



OMNI

THE REINVENTION OF
ACUTE BLOOD PURIFICATION

THE FUTURE OF ACUTE BLOOD PURIFICATION.



Our task: To provide all current forms of therapy using all current anticoagulation modes. With one system.



IT'S HERE!

Acute blood purification in the intensive care setting has become a key therapeutic tool, in particular in critically ill patients suffering from multiple organ failure (MOF). Due to the high case volume seen in ICU wards, efficacy in terms of performance and outcome have been successfully demonstrated.

The numbers speak for themselves.

At present,

- **6%** of all ICU patients will suffer from acute kidney injury (AKI);
- **4.5%** of ICU patients will require renal replacement therapy (RRT).

These numbers are expected to increase.

In the last 20 years, there's been an obvious paradigm shift away from intermittent hemodialysis (IHD) toward continuous renal replacement therapy (CRRT). This is due to an ever-increasing frequency of major surgery and the rising rate of sepsis. Therapeutic guidelines that support the early use of CRRT have been developed by the ADQI-KDIGO expert group.

Early initiation of therapy may be important for success and is much more likely if the intensivist is the decision maker, particularly in the case of multiple organ failure (MOF).

When we developed this new device, we wanted to design a system that would suit ICU needs in terms of usability, safety, performance and innovation. A system capable of streamlining the sometimes very complicated processes encountered in an ICU, thus significantly reducing the workload of doctors and nurses.



FULL FLEXIBILITY MEANS STABILITY.



Why settle for less? The OMNI offers all current CRRT and anticoagulation modes and let you combine them freely. You get full flexibility and control.

All CRRT and anticoagulation modes available at any time

SCUF: Slow continuous ultrafiltration
CVVH: Continuous veno-venous hemofiltration
CVVHD: Continuous veno-venous hemodialysis
CVVHDF: Continuous veno-venous hemodiafiltration
Heparin
Citrate (CVVHD)
Adult
TPE: Therapeutic plasma exchange (future option)
Low blood volume (future option)

Real therapeutic freedom

- Continuously monitor the patient's condition
- Quickly change therapeutic strategy during treatment using the same set
- Effortlessly alter dilution levels to resolve a pressure drop or TMP issues
- Easily change bags to help achieve the adequate renal dose
- Precisely adjust fluid balance to regulate net fluid removal

CRRT therapies

SCUF	✓
CVVH	✓
CVVHD	✓
CVVHDF	✓
Pre – Post – Pre/Post – Post/Post	✓

Anticoagulation modes

Heparin	✓
Citrate (CVVHD)	✓

BALANCED BY INTELLIGENCE.



All together now: The independent pumps work in harmony. Automatic fluid regulation and compensation systems prevent constant coagulation and saturation of the filter. It's simply one of the most advanced fluid balance management systems to date.



HomeoSAFE

A unique blood- and fluid-flow regulation system designed to safely and accurately meet and maintain the parameters you set.

Renal dose adjustment

After receiving the desired parameters, the software calculates the renal dose target (ml/kg/h) and continually adjusts fluid flow rates during the entire course of therapy. Any deviations due to ramping pumps and automatic fluid-exchange modulation are automatically compensated for.

Automatic blood-flow reduction

Inadequate arterial or venous pressures are analyzed by the OMNI SW. Blood flow is automatically temporarily decreased in order to avoid the repeated blood-pump stops that can lead to unnecessary alarms and to coagulation problems and result in failure to reach the desired renal dose.

Automatic fluid-exchange modulation & compensation

Inadequately high transmembrane pressure (TMP) is detected by the OMNI SW, and fluid exchange is automatically reduced as necessary in order to avoid rapid membrane saturation, which can also result in failure to achieve the necessary renal dose.

Automatic air removal via chamber regulation

Thanks to the three automatic regulation chambers on both the blood and fluid sides that are designed to detect and remove any air which has entered the system, staff workload is significantly reduced.

Ceramic fluid heater

It is designed to rapidly and accurately warm fluids during treatment from 30°C, for use in cardiac arrest, to 40°C for HVHF.



AS EASY AS 1, 2, 3 ...



