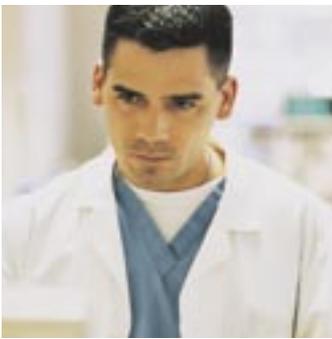


Multiple Needs... A Unique Solution

The AK 200 S and AK 200 ULTRA™ S Dialysis Systems.

Multiple—Needs



I Need
treatment options
that can be adapted
for each patient.

Each patient is different. That's why Gambro dialysis systems adapt themselves to each configuration, from standard treatments to the most advanced therapies (ULTRATherapies™).

Whatever you choose for your patient, Gambro has the solution.

I Prefer
to focus on
patient care.

Automated functions, Diascan®, BVS, BPM, and programmed disinfection routines leave you more time for your patients.

All functions are immediately accessible, and information is displayed on clear graphical screens.

I Expect
safe and comfortable
treatment.

Advanced treatments, such as ULTRATherapies™, improve patients' quality of life.

The Diascan® function and BVS devices are perfect tools to ensure effective and smooth treatments, regardless of the patient's tolerance for dialysis.

And thanks to our hygienic chain concept (BiCart Select® system, Water Treatments, Ultra Filters), the quality of the dialysis fluid is under control.

I Must
deliver efficient and
cost-optimized treat-
ments.

Gambro's global offer combines efficiency and savings.

Diascan™ monitors the Kt/V at no extra cost, and the BiCart Select® system drastically reduces the area needed for storage.

Gambro machines are designed for safe, quick, cost-effective heat disinfections.



A Unique Solution for the Team

We respond to the diverse needs of today's dialysis world...

- ▶ With standardized procedures and individualized treatments
- ▶ With cost-effective treatments and smooth delivery to patients

with the Gambro AK 200 S and Gambro AK 200 ULTRA™ S systems.



Gambro AK 200 S

Gambro AK 200 ULTRA S



Each Patient

BiCart Select[®] – Accurately Individualize Your Dialysis Fluid

The composition of dialysis fluid can now be easily tailored to suit your patients' individual needs thanks to a number of SelectBag formulas that can be stored in the machine.

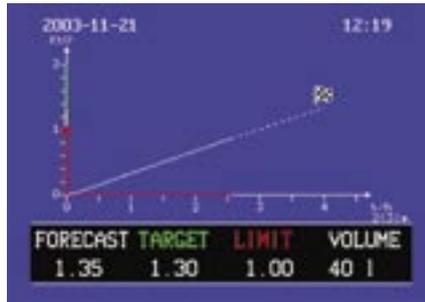
The BiCart Select system enables on-line profiling of both bicarbonate and sodium without affecting the delivery of minor electrolytes.



Diascan[®] – Control the Dialysis Dose

The Diascan device monitors the effective ionic clearance on a real-time basis, and allows you to check your Kt/V during treatments, and session after session.

You know if the prescription has been properly delivered to your patients, allowing you to react and adjust the treatment.



Kt/V Survey – Allows you to set the lower limit and check if the target will be reached.

