

Corporate Headquarter

SHANDONG WEIGAO BLOOD PURIFICATION PRODUCTS CO., LTD.

International Business Headquarter

WEGO HEALTHCARE (SHENZHEN) CO., LTD.

19F, Building 3, Sunmax Technology Plaza, No.8 Keyuan Road,
Nanshan District, Shenzhen, China

Tel: +86 755 33892500 Fax: +86 755 33892508

E-mail: info@wego-healthcare.com

www.wego-healthcare.com/en



Dialysis System
MIX Maestro

A Pioneer in Domestic Hemofiltration Technology

MIX Maestro



2024 French Design Award

Co-developed with Institute of Automation
Chinese Academy of Sciences and Germany's
D.med company.

*D.med participates the development and provides consultation service of
FMC 5008 and FMC 6008 series and Nipro Surdial X series machines.





Guided by the philosophy of "Quality Illuminates Life," the MIX series has been meticulously developed over a decade to meet the clinical needs of China. Co-developed by the Institute of Automation of the Chinese Academy of Sciences and Germany's D.med Company, the series was honored with the 2024 French Design Award.

Renowned for its exceptional quality and continuous innovation, this machine is dedicated to improving patient well-being. The MIX Maestro Hemodialysis and Hemofiltration Device combines ease of operation with powerful functionality. Its dynamic substitution fluid adjustment system significantly enhances toxin clearance, delivering tangible benefits to patients.

Dynamic Substitution Fluid Adjustment System

The system intelligently calculates and adjusts the substitution fluid volume and rate based on the patient's individual condition. It reduces the rate of TMP elevation, increases the infusion volume of substitution fluid, and enhances toxin clearance efficiency.

ADAS Automated Dialysis Assistance System

Automatically performs online priming, blood drawing, blood return, and fluid discharge functions, significantly reducing the clinical workload.

Multi-Touch Technology

Optimizes user interaction, simplifies screen operations, and minimizes scene switching.

Dual Arterial Pressure Monitoring

Monitors arterial pressure before and after the blood pump to accurately calculate effective blood flow rate.

Multiple Treatment Profiles

Equipped with various built-in treatment profiles and supports customized modes to meet personalized therapy needs.

Comprehensive and Practical Modular Units

Includes functionalities such as a centralized fluid supply interface, dry powder cartridge holder, priming and drainage ports, arterial and venous chamber level adjustment, and an emergency button.

Data Communication and Export

Supports data communication with dialysis management software and other devices, while allowing equipment data export to enhance the informatization of clinical departments.

Online Clearance Monitoring(Kt/V) (Optional)

Evaluates urea clearance in real time by monitoring changes in dialysate conductivity.

BPM Automatic Blood Pressure Monitoring (Optional)

Regularly measures blood pressure and heart rate during dialysis, providing objective data for healthcare professionals.

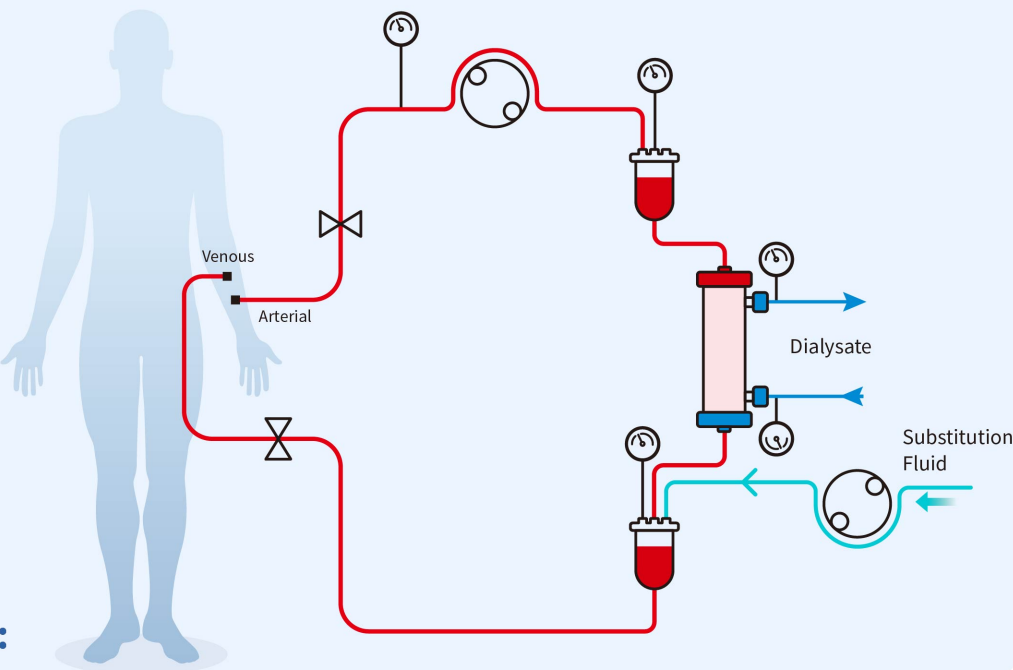
Online Blood Volume Monitoring(Optional)

Uses optical methods to monitor hematocrit, continuously calculates RBV, and automatically adjusts ultrafiltration rates to prevent hypotension.