Discover the striking usability of the OMNIsystem by starting with the fully preconnected OMNIset.

1. Scan and unpack the set with the barcode scanner.
2. Snap the set onto the OMNI.
3. Load and prime automatically.



Fully preconnected, including the OMNIfilter

The OMNIset has been designed to reduce setup, loading and priming workloads. Emergency connection for acute patients can be performed with limited training. Clear and simple on-screen instructions further facilitate the process.

Lower blood volume thanks to superior line and chamber designs

Major challenges, such as severe blood loss and other critical hemodynamic states, can be successfully managed due to the very low extracorporeal volume required to initiate or end therapy.

Renal dose adjustment

Thanks to the HomeoSAFE premium SW concept, blood flow is maintained at a safe and constant level. In addition, our advanced pump-ramping technology helps avoid low-membrane-efficiency issues.



Save prep time with the OMNIset

With the pre-assembled OMNIset and easy, step-by-step on-screen instructions, setting up the OMNI is faster than for any other device in its class.

GET IN TOUCH.
STAY ON TOP.



Let your fingers do the walking. The crystal-clear, 12" touchscreen provides the information you need and makes it easy to act rapidly and adequately in emergency situations.

12" touchscreen

The clear, large and very fast display and user interface will help you get started with CRRT in no time. A comprehensive troubleshooting guide helps the user correct problems quickly. The unique screen saver is visible from up to 10 meters.

360° status light

Located at the top of the OMNI and visible from any side, three different lights linked to audible alarms help the user safely follow treatment, change the bags or the heparin or calcium syringe or troubleshoot.

Staff call

Allowing the caregiver to slave the OMNI main display to the ICU's patient monitoring system, this feature enables rapid response if any alarms occur.



CUTTING-EDGE DESIGN.

WITHOUT EDGES.



When your all-new OMNI comes out of the shell, you instantly get a sense of its capabilities through its unique appearance. You'll discover the perfect interplay of design, functionality and usability. The OMNI is one of the sleekest and lightest CRRT device on the market.

Totally mobile

Thanks to the compact size and low weight of the OMNI, it's easy to move around the ward or the entire hospital. This mobility is supported by a backup battery with a 30-minute capacity.

Smallest footprint

Space comes at a premium in any ICU, so compact size is essential. In emergency situations, it can even be vital.

Easy to clean

The front panel design facilitates cleaning. The CLEAN key allows the user to remove dust from the display at any time.



Sleekest and lightest device available

The OMNI unique design makes it the most compact device of its kind on the market – a real advantage in any ICU.

A close-up view of the base of the Sirona C-arm. The device is primarily grey with green accents. A prominent red laser safety beam is visible, projecting from a red indicator light on the right side of the base. A green safety handle is located in the center of the base, and a green hook is visible on the left side. The base is mounted on a thick grey vertical column.



OMNIFilter

1.2m²

CRRT

2015-05-26

2018-04-26

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Data recording and transfer through the hospital PDMS is easier with the OMNI, which allows the user to recover the treatment history of the last 10 patients and to connect via cable to the hospital data network.



The 360° portfolio gives you the freedom and the capability to offer your patients any form of therapy whenever necessary – regardless of the severity of the condition. As a worldwide leader in the field, B.Braun stands for a high level of availability of components, accessories and disposable items.

COMPREHENSIVE. ANY WAY YOU LOOK AT IT.



OMNIset
incl. hemofilter

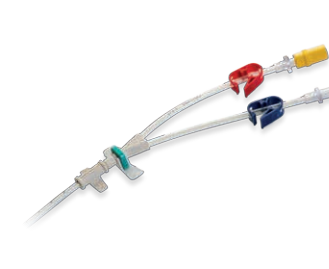
Full size range including
0.3* – 0.8 – 1.2 – 1.6 sq



OMNIset
incl. plasmafilter*

Full portfolio including
0.3 – 0.5 – 0.7 sq

* future option



Catheter Set

Curved and straight options;
adequate size and length
range for your patient
access



Duosol

Three different bicarbonate
formulas for hypo- or
hypercatabolic patients
0 – 2 or 4 K⁺



**Calcium-Free
Bicarbonate Solution**

Calcium-free bicarbonate
solution with 4 mmol/L
potassium



Citrasol

Trisodium citrate (TSC)
for the main RCA modes
1l or 2l bag

The comprehensive system

The OMNI portfolio lets you treat both adult and pediatric* patients, even those who are hemodynamically unstable or suffering from coagulation disorders.