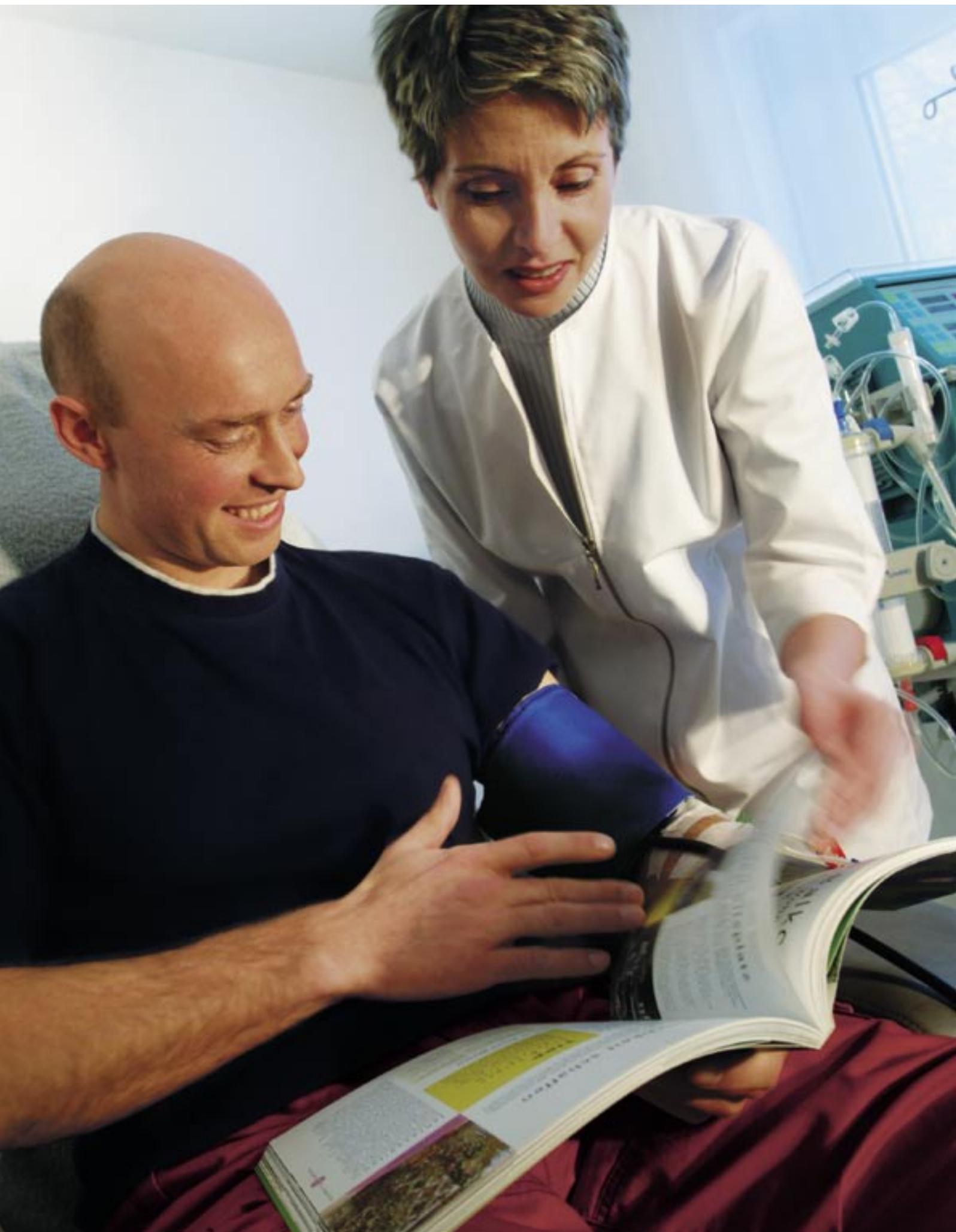
BVS – Prevent Hypotension with Continuous Blood Volume Measurements

The integrated Blood Volume Sensor, BVS, helps you optimize each patient treatment. Consequences of fluid removal are displayed as a change in the percentage of the blood volume. Hypovolemia, leading to hypotension is quickly identified, allowing you to take appropriate and preventative measures. The BVS also provides information for optimization of the dry weight. The BVS is a valuable tool in personalizing each patient treatment.



Blood Volume Sensor – A non-invasive method of measuring blood volume using infrared light.

Is Unique



The BiCart Select® System Is Safe and Easy-to-Use

No more mixing, filling, carrying and spilling of heavy concentrate canisters. The fully enclosed BiCart Select system ensures that fluids maintain the highest possible quality. Dialysis concentrates are easily and quickly installed on the dialysis machine.



Less Is More

The BiCart Select system is smaller and lighter than conventional alternatives. Storage space and waste are reduced by up to 80%. This saves you handling time and costs associated with storage and disposal.



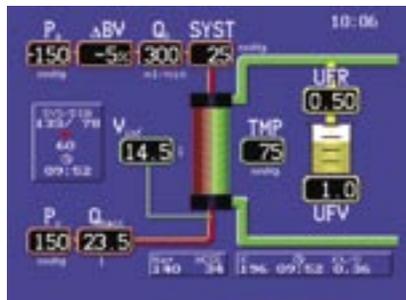
BiCart Select (325 kg)

Liquid Concentrate (1.800 l)

User-friendly Information Ensures Quick and Accurate Actions

Important functions are easily and quickly selected using clearly assigned function keys. All monitoring displays are easily seen with a glance at the control panel. Additional treatment data and measurements appear in large letters on the TFT color display. Exceptionally safe and user-friendly features are also provided:

- Desired electrolyte values can be selected and input directly in mmol/L.
- The effective blood flow rate that is displayed, corresponds to the prescribed rate after the effect of the pre-pump pressure has been compensated for.



Safe

... Leaving You More Time for Your Patients

Blood Pressure Monitoring

The BPM is integrated with the monitor, so it is easy to check your patient's blood pressure.

