



# Product Catalogue

**Transfusion  
and Cell  
Technologies**

**ACHIEVE MORE**

# Product range

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## **Apheresis**

- Amicus Separator
- AmiCORE
- COM.TEC
- Solutions InterSol

## **Autotransfusion**

- CATS®mart

## **Donation**

- CompoLab TM
- CompoGuard®
- CompoCool®
- CompoSeal® Mobilea II
- CompoSeal® Universal
- CompoCouch SALSA
- Tube Stripper

## **Preparation**

- CompoSelect®
- CompoFlex®
- CompoFlow® Flexible and CompoFlow® Select
- BioR
- BioP
- CompoMat® G5 Plus
- CompoDock®
- Hematype®

# Product Overview

Fresenius Kabi's product portfolio along the blood journey

## JOURNEY OF THE BLOOD

RECEPTION



THERAPEUTIC APHERESIS



DONATION ROOM



COMPONENT PREPARATION



QUALITY CONTROL



STORAGE / DISPATCH ROOM





# Blood Journey

## Reception

### JOURNEY OF THE BLOOD

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COMPONENT PREPARATION



QUALITY CONTROL



STORAGE / DISPATCH ROOM



# Reception

## CompoLab TM

### CompoLab TM

Hgb measurement can be done by the use of CompoLab TM, a small, ergonomic and easy to use handheld hemoglobin analyzer

- HB measurement result within 2 seconds
- Long-lasting battery capacity
- Easy data transfer to the PC based Fresenius Kabi software "HB-Master" (optional)
- No calibration needed – minimal maintenance and cleaning
- No moving parts – robust for mobile use
- Reagent-free cuvettes with long expiration dating



# Blood Journey

## Donation Room

### JOURNEY OF THE BLOOD

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STORAGE / DISPATCH ROOM



### **Fresenius Kabi offers several products for donation:**

#### Devices:

- Donor chairs
  - CompoCouch®
  - Dacor Donor Chair
- Mixer
  - CompoGuard®
- Cooling devices
  - CompoCool® WB
  - CompoCool®

#### Disposables (Blood bag systems):

- Standard blood bag systems
  - Compoflex®
  - Compoflex® Basic
  - CompoFlow® Flexible
- In-line blood bag systems
  - CompoSelect® (WB or RCC)
  - CompoFlow® Select(WB or RCC)

# Donation

## CompoCouch SALSA®

### **CompoCouch SALSA®**

The new SALSA® chair models score the needs of modern blood donation and apheresis sites regarding donors comfort and safety

- SALSA® A1 - Compact and versatile for staff and donors
- SALSA® A2 - Basic chair for donation and apheresis
- SALSA® A3 - Advanced chair for donation and apheresis
- SALSA® A4 - Premium chair for donation and apheresis





# Donation

## CompoGuard®

### CompoGuard®

High sophisticated mixing balance

- Increased number of donations per fully charged battery
- Increased data management flexibility
- One further step towards paperless donation
- Comfortable working station

CompoGuard® Basic  
- Large inline tray  
- Safety clamp  
- Integrated lithium battery



CompoGuard® Data  
Basic CompoGuard device plus  
- bi-directional data transfer  
- DECT option  
- Gooseneck  
- USB Port



CompoGuard® Complete  
Our top model combines  
CompoGuard Data plus  
- sealing option



# Donation

## Compoflex<sup>®</sup>, Compoflex<sup>®</sup> Basic and CompoFlow<sup>®</sup> Flexible

- Donation can be performed in standard blood bags or in-line systems



Standard Blood bag systems without filters

- **Compoflex<sup>®</sup>**
- **Compoflex<sup>®</sup> Basic**



Blood bag systems with integrated leukocyte depletion filter

- **CompoSelect<sup>®</sup>**
- **CompoFlow<sup>®</sup> Select**

# Donation

## CompoCool® and CompoCool® WB

### CompoCool® and CompoCool® WB

Blood cooling during transport and storage



#### CompoCool®

- Safe and standardized cooling of whole blood at 20-24°C up to 24 hours
- Contributes to quality and standardization of blood component preparation