OMNIsupport

Dedicated support will help the user to achieve the best possible results. Specific training tools and workshops are available to support ICU staff.



EXPERTISE SHARED.

IS EXPERTISE SQUARED.



Although the new OMNIsystem is practically self-explanatory, our dedicated team supports you on every level. Product training, specific workshops and symposia help you become the professional your team and your patients have been waiting for.

Dedicated team for superior support and product training

CRRT expertise is delivered by our acute teams, always qualified at the highest level.

B. Braun Avitum ABP Academy

New CRRT approaches can be reviewed and revisited through advanced training sessions and debates.

Specific workshops and symposia

Specific CRRT topics such as new treatment forms or novels on the RCA will be discussed at KOL workshops and symposia.

Service contracts

Different options are available to your hospital's biomedical division. From the basics to full-service.

52 GOOD REASONS. EACH ONE OF THEM COUNTS.



The new OMNI provides plenty of convincing reasons to try it. How many do you need?



Full spectrum of CRRT modalities

- Renal support (AKI)
- Fluid Overload
- Individualized therapy approach

Full spectrum of therapy and anticoagulation modes

- SCUF, CVVH, CVVHD, CVVHDF, pre - post - pre/post - post/post
- Heparin/citrate anticoagulation modes
- TPE**
- Low blood volume**

Full flexibility during therapy

- Continuous monitoring of the patient's condition
- Renal dose follow-up on the screen linked to fluid-balance management
- Easy to adjust within any therapy
- Easy to change the dilution (pre/post)
- Easy to change the anticoagulation mode*
- Easy to change to another therapy form with the same set

Most accurate fluid-balance management

- Renal dose adjustment
- Four fluid pumps
- One syringe pump for heparin & calcium modes
- Three-way clamp for full therapy flexibility
- Automatic blood-flow reduction (HSP - HomeoSAFE Premium)
- Automatic fluid-exchange decrease (HSP)
- Automatic air removal via chamber regulation
- Reduced bag changes
- Ceramic fluid heater

Unique usability

- Fully pre-assembled kit with integrated OMNIfilter
- Lower blood volume thanks to fully pre-assembled set
- Short prep times
 - Easy setup (loading, connecting, hanging bags on the load cells)
 - Fast priming
 - Integrated warmer preparation
- Renal dose adjustment

Intuitive user interface

- 12" touchscreen
 - Graphic user interface
 - Intuitive video tutorials and help screens
 - Monitoring renal dose and patient condition
- Staff call
- 360° traffic status light

Cutting-edge design

- One of the sleekest and lightest device in the market
- Easy to move around the ICU
- One of the smallest footprint
- Easy-to-clean surfaces

Advanced safety features

- Dual-channel safety system
- Barcode scanner (avoids setup errors)
- Backup battery, 30 min. (easy and safe intrahospital transport)
- Data recording, patient data management system (PDMS)
- Treatment history of the last 10 patients
- Three-way clamps for therapy/dilution changes
- Adult/pediatric options

360° portfolio

Comprehensive system consisting of:

- OMNI
- OMNiset hemo (fully preconnected set incl. hemofilter with four different surface choices)
- OMNiset plasma** (fully preconnected set incl. plasmafilter with three different surface choices)
- Catheter Set (curved and straight options)
- Duosol (three different bicarbonate formulas)
- Calcium-Free Bicarbonate Solution
- Citrasol

Expert support

- Dedicated team for superior support and product training
- Specific workshops and symposia
- B. Braun Avitum ABP Academy
- Service contracts

* the change of anticoagulation mode is allowed only between therapies, not during the therapy
** future option

Do you want to know more?