Automatic measurement intervals can be defined; and you can use the cursor to select measurement points and instantly check the values – during pretreatment, the session, or posttreatment.





Ultra

The Gambro CleanCart® Concept for Disinfection Makes Daily Cleaning Simpler and More Efficient

Simply insert the CleanCart cartridge into the holder and choose one of the heat disinfection programs. Let the AK systems do the rest of the work! No more messy chemical containers to carry or spill and no chemical fumes. The CleanCart cartridge saves you time, storage space, and more importantly, money. The disinfection processes are all programmable and can if desired, start automatically, before the staff arrives in the morning.

Optimized Fluid Flow System That Prevents the Formation of Biofilms

Both the AK 200 S machine and AK 200 ULTRA™ S machine feature a fluid flow system that completely separates the supply and return flows of dialysis fluid during the treatment and disinfection procedures. The compact fluid path eliminates dead spaces and recirculation of fluids. This minimal volume of fluid prevents biofilm formation along with the effective disinfection processes.



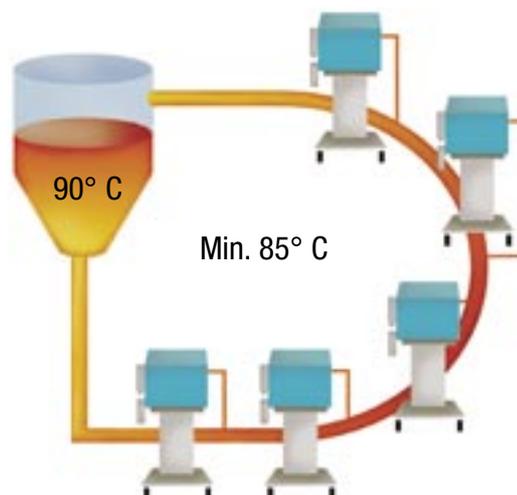
The CleanCart C – Descaling and disinfection with combined heat and citric acid.

Pure

Integrated Heat Disinfection – A Unique Hygiene Concept for the Entire System

A chain is only as strong as its' weakest link. Gambro's hygienic chain features a combination of an incoming water preparation system and a dialysis machine. Gambro ensures complete disinfection of the water treatment system, the distribution lines, the machine water inlet line, and the machine itself. This unique hygienic chain prevents biofilm, and is only available from Gambro.

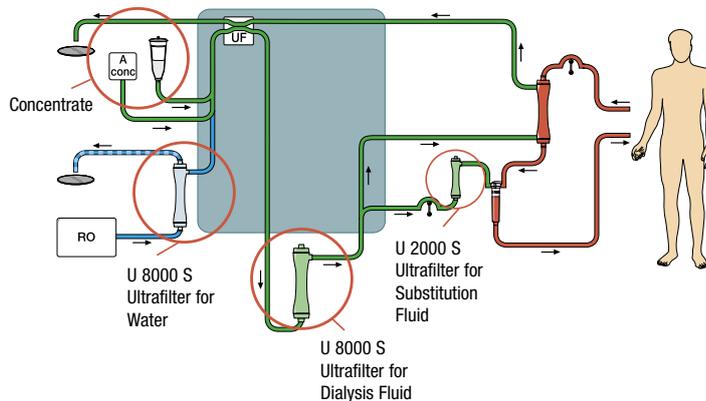
... Because Dialysis Fluid Quality Really Matters





Maximum Safety for Your Patients Through Sterile and Non-pyrogenic Infusion Fluid

The single-use ULTRA SteriSet™ infusion fluid line contains a sterile ultra filter with unique endotoxin-retaining properties. This filter is an effective barrier and ensures that infusion fluid is of the highest quality.



Better Treatment Quality Through Ultrapure Dialysis Fluid

The AK 200 ULTRA™ S system delivers ultrapure dialysis fluid based on a dual filtration step (U 8000 S ultrafilters). The first ultrafilter ensures that only ultrapure water enters the system. The second ultrafilter prevents any possible contamination from dialysis concentrates.

Time and Cost Savings Through On-line Priming and Bolus

The ULTRA SteriSet system allows you to prime the extracorporeal circuit and perform the fluid bolus and blood rinseback procedures with on-line infusion fluid, eliminating the hassle and cost of saline bags.

Thanks to SelectCart cartridge, you can even prime the blood circuit with pure sodium at physiological levels (On-line Sodium Priming procedure – OSP).

Optimized Replacement Volume Through TMP-controlled Infusion Rates

Historically, preventing TMP alarms toward the end of treatment required you to set the infusion volume below the optimal level.