Centralized Fluid Supply Interface(Optional)

Allows the dialysis machine to connect to the central concentrate delivery system.

STANDARD CONFIGURATION



Dynamic Substitution Fluid Adjustment System: Optimizing Treatment, Enhancing Outcomes

Since the 1970s, hemofiltration (HF) and hemodiafiltration (HDF) have been widely applied in clinical practice due to their stable hemodynamics and efficient toxin clearance capabilities, significantly improving patients' quality of life and prognosis. Among these, the post-dilution HDF method is considered an ideal choice as it achieves higher toxin removal efficiency with lower costs by using undiluted blood within the dialyzer. However, the post-dilution substitution method also carries the risk of filter clotting.

The Dynamic Substitution Fluid Adjustment System is designed to address this challenge. By intelligently generating the optimal substitution fluid volume based on individual patient conditions, the system provides precise and dynamic control of the substitution process. It continuously monitors four critical parameters—arterial pressure, venous pressure, and dialysate inlet and outlet pressures—to accurately track and regulate TMP (Transmembrane Pressure) fluctuations. The system automatically adjusts the substitution fluid infusion rate in post-dilution mode to stabilize or slow TMP elevation, effectively preventing filter clotting.

This innovative technology not only increases the substitution fluid volume in post-dilution mode, enhancing toxin clearance efficiency, but also ensures the safety and comfort of the treatment process. Patients benefit from more personalized, efficient, and safer dialysis treatments, achieving superior therapeutic outcomes.

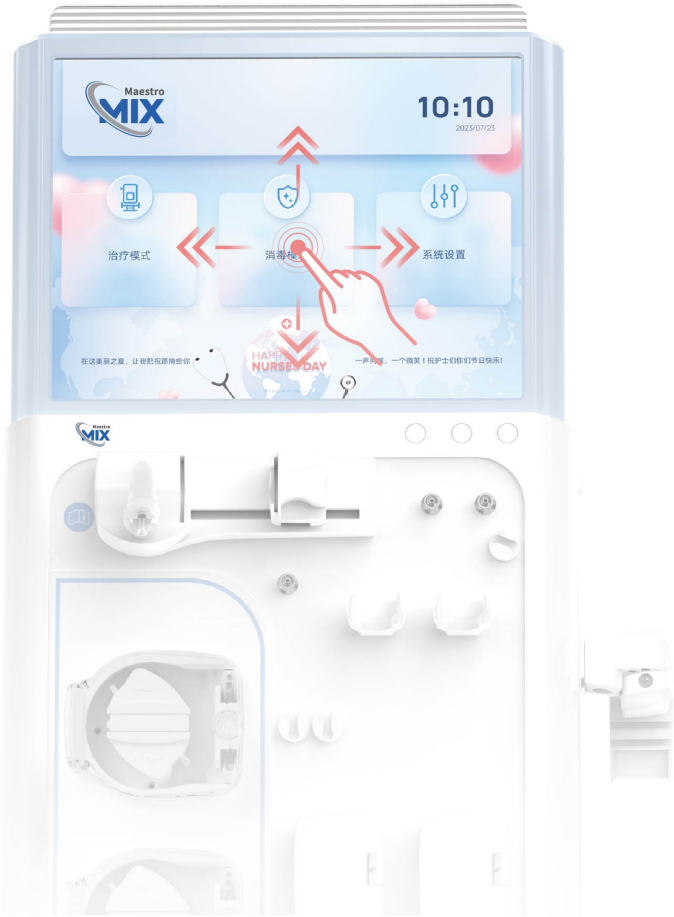
[1] AKIZAWA T, KOIWA F. Clinical expectation of online hemodiafiltration: a Japanese perspective. Blood Purif. 2015;40(Suppl 1):12-6.
[2] MOSTOVAYA I M, GROOTEMAN M P, BASILE C, et al. High convection volume in online post-dilution haemodiafiltration: relevance, safety and costs. Clin Kidney J. 2015;8(4):368-373.

Multi-Touch Technology

Redefining a More Comfortable Operating Experience

The MIX Maestro Hemodialysis Machine introduces large-scale multi-touch screens, redefining the user interface. It streamlines workflows, reduces cumbersome switching, and ensures every operation is smooth and intuitive.

- The interface is clean and intuitive, offering a visually refreshing and user-friendly experience.
- Equipped with a 15-inch large touch screen, the MIX Maestro clearly displays information, functions, and progress. Designed to follow clinical workflows, it simplifies complex procedures into intuitive steps, significantly improving operational efficiency.



STANDARD CONFIGURATION



Multiple Treatment Profiles

MIX series system features built-in treatment curves for ultrafiltration rate, bicarbonate concentration, sodium concentration, and dialysate temperature. It also supports customizable modes to meet the needs of personalized treatment.