#### CompoCool® WB

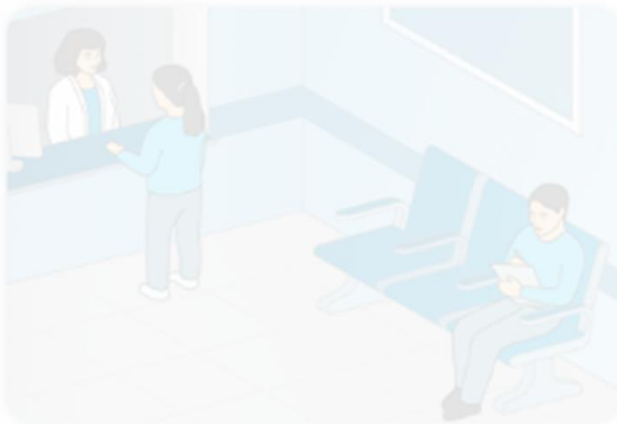
- Designed for ergonomic transportation
- Easy to clean
- Foldable trolley for a comfortable transport of up to 24 blood units

# Blood Journey

## Component Preparation

### JOURNEY OF THE BLOOD

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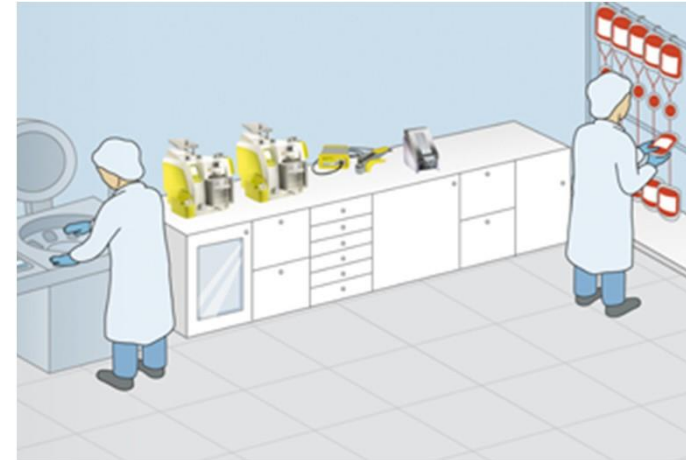
STORAGE / DISPATCH ROOM



# Component Preparation

## Fresenius Kabi Products

- Products that facilitate automatic separation, docking and sealing of blood components
  - CompoMat® G5 Revision II
  - CompoDock
  - CompoSeal Slim
  - CompoSeal Mobilea
- Blood bag systems previously used for donation are further used for component preparation
  - Standard blood bag systems:  
Compoflex®
  - In-line blood bag systems:  
CompoSelect® (incl. WB, RCC, PLT or PLS filter)
- If needed, stand-alone filters and transfer bags can be connected
  - BioP
  - BioR





# Component Preparation

## CompoMat® G5 Plus

### CompoMat® G5 Plus

Automatic opening system for all blood bags

- Compatibility with competitors blood bag systems
- Exchangeable breaker modules for standard cannula breaker and CompoFlow
- Compatibility with wide bore tubes
- Sophisticated software that generates an error log file and possibility to adjust sensitivity of detection A



