The eXtraordinarily innovative, intuitive and powerful ATS system
**Autotransfusion**

**A KEY ROLE IN AN EFFECTIVE BLOOD MANAGEMENT STRATEGY**

The risks and costs related to homologous blood transfusion and its constantly decreasing worldwide availability have been widely documented.

Many healthcare providers and hospitals are now developing a **Blood Management Strategy**, a multidisciplinary approach to optimize the use of blood products, aiming to **reduce the need for homologous blood, improve patient outcome and contain costs**.

One of the key elements for a complete blood management strategy is **autotransfusion**, involving the collection, processing, and reinfusion of the patient’s own blood that is lost during the peri-operative period at the surgical site.

Autotransfusion drives:

**Maximum safety**

It significantly reduces the demand for homologous blood and prevents the risks involved in its transfusion:

- Mistransfusion
- Transfusion Related Acute Lung Injury (TRALI)
- Systemic Inflammatory Response Syndrome (SIRS)
- Transfusion Related Immunosuppression (TRIM)
- Immunosuppression

**Significant cost reduction for the hospital**

It provides fresh, autologous, vital RBCs to the patient eliminating the costs related to bank blood transfusion:

- The average total cost of transfusing a unit of homologous RBCs is $1,158*
- No direct costs related to blood screening
- Indirect long-term costs reduction: several studies show that the reinfusion of RBC’s recovered with autotransfusion improves post-operative outcome, and decreases hospital stay and additional medical treatments

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* Shander, Aryeh, Hofmann Axel Et al. The true cost of red blood cell transfusions in surgical patients. 2008; Presented at the 50th Annual American Society of Hematology Meeting, The Moscone Center Poster Board III-127
The complete solution for blood salvage

For over 30 years, Sorin Group has treated more than 6.5 million patients with its ATS products. The experience and dedication towards research of innovative solutions allows Sorin Group to be recognized as a world leader in autotransfusion.

Sorin XTRA is the latest extraordinarily innovative, intuitive and powerful ATS system.

It is a compact, ergonomic and robust ATS device with an attractive design, developed by the same designers of Sorin S5 and C5 heart lung machines. It inspires to BRAT 2 and Electa, combining and improving their best features, and introducing further innovation, through S5 and C5-like design, graphic color touch screen user interface and advanced data management capabilities.
Sorin Group Family Design

With design characteristics similar to the world-leading heart lung machines Sorin S5 and C5, Sorin XTRA perfectly blends into the Sorin Group product portfolio assuring high reliability and durability.
The First Graphic Color Touch Screen user interface

The full-color LCD, TFT (8.4") with a large view area (172x130 mm) and the innovative touch screen technology allow optimal visibility of the information displayed and total control at your fingertips.

Taking inspiration from our world leading HLM machines S5 and C5, the XTRA user interface displays all the information you need by means of modular displets that can be opened or closed at your desire and offers complete control of the system throughout extremely intuitive and easy-to-navigate menu pages.
**Advanced Data Management**

Experience complete control over your data. From the tally screen you will be able to visualize case information at anytime, print a report, or download multiple cases on a USB memory stick.

- Internal memory capable of storing thousands of past cases
- USB ports for simultaneous download of multiple cases to be imported in Sorin ATS Data Board
- Integrated ink printer, producing a permanent case printouts, ensuring complete traceability
- RS232 ports for external PC connection
- Functional integration with S5 and C5 thanks to Sorin Connect

**ATS Data Board**

Sorin ATS Data Board is the new PC based data management software that allows to store case files downloaded from Sorin XTRA autotransfusion system, easily consult and track case data and create user defined reports.

ATS Data Board offers a series of easy and intuitive software solutions to trace autotransfusion patient’s case data, measure performance and use of autologous blood products, and help monitor the implementation of your blood management strategy.

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Sorin CONNECT is an innovative and intuitive Perfusion charting system focused on real time and retrospective calculations and trending tools to assist with data management during and after CPB.

Sorin XTRA can electronically link to Connect to integrate all Perfusion data into one case report.
**Dual sensor technology**

- The **Dual RBC detector technology** in Sorin Xtra is composed of two optical sensors allowing a high filling of the bowl and thus an excellent supernatant washout and high outlet haematocrit.
  
- The **Hct sensor** is an integrated, non-invasive, optical sensor providing information on RBC concentration of the inlet blood during Fill phase and outlet blood during the Empty phase.

