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**Технические характеристики на  
кровопроводящие магистрали, клинические  
информационные системы, устройства для  
смешивания концентратов, системы  
очистки крови  
NEXADIA, DiaStream iQ, ECOCart,  
ECOMix, OMNI  
КОМПАНИИ B. BRAUN**

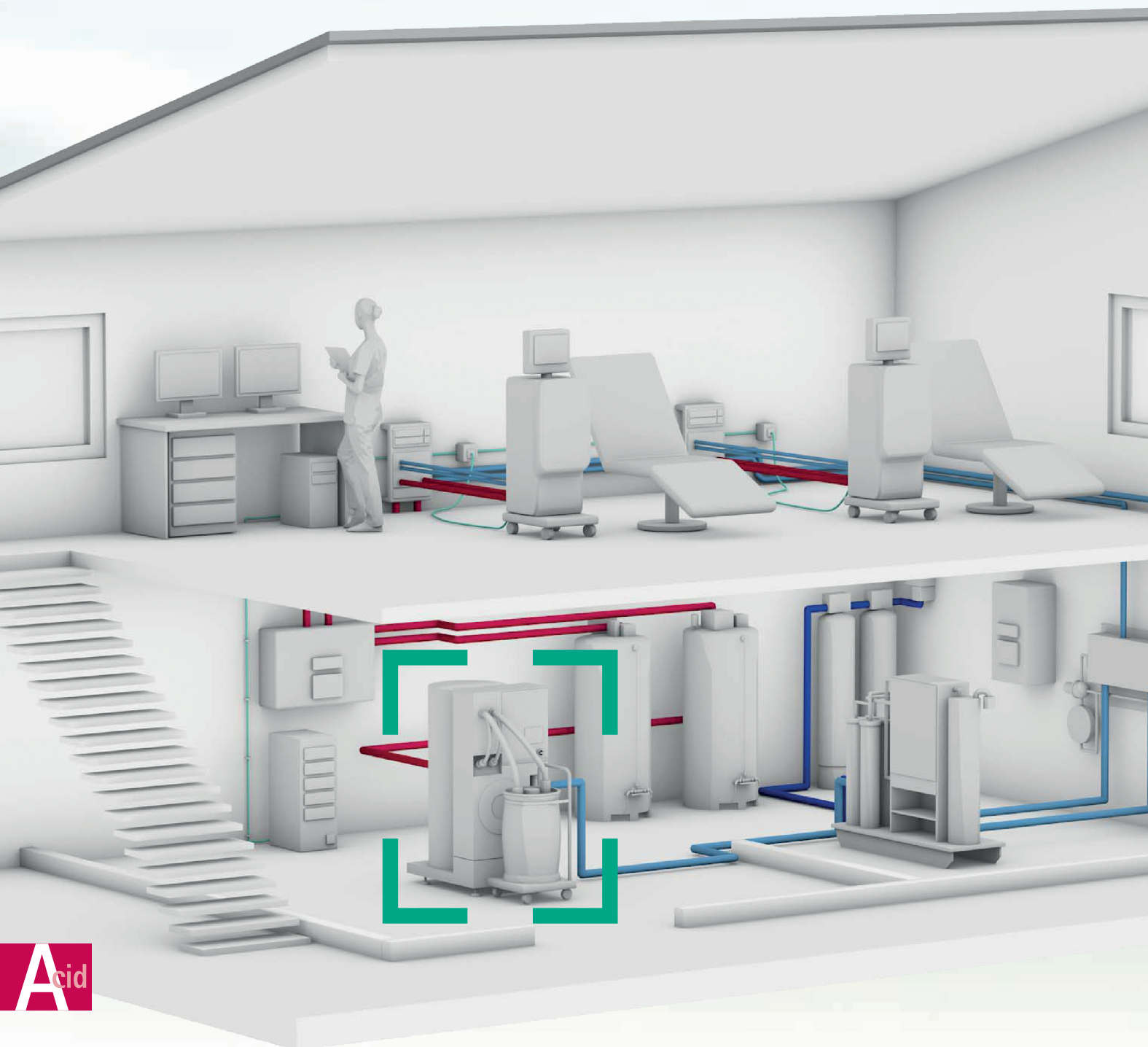
**Виды товаров:** синхронизаторы машинных данных, вэб-приложения, кровопроводящие магистрали, устройства для смешивания концентратов, системы экстренной очистки крови.

