

# Asahi Dialysis System MDS-101



*Slim & smart*

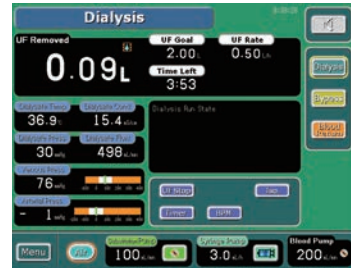
*High visibility and  
simplified procedures*

*Secured ultrafiltration  
system*

*Easy maintenance*

# Features of Asahi Dialysis System **MDS-101**

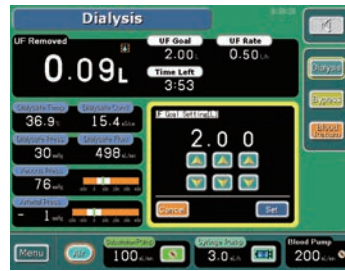
## Treatment



A 12 inch TFT touch panel display enhances easy operation and all fundamental procedures.

**Selection of the ultra-filtration setting Mode 1:**  
The UF rate is calculated automatically when the UF volume and treatment time are set.

**Mode 2:**  
The treatment time is calculated automatically when the UF volume and UF rate are set.



## Profile Function



Eight pre-set UF rates and sodium concentrations in the dialysate profile patterns are available as standard. A additional eight profile patterns can be customized. This function provides staff with simplified operation to select specific treatment parameters.

## Alarms & Notice



When an alarm occurs, an alarm window pops up on the screen showing the alarm number and description. At the same time, an audible alarm sounds and a status indicator illuminates.



*Slim & smart*

*High visibility and simplified procedures*

*Secured Ultra-filtration system*

*Easy maintenance*

Wide TFT color touch panel display

Backup battery

Syringe pump

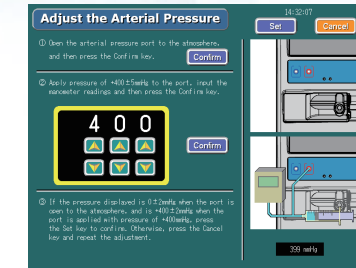
Powder bicarbonate cartridge (Option)

Blood pump

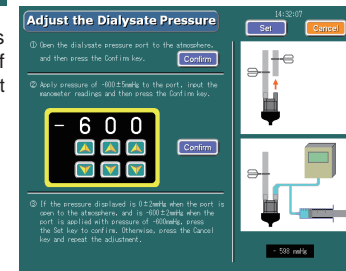
Hot rinsing (Option)

Closed loop circuit + UF pump

## System Adjusting



Text-based instructions and diagrams shown on the screen ensures ease of use for staffs when performing adjustment procedures.



## Event History



History data including operation, alarms and status changes are stored in the system and displayed in chronological order for review.

## Accessibility

Three panels -the front panel and both lateral panels- can be fully opened to aid staff by providing enhanced visibility and accessibility to interior parts for maintenance. The lateral panels are also removable.



# Asahi Dialysis System

## MDS-101

### ■ Technical data

Dimension and Weight	Dimension: 495W x 655D x 1636H (mm) (Excluding IV pole) Weight: Approximately 68kg (Without option), 80kg (With option)
Power supply	Single phase AC 100-120/220-240V (available voltage is described on the machine identification plate) Frequency : 50/60 Hz Electricity : 1.3 ~ 2.1 kVA with a protective ground (3P type). Blood Pump back-up battery
Water supply	Water pressure: 69 to 300 kPa Water flow rate: more than 1100 mL/min Water temperature: 5 to 30 °C Water type: Treated water (RO water)
Dialysate	Dialysate concentration: 130 to 159 mmol/L Bicarbonate concentration: 20 to 40 mmol/L Flow rate: 300 to 600 mL/min (~ 800mL/min: Option) Temperature: 34 to 40 °C
Ultrafiltration	System: Closed chamber system + Ultrafiltration pump UF rate: 0 to 5.00 L/h UF profile: 0 to 150 % Accuracy: ±30mL/h or ±1%, whichever is larger
Blood Pump	Flow rate: 0, 50 to 600 mL/min (ID8.5, OD12mm tube) 0, 30 to 360 mL/min (ID6.4, OD9.6mm tube) Accuracy: ±10mL/min or ±10%, whichever is larger
Syringe Pump	Syringe size: 10, 20 and 30 mL Flow rate: 0, 0.3 to 9.9 mL/h (0.1 mL step) with bolus function
Monitoring Systems (with alarm setting)	Venous Pressure: -100 to +400 mmHg Arterial Pressure: -200 to +400 mmHg (-400 to + 400 mmHg: Option) TMP: -100 to +500 mmHg Dialysate pressure: -500 to +400 mmHg Blood leak detector: Optical sensor, 300 ppm (Hct 32%) Air detector: Ultrasonic, 1µL and more at blood flow of 200mL/min
Rinsing/Disinfection	Rinsing: Water, hot water, acid alone or combined with them Disinfection: Chemical disinfection - Acid rinse: 30% acetic acid recommended - Disinfectant: 4 to 6% sodium hypochlorite recommended - Hot water: Heater outlet temperature setting range: 60 ~ 90°C
Options	Arterial line air detector Blood pressure manometer Dialysate filter systems High flow of dialysate (600 < Qd ≤ 800mL/min) Powder bicarbonate holder External output terminal

Specifications are subject to change without notice.

## AsahiKASEI

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