Baxter

AK 98

DIALYSIS MACHINE

BAXTER KIDNEY CARE

PD | **HD** | HDx | EDUCATION | SUPPORT

SIMPLE.

RELIABLE.

CONVENIENT.

Optimize each
treatment with the
AK 98 Dialysis Machine

INTRODUCING BAXTER'S MOST CONVENIENT AND RELIABLE HEMODIALYSIS MACHINE EVER.

The Artificial Kidney 98 (**AK 98**) is designed to provide operational and cost efficiency that streamlines staff workflow and dialysis treatment monitoring through:

Easy portability
facilitates staffing resource flexibility.

Reduced resource usage
provides cost savings with a greener footprint.

Reduced hands-on time
designed to automate and simplify treatments.

Reduced maintenance
needs backed by comprehensive service and support.

Proactive treatment management
and reporting helps optimize facility operations.

A LEGACY OF INNOVATION

Since first introduced in 1967, the Artificial Kidney family has demonstrated ground-breaking advancements and a proven track-record. **AK 98** continues this tradition.

EASY PORTABILITY

AK 98 machine is designed to be an optimal platform for both chronic dialysis care and hospital care environments.

Smallest, lightest hemodialysis machine*

The compact size and reduced weight saves space and makes it easy to move around.

AK 98[1]

154 lb
W 13.6”
H 51.4”

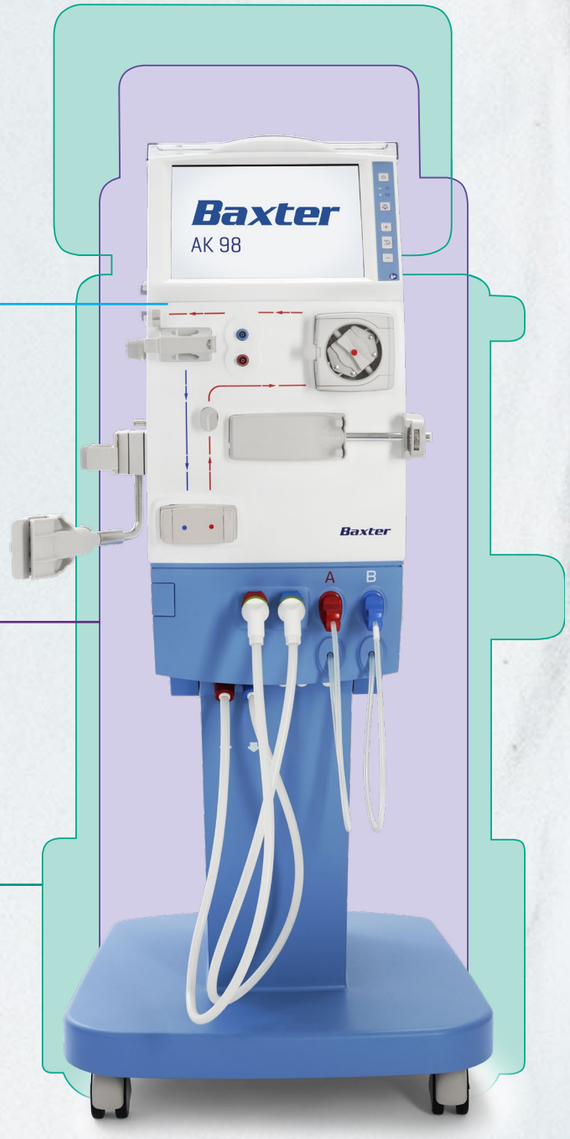
FMC 2008T Bluestar[2]

198 lb
W 21.3”
H 58.7”

B Braun Dialog+[3]

187 lb
W 20.1”
H 66.1”

*As compared to FMC 2008T BlueStar and B Braun Dialog+ machines



45-49% Less space[4]
18-22% Less weight[4]

Versatile utility

- The open system allows **fast, familiar setup** by a technician or a nurse, allowing greater flexibility and utilization of staff time and resources.
- Provides the ability to perform continuous therapy for **9 hours and 59 minutes**.[1]

Setup in one place, treat in another

The battery back-up provides up to **30 minutes to move the machine** around after setup. During this time, the blood pump continues running** and treatment info is retained.[1]

** The dialysate pump goes into stand-by mode

No separate cart needed

The stable base design allows for easy concentrate and portable RO storage and transport with the machine.