# INNOVATIVE INTEGRATED CONCEPT

## FULLY AUTOMATED IN-HOUSE PREPARATION OF HEMODIALYSIS ACID CONCENTRATES

ECOMix Revolution is a fully automated mixing device for acid concentrates. The dry concentrate-powder formulation comes inside the ECOCart cartridge. SmartCoupling assures a fast and easy connection between ECOCart and ECOMix by simultaneously identifying the correct ECOCart cartridge and the

requested formulation. This provides a high level of safety without compromising on quality. ECOMix and ECOCart as a system is therefore an innovative addition to the Dialog dialysis machines and the AQUAboss water treatment system, supporting effective dialysis treatment in modern renal care centers.



# ECOMix REVOLUTION

## INNOVATION AT A GLANCE

### SAFE AND EFFICIENT PROCESSES

- Connection of ECOCart with ECOMix Revolution and confirmation of concentrate type
- Fully automatic preparation
- Automatic control and release of concentrate via density measurement
- Decanting of concentrate into the correct ECOTank
- Disconnection of ECOCart and rinsing of ECOMix Revolution
- DensiCon technology enables control of concentrate composition via density measurement
- Considerate preparation with SoftPressure technology
- Complete process control via Re-Tec and documentation of all relevant preparation data

### OVERALL ADVANTAGES FOR RENAL CARE CENTERS AND STAFF

- Protects the health of the nurses by reduced weight
- Less stock needed in the renal care center, due to powder cartridges
- Quick installation of the complete mixing system and storage tanks
- Easy adaption to existing Reverse Osmose and Central Concentrate Supply
- Online monitoring features allow controlled data transfer, proper function, technical service 24/7, consumption- and ordering-information services
- Broad range of concentrate formulations available, 1+44 and 1+34
- NEW: Citrate containing acid concentrates

### ECONOMICAL ADVANTAGES

- Lower workload compared to in-house preparation from raw materials
- Low maintenance costs due to online services

### PROTECTION OF ENVIRONMENT

- Reduction of weight for transport on the roads and in the clinics, compared to liquid ready-to-use concentrates
- Significant reduction of CO<sub>2</sub> emissions from trucks
- Reusable cartridges help to reduce waste



