

Nephro HDF™

NephroCan

HEMODIAFILTRATION MACHINE



RETHINKING HEMODIALYSIS



2025

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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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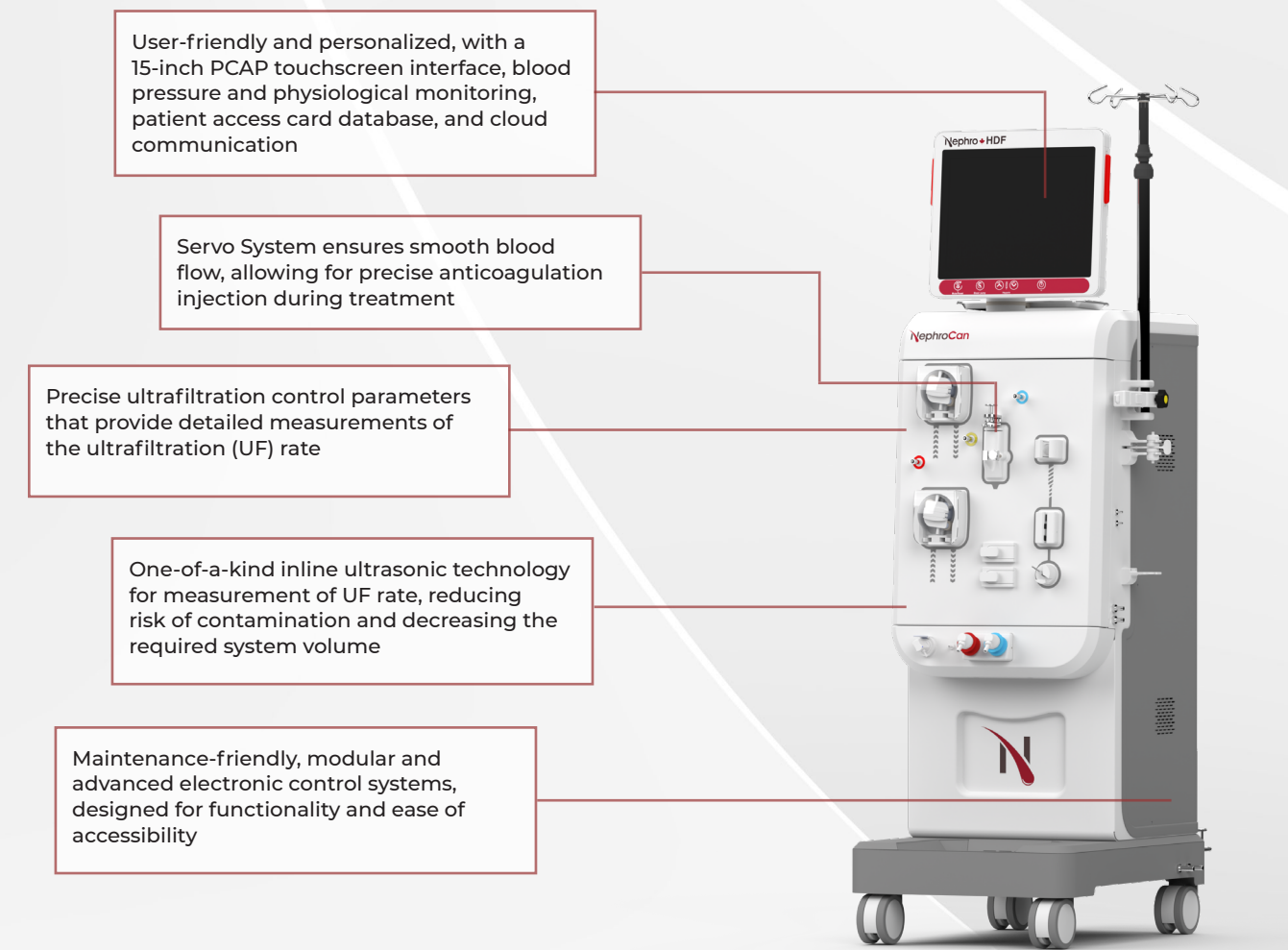
HEMODIAFILTRATION MACHINE

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™ allows for customized treatments, boosting 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	100 mL/Hr - 2000 mL/Hr		Error less than 100 mL/Hr
	Measurement type	Inline non-invasive flow metric measurement system		
Dialysate Section	Bicarbonate concentration (non-invasive sensors)	2.4 mS/cm - 3.6 mS/cm		Error less than 10%
	Sodium concentrate (non-invasive sensors)	13.5 mS/cm - 15.5 mS/cm		Error less than 5%
	Dialysate temperature	34°C - 39°C		Error less than 0.5°C
	Dialysate time	15 min - 10 hr		No error
	Dialysate flow rate	300 mL/min - 700 mL/min		Error less than 2%
	Bicarbonate type	Cartridge container		
Hematic Section	Blood flow rate	20 mL/min - 700 mL/min		Error less than 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 > 40 µl		
		Venous chamber ultrasound level detector for air infusion prevention with level adjustment possibility		
Blood Pressure Sensor	Range	-450 mmHg to 450 mmHg		
	Accuracy	< 1 mmHg		
Blood Sensor	Blood leakage detection with the resolution of 0.35 mL/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			10 mL & 20 mL
	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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