



Tailored to market needs and cost-reducing

Dialysis System

DBB-06





Well equipped Low costs

DBB-06 Dialysis System

Types of therapy

- Acetate dialysis
- Bicarbonate dialysis
- Single-needle single pump (click-clack)
- ISO-UF (sequential)
- UF, total and bicarbonate conductivity profiles

Standard features

- Single-needle single pump (click-clack)
- Dialyser inlet blood pressure monitoring
- Electric level adjustment in the extracorporeal chambers
- Serial data interface / connection for nurse call
- Integrated service mode for function analysis
- Clearly visible status display
- Concentrate-, water- and energy-saving mode
- Battery backup of extracorporeal circuit

Optional extras

- Haemo-Master (BV-UFC/COC) – Blood volume regulation with active regulation of the UF-rate and conductivity in the dialysis fluid
- Blood pressure monitor – continual measurement with a display of the readings trend in the monitor, automatic deactivation of the UF-rate when in the limit area
- Kt/V calculation
- Filter setting to purify the dialysis fluid
- CCS for two concentrate connections
- Holder for standard bicarbonate cartridges
- Network – integration of the dialysis system into the clinic network



DBB-06 Dialysis System

More than sixty percent of all dialysis treatments in Europe are carried out by using the standard hemodialysis method (low or high flux).

The new DBB-06 dialysis system covers this particular field, and thus completes the range of equipments tailored to market needs. The various features allow for a customised configuration. Therefore, you will only pay for what you really need.

The DBB-06, which is based on the proven and reliable technology of the DBB-05 Dialysis System, perfectly fits in the existing equipment pool.

Concerning the operation of the dialysis system, there are no differences between the DBB-06 and the DBB-05; furthermore, the touch screen monitor provides an easy-to-use and quick interface between user and dialysis system.



Easy to operate Special features

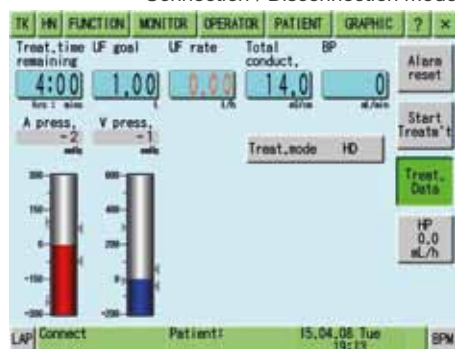
for staff and technicians

Customised screens

The screens of the DBB-06 can be configured individually. By setting the colour of the screen, the user is able to see even from a distance in which mode the dialysis system is currently operating.

The user interface and the disposables are identical to the ones of DBB-05 and DBB-07. Thus, the DBB-06 fits seamlessly into an existing equipment pool.

Connection / Disconnection mode



Treatment mode



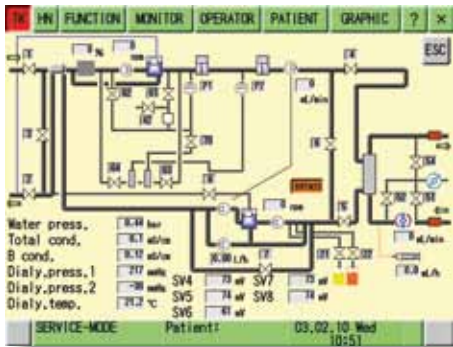
Rinse / Disinfection mode



Screen saver



Integrated service mode



Extraordinary service tools

Integrated service mode considerably facilitate the maintenance of the DBB-06.

Each part of the hydraulic group can be activated individually by touching the respective symbol on the screen. Thus, the diagnosis can be started without having to open the dialysis system, which saves time and reduces follow-up costs.

Well-arranged design

The front side is well organised, and projecting ends, angles and edges have been reduced to a minimum in order to facilitate the cleaning of the dialysis system and handling of blood tubing lines.

Disinfectable concentrate suction nozzles

The concentrate suction nozzle holder has been designed in such a way, that the suction nozzles are also cleaned during the disinfection process.

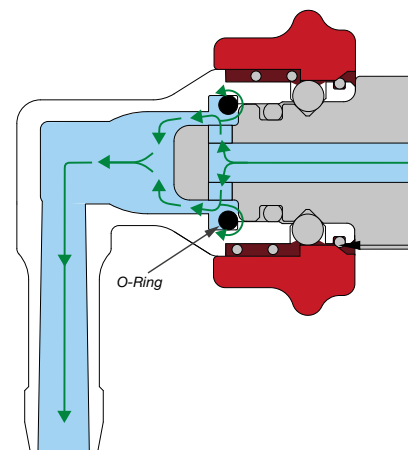
Coupler Cleaning

The special design of the dialyser coupler facilitates the cleaning and disinfection of the sealing part and keeps it hygienically clean.

