Nephro HDM™

HEMODIALYSIS MACHINE

NephroCan

RETHINKING HEMODIALYSIS

2025

www.NephroCan.com

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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HEMODIALYSIS MACHINE

The NephroHDM™ is an advanced hemodialysis machine tailored for patients with end-stage renal disease (ESRD). This essential machine efficiently filters and purifies blood using a dual circuit system: one for drawing and returning blood and another for circulating a balanced electrolyte solution. It features robust monitoring systems to ensure patient safety by tracking vital parameters, such as blood flow and pressure, and customizable controls allow adjustments in fluid removal rates to optimize treatment efficacy and comfort.

Designed with user-friendly interfaces, responsive alarms, and precise sensors, the NephroHDM™ facilitates easy operation and immediate issue resolution, enhancing the quality of life for patients requiring reliable and versatile dialysis treatment.

NEPHROHDM CHARACTERISTICS

User-friendly with a 15-inch PCAP touchscreen interface, clear bloodline path, and easy mobility

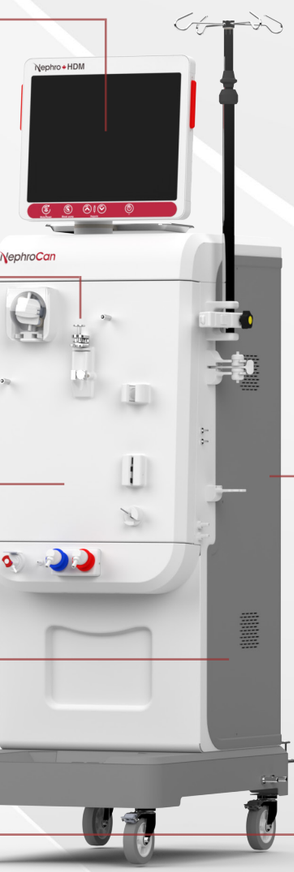
Servo System ensures smooth blood flow, allowing for precise anticoagulation injection during treatment

No requirement for frequent calibration, with optimum accuracy in measurements due to implementation of a non-invasive concentrate measurement system

One-of-a-kind inline ultrasonic technology for measurement of UF rate, reducing risk of contamination and decreasing the required system volume

Maintenance-friendly, modular and advanced electronic control systems, designed for functionality and ease of accessibility for maintenance

Vertical hydraulic system providing an optimal and compact machine, using minimum pipe volume and eliminating dead zones



Hemodialysis Machine Specifications		
Function	**Parameter**	**Specifications**
Treatment Type		» Conventional hemodialysis treatment » Bicarbonate and acetate » Single needle and double needle
Ultrafiltration	*Net Fluid Removal*	100 - 2000 mL/hr
	Measurement Type	On-line, non-invasive flow metric measurement system
Dialysate	*Bicarbonate Concentration*	2.4 - 3.6 mS/cm
	Sodium Concentrate	13.5 - 15.5 mS/cm
	Dialysate Temperature	35 - 38˚C
	Dialysate Time	15 min - 10 hr
	Dialysate Flow Rate	300 - 700 ml/min
	Bicarbonate Type	Cartridge container
Blood	*Blood Flow Rate*	20 - 700 mL/min
	Blood Pump	Brushless DC motor equipped with single fault safe driving unit
	Blood Sensors	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
		Venous chamber ultrasound level detector for air infusion prevention with level adjustment
Blood Pressure Sensor	*Position*	3 locations: venous, arterial, and dialyzer entrance
	Range	-350 to 450 mmHg
	Accuracy	< 1 mmHg
Blood Sensor		Blood leakage detection with resolution of 0.35 mL/min
Anticoagulation	*Heparin Pump*	Configurable in software with different syringe types Step motor driving with accurate linear system
	Syringe Size	20 mL
	Accuracy	< 5%
	Working Program	Bolus and continuous dosing Programmable profile for dosing stop time
Disinfection		Hot rinse, chemical, hot chemical
Electrical System	*CPU and Protection System*	Embedded system
	Interface	Size: 15 inch
		Pixels: 1024x768
		Touch screen: PCAP
Other	*Features*	» 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 » Customized menu for troubleshooting » User-friendly » Profiling » Self testing » Kt/V measurement » Patient blood pressure monitoring » Cloud communication

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