

2026

Nephro HDF™



 **NephroCan**
www.NephroCan.com

HEMODIAFILTRATION MACHINE

CANADIAN LEADER IN HEMODIALYSIS

Canadian company
headquartered in
Vancouver, BC



In-house design,
technology and
manufacturing

Specialists in
hemodialysis
therapy products



Multiple
manufacturing sites

Fully integrated
product and service
company



Certified for CE and
ISO standards

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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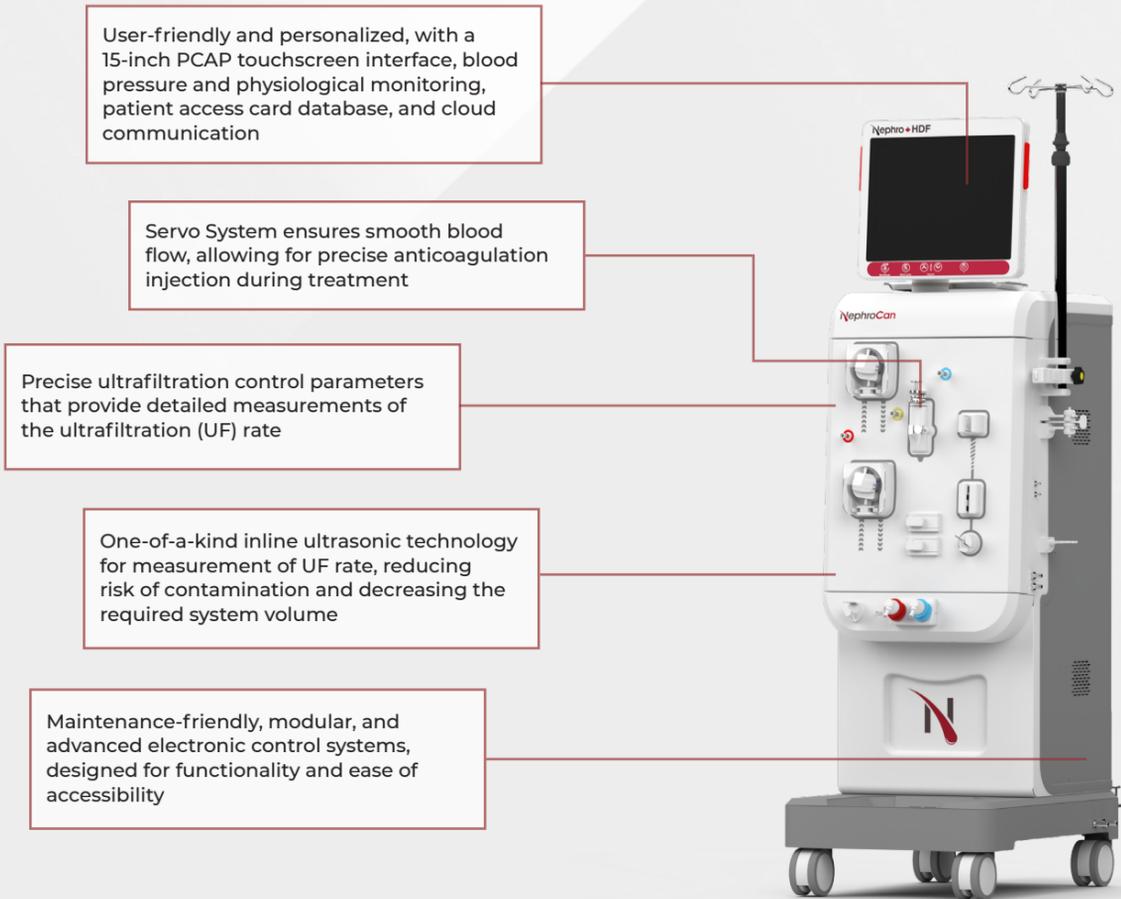
HEMODIAFILTRATION MACHINE

The NephroHDF™ is an innovative hemodiafiltration machine that enhances toxin removal for patients with kidney failure, using advanced diffusive and convective solute transport technologies. It features a high-flux membrane capable of filtering larger molecules, ensuring comprehensive blood purification.

This machine offers dual or triple pump configurations for both pre- and post-dilution treatments and includes automated priming and flushing with online dialysate substitution. The sophisticated monitoring systems and sensors dynamically regulate blood flow, pressure, and composition, enhancing patient safety and comfort.

With programmable interfaces, the NephroHDF™ enables customized treatments, improving efficiency and reducing side effects such as low blood pressure and muscle cramps. Additionally, its eco-conscious design decreases saline consumption, acid intake, and energy use, making it an eco-friendly option for dialysis centres.

NEPHROHDF CHARACTERISTICS



Hemodiafiltration Machine Specifications				
Device Element	Performance Task	Specifications		
Treatment Types		HD, pre- and post-dilution		
Eco-conscious priming		Automatic priming with reduced saline consumption options		
Endotoxin Filter		Two inline filters		
Ultrafiltration System	Net fluid removal	100mL/Hr - 2000mL/Hr		Error <100mL/hr
	Measurement type	Inline, non-invasive flow-metric measurement system		
Dialysate Section	Bicarbonate concentration (non-invasive sensors)	2.4mS/cm - 3.6mS/cm		Error <10%
	Sodium concentrate (non-invasive sensors)	13.5mS/cm - 15.5mS/cm		Error <5%
	Dialysate temperature	34°C - 39°C		Error <0.5°C
	Dialysate time	15min - 10hr		No error
	Dialysate flow rate	300mL/min - 700mL/min		Error <2%
	Bicarbonate type	Cartridge container		
Hematic Section	Blood flow rate	20mL/min - 700mL/min		Error <10%
	Blood pump	2 or 3 pumps		
	Blood sensors	Blood detection for optimal patient safety during connection and disconnection of the patient		
		Ultrasound air detector closest position to clamp with internal self-test and detection of air bubbles >40µl		
Blood Pressure Sensor	Range	-450mmHg to 450mmHg		
	Accuracy	<1mmHg		
Blood Sensor		Blood leakage detection with the resolution of 0.35mL/min in highest dialysate flow		
Anticoagulation	Heparin pump	Step motor driving with accurate linear system		Configurable in software with different syringe type and sizes
		Syringe size		10mL & 20mL
		Error		<5%
		Working program		Bolus or continuous dosing Programmable stop time Dosing profile
Disinfection		Hot rinse, chemical, hot chemical		
Electrical System	CPU and protection system	Embedded system		
	Interface	Size	15 inch	
		Pixels	1024×768	
		Touch screen	PCAP	
	Other programs	Total conductivity profiling		
UF profiling				
Customized menu for troubleshooting				
Kt/V measurement				
	Patient blood pressure monitoring			
Options		Online real UF measurement Patient card tracking system Blood volume management Cloud communication		
Dimensions	Length: 75cm	Width: 60cm	Height: 166cm	Weight: 95kg



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