# Component Preparation

## CompoFlow® System

### CompoFlow® Concept : Disposable and Device



# Component Preparation

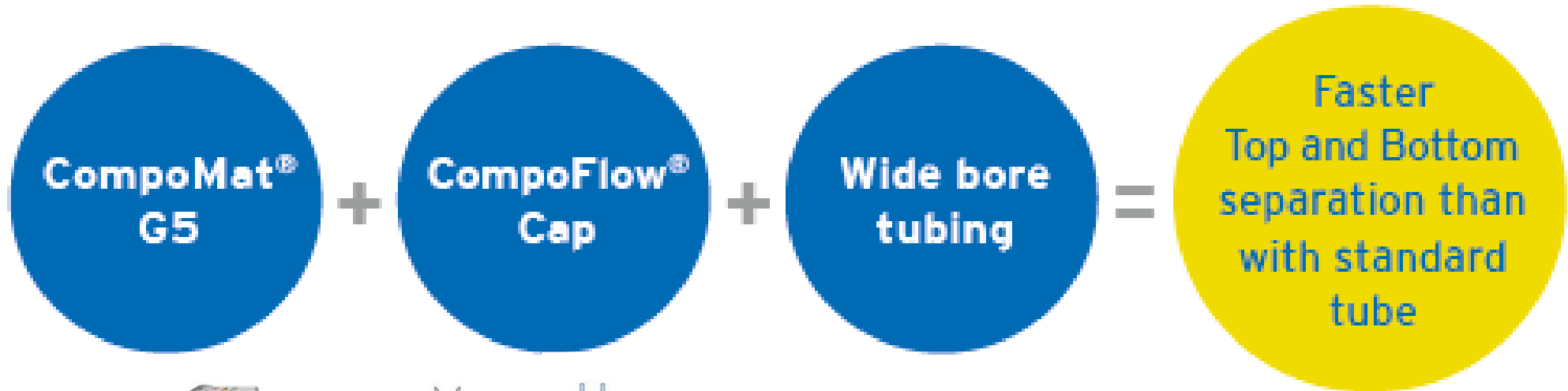
## CompoFlow® System

- Introduction of the CompoFlow® System on the automatic Separator CompoMat® G5 and on its blood bag systems
- Aim of the technology is to lead to the highest standard in blood component preparation by
  - **Increasing efficiency** with reduced separation time due to enlarged free lumen of open CompoFlow® Caps, the introduction of a wide bore tubing on the bottom of the primary Top and Bottom bag and a high level of automation
  - **Reducing hemolytic incidents** with enlarged free lumen of open CompoFlow® Caps and prevention of insufficiently opened bag breakers
  - **Reducing Repetitive Strain Injuries** with high level of automatic and standardized opening of CompoFlow® Caps

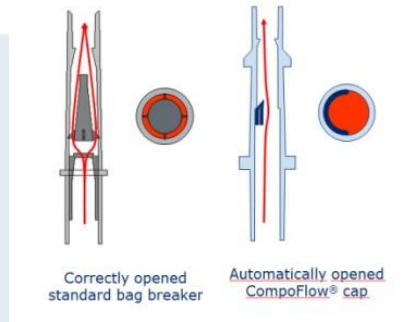


# Component Preparation

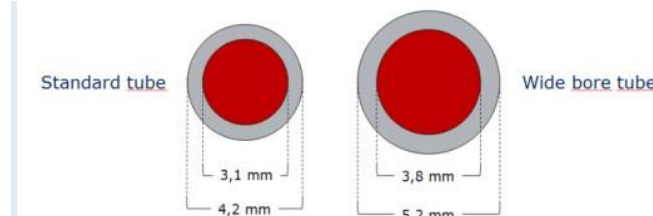
## CompoFlow® System



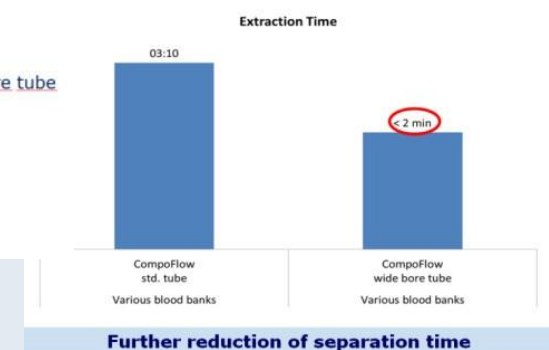
Increased effectiveness by reduced separation time and high level of automation<sup>1</sup>



Improved ergonomics by automatic opening of CompoFlow caps<sup>2</sup>



Wide bore tube: allows an average processing time of **≤2 minutes** because of faster RCC transfer<sup>3</sup>



<sup>1</sup> Compared to standard breakers

<sup>2</sup> Serrano et al., Transfusion 50:2240, 2010

<sup>3</sup> Sanquin Research, Depart. Blood Cell Research, data on file

# Component Preparation

## Features of WB and RCC filter

### ▪ Flexible WB in-line filter

- Flexible WB filter with high performance fiber
- Average filtration time <12 minutes<sup>1</sup>
- Stable performance in a wide range of conditions
- Less prone to blockages
- Minimum volume loss, average recovery 93%<sup>1</sup>



### ▪ Flexible RCC in-line filter

- Residual leukocytes <math>0.3 \times 10^5</math><sup>2</sup>
- Red blood cell recovery > 90%<sup>2</sup>
- Comprehensive portfolio including double filter in-line systems
  - RCC for buffy coat (BC) method
  - RCC for platelet rich plasma method
  - RCC + platelet filter
  - RCC + plasma filter





# Component Preparation

## CompoDock Plus

### CompoDock

Sterile connection device

- Connection of quality, reliability and ease of use with state of the art sterile connection of medical PVC tubing
- Patented technique enabling to make sterile connections without wafers
- Fully controlled sterile connecting process
- Highly efficient chain pooling method for buffy coat pooling
- Automatic documentation of the sterile connection process in terms of GMP, via DockMaster Net