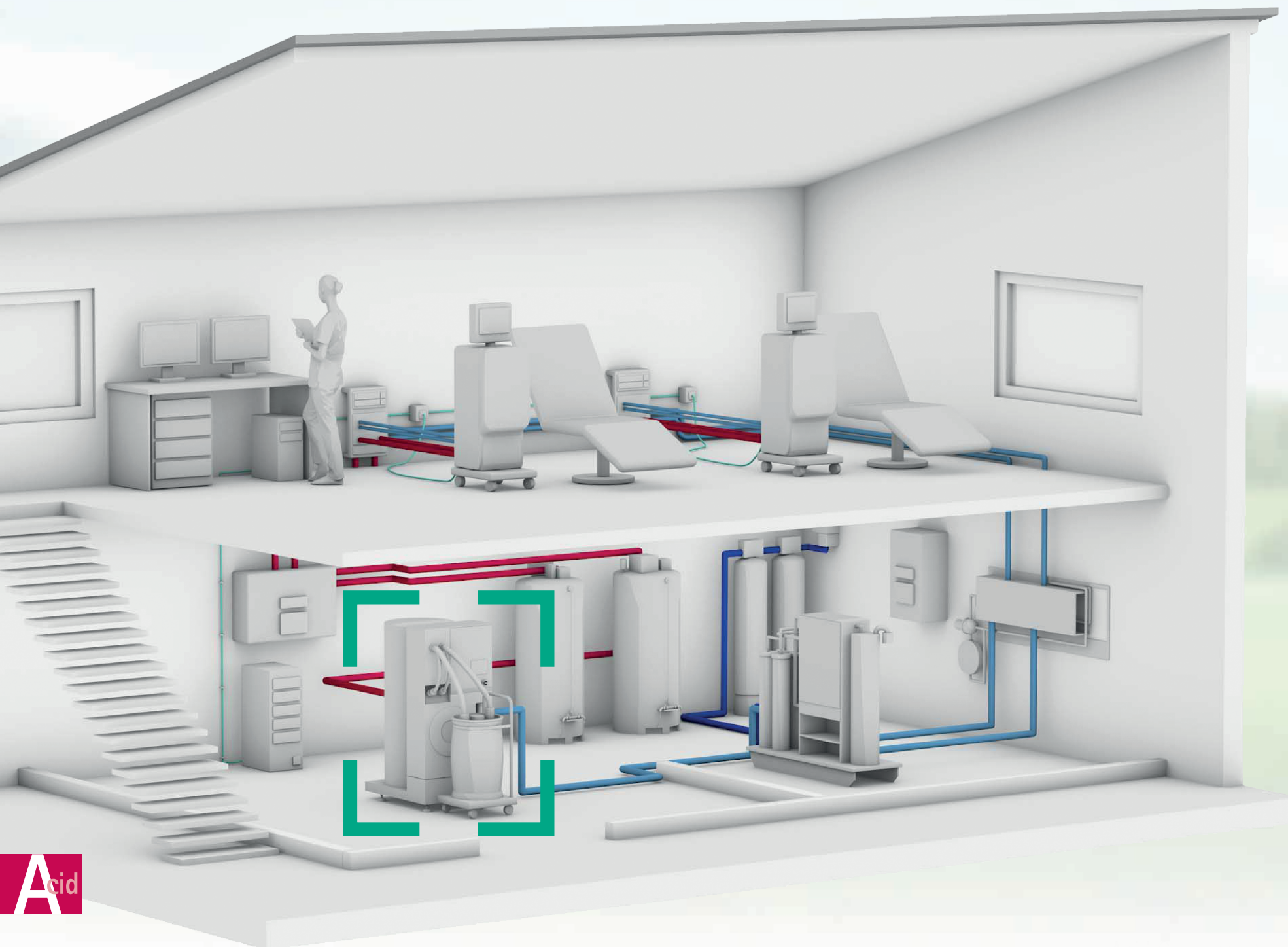


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# ECOMix REVOLUTION AND ECOCart REVOLUTION

## BENEFITS VS ...

### ... OTHER MIXING DEVICES

- No more carrying heavy packaging of raw materials
- ECOCart cartridges come on large rollers and can be moved easily
- ECOCart is also available as a single use cartridge
- Fully automatic processes
- Fast identification of the correct cartridges' concentrate raw materials
- Preparation of the desired ready-to-use concentrate
- No further quality control required due to DensiCon technology
- Improved design prevents damaging of mixing device, storage tanks and ECOCards
- Low maintenance costs, low failure rate
- Online maintenance features and service available for automatic ordering

### ... READY-TO-USE LIQUID CONCENTRATES IN LARGE VOLUME CONTAINERS (200–1,000 l)

- The ECOCart's lower weight results in fast and easy handling, for managing the stock or connecting the Central Concentrate Supply, e.g., acid fluid does not drip
- Fully automatic processes reduce the risk of wrong product application, e.g., via a wrong connection to the CCS
- The ECOCart's smaller size reduces the storage space and the risk of damaging walls or doors in the warehouse
- Reusable ECOCart means less waste and less environmental impact\*

### ... READY-TO-USE LIQUID CONCENTRATES IN SMALL VOLUME CANISTERS OR BAGS-IN-BOX (3–20 l)

- Less weight to carry and handle (on average 7 kg less per treatment)
- Less stress and physical disturbance for nurses
- No emptying of canisters after treatment, helps to avoid contamination risk
- Cost and waste reduction by avoiding remaining acid concentrates in canisters after the treatment
- Reusable ECOCart reduces the environmental impact\*

\*Disposable ECOCart available on demand.

