

NephroCan



RETHINKING HEMODIALYSIS

HEMODIALYSIS MACHINE BROCHURE



2024

www.NephroCan.com



NephroCan provides a fully integrated product and service offering for patients living with End Stage Renal Disease (ESRD). Designed and produced 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



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Nephro HDM

Patients with ESRD often require renal replacement therapy (RRT). Hemodialysis is a type of RRT that filters blood and removes toxins and extra fluid. This is a treatment that patients may undergo 2 - 3 times a week for approximately 3 - 4 hours each time.

Patients deserve access to high quality treatment options, and NephroCan is proud to introduce NephroHDM™, our hemodialysis machine.

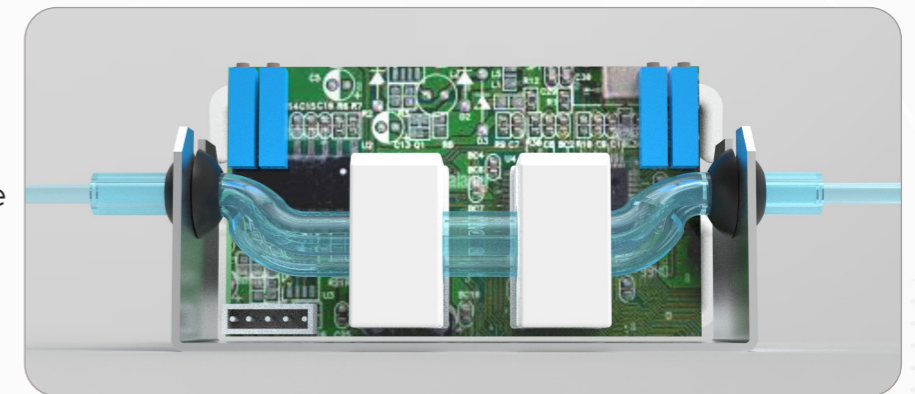
This machine performs hemodialysis for the treatment of ESRD and is designed with precision and flexibility, offering safe, effective and versatile options for patients.



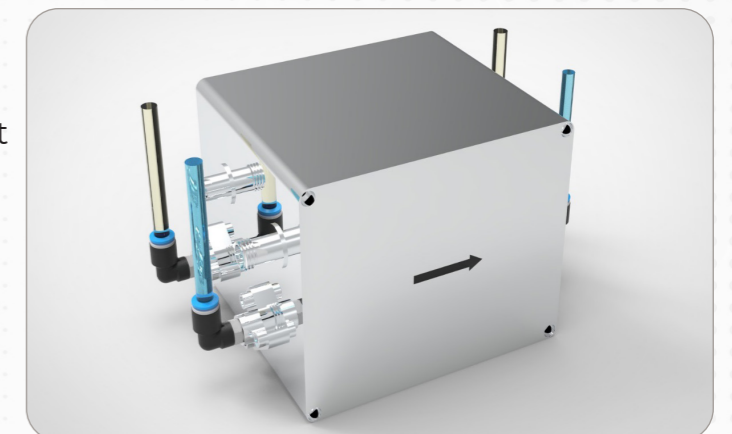
Key Features:

- ✦ 15-inch PCAP touchscreen interface to manage treatment parameter settings, blood pressure monitoring, and cloud communication. Created in consideration of extensive feedback from front-line hemodialysis healthcare providers
- ✦ Equipped with a user-friendly bloodline path and can support single, double, or triple blood pumps
- ✦ Servo System ensures smooth blood flow, allowing for precise anticoagulation injection during treatment

- ✦ Non-invasive concentrate measurement



- ✦ Ultrafilter control system with inline ultrasonic technology for measurement of the UF rate, reducing the risk of contamination and decreasing the required system volume [when compared to traditional volumetric systems]



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✦ Modular and advanced electronic control system, designed in functional sections to ease maintenance and make the most common replaceable parts readily accessible for technicians



✦ Optimized-compact-vertical hydraulic system which uses minimum volume of pipes and eliminates dead zones comparing with competing hemodialysis machines



HEMODIALYSIS MACHINE

FUNCTION	PARAMETER	SPECIFICATIONS
TREATMENT TYPE		HD Bicarbonate and acetate Single needle and double needle
Ultrafiltration	<i>Net Fluid Removal</i>	100 - 2000 mL/hr
	<i>Measurement Type</i>	On-line non-invasive flow metric measurement system
Dialysate	<i>Bicarbonate Concentration</i>	2.4 - 3.6 mS/cm
	<i>Sodium Concentrate</i>	13.5 - 15.5 mS/cm
	<i>Dialysate Temperature</i>	35 - 39 °C
	<i>Dialysate Time</i>	15 min - 10 hr
	<i>Dialysate Flow Rate</i>	300 - 700 ml/min
	<i>Bicarbonate Type</i>	Cartridge Container
	<i>Blood Flow Rate</i>	20 - 700 mL/min
Blood	<i>Blood Pump</i>	Brushless DC motor equipped with single fault safe driving unit
	<i>Blood Sensors</i>	Blood detection for safety during patient connection and disconnection
		Ultrasound air detector in the closest position to clamp with internal self-test and air bubble detector > 40 µl
Blood Pressure Sensor	<i>Position</i>	3 locations: venous, arterial, and dialyzer entrance
	<i>Range</i>	-350 to 450 mmHg
	<i>Error</i>	< 1 mmHg
Blood Sensor		Blood leakage detection with resolution of 0.35 mL/min
Anticoagulation	<i>Heparin Pump</i>	Configurable in software with different syringe types Step motor driving with accurate linear system
	<i>Syringe Size</i>	20 mL
	<i>Accuracy</i>	5%
	<i>Working Program</i>	Bolus and continuous dosing Programmable profile for dosing stop time
Disinfection		Hot rinse, chemical, hot chemical
Electrical System	<i>CPU and Protection System</i>	Embedded system
	<i>Interface</i>	Size: 15 inch
		Pixels: 1024x768
Other	<i>Customized Features</i>	<ul style="list-style-type: none"> » Auto shutdown after rinse » Reinfusion and priming » Real blood flow correction » Alarm system recording » Filter and cartridge emptying cycles » On-line real Uf measurement » Patient access card tracking system
		<ul style="list-style-type: none"> » Customized menu for troubleshooting » User-friendly » Profiling » Self testing » Kt/V measurement » Patient blood pressure monitoring » Cloud communication

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