# Component Preparation

## CompoSeal Slim

### CompoSeal Slim

Slim line desktop sealer

- Integrated spill protection during sealing process: cap closes after putting the tube in the sealing head and opens after sealing
- Detachable sealing head: ability to detach sealing head allows proper cleaning
- Ability of cascade sealing with up to 8 devices



# Component Preparation

## CompoSeal Mobilea II

### CompoSeal Mobilea II

Portable hand sealer

- Designed for portable use: low weight, robust metal housing
- High quality seals independent of the battery capacity
- Automatic adjustment of sealing time depending on tube thickness
- Approved for bedside sealing while donor is connected



# Component Preparation

## Stand-alones BioR and BioP filters

### BioR and BioP

Leukodepletion filter

- BioR: filtration of red cell concentrate
- BioP: filtration of platelets
- High filtration efficiency  $< 0.5 \times 10^5$  WBC/unit
- Suitable for filtration under gravity and in emergency cases with pressure up to 300 mm Hg (or 0.4 bar)
- User friendliness due to easy handling
- Time saving due to shortened filtration time
- Laboratory and Bedside configuration



# Apheresis & Autotransfusion

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## **Apheresis**

- Amicus Separator
- AmiCORE
- ACOM.TEC
- Solutions InterSol

## **Autotransfusion**

- CATS®mart



# Amicus Separator



Amicus is designed to make it easy to tailor procedures for Platelet Collections, Mononuclear Cell Collections, Therapeutic Plasma Exchange and Red Blood Cell Exchange

# Amicus

## **Major benefits of the AMICUS Separator – Platelets:**

- High collection efficiency yields multiple products per donor for the lowest-cost platelet production
- Automated integration of PAS (platelet additive solution) to the final platelet product
- Automatic calculation of product options with flexibility for operator adjustment
- Choice of double or single needle procedure
- Intuitive touch-screen
- Integrated tray for simple kit installation
- Kits sterilized using irradiation to avoid risk of exposure to residual ethylene oxide

## **Major benefits of the AMICUS Separator -Therapeutics (MNC/TPE):**

- AMICUS allows operators to select the start and end points of “harvest”, providing ultimate flexibility of cell product volumes and can limit cell collections to only targeted cells.

# Amicus

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## **Additional key features include:**

- Consistent conservation (sparing) of patient platelets
- Low extracorporeal volume - MNC (163 ml) and TPE (160 ml)
- Operator-selected maximum citrate return rate to patient
- Automated blood warmer tubing prime
- Kits sterilized using irradiation to avoid risk of patient exposure to residual ethylene oxide
- Automatic replacement fluid container switching
- “Prime and Go” feature
- Screen displays real-time fluid balance
- Summary screen gives detailed procedure overview, reducing calculations
- High MNC collection yields and plasma removal efficiency

# AmiCORE



AmiCORE Apheresis System is designed to simplify each step of the platelet collection process, allowing operators more time to focus on donors:

- Multiple dose platelets collection
- PAS (Platelet Additive Solution) procedure
- Concurrent plasma collection
- Simple data management

# AmiCORE

## **Designed for Donors – Donor comfort and safety is #1 priority**

- Donor management features provide blood centers with the flexibility to customize the platelet collection procedure to target a wide range of donors.
- Saline prime and infusion during procedure
- Built-in pressure cuff
- Donor indicator lights
- IFC (Intelligent Flow Control)
- Numerical flow rate control

## **Designed for Operators – EASY TO USE**

AmiCORE Apheresis System assists operators to spend less time on device to maximize daily productivity.

- Simplified kit installation
- Intuitive user interface with touch screens
- Ergonomic design – optimal centrifuge position
- Disinfection timer and venipuncture arm selection
- Tracked and recorded all the events and alerts



## Major benefits of COM.TEC are:

Broad range of therapeutic apheresis:

- Lymphocyte collection
- Red cell depletion and exchange
- White cell and platelet depletion
- Granulocyte collection
- Fully automated stem cell collection
- Plasma treatment with external devices; including absorber columns

Confidence in quality and performance

Excellent donor safety

Dual and single needle options for leukocyte-reduced platelet concentrates

Color displays



# Solutions

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## **InterSol**

Platelet additive solution

Major benefits of using InterSol:

- Increase of plasma volume availability for other purposes
- Compatible with pathogen reduction technologies
- Facilitates standardization

## **InterSol** Platelet Additive Solution

InterSol Platelet Additive Solution is a nutrient medium that replaces a portion of plasma used to store platelets collected with the Amicus Separator and AmiCORE Apheresis System.