Data Communication and Export

MIX series system supports data sharing and seamless integration with dialysis management software and other related devices. Equipped with various transmission interfaces such as Ethernet, USB, and IC card, the device supports data export.



1 Emergency Operation Button

In critical situations, a single press activates automatic fluid infusion, halts ultrafiltration, and reduces blood flow rate to ensure patient safety.

2 Dual Arterial Pressure Monitoring

MIX series system is equipped with a dual arterial pressure monitoring system for both pre-pump and post-pump pressures. Pre-pump pressure monitoring provides insights into the condition of the patient's vascular access, Post-pump pressure monitoring focuses on pressure changes during dialysis.

3 Priming Waste Fluid Discharge Port

MIX series system features a dedicated waste fluid discharge port, enabling the automatic disposal of waste fluid generated before Online HDF treatment. This reduces the workload of medical staff and minimizes the use of related consumables.

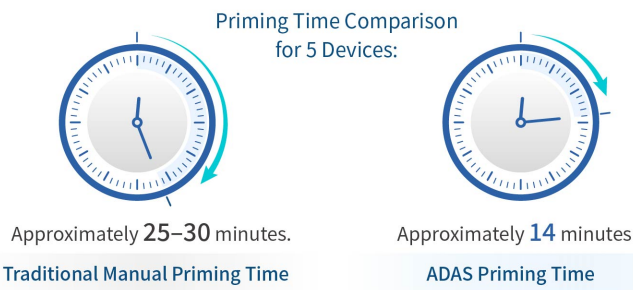
OPTIONAL CONFIGURATION

ADAS-Automated Dialysis Assistance System Empowers the MIX Maestro to simplify clinical operations.

The system integrates features such as substitution fluid outlets, waste management, monitoring devices, and venous clamps to achieve full automation of priming, blood drawing, blood return, and waste discharge. With one-touch operation, it minimizes manual steps, reduces the risk of errors and contamination, and significantly enhances clinical efficiency.

• **Automatic Online Priming**

After installing the dialyzer and extracorporeal circuit, the entire priming process is completed automatically with one-touch operation. It includes low-speed priming, high-speed priming, high-speed flushing, transmembrane priming, and high-speed circulation. Waste priming fluid is discharged automatically online, eliminating the need to install or handle saline and waste bags.



• **Automatic Bidirectional Blood Drawing**

After priming is completed, one-touch operation enables automatic bidirectional blood drawing. Arterial and venous blood are simultaneously directed to the dialyzer, stopping automatically when they meet in the middle of the dialyzer. No further action is required, and the system can automatically or manually transition into treatment mode.

• **Automatic Sealed Blood Return**

At the end of treatment, one-touch operation ensures the safe return of blood to the patient’s body. After monitoring and confirmation, the ADAS system automatically seals the tubing to prevent backflow.

• **Automatic Waste Fluid Discharge**

After blood return is completed, one-touch operation enables waste fluid discharge. Waste fluid is directly drained through the filter system without the need for additional containers.

OPTIONAL CONFIGURATION

1 Online Blood Volume Monitoring

The optional blood volume monitoring module uses optical technology to continuously monitor hematocrit and calculate relative blood volume in real time. This enables healthcare professionals to assess the patient's plasma refilling status, adjust ultrafiltration rates to prevent hypotension, and provide a reliable basis for dialysis treatment planning.

2 Bicarbonate Dry Powder Holder

The dry powder holder allows for greater flexibility in dialysis fluid supply modes. It enables the online preparation of B concentrate, effectively reducing bacterial contamination and improving the quality of the dialysate.

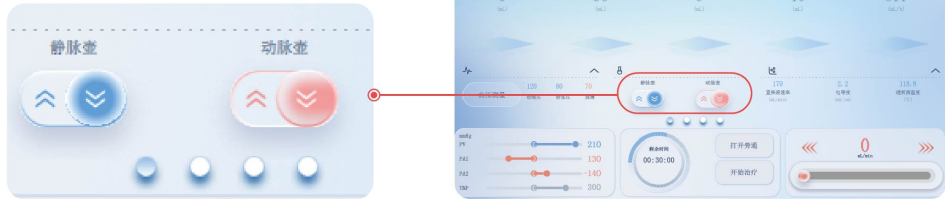
3 Centralized Fluid Supply Interface

The device is equipped with a dedicated centralized fluid supply interface, allowing direct connection to fluid pipelines without the need for modifications.



Arterial and Venous Chamber Level Adjustment

Healthcare professionals can easily adjust the fluid levels in the arterial and venous chambers via the device's touch screen.



Automatic Blood Pressure Monitoring

The BPM module supports automatic, scheduled measurement of blood pressure and heart rate during dialysis, enabling healthcare professionals to objectively monitor blood pressure status and provide crucial data for clinical decision-making.



Online Clearance Monitoring (Kt/V)

This module enables non-invasive real-time monitoring of urea clearance. By leveraging the correlation between urea and sodium ion clearance rates, it measures sodium ion clearance through changes in dialysate conductivity and converts it into urea clearance.

