

Nephro  CRO™

NephroCan

CENTRAL REVERSE OSMOSIS MACHINE



RETHINKING
HEMODIALYSIS



2025



CANADIAN LEADER IN HEMODIALYSIS



As a trusted Canadian provider, we are committed to delivering high-quality hemodialysis consumables, machinery, and equipment worldwide. Our goal is to ensure that our offerings are accessible and enhance patient care. We are dedicated to pioneering innovative therapies that revolutionize renal therapy, improving outcomes and enhancing the quality of life for patients globally.

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CENTRAL REVERSE OSMOSIS

NephroCan’s central reverse osmosis machine (NephroCRO™) is a high-capacity water treatment system designed to efficiently support the treatment process of any dialysis centre. Engineered for global application, the NephroCRO™ delivers consistent, high-quality water treatment regardless of geographical location or water conditions.

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

Note: NCS0: Number of single-pass membranes. NDS0: Number of double-pass membranes. Each membrane: 300L/Hr

NEPHROCRO CHARACTERISTICS



SPECIFICATIONS

Central Reverse Osmosis Machine Specifications				
Parameters		Description		
Type	Central RO Machine			
Description	With a mobile and modern design, this modular RO machine is capable of increasing purified water capacity onsite			
Capacity	Ability to serve up to 32 dialysis machines simultaneously. 300 L/hr to 1250 L/hr			
Material	Stainless steel - 316L Grade			
Raw Water Connection Size	3/4"			
Electrical Phase / Frequency	Three-Phase / 50 Hz			
Working Voltage	380 Volts AC			
Capacity	Accommodates up to 32 dialysis machines			
Inlet Temperature	Max 30°C			
Max Inlet Conductivity	5000 µS/cm			
Permeate Pressure	Max 7 bar			
Raw Water Pressure	Min 1 bar			
Electrical Protections	Compliant with electrical safety standards, and includes FI switch, grounding system, bimetal switch, and phase controllers			
Recovery Rate	50 - 75%			
Connection Port	Remote control-LAN and USB drive for data recording			
Interface	Multilingual, with ability to define operator access levels			
Body Material	ABS			
Other	» Continuous monitoring of critical parameters based on risk assessment, including conductivity, temperature and pressure » Programmable logic controllers, fully functional conductivity and temperature sensors, pressure transmitters, flow meter, solenoids, and 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 control system which feeds water into dialysis water loop suitable for centres » Pipeline made with high-quality, 316L passivated stainless steel » Chemical disinfection and auto-rinsing program » Double pass available for ultrapure water			
Dimensions	Length: 130cm	Width: 70cm	Height: 165cm	Weight: 140-180kg (depending on membrane)



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