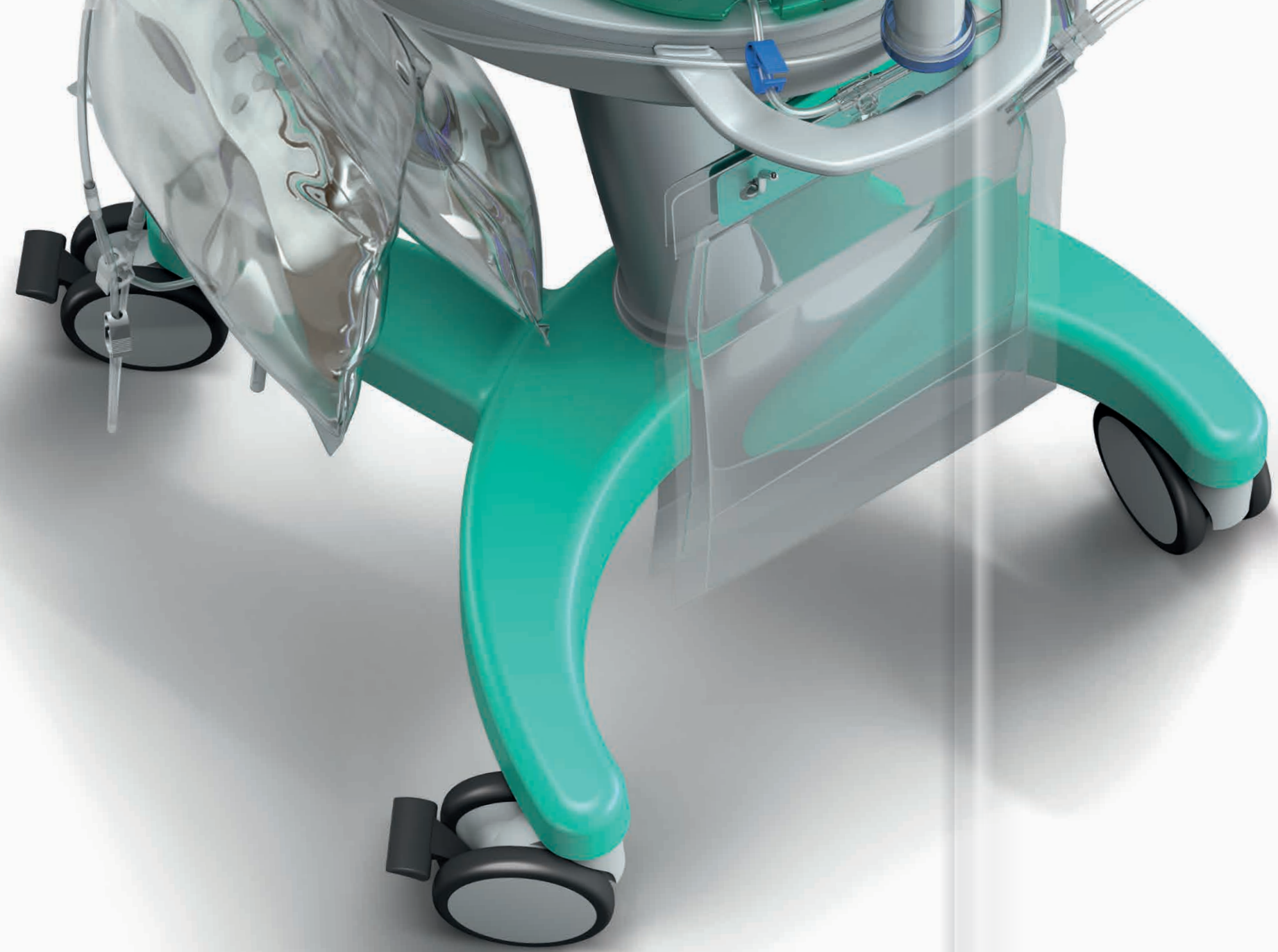
If you are looking for more detailed information on the OMNI system, please visit our website:

www.omni-bbraun.com

or scan the QR code to the right.



get.neoreader.com



EXPECT MORE. DISCOVER OMNI.

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Learn more about the benefits of the new OMNI and our other innovative products.

For further information, download the dedicated app by scanning the QR code alongside.