The AK 200 ULTRA S system allows a TMP-controlled infusion rate, which lets you optimize the convectively cleared volume for each and every patient treatment.



Filters 1 and 2 of the three-barrier filter system.



The ULTRA System – Infusion port for the ULTRA SteriSet.

ULTRA SteriSet – Integrated and sterile disposable ultrafilter in the infusion line.

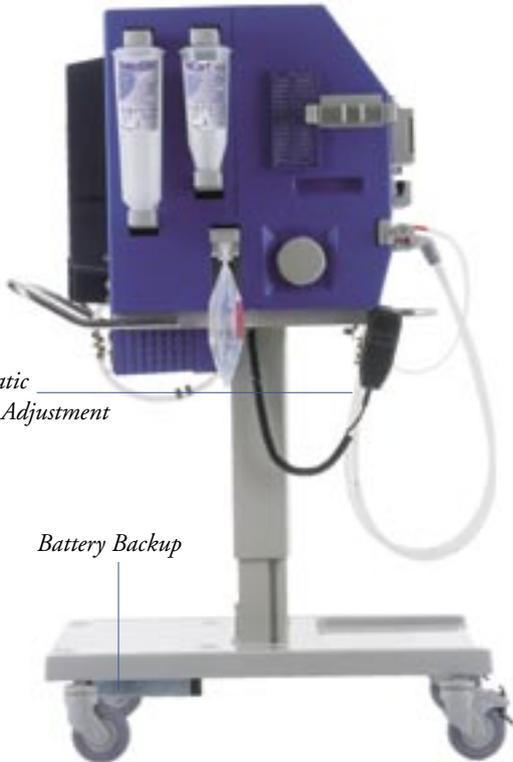
AK 200 S

BVS Blood Volume Sensor

*Automatic Drip Chamber
Blood Level Regulation*

*Automatic
Height Adjustment*

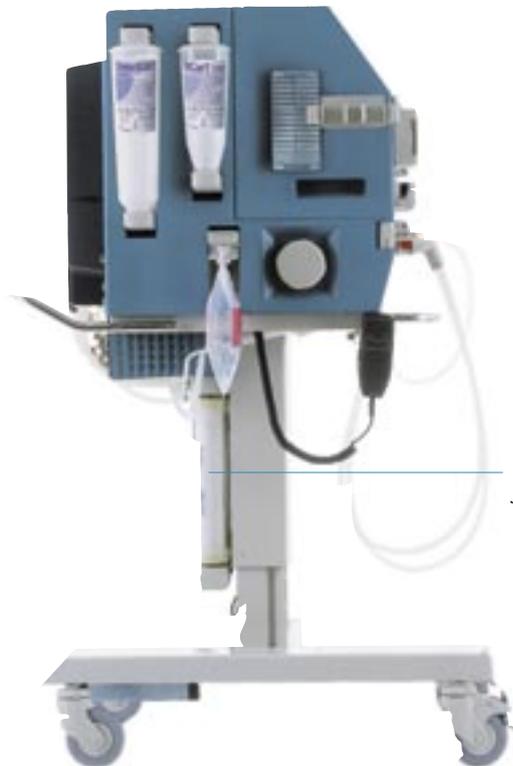
Battery Backup



AK 200 ULTRA™ S

*On-line
Infusion Port*

*U 8000 S
for Ultrapure
Dialysis Fluid*



Effortless Maintenance

Service software and an external computer interface makes servicing, programming, software updates, and scheduled preventative maintenance easy.

ULTRA Therapies™, Make a Noticeable Quality of Life Impact on Many Patients

ULTRA Therapies by Gambro together with the AK 200 ULTRA™ S machine represent the gentlest and most effective treatment you can provide your patients. The AK 200 ULTRA S machine offers you the options of hemodialysis, hemodiafiltration pre- or postdilution, and hemofiltration.

The AK 200 ULTRA S machine provides unique high volume predilution treatment modalities and its specific three barrier filtration concept ensures optimal fluid quality throughout the treatment.

A Quality Step in Dialysis Therapies

... the AK 200 ULTRA™ S Dialysis System

Changing from standard dialysis to hemodiafiltration means more effective blood purification. Urea Kt/V is increased. Phosphate removal is improved. Clearance of b2-microglobulin and other uremic middle molecule solutes is enhanced.

For many patients ULTRA Therapies also means better treatment tolerance with less blood pressure drops, less cramps, and less post-treatment fatigue. Itching often improves. The high fluid quality and the use of a highly biocompatible dialysis membrane contribute to less microinflammation. Anemia may improve. Nutrition may improve. Cardiovascular stability gets better. Conditions for a better outcome are at hand.

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