# ECOMix REVOLUTION SYSTEM

FULLY AUTOMATED SUPPLY OF ACID CONCENTRATES, FROM PREPARATION AND STORAGE TO THE DIALYSIS MACHINE

## ECOMix REVOLUTION & ECOCart REVOLUTION – DIMENSIONS AND FORMULATIONS

A single ECOCart carries the raw material for the ordered concentrate formulation. ECOMix prepares precisely this one acid concentrate via a controlled mixing process. Finally, it is filled into storage tanks called ECOTanks.\*

	Depth	Height	Width
ECOMix Revolution incl. 800 l mixing tank	1.25 m	1.90 m	0.88 m

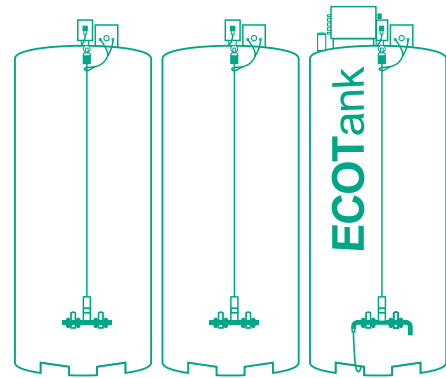
\*ECOCart acid concentrate formulations: A broad portfolio, on request.



## ECOTank REVOLUTION

Each prepared concentrate is dedicated to one ECOTank.

	Depth	Height	Width
ECOTank 860 l	0.88 m	2.19 m	0.88 m
ECOTank 1,650 l	1.12 m	2.41 m	1.12 m



**INTERMEDT**  
Medizin & Technik GmbH

Intermedt is an independent company that has been completely focused on fully automated acid concentrate preparation systems. Intermedt differentiates itself from its competition through superior technology and many patented features with the brand ECOMix. The ECOMix system is installed in many countries and in more than 150 renal care centers in Germany alone.

Today, B. Braun Avitum holds the global sales and distribution rights for ECOMix and ECOCart. As a knowledgeable and intimate partner, B. Braun Avitum offers a full line of dialysis products and services. Together with the ECOMix and ECOCart portfolio, B. Braun Avitum strives to offer the best possible system solution, by always focusing on the customers' key drivers: increasing patients' quality of life and reducing the total cost of ownership.



# ECOCart

## Cartridge for supplying dry acidic dialysis concentrates

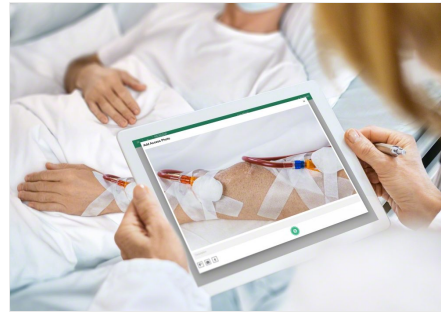
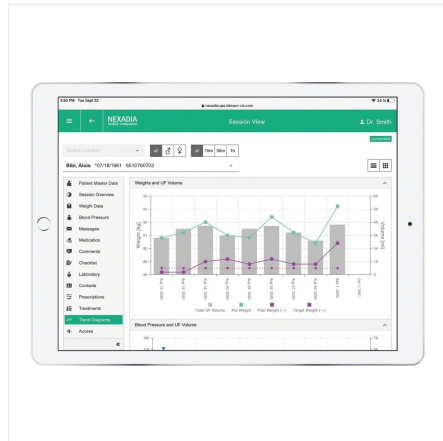


To Be Edited

ECOCart cartridges come on large rollers and can be moved easily; these reusable ECOCart means less waste and less environmental impact. Hin ECOCart ToGo is a single use cartridge, on a small wooden pallet. The improved design prevents damaging of mixing device, storage tanks and ECOCarts. The ECOCart's relatively low weight results in fast, easy and safe handling, for managing the stock or connecting to the ECOMix system. The ECOCart's smaller size reduces the storage space and the risk of damaging walls or doors in the warehouse compared to already diluted ready to-use concentrates in containers.

# NEXADIA® mobile companion

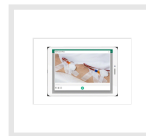
A touch-screen oriented web application to access health data on mobile end devices



Nexadia Mobile Companion

NEXADIA mobile companion

NEXADIA



The NEXADIA® mobile companion is a touch-screen oriented web application providing flexible access to health data on mobile devices.

