

AK 95 S

– designed to fit any location

An attractive alternative

Its capacity and simplicity make the AK 95 S an attractive alternative for hemodialysis for the majority of patients, regardless of location. Nurses and patients alike will find it easy to use. Most operating functions can be automated or preset to facilitate secure handling.

Flexible, multilingual training material is provided for staff and patients to ensure safety and confidence of use. And to further guarantee confidence in its function, our technical service network supports customers in all locations, including in-center units, satellites and home installations.

To facilitate data collection and treatment monitoring between remote locations and the in-center unit, a modern data management tool is available. The system allows data to be easily transferred, stored and analyzed — wherever the treatment is performed.



AK 95 S Technical data

Quick preparation

Automatic self-test
Auto-priming
Pre-settable treatment parameters

Treatment simplicity

Pre-settable acetate/bicarbonate fluid composition
Direct setting of Na^+ and HCO_3^-
Access to all treatment parameters at all times, monitoring at glance
Designed for BiCart dialysis
Automatic switch from isolated UF to diffusion
Automatic calculation and display of non-diffusive time
Single Needle/Single Pump with low recirculation
Auto Rinse Back

Hygiene

Automatic disinfection
Pre-settable for different disinfectants
CleanCart disinfection
Heat disinfection
Disinfection history screen
Ultrafilter for pure dialysis fluid

Ease of use

One button-One function User Interface concept for easy handling
Easy calibration, pre-setting and logging
Computer interface

Options

Remote Operator's Panel
Blood Pressure Monitoring
Battery Back-up Kit (30 minutes min.)
Ultrafiltered Dialysis Fluid Kit
pH probe Kit

Blood flow control

Flow rate, double needle:
0 and 20 to 500 ml/min
Flow rate, single needle:
0 and 20 to 500 ml/min
Time or pressure-controlled

Blood pressure supervision

Arterial pressure: -700 to +750 mmHg
Venous pressure: -700 to +750 mmHg

Air detection

Method: Ultrasonic detector
Drip chamber size: 22 mm diameter

Heparin administration

Flow rate: 0 to 10 ml/h, programmable
stop time, accumulated volume
read-out

Water supply

Inlet pressure:
0.12 to 0.6 MPa (1.2 to 6 bar)
Inlet temperature: 5 to 30 °C
Quality: Fluid should comply with national & international standards, e.g. ANSI/AAMI

Dialysis fluid preparation and monitoring

Temperature:
Adjustable between 33 to 40 °C
Flow rate: 300-700 ml/min (by step of 20 ml/min)
Acetate range: Na^+ 130 to 160 mmol/l
Bicarbonate range: Na^+ 130 to 160 mmol/l, HCO_3^- 20 to 40 mmol/l
pH meter: Range 1.0 to 9.9
Profiling (Na^+ , HCO_3^- , UF)
Concentrate stand-by mode

Ultrafiltration control

UF volume: Adjustable, 0 to 10.00 l
Accuracy: ± 50 ml/h or $\pm 1\%$
UF rate: 0 to 4 l/h

Blood leakage detection

Method: Infrared light

Disinfection and cleaning

Automated disinfection process with Gambro water treatment systems
Chemical: Peracetic acid, hypochlorite or formaldehyde
Heat: Heat, liquid citric acid or CleanCart
Disinfection log file

Power supply

Mains voltage: 100, 110, 230V
Frequency: 50 to 60 Hz
Power consumption:
Max 2025 W at 230V

Connection of external equipment

Connector: 25 pin D-sub with RS232C or RS-422/current loop

Dimensions and weight

Width: Machine 480 mm, stand 580 mm
Depth: Machine 600 mm, stand 625 mm
Height: 1270 mm
Weight: 62-78 kg (depending on options)

Operating environment

Ambient temperature: 18 to 35 °C
Relative humidity: 15 to 85%
Air pressure: Up to approx. 2500 meters above sea level (70 to 106 kpa)

Safety

The AK 95 S complies with the following standards:
IEC 60601-1 General requirements for safety, Class 1, type B
IEC 60601-1-1 Safety requirements for medical electrical systems
IEC 60601-1-2 Electromagnetic compatibility
IEC 60601-2-16 Requirements for safety of hemodialysis equipment
IEC60601-2-30 Particular requirements for the safety of automatic cycling indirect blood pressure monitoring equipment

CE 0086 This product is CE-marked in accordance with the requirements in EC Council Directive 93/42/EEC of 14 June, 1993, concerning medical devices

Specifications subject to change without notice. For further information and operating instructions, please refer to the operators manual.