AK 98 with Shelf Extension Kit and Portable Water Purification System[4]

320 lb
W 26.4”
D 35.8”

Approximate dimensions and weight

NOTE: Shelf Extension Kit may be mounted on either side of the machine. **AK 98** and Shelf Extension Kit sold separately. Portable Water Purification System sold separately by Mar Cor (Evoqua Water Technologies, LLC).

REDUCED HANDS-ON TIME

Designed to support patent safety, streamline workflow, and simplify staff training.

Treatment that's highly customized

With **over 130 presets**, you can choose what's best for your facility and our technical team will implement them at the time of installation.

Intuitive, app-like interface

Designed to simplify treatment with fewer steps and guide you every step of the way.

Bidirectional connectivity

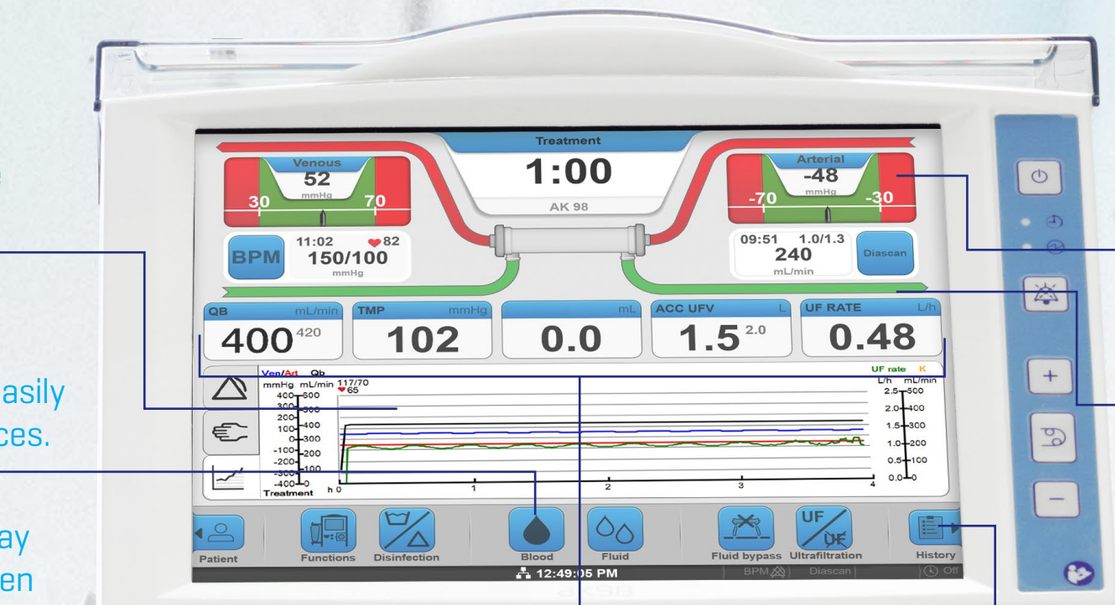
HL7-based connection allows direct push-pull capability between **AK 98** and your EMR.

- Receive up to 50 treatment parameters.
- Capture data every 60 seconds.
- Potentially **reduce errors and save time** from manual entry.

Operator messages and treatment graphs help guide clinical decision making.

Blood and fluid settings are easily accessible from multiple places.

Customize your screen display options and simply tap to open the corresponding menu.



Arterial and venous pressures are always visible and easily adjusted by tapping on either window.

Visual circuit indicates status and mode of treatment at all times.