- The **waste line color indicator** is an optical sensor providing on-screen information at-a-glance on the wash quality by a visual indicator.
Ergonomics

Special care was put in the design of the system ergonomics in order to improve interaction throughout all working phases and situations.

- **XTRA** has a small footprint that allows the machine to fit in narrow spaces.
- The four pivoting wheels coupled with the front and rear handles ensure high maneuverability of the system.
- The robust and transparent centrifuge lid protects the machine from any fluid spillage, helps reduce noise and allows complete visibility into the centrifuge.
- The huge storage capacity of the machine allows transportation for all the necessary disposable to start the procedure. The cart was designed to transport more than 6 liters of fluids and maintain stability.

Eg: 5 l of saline bags + 1 l of anticoagulant bags + 1 Bowl Set (or Reservoir)

- The IV poles offer several hooks for bags and also a compartment for storage of caps or pens.

(= with Xvac mounted)
Fast and Intuitive Setup

Experience the easy, fast and safe disposable setup. The newly designed XTRA top panel and disposables allow error proof setup, in a blink of an eye.

- The XTRA BOWL and the new patented centrifuge plate ensure easy 360° mounting
- The new centrifuge arm allow one-hand arm locking/unlocking
- The new cartridge and tubing design guarantees a straightforward setup, with lid-driven tubing positioning into the air sensor seat
Fully automated processing

1-Touch mode and Last Bowl function provide complete automation from the beginning to the end of the procedure.

1-Touch

- Automatic start at target volume in the reservoir
- Continuous processing of bowls in sequence
- Automatic stop when reservoir is empty

![Diagram of 1-Touch process]

No user intervention required

Last Bowl

- Continuous processing of bowls in sequence
- Automatic concentration, wash and empty
- Automatic RBC line emptying

![Diagram of Last Bowl process]

Safe management of bowl washing
Operating Protocols

Intra-operative Factory Protocols

Popt
Designed to obtain:
- Very high Hct, independently from inlet Hct*
- Excellent supernatant removal**
- Good processing speed**
Achieved by:
- Two step filling at different flow rates and automated stand-by
- Dual RBC detector technology for optimal bowl filling (active for XTRA Bowl 55 and XTRA Bowl 225)

Pstd
Designed to obtain:
- High processing speed (with XTRA Bowl 225)**
- Good hematocrit**
- Good wash quality**
Achieved by:
- One-step automatic filling
- Possibility to adjust flows (filling, washing, emptying)
- High wash and empty flows

Pfat
Designed to obtain:
- Removal of fat particles
- Excellent supernatant removal
- Good Hematocrit
Achieved by:
- Newly designed fat removal phase
- High wash flows

Post-operative Factory Protocol

Post-op
Designed to obtain:
- A configuration suitable for post-op applications
Achieved by:
- Activating the same settings of the Popt protocol
- Automatically switching to gentle aspiration with the XVAC post-op mode

Preoperative Sequestration Factory Protocol

The preoperative sequestration protocols enable the recovery of plasma and platelets from the patient whole blood into bags.

Sources:
** In vitro performance evaluation study with human blood 25% Hct with XTRA Bowl 225. The result are consistent also with the other bowl sizes. Data on file at Sorin Group.
Complete fat removal with the new Pfat protocol***
The newly developed Pfat protocol will effectively remove fat particles.

High RBC Hct and Wash Quality with Popt
The innovative RBC detector technology, combined with the new Popt factory protocol and disposable design.

- **Hct**
  - 60-65%

- **Time**
  - ≈5 minutes

- **Fat Particles Removal***
  - > 99%

- **Hct***
  - ≈50%

- **Heparin Removal Rate**
  - > 95%

- **Protein Removal Rate**
  - > 95%

- **Albumin Removal Rate**
  - > 95%

- **Potassium Removal Rate**
  - > 95%
Fast high volume processing with Pstd

Ready to meet your high volume challenges:
fast processing with the Pstd standard protocol,
turning into emergency protocol with only one touch.