Concentrate suction nozzles



Profile of Coupler Cleaning with O-Ring





As less as possible As much as necessary

Modularly extendable

Haemo-Master (BV-UFC/COC) - reduces complications

Complications during dialysis occur in approx. 30% of all treatments. About half of these complications are the result of hypotension. With the Haemo-Master option, the relative plasma volume is measured during treatment. On the basis of the measured values, the UF-rate and conductivity in the dialysis fluid is controlled. It is reported that hypotensive episodes can be reduced as a result of UF-rate and conductivity control.

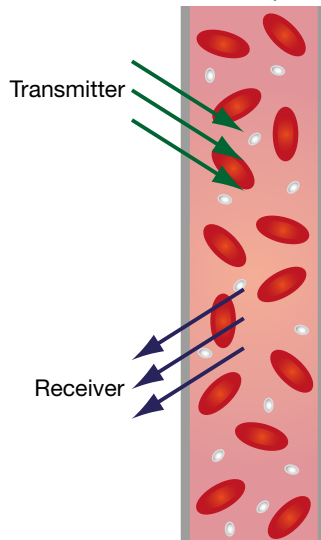
Blood pressure monitor

By request, continuous blood pressure monitoring can be carried out during treatment. The blood pressure is displayed on screen as a chronological graph and, as soon as the fixed limit value is exceeded, ultrafiltration will be stopped.

Measuring chamber on the dialysis system



Blood volume measurement principle



Blood pressure monitor





Technical information

General information

Dimensions	1.420 x 390 x 480 (HxWxD in mm) (without projecting ends)
Weight	approx. 75 kg standard system (approx. 85 kg with optional extras)
Power supply	220/230/240 V AC, $\pm 10\%$ 50/60 Hz, ± 1 Hz
Back-up battery	Ni-MH battery 24 V, 1.9 Ah
Water supply	Pressure : 1 to 7 bars at 0.8l/min Temperature: 5 - 30 °C
Water discharge	max. 0.8l/min Connection height: max. 50 cm
Concentrate	Central concentrate supply Inflow pressure 0 - 0.5 bars
External connections	Status display (External status monitor display) Alarm output (Staff call) Alarm input (for connection to an external device) Nurse call (for external pushbutton switch) Output (for external auxiliary equipment) RS-232 interface 1 (for Data transfer to a computer) RS-232 interface 2 (for Data transfer to check patient identity) Network (for connection to a computer network)

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Blood circuit

Arterial pressure	Measurement range: -300 to 300 mmHg Measurement accuracy: ± 10 mmHg
Venous pressure	Measurement range: -200 to 500 mmHg Measurement accuracy: ± 10 mmHg
Dialyser inlet blood pressure	Measurement range: -200 to 735 mmHg Measurement accuracy: ± 10 mmHg
Arterial blood pump	Setting range: 40-600 ml/min Flow rate accuracy: $\pm 10\%$
Heparin pump	Setting range: 0.0 - 9.9 ml/h Feed rate accuracy: $\pm 5\%$ Bolus amount: 0.1 - 9.9 ml Syringe type: 30/20/10 ml
Air detector	Method: ultrasonic waves Sensitivity: 0.02 ml (air bubble) Blood flow rate: 250 ml/min; 0.0003 ml (microfoam: blood/air mixture) Blood flow rate: 250 ml/min

Dialysis fluid monitor

Dialysis fluid	Setting range: 300 to 800 ml/min Temperature: 34.0 to 40.0 °C
Acetate dialysis	Setting range: 12.5 to 15.5 mS/cm
Bicarbonate dialysis	Setting range: 2.3 to 7.0 mS/cm
Ultra filtration	Setting range: 0.00; 0.10 to 4.00 l/h Accuracy: ± 30 mL/h (at dialysis fluid flow rate 300 to 500 mL/min) $\pm 0,1\%$ of the dialysis fluid flow rate (at dialysis fluid flow rate 501 to 800 mL/min)
Blood leak detector	Method: optical detector Sensitivity: 0.5 ml* blood/1l dialysis fluid (blood: haematocrit 20 %; dialysate temperature: 37 °C) 0.40 ml blood/min (max. flow-through: 800 ml/min)

Cleaning and disinfection

- Rinsing
- Sodium hypochlorite, acetic acid
- Heat cleaning > 85 °C
- Citro-thermal disinfection > 85 °C

Always close to you

Competent point of contact

For all questions concerning dialysis

Appointments, consultations, material orders, fixing dates for maintenance and servicing - the employees in our head office in Hamburg will be at your disposal for all questions. Do not hesitate to contact us:

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