- **Session viewer:** to keep track on mobile devices of all ongoing treatments and access details about individual treatment sessions
- **Photo documentation:** to take pictures of patient profiles or images of the fistula and store them directly in the patient record of the application
- **Trend diagrams:** to visualize key health parameters to help nurses and physicians to consult these data with patients during treatment
- **Hybrid data model:** an all in one application to access the live treatment data as well as data from previous sessions



# NEXADIA® Sync7

## Synchronizing Dialog machine data via HL7 FHIR with 3<sup>rd</sup> Party Systems



### Nexadia Sync7

NEXADIA® Sync7 is an uni-directional solution to interface Dialog HD machine data to third-party systems using the HL7 FHIR standard.

Less complex: NEXADIA® Sync7 provides one interface solution for both machines, Dialog+ and Dialog iQ.

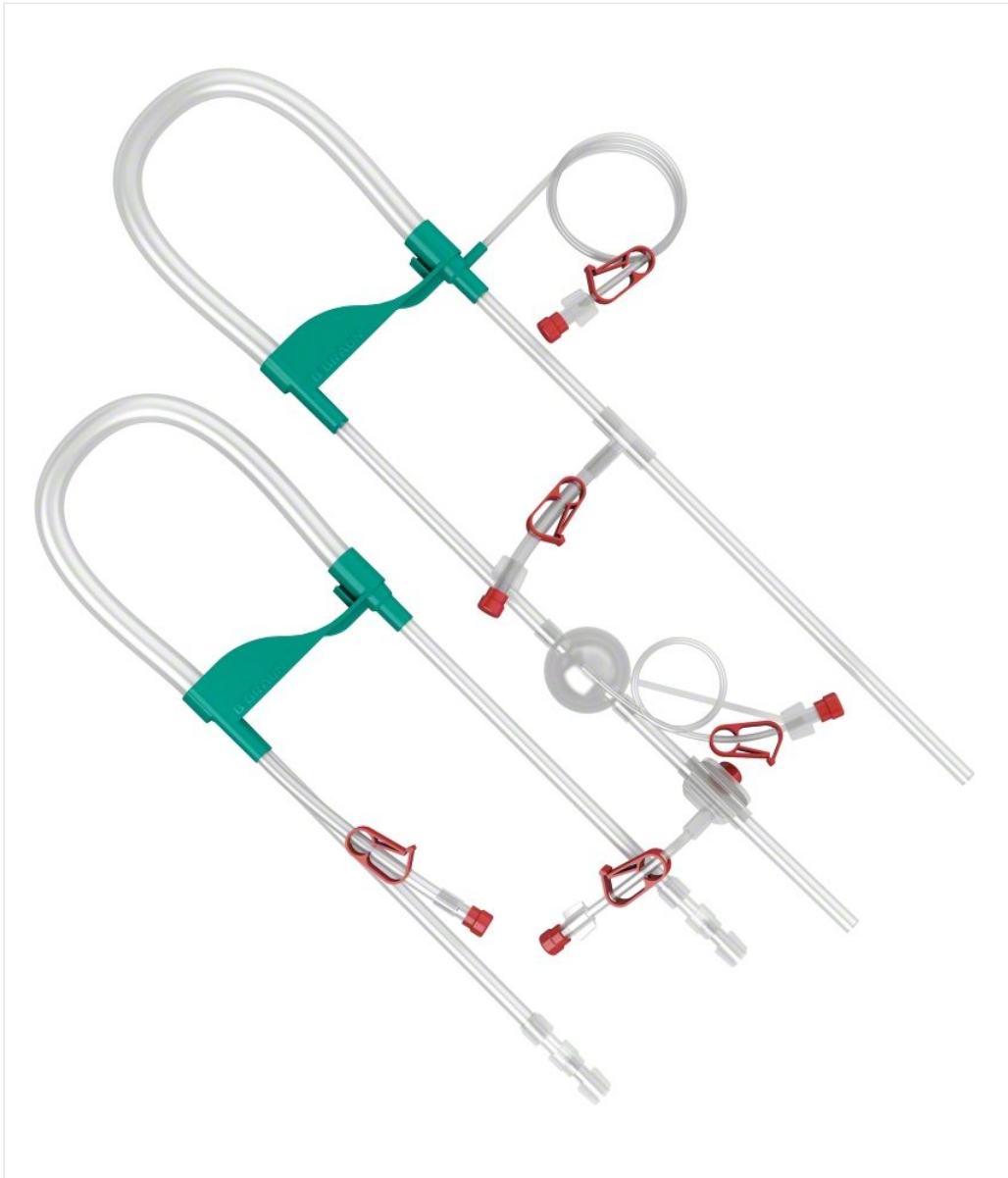
Standardized: Simplified interface development and maintenance using the HL7 FHIR standard.