** Hct**
≈60%

** Time**
Less than 4 minutes
Emergency ≈3 minutes

** Heparin Protein Albumin Potassium**

** Removal Rate**
> 92%

Sources:
** In vitro performance evaluation study with human blood 25% Hct with XTRA Bowl 225. The result are consistent also with the other bowl sizes. Data on file at Sorin Group.
*** "Fat removal during cell salvage – An optimized program in the XTRA® autotransfusion device" Timo Seyfried, MD, Michael Gruber, MD; Lilith Haas; Emil Hansen, PhD, MD 13th ECOPEAT Vienna - Austria 2013
Quiet, Powerful Vacuum

XVAC is a modular vacuum pump, designed to be extremely quiet and to deliver top performance and maximum flexibility by working as a standalone unit or fully integrated into the XTRA system.

When seated in its housing and connected to the system, Sorin XVAC can be activated and operated from a dedicated display on the XTRA user interface. When used standalone, the vacuum pump can be controlled from the XVAC panel.
Sorin XVAC guarantees incomparable flexibility functioning in two operative modes, Intra and Post delivering an optimized solution for perioperative blood recovery. Moreover, XVAC can be activated right after power-on, reacting promptly to critical emergency situations.

The vacuum power ranges from:

- -50 to -300 mmHg (Intra-operative mode - High vacuum capacity)
- -10 to -100 mmHg (Post-operative mode - Gentle aspiration for wound drainage connection)
# Technical Information

## XTRA

| Unit Dimensions | Height = 660 mm (1055 mm*) - pole lowered  |
|                | Height = 1585 mm (1980 mm*) - pole completely lifted  |
|                | Height = 835 mm (1230 mm*) - display lifted  |
|                | Width = 375 mm - (including the side hangers)  |
|                | Width = 800 mm - with poles completely open  |
|                | Depth = 500 mm - 680 mm including the front and rear handles  |

* = with cart.

| Cart dimensions | Height = 500 mm  |
|                | Width = 480 mm  |
|                | Depth = 595 mm  |

| Unit Weight | 37 Kg (81.4 LBS)  |
| Cart Weight | 22.5 Kg (49.5 LBS)  |
| Display Type | Graphic color LCD TFT 8.4” 172 mm x 130 mm (screen)  |
| Main Voltage | 230 V~ or 100-120 V (Power Supply)  |
| Frequency | 50 - 60 Hz  |
| Fuse Ratings | 2xT6.3 A  |
| Centrifuge Speed | 1500 ÷ 5600 rpm (steps of 100 rpm)  |
| Pump Speed | 25 - 1000 ml/min (adjustable)  |

## XVAC

| Unit Weight | 15Kg (33 LBS)  |
| Functioning Range | -50 to -300 mmHg (-6.6 kPa to -40 kPa) (steps of 10 mmHg [1.3 kPa]) – intra and pre-operatively |
|              | -10 to -100 mmHg (-1.3 to -13.3 kPa) (steps of 10 mmHg [1.3 kPa]) – post-operatively |
SORIN XTRA®

Disposable Offering

Sorin XTRA®

Disposable Offering

Disposable Offering
High Capacity and Filtration Quality

- 4-liter capacity
- Advanced, multi-layer filtration system, with:
  - Internal defoaming polyurethane layer (30 ppi)
  - Intermediate woven, non-woven filter (40 μm)
  - External screen (120 μm)

Easy and Safe Setup

- New locking mechanism to firmly secure the reservoir to the holder
- 360° reservoir rotation capability within the holder
- Separate holder available for use with IV pole and vacuum regulator

Clear All-Around Visibility

- Transparent, flat body to allow constant monitoring of the collected blood
- Transparent, flat lid to allow visibility inside the inner filter

Xres Blood Collection Reservoir

The reservoir which sets the standards of blood collection to the highest levels.
Broad Flexibility
- Three 1/4” suction ports, for the collection of blood both intra-operatively and post-operatively: 45° angled, to prevent occlusion from debris produced during surgery
- One 3/8” suction port, for intra-operative procedures where a 3/8” aspiration and anticoagulation line is used
- One filtered and one non-filtered luer lock port, for blood transfer or drugs administration

Safety Features
- Self regulated pressure relief valve
- Safe overflow level valve

Two configurations available
- XRES T Blood Collection Reservoir
  - Top outlet connection to the bowl
  - Quick reinfusion port for immediate transfusion of non-processed blood in case of extreme emergency
- XRES B Blood Collection Reservoir
  - Bottom outlet connection to the bowl
  - Pre-connected outlet clamp
  - Also Available with 120μm gross filter
Collection & Processing