Platelets stored in InterSol Solution contain ~65% less plasma than conventional platelets. Plasma replaced by InterSol Solution may be collected for transfusion

# Solutions

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## **Adenine Citrate Dextrose Formula A (ACD-A)**

- The Adenine Citrate Dextrose Formula A (ACD-A) is a sterile and non-pyrogenic solution intended for use with blood cell separators.

## **NS 1000ML (IP)-EH /NS 1000ML (FREEFLEX BAGS)**

- Sodium Chloride 0.9% solution is a sterile, nonpyrogenic solution in single dose containers which intended use includes:
  - For correction of water and sodium chloride loss
  - For short-term intravascular (within the blood vessels) volume replacement
  - As carrier for compatible drugs and electrolytes (salts)

# Autotransfusion : CATSmart



# Autotransfusion : CATSmart

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Fresenius Kabi introduces CATSmart. The unique continuous red cell separation process based on Continuous Flow technology is designed for recycling blood intra- and post-OR during cardiac, orthopedic or vascular surgery.

CATSmart is the only autotransfusion device on the market using Continuous Flow technology which guarantees an early access to RBC at any time with a reliable quality. CATSmart ensures clinical performance benefits and ergonomic benefits.

## **Clinical performance benefits:**

- Consistently high hematocrit
- Excellent wash out performance of albumin, potassium, heparin, free hemoglobin
- Complete elimination of non-emulsified fat
- Fastest processing time due to Continuous Flow technology

## **Ergonomic benefits:**

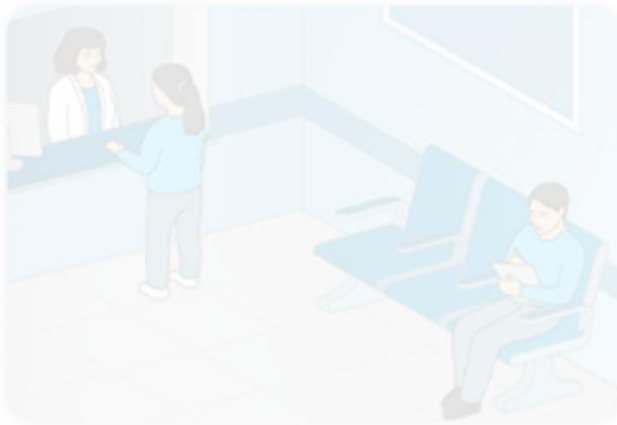
- Volume independent „one-fits-all“ washing chamber
- Unique height adjustment for better handling
- Autostart function
- Intelligent and silent modular vacuum source
- A colored intuitive touchscreen
- Efficient data transfer management

# Blood Journey

## Quality Control

### JOURNEY OF THE BLOOD

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STORAGE / DISPATCH ROOM



## **Hematype® Transfer Bags**

### Segment sampling

- Eliminates risks of using scissors and minimizes blood splashes
- Reduces sharp injuries and blood exposure
- Helps centers to comply with EU Directive 2000/54/EC



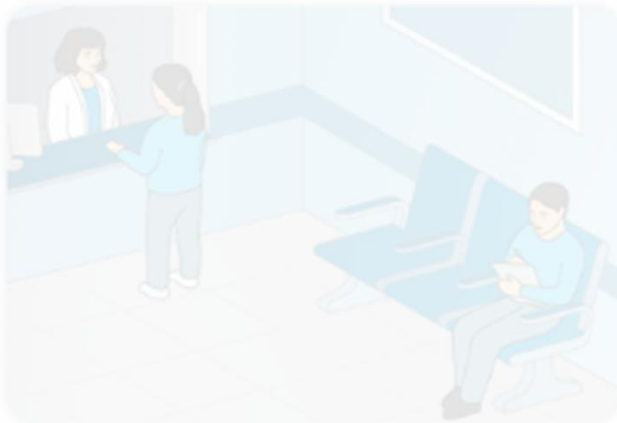


# Blood Journey

## Storage/Dispatch Room

### JOURNEY OF THE BLOOD

RECEPTION



THERAPEUTIC APHERESIS



DONATION ROOM



COMPONENT PREPARATION



QUALITY CONTROL



STORAGE / DISPATCH ROOM