Optimized workflow: Automatic patient identification at the machine via patient ID cards, plus optional prescription upload from the patient card applies to Dialog iQ only.

Future-oriented: NEXADIA® Sync7 supports cyber security technology for data decryption

# DiaStream®iQ

## A/V Bloodline Systems for Dialog iQ



DiaStream iQ

Usability is more than just ease of handling of one or two components. It is the entire user experience of the dialysis system. Our bloodlines are designed by experts in the field for optimal performance with our machines, for your long-term care and quality of life.

### RISK PREVENTION

- Risk of blood contamination in the machine is reduced with PODs (Pressure Oscillating Diaphragms)
- Automated loading of DiaStream iQ reduces risk of repetitive strain injuries



#### ENHANCED SAFETY

- PODs reduce blood-air contact and thus reduce clotting

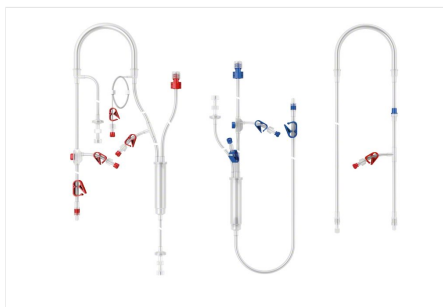
#### SIMPLIFIED PREPARATION

- DiaStream iQ Multiconnector saves time with automated loading and ejection of bloodline
- Reduced workload in setting up all therapies, especially single-needle

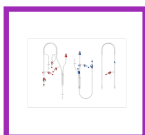
#### GOOD TO KNOW ...

- Less blood-air contact reduces the risk of clotting during therapy.<sup>1</sup>

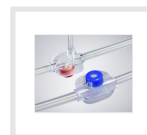
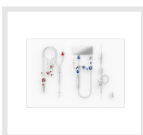
## A/V bloodline systems for HD and HDF double-needle therapy and HD single-needle therapies



DiaStream CLASSIC HDF



Bubble catcher



Bubble ca



In combination with our machines, dialyzers, concentrates and vascular access, our bloodlines provide you with a complete system for successful hemodialysis treatment. In the last years the dialysis therapy has focused more specifically on the clinical situation of patients with chronic renal failure, by promoting techniques and products designed as a global therapeutic system. Under this perspective, dialysis bloodlines have a key importance both for aspects of biocompatibility and of treatment safety and efficiency.

The usage safety and the efficiency of bloodlines are compulsory to guarantee the perfect performance of the dialysis treatment according to European standards and to nephrology guidelines.

To be used for different therapies on Dialog machines:

- HD double-needle
- HD Single-Needle Cross-Over
- HDF double-needle

Our product range provides a safe and reliable choice of models for the following equipment:

- Fresenius 2008-4008
- Gambro AK100-AK200
- Nikkiso DDB

The products are made with Medical Grade Plastic Material, the injection sites are Latex Free, the patient connectors are self-ejecting and all the bloodlines are sterilized by Radiation.



# OMNIset®

## Fully pre-connected Plug & Play set



OMNIset

OMNIset® is a pre-connected Plug & Play set designed to provide full flexibility for healthcare professionals to reduce preparation time and workload during the set-up, loading and priming process.

