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Dialysis System
MIX Ultimate

Innovatively Empowering Global Patients
to Achieve High-Volume HDF Therapy

MIX Ultimate



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 Ultimate 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)

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

BPM Automatic Blood Pressure Monitoring

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

Online Blood Volume Monitoring

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

Centralized Fluid Supply Interface(Optional)

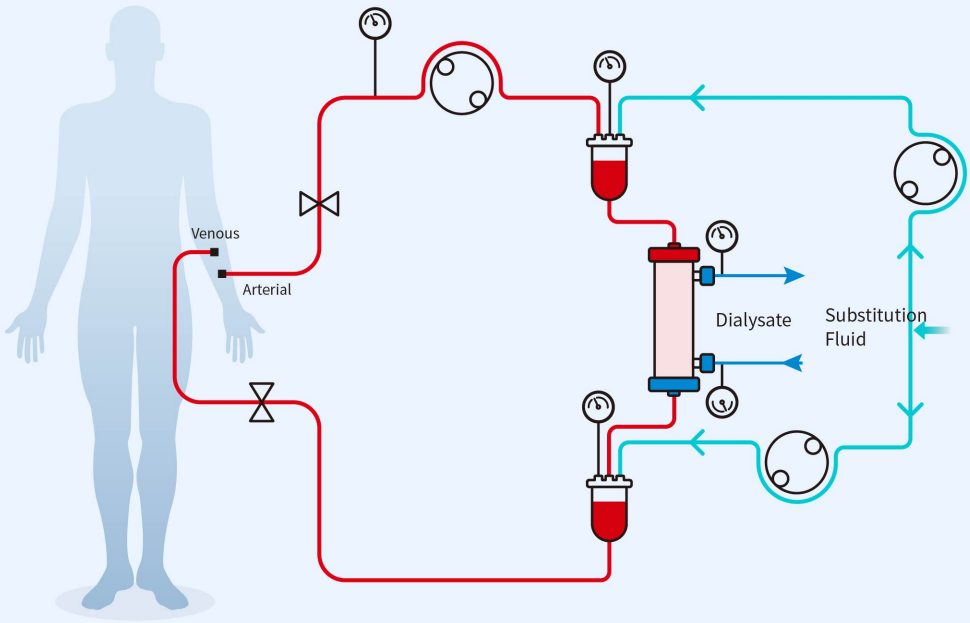
Allows the dialysis machine to connect to the central concentrate delivery system.

Dynamix-Dynamic Mixing Dilution Technology Accelerates the Adoption of High-Volume HDF.

The post-dilution mode is theoretically the most efficient in maximizing toxin clearance, as it maintains undiluted blood within the dialyzer [1]. The 2023 CONVINCe study, published in the *New England Journal of Medicine*, demonstrated that high-volume post-dilution HDF (convective volume $\geq 23L$) significantly reduces patient mortality, confirming its effectiveness in improving survival rates [2]. This finding has received high praise from the European Renal Association.

However, implementing high-volume HDF in China faces challenges, as Chinese HDF patients generally have inferior vascular access conditions and lower extracorporeal blood flow rates compared to European patients. The MIX Ultimate, equipped with Dynamix technology—the first dynamic mixing dilution patented technology for the Chinese market—addresses this gap.

Dynamix generates individualized mixed dilution infusion protocols based on patient-specific treatment data and dynamically adjusts pre- and post-dilution infusion rates in real time by precisely monitoring transmembrane pressure (TMP). This innovation effectively prevents filter blockages and clotting, enhances toxin clearance efficiency, and introduces an advanced HDF treatment model tailored to Chinese patients. By overcoming existing barriers, DynaMIX Ultimate motes the widespread adoption of high-volume HDF in China, providing improved treatment outcomes and broader accessibility.



