

Gambro



# ak98

**YOUR PATH TO TARGET**



# CREATING THE PATH TO INDIVIDUALIZED DIALYSIS DELIVERY

**THE GAMBRO AK 98 SYSTEM AIMS TO ENHANCE YOUR DIALYSIS TREATMENTS, IMPROVE PATIENT WELL-BEING AND MAY HELP YOU BALANCE YOUR CLINICAL TARGETS AND OPERATIONAL OBJECTIVES.**

The AK 98 system is capable of handling the various conditions of any renal unit allowing you to deliver a high quality of treatment in every treatment. This HD system helps patients and dialysis professionals stay on the path to target.



## TOUCH SCREEN

A new user-friendly touch-screen ensures that each and every session can be delivered easily and efficiently.



## DIASCAN

The DIASCAN function provides real-time monitoring of dialysis efficiency allowing you to reach your treatment targets.



## ALARMS

The external alarm indicator light allow you to always keep warnings in sight



## TIME BETWEEN TREATMENT

Improved preparation & disinfection process aims to decrease time between treatments

### CONSISTENTLY HIGH TREATMENT QUALITY

DIASCAN quality control tool	✓
Conductivity-based and flow-rate controlled concentrate dosing	✓
Disinfection log	✓
BICART cartridge holder	✓
Syringe pump	✓
U9000 Ultrafilter Option	✓
BPM Option	✓
Treatment history	✓
Alarm history	✓

### OPERATIONAL EFFICIENCY

Automatic self-test	✓
Stand-by mode	✓
Profiling modules	✓
Assisted priming	✓
Variable dialyrate fluid flow	✓
Automated heat disinfection processes	✓
Time between treatment 32 min incl citric heat	✓
Intuitive user-interface	✓

### EASE OF USE AND STAFF SATISFACTION

Single and double needle mode	✓
Auto rinse back	✓
Automatic switch from isolated UF to diffusion	✓
Decalcification and cleaning with CLEANART cartridges	✓
Pre-settable for different disinfectants	✓
Pre-configuration options (start-up values, limits, limitations)	✓
Battery back-up	✓
SOFTPAC concentrate	✓
Remote panel (optional)	✓
Pre-set disinfection start time (7 day pre-set cycle possible)	✓
Permanently connected Citric-acid from back intake	✓
Alarm light bar, 360 degrees visibility	✓
Infusion pole (higher weight limit, 4 hooks)	✓
Pre-set audio sound level	✓
Top tray	✓

### SAFETY

- IEC 60601-1 General requirements for basic safety and essential performance
- IEC 60601-1-2 Electromagnetic compatibility
- IEC 60601-1-6 Usability
- IEC 60601-1-8 General requirements, tests and guidance for alarm systems in medical electrical equipment and medical electrical systems
- IEC 60601-1-11 Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment
- IEC 60601-2-16 Particular requirements for basic safety and essential performance of haemodialysis, haemodiafiltration and haemofiltration equipment
- IEC 80601-2-30 Particular requirements for basic safety and essential performance of automated non-invasive sphygmomanometers
- IEC 62304 Medical device software – Software life cycle processes
- IEC 62353 Medical electrical equipment – Recurrent test and test after repair of medical electrical equipment

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



## IMPROVED PREPARATION & DISINFECTION AIM TO DECREASE TIME BETWEEN TREATMENTS

Reaching your targets is highly dependent on how well your dialysis monitor integrates with your consumables, procedures and other systems.

We are well aware of this fact and this is reflected in the AK 98 system. It has been designed to integrate easily and effectively in order to meet the various needs of our customers.



## CLEANART CARTRIDGE

Easy and efficient daily cleaning



## BLOODLINES

Open and flexible solutions for your needs



## DIALYZERS

Offer of POLYFLUX, EVODIAL and REVACLEAR dialyzers for therapeutic options.



## BICART CARTRIDGE

Support of delivery of ultrapure dialysis fluid

## TECHNICAL SPECIFICATIONS

### 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, pressure-controlled

### Blood circuit 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 syringe pump

Flow rate: 0 to 10 mL/h

Heparin bolus function

Bolus volume: 0 to 10 mL

Programmable stop time, accumulated volume read-out

### Water supply

Inlet pressure: 0.12 to 0.6 MPa (1.2 to 6 bar)

Inlet water temperature during treatment: 5 to 30 °C

Inlet water quality: Fluid must comply with appropriate regulations and as minimum ISO 13959

### Dialysis fluid preparation and monitoring

Flow rate: 300-700 mL/min (by step of 20 mL/min)

Bicarbonate range: Na<sup>+</sup> 130 to 150 mmol/L, HCO<sub>3</sub><sup>-</sup> 20 to 40 mmol/L

Profiling (Na<sup>+</sup>, HCO<sub>3</sub><sup>-</sup>, UF)

Concentrate standby mode

### Ultrafiltration control

UF volume: Adjustable, 0 to 10.00 L

Accuracy: ± 50 mL/h ± 1%

UF rate: 0 to 4 L/h

Independent ultrafiltration supervision

### Blood leakage detection

Method: Infrared light

### Disinfection and cleaning

Automated disinfection process with Gambro water treatment systems

Heat, liquid citric acid or CLEAN CART disinfectant

Short heat citric disinfection

Chemical: Peracetic acid, sodium hypochlorite

Disinfection log

### Power supply

Mains voltage: 115, 230V

Frequency: 50 to 60 Hz

Power consumption: Max 2025 W at 230 V, 1575 W at 115 V

### Dimensions and weight

Width: Machine 345 mm, stand 585 mm

Depth: Machine 600 mm, stand 620 mm

Height: 1305 mm

Weight: Approx. 70 kg (without options)

### Operating environment

Ambient temperature: 18 to 35 °C

Relative humidity: 15 to 85% RH

Air pressure: Up to approx. 2500 meters above sea level (70 to 106 kpa)

\* An event of venous needle disconnection is not guaranteed to be detected by most dialysis machines. International standards recommend additional venous access monitoring is used to safeguard patient safety.

The Gambro **AK 98 system** represents decades of partnership with dialysis professionals around the world working to unlock the potential of an economical, flexible and efficient HD therapy.

At Baxter every innovation we make, every step we take with our customers seeks to advance dialysis care and make life easier for patients, nurses, doctors, technicians and administrators around the world.

See how the Gambro AK 98 system puts you on your path to target at **ak98system.com**

Baxter, Gambro, AK 98, Bicart, CleanCart, Diascan, Evodial, Polyflux, Revaclear, U9000 are trademarks of Baxter International Inc. or its subsidiaries.