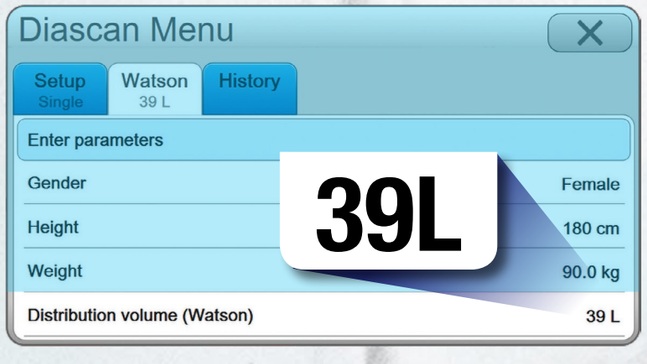
Quickly look up treatment history at any time.

PROACTIVE TREATMENT MANAGEMENT

Built-in programs for monitoring and data analysis help keep prescriptions on target and optimize facility operations.

DIASCAN monitoring system

- Provides real-time, estimated time measurement of ionic and forecasted Kt/V to help **identify trends in treatment**, and alerts to possible deviations.
- Integrated WATSON formula automatically determines volume distribution so there's **no need for additional calculations**.



Comprehensive reports

AK 98 can hold approximately 90 treatments worth of data at one time, which can be used to generate clinical and technical reports designed to help:

- Evaluate device performance
- Establish benchmarks
- Identify cost-saving opportunities
- Prepare for audits

SmartSense alerts

- Enables the machine to self-clear nuisance pressure alarms and avoid unnecessary stoppage of treatment due to brief pressure fluctuations often related to patient movement. This helps **streamline patient management**, and reduce the number of redundant device interventions.
- Reminders, including low pump speed, disinfection, and ultrafilter replacement to help **avoid unnecessary down-time.**
- Conveniently designed to **reduce alarm fatigue** with more pleasant sounding, color-coded alerts for prioritization and adjustable volume.

REDUCED RESOURCE USAGE

Intelligent fluid management and design results in cost-savings with a greener footprint.

Concentrate standby mode

uses zero concentrate, which could mean annual savings up to $139/machine (500 mL/min start flow).[4]

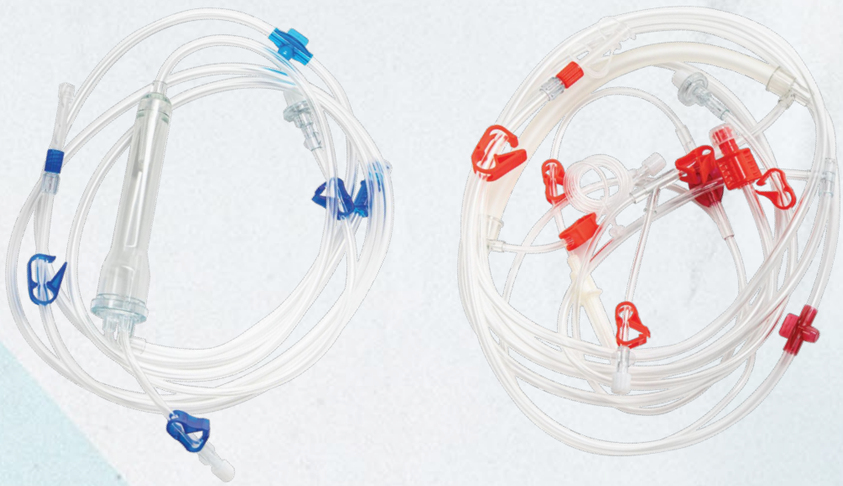
BICART concentrate autodrain

makes it simple to drain the water and powder completely for **easy recycling** after use.

NOVALINE BLOOD LINES

Environmentally friendly design

- Less plastic in packaging design.
- DEHP-free, so no need to worry about the plasticizer leaching out over time.[4,5]
- Electron bean (E-beam) – not Ethylene Oxide (EtO) – sterilized.[6,7]



Automatic leak detection

FOR U9000+ ULTRAFILTER

AK 98 includes a leak detector and fluid diverter tray under the U9000+ ultrafilter.

