AK 95 S
Technical data
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**Quick preparation**
- Automatic self-test
- Auto-priming
- Pre-settable treatment parameters

**Treatment simplicity**
- Pre-settable acetate/bicarbonate fluid composition
- Direct setting of Na⁺ and HCO₃⁻
- Access to all treatment parameters at all times, monitoring at a glance
- Designed for BiCart dialysis

**Ultrafiltration control**
- Automatic switch from isolated UF to diffusion
- Automatic calculation and display of non-diffusive time
- Single Needle/Single Pump with low recirculation

**Hygiene**
- Automatic disinfection
- Pre-settable for different disinfectants
- CleanCart disinfection
- Heat disinfection, with or without CleanCart option
- Chemical disinfection memory
- 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, 500 or 700 ml/min
- Acetate range: Na⁺ 130 to 160 mmol/l
- Bicarbonate range: Na⁺ 130 to 160 mmol/l, HCO₃⁻ 20 to 40 mmol/l
- pH meter: Range 1.0 to 9.9
- Profiling (Na⁺, HCO₃⁻, UF)

**Ultrafiltration control**
- UF volume: Adjustable, 0 to 10.00 l
- Accuracy: ± 50 ml/h or ± 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

**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: 70 to 106 kPa (0.7 to 1.06 bar)

**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 60601-2-16 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 operator’s manual.