Dynamix-Dynamic Mixing Dilution VS Traditional Treatment Mode

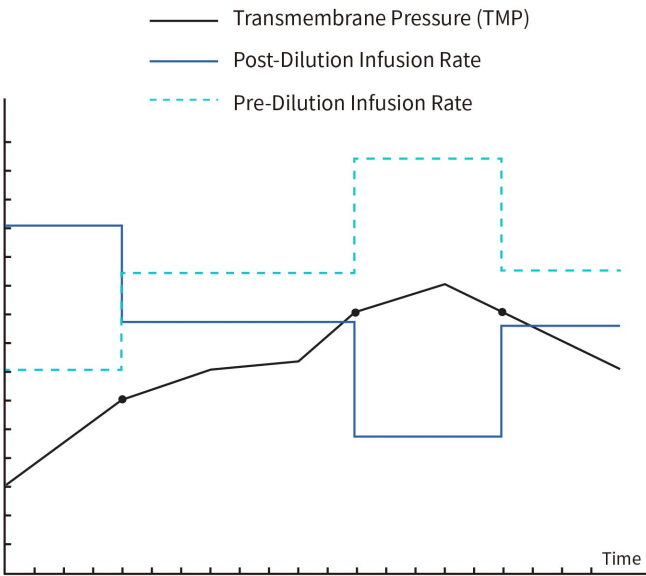


Illustration of Dynamic Pre- and Post-Mixed Dilution Adjustment

Dynamix-Dynamic Mixing Dilution utilizes a proprietary patented algorithm to achieve highly automated and intelligent treatment prescription setting and adjustment. This effectively assists clinical staff in formulating individualized high-volume HDF treatment plans for each session.

Compared to traditional pre-dilution methods, Dynamix replaces a significant portion of predilution infusion volume with post-dilution infusion while ensuring patient safety. This approach enhances overall toxin clearance efficiency.

When compared to traditional post-dilution methods, Dynamix maximizes post-dilution infusion volume while simultaneously achieving a greater total infusion volume. This not only ensures effective toxin removal but also effectively manages TMP alarms and reduces the risk of blood concentration.

[1] MOSTOVAYA I M, GROOTEMAN M P, BASILEC, et al.High convection volume in online post-dilution haemodiafiltration: relevance, safety and costs[J]. Clin Kidney J,2015,8(4):368-373.
[2] shroff R,Basile C, vander Sande F, et al.Haemodiafiltration for al: are we CONVINCed?[J].Nephrol Dial Transplant,2023,38(12):2663-2665.

ADAS-Automated Dialysis Assistance System Empowers the MIX Ultimate 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.

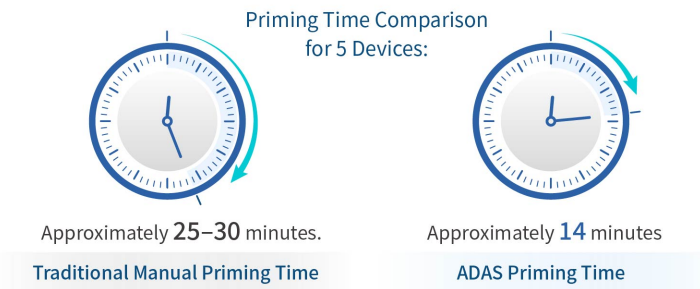
Multi-Touch Technology

Redefining a More Comfortable Operating Experience

The MIX Ultimate 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.

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.

