# Nephro + HDF<sup>™</sup>

HEMODIAFILTRATION MACHINE

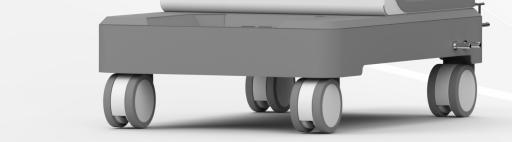
NephroCan



# RETHINKING HEMODIALYSIS



2025





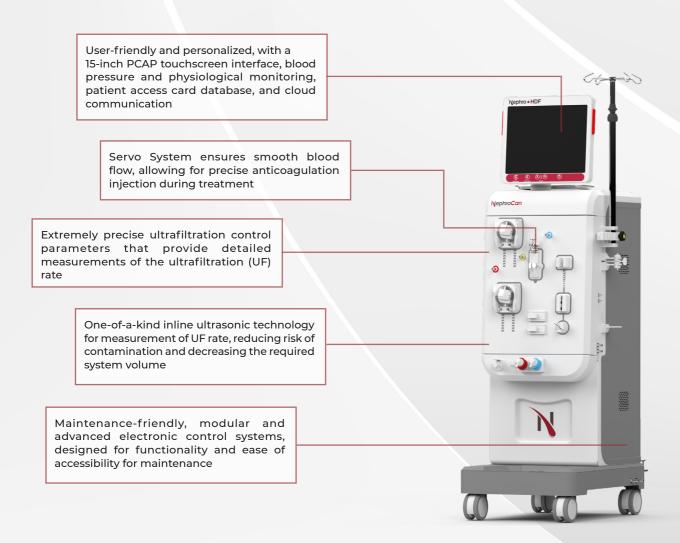
# **HEMODIAFILTRATION MACHINE**

The NephroHDF™ is a innovative hemodiafiltration machine that significantly 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 overlooked by traditional hemodialysis, 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 a sustainable option for dialysis centers.

## NEPHROHDF CHARACTERISTICS



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Hemodiafiltration Machine Specifications				
Device Element	Performance Task	Specifications		
Treatment Types		HD, pre and post dilution		
Eco-conscious priming	Automatic priming with saline saving 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	Online noninvasive 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	Cartrid	ge 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 highest 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		
	Error	<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	
		Total cond	uctivity profiling	
	Other programs	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			



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