

Nephro HDM™

NephroCan

HEMODIALYSIS MACHINE



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 that 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

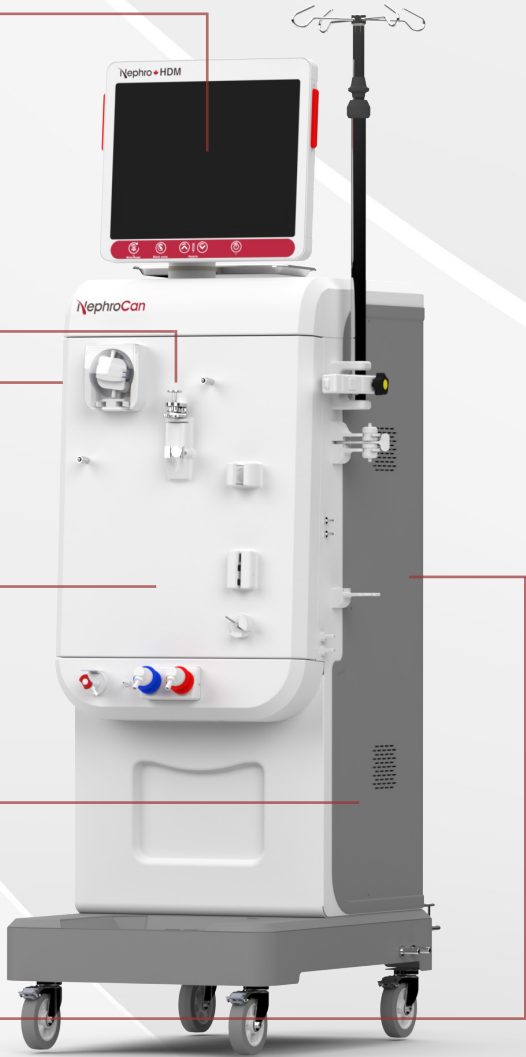
Servo System ensures smooth blood flow, allowing for precise anticoagulation injection during treatment

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

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



The image shows the NephroHDM machine, a tall, white, modular hemodialysis machine on wheels. It has a large 15-inch touchscreen at the top. Red lines connect various callout boxes to specific parts of the machine: the top screen, the main body, the lower section, and the base.

| 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 | Inline, 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 Flow Rate | 20 - 700 mL/min | | |
| Blood | 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 | | |
| | Error | < 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 | | |
| Other | Features | Touch screen: PCAP | | |
| | | » Auto shutdown after rinse » Reinfusion and priming » Real blood flow correction » Alarm system recording » Filter and cartridge emptying cycles » Online 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 | | |
| Dimensions | Length: 75cm | Width: 60cm | Height: 166cm | Weight: 95kg |



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