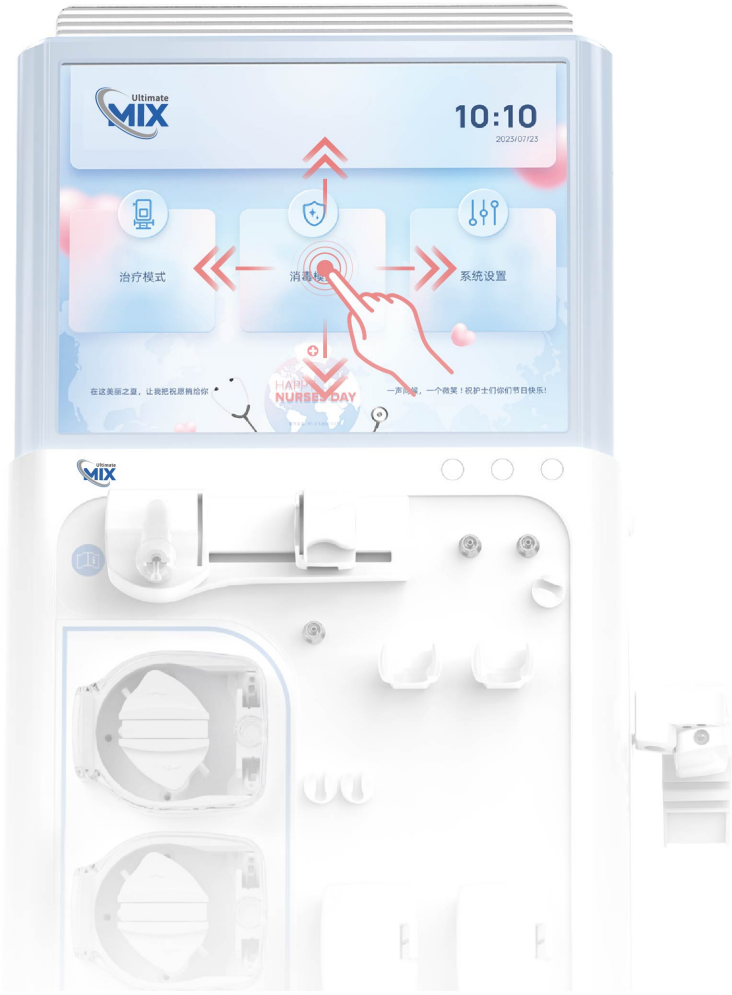
Automatic Sealed Blood Return

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.