### Treatment Effectiveness

- One-way valves help to prevent risk of back flow and contamination
- Less than 200ml of extracorporeal blood volume for entire OMNIset® portfolio

### Therapeutic Flexibility

- The fully pre-connected OMNIset® and the easy step-by-step on-screen instructions make setting up the OMNI simple and fast.
- Auto-priming of only 10 minutes for CRRT modalities

### Handling & Design

- Fully pre-connected tubing set (including Integrated Warmer bag), color coded lines and connectors, with additional written indication on the Citrate & Calcium lines help to prevent mistakes during set-up

\*OMNIset® Set Version 3.00 (or higher)

## OMNIbag®

The OMNIbag®

- 7000 ml Effluent bag
- Additional option with drainage stopcock
- One-way valve designed to prevent risk of back flow or contamination

## Advantages

OMNIbag® with drainage stopcock is:

- Validated for 96 hours
- Only 1 minute to empty the OMNIbag®
- Designed to prevent the risk of bacteria transmission



# FULL FLEXIBILITY MEANS STABILITY.



Why settle for less? OMNI\* offers multiple CRRT and anticoagulation modes. With OMNIset you can switch between different therapies and dilution mode.



You get full flexibility and control

### Therapeutic Offering

SCUF

CVH (Pre - Post - Pre/Post - Post/Post)

CVVHD

CVVHDF

TPE

CO<sub>2</sub> removal

### Anticoagulation Modes

Heparin

Heparin

Heparin                      Citrate

Heparin                      Citrate

Heparin

Heparin

SCUF (slow continuous ultrafiltration) with heparin anticoagulation or with no anticoagulation  
CVVH (continuous venovenous hemofiltration) pre-dilution or post-dilution or pre-post-dilution  
or post-post-dilution with heparin anticoagulation or with no anticoagulation  
CVVHD (continuous venovenous hemodialysis) with heparin anticoagulation or regional citrate  
anticoagulation (RCA) or with no anticoagulation  
CVVHDF (continuous venovenous hemodiafiltration) post-dilution with heparin anticoagulation  
or RCA or with no anticoagulation  
TPE (Therapeutic Plasma Exchange)

# AS EASY AS 1, 2, 3 ...



1. Scan barcode and enter the fully pre-connected Plug
2. Plug the OMNI into the OMNI.
3. Load and prime automatically.

## OMNIset®\*

Product Brand name	Surface size
OMNIset	0.8m² - 1.2m² - 1.6m²
OMNIset Pro	0.8m² - 1.2m² - 1.6m²
OMNIset TPE	0.5m² - 0.7m²
OMNIset L validated for up to 96h	1.6m²
OMNIset Plus	1.6m²
OMNIset ECCO2R	1.6m²

\*OMNIset Set Version 3.00 (or higher)

## OMNIbag®

Product Brand name	Size
OMNIbag	7000 ml Effluent Bag standard
OMNIbag	7000 ml Effluent Bag with drainage function



Duosol®

Na <sup>+</sup>	K <sup>+</sup>	Ca <sup>++</sup>	Mg <sup>++</sup>	Cl	HCO <sub>3</sub> <sup>-</sup>	Glucose	Theoret. osmolarity mOsm/l
mmol/l	mmol/l	mmol/l	mmol/l	mmol/l	mmol/l	mmol/l	
140	0	1.5	0.5	109	35.0	5.6	292
140	2	1.5	0.5	111	35.0	5.6	296
140	4	1.5	0.5	113	35.0	5.6	300

Packaging type: 1 box contains 2 bags, pallet assembly: 50 boxes



B. BRAUN BICARBONATE CALCIUM FREE SOLUTION

Na <sup>+</sup>	K <sup>+</sup>	CA <sup>++</sup>	Mg <sup>++</sup>	Cl	HCO <sub>3</sub> <sup>-</sup>
mmol/l	mmol/l	mmol/l	mmol/l	mmol/l	mmol/l
136	4	0	0.75	116.5	25
136	2	0	0.75	114.5	25

Packaging type: 1 box contains 2 bags, pallet

CITRATE SOLUTION (CITRASOL 4%, 2 LITER)

Na <sup>+</sup>	Citrate		Theoret. osmolarity mOsm/l
mmol/l	mmol/l	pH	
404.6	136.4	~ 7	539.5

Packaging type: 1 box contains 5 bags



COMPOSITION OF READY TO USE SOLUTION

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