REDUCED MAINTENANCE

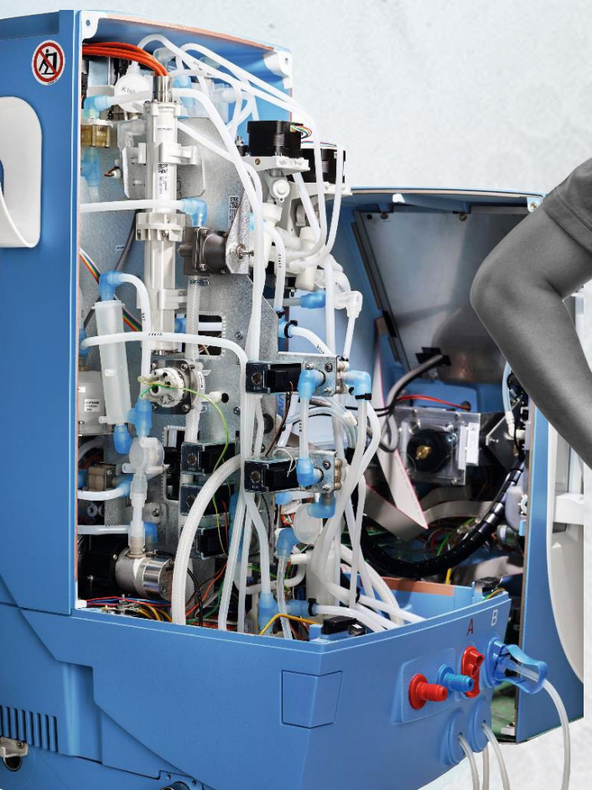
Built for reliability and designed for convenience, **AK 98** is backed by our commitment to excellence in service, support, and education.

Innovative design

High-precision ceramic concentrate pumps and electromagnetic flow meters means **no pH probe needed** and **no moving parts** to calculate flow rate.

Two years between maintenance

Preventative maintenance is only required every other year.



THE PARTNERSHIP OF A TRUSTED LEADER, HERE FOR TOTAL SUPPORT

Your Baxter team is dedicated to providing comprehensive clinical and technical support tailored to meet the needs of your facility.

Standard of excellence in
CLINICAL TRAINING

Comprehensive
WARRANTY

Comprehensive
biomed certification
COURSES

24/7 TECH SUPPORT
to help with machine troubleshooting

SPECIFICATIONS

AK 98 TECHNICAL SPECIFICATIONS

BLOOD FLOW CONTROL	Flow rate, double needle: 20 to 600 mL/min Flow rate, single needle: 20 to 600 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
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: 300-800 mL/min (by step of 20 mL/min) Dialysis fluid range: Na+ 130 to 150 mmol/L, HCO3- 20 to 40 mmol/L Profiling (Na+, HCO3-, UF) Concentrate standby mode
ULTRAFILTRATION CONTROL	±50 mL or ±50 mL/h x passed treatment time (h) or ±2.5 % of the accumulated UF volume, whichever is largest
BLOOD LEAKAGE DETECTION	Method: Green light
DISINFECTION AND CLEANING	Automated disinfection process with water treatment systems Heat, Heat with liquid citric Short heat citric disinfection Chemical: Peracetic acid, sodium hypochlorite (bleach) Disinfection log Descaling
POWER SUPPLY	Mains voltage: 115 – 120 V Frequency: 50 to 60 Hz Power consumption: Max 1575 W at 115 – 120 V
DIMENSIONS AND WEIGHT	Width: Machine 345 mm, stand 585 mm Depth: Machine 600 mm, stand 620 mm Height: 1305 mm (without infusion stand) 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 106kpa)
IT-CONNECTIVITY	HL7-based bidirectional communication with data encryption

*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.

