeate Pressure	Max 7.5 bar
Raw Water Pressure	Min 1 bar
Electrical Protections	Compliant with electrical safety standards, and includes FI switch, grounding system, and bimetal switch
Recovery Rate	50%
Connection Port	Remote control-LAN and USB drive for data recording
Interface	Multi-language, with ability to create operator access levels
Body Material	ABS
Other	<ul style="list-style-type: none"> <li>» Equipped with functional pre-treatment system for global use, regardless of location or water quality</li> <li>» Continuous monitoring of critical parameters based on risk assessment, including conductivity, temperature, and pressure</li> <li>» Equipped with PLC, control board, functional conductivity and temperature measurement sensors, pressure transmitters, flow meter, solenoids, and a high quality pump</li> <li>» Automatic cleaning mode for chemical and heat disinfection</li> </ul>

# Nephro CRO

NephroCan's Central Reverse Osmosis machine (NephroCRO) is equipped to support operations of a full dialysis centre as a functional water treatment system for global use, regardless of location or water quality.



## Key Features:

- Machine parts designed with high quality stainless steel
- Ability to supply up to 32 dialysis machines
- Minimum capacity of 300 liters per hours. (700, 1000, and 1250 liters per hours if another module is added)
- Water production with the conductivity of less than 100  $\mu\text{S}/\text{cm}$  for single pass type and less than 2  $\mu\text{S}/\text{cm}$  for double-pass type
- Smart control system with the capability of adjusting main parameters for online operation
- Ability to collect raw and purified water samples from accessible sampling valves prior to treatment
- Adjustable purified water pressure through use of bypass valve

# REVERSE OSMOSIS MACHINES

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Product Name	Description	Permeate (L/H)
<b>NephroCRO- NCS1</b>	Single pass RO machine for hemodialysis application. This model has a membrane	300/350
<b>NephroCRO- NCS2</b>	Single pass RO machine for hemodialysis application. This model has two membranes	700/750
<b>NephroCRO- NCS3</b>	Single pass RO machine for hemodialysis application. This model has three membranes	1000/1050
<b>NephroCRO- NCS4</b>	Single pass RO machine for hemodialysis application. This model has four membranes	1200/1250
<b>NephroCRO- NDS1</b>	Double pass RO machine for hemodialysis application. This model has two membranes in the first pass and one membrane in second pass	300/350
<b>NephroCRO- NDS2</b>	Double pass RO machine for hemodialysis application. This model has four membranes in the first pass and two membranes in second pass	700/750

**Note:** NCSX: Number of single pass membranes. NDSY: Number of double pass membranes. Each membrane 300L/hr



PARAMETERS	Nephro CRO
<b>Type</b>	Central RO Machine
<b>Description</b>	With a sleek and transportable design, this modular RO machine is capable of increasing purified water capacity onsite
<b>Capacity</b>	Ability to serve up to 32 dialysis machines simultaneously. 300 L/hr to 1250 L/hr
<b>Material</b>	Stainless steel - 316L Grade
<b>Raw Water Connection Size</b>	3/4"
<b>Electrical Phase / Frequency</b>	Three-Phase / 50 Hz
<b>Working Voltage</b>	380 Volts AC
<b>Capacity</b>	Accommodates up to 32 dialysis machines
<b>Inlet Temperature</b>	Max 30°C
<b>Max Inlet Conductivity</b>	5000 µS/cm
<b>Permeate Pressure</b>	Max 7.5 bar
<b>Raw Water Pressure</b>	Min 1 bar
<b>Electrical Protections</b>	Compliant with electrical safety standards, and includes FI switch, grounding system, bimetal switch, and phase controllers
<b>Recovery Rate</b>	50 - 75%
<b>Connection Port</b>	Remote control-LAN and USB drive for data recording
<b>Interface</b>	Multi-language, with ability to create operator access levels
<b>Body Material</b>	ABS
<b>Other</b>	<ul style="list-style-type: none"> <li>» Continuous monitoring of critical parameters based on risk assessment, including conductivity, temperature and pressure</li> <li>» Programmable logic controllers, functional conductivity and temperature measurement sensors, pressure transmitters, flow meter, solenoids, and high quality pump</li> <li>» Ability to monitor, plan and control each purifying process through a user-friendly touchscreen</li> <li>» Designed with an automatic and programmable rinsing system</li> <li>» Online operating system which feeds water into dialysis water loop suitable for centres</li> <li>» Pipeline made with high quality pipeline, 316L passivated stainless steel</li> <li>» Chemical disinfection and auto rinsing program</li> <li>» Double pass available for ultrapure water</li> </ul>

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