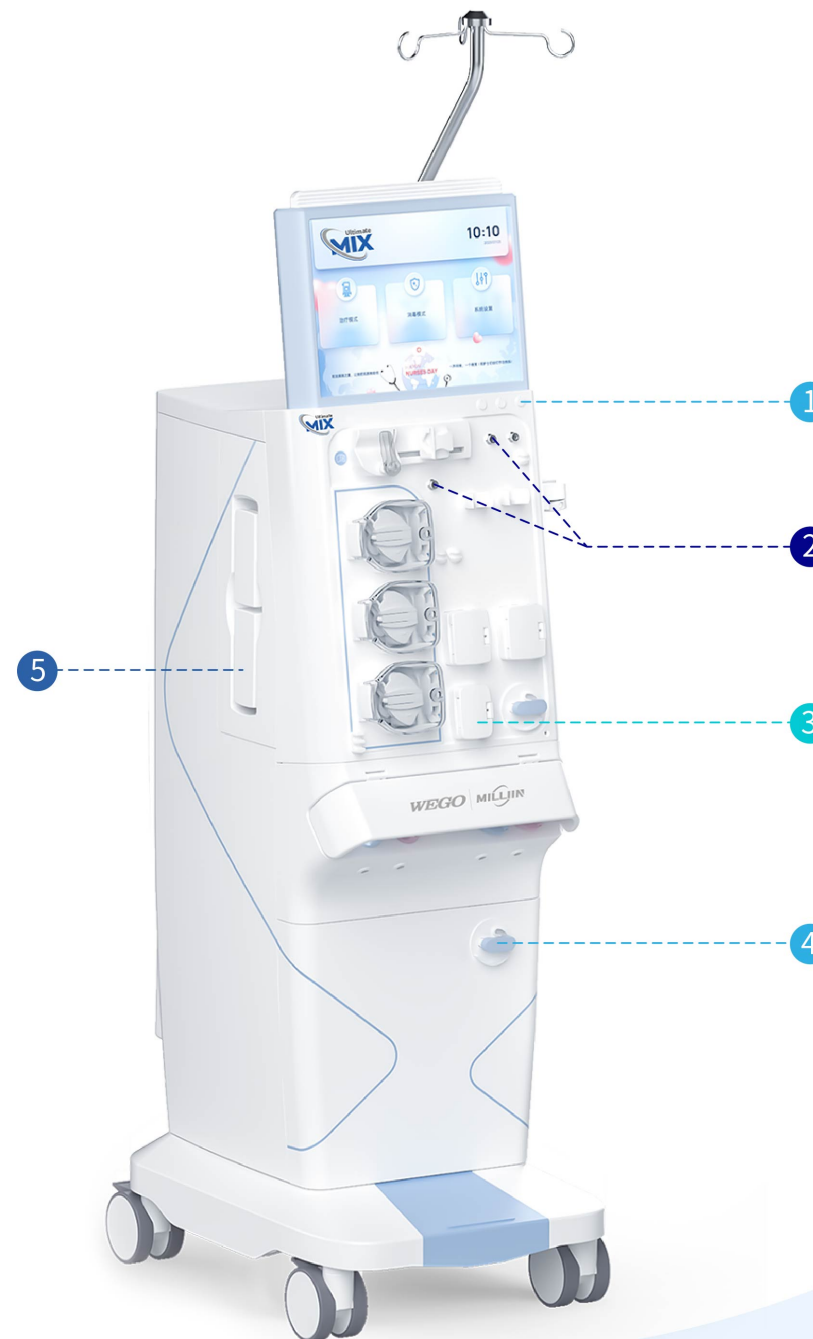
Automatic Waste Fluid Discharge

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.

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



STANDARD CONFIGURATION



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

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.

5

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.

4

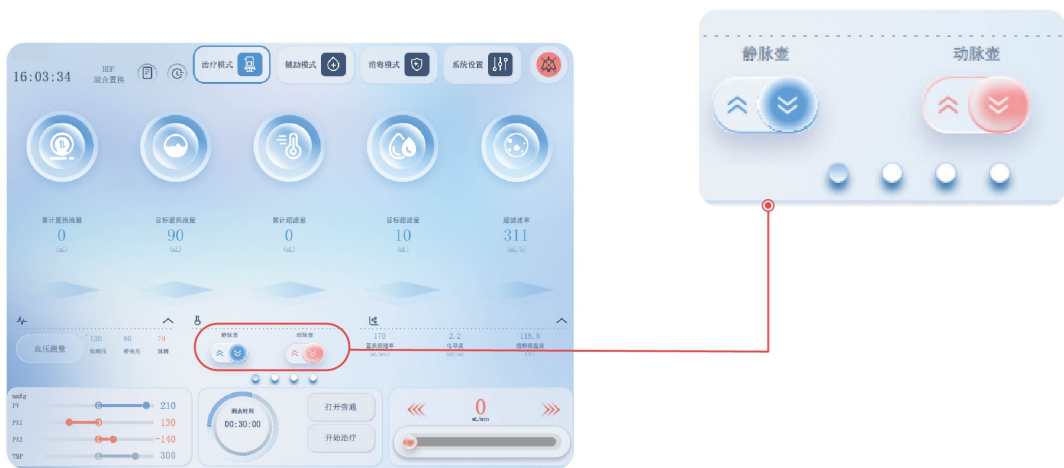
Priming Waste fluid Discharge Port

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.

STANDARD CONFIGURATION

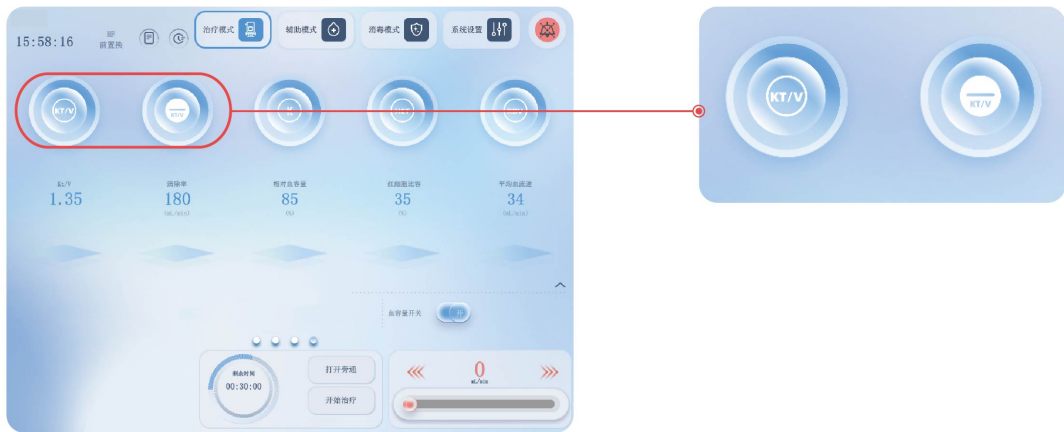
Arterial and Venous Chamber Level Adjustment

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



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.



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.



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



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.