NOVALINE MODELS FOR HD ON THE **AK 98** SYSTEM

MODEL	NOVALINE BL 11	NOVALINE BL 12
CODE	955554	955555
DN/SN	DN	DN
QUANTITY PER PACK	24	24
STERILIZATION	Electron Beam (E-beam)	Electron Beam (E-beam)
MATERIAL	DEHP-Free	DEHP-Free
PUMP SEGMENT	8x12x250	8x12x250
INFUSION LINE	Yes (preattached)	Yes (preattached)
TRANSDUCER PROTECTOR	1 (removable)	1 (removable)
PRE-DIALYZER ARTERIAL CHAMBER	No	Yes
VENOUS INFUSION LINE	1	1
DIALYZER CONNECTOR	Dual Material	Dual Material
BLOOD PATHWAY VOLUME	127 mL ± 10%	186 mL ± 10%

ACCESSORY (LATEX FREE)

EXPANSION CHAMBER (SINGLE NEEDLE)
Model: C705
Code: 101739
Sterilization: EtO

BAXTER OFFERS NEARLY A FULL HEMODIALYSIS PORTFOLIO

REVACLEAR Dialyzer

- Designed to optimize clearance with smaller surface area
- Reduced ESA usage with an estimated annual savings of $660 per patient receiving 3 dialysis sessions per week (in a large-scale, retrospective, observational study of N ~37,500 US HD patients of Revaclear 300 and 400 dialyzers)[8,9]

AK 98 Dialysis Machine

- Next generation platform
- Simple. Reliable. Convenient.

THERANOVA Dialyzer

- One step closer to the natural kidney
- Delivers superior removal of conventional/large middle molecules (up to 45k Da) compared to high-flux membranes, while maintaining stable serum albumin levels[10]

BICART

- Convenience of bicarbonate power
- Easy to use with minimal waste

Saline

- Multiple sizes
- DEHP/PVC-free options

Bloodlines

- Adult
- Compatible with competitive hemodialysis machines

Ancillaries

- AV Fistula Needles

For more information, visit renalcareus.baxter.com/ak98 and contact your local Baxter sales representative at 1-888-736-2543.

Rx Only. For safe and proper use of products mentioned herein, please refer to the appropriate Instructions for Use or Operator's Manual.

The Baxter **AK 98** dialysis machine is intended to be used for intermittent hemodialysis and/or isolated ultrafiltration treatments of patients with chronic or acute renal failure or fluid overload upon prescription by a physician.

The **AK 98** dialysis machine is indicated to be used on patients with a body weight of 25 kg or more. The **AK 98** dialysis machine is intended to be used by trained operators when prescribed by a physician, in a chronic care dialysis, or hospital care environment.

The Baxter **AK 98** dialysis machine is not intended for Selfcare or Home use. The Novaline Tubing Sets for Hemodialysis are only for adult patients. Novaline is intended to be connected to the dialyzer, and to the patient during the hemodialysis treatment.

1. AK 98 Operator's Manual. **2**. FMC 2008T Operator's Manual. **3**. B Braun Dialog+ Instructions for Use. **4**. Data on File. Baxter Healthcare Corporation. **5**. Erythropel HC, Milan M, Nicell JA,Leask RL, Yargeau V. Leaching of the plasticizer di (2-ethylhexyl) phthalate (DEHP) from plastic containers and the question of human exposure. Applied Microbiology and Biotechnology 98, No. 24 (2014): 9967-9981. **6**. Novaline Tubing Sets for Hemodialysis. Instructions for Use. Bain Medical Equipment (Guangzhou) Co., Ltd. **7**. Environmental Protection Agency. (2018). Fact Sheet: EPA Taking Steps to Address Emissions of Ethylene Oxide. Retrieved from https://www.epa.gov/hazardous-air-pollutants-ethylene-oxide/fact-sheet-epa-taking-steps-address-emissions-ethylene-oxide. **8**. Sibbel S, Hunt A, Laplante S, Beck W, Gellens M, Brunelli SM. Comparative effectiveness of dialyzers: a longitudinal, propensity score-matched study of incident hemodialysis patients. ASAIO Journal, Jul 20 2016. **9**. EPOGEN (Epoetin alfa) RED BOOK Online Product Details. Micromedex Solutions, 2016. 10. Theranova IFU, 2021.

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