Xtra Bowl

The most complete range of processing bowl sizes to face all operational situations

**Broad Flexibility**

<table>
<thead>
<tr>
<th>Xtra Bowl</th>
<th>Description</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xtra Bowl 55</td>
<td>The smallest bowl for minimal bleeding</td>
<td>Minimal Bleeding Orthopedic Surgery&lt;br&gt;Small Size Patients&lt;br&gt;Pre-operative Sequestration (PPP/PRP)</td>
</tr>
<tr>
<td>Xtra Bowl 125</td>
<td>The standard bowl for low bleeding</td>
<td>Orthopedic Surgery (Total Joint Replacement)&lt;br&gt;Obstetric Surgery&lt;br&gt;Pre-Operative Sequestration (PPP/PRP)</td>
</tr>
<tr>
<td>Xtra Bowl 175</td>
<td>The intermediate bowl for medium bleeding</td>
<td>High Bleeding Orthopedic Surgery (Revisions)&lt;br&gt;Low Bleeding Cardiac Surgery (Mini-Bypass)&lt;br&gt;Cardiovascular Surgery</td>
</tr>
<tr>
<td>Xtra Bowl 225</td>
<td>The largest bowl for high bleeding</td>
<td>Cardiovascular Surgery (Bypass, Abdominal Aortic Aneurysm)&lt;br&gt;Emergency &amp; Trauma&lt;br&gt;Transplant</td>
</tr>
</tbody>
</table>
EASY, FAST AND SAFE SETUP

- Innovative disposable design:
  - XTRA BOWL design for quick 360° snap-in mounting onto the centrifuge plate
  - One-hand mechanism for locking/unlocking the bowl to/from the centrifuge arm
  - Cartridge and tubing design, to ensure straightforward setup
  - Lid-guided tubing positioning into seat when closing the clamp lid
  - Automatic pump loading/unloading at the beginning/end of case

HIGH QUALITY WITH THE OPTIMIZED PROTOCOL

- Optimized protocol (Popt), to achieve high hematocrit, red blood cell recovery rate and waste contaminants removal rate with the XTRA BOWL 55 or XTRA BOWL 225

FAST PROCESSING WITH THE STANDARD PROTOCOL

- Standard protocol (Pstd), to achieve the fastest processing times (comparable to the Baylor Bowl 250ml) with the XTRA BOWL 225
Modular & All in One Solutions

Collection Set (TX, TX Cardio, BX or BX Cardio)
Provides XRES reservoir and related items to collect blood recovered from intra-operative field or post-operative drains

**Content**
- XRES T Blood Collection Reservoir (or XRES B Blood Collection Reservoir)
- AAL Aspiration and Anti-coagulation Line
- VEL Vacuum Extension Line
- Cardio Kit (only in Cardio configuration)

**Advantages**
- Modular solution where each item is packed and sterilized separately, allowing a cost effective stand-by strategy: collect first and process later
- Separate holder available to use XRES on IV pole and with vacuum regulator
- Available in standard and cardio configurations (with Cardio Kit)

**Indications**
- Standard configuration: orthopedic surgery, spinal surgery, other non-cardiac applications (e.g. cardiovascular, obstetrics, urology)
- Cardio configuration: cardiac applications

Procedure Set (TX Cardio or BX) (55, 125, 175 or 225)
Provides XRES reservoir, XTRA Bowl and all the necessary components to collect and process the blood recovered from the intra-operative field or post-operative drains

**Content**
- Collection Set (TX Cardio or BX)
- Bowl Set X (55, 125, 175 or 225)

**Advantages**
- All-in-one solution for blood collection and processing
- Suitable for all surgical conditions with 4-liter reservoir and 4 bowl sizes
- Integrated solution to connect the oxygenator to the XRES reservoir with Cardio Kit (only available in Procedure Set TX)

**Indications**
- Cardiac surgery
- Abdominal/aortic aneurysm
- Emergency and trauma
- Transplant
**Bowl Set X** *(55, 125, 175 or 225)*

Provides Xtra Bowl and related items to process the blood recovered from the intra-operative field and post-operative drains or separate hemocomponents in pre-operative sequestration procedures.

**Content**
- Xtra Bowl with pre-connected color-coded tubing and cartridge
- Pre-connected BRB1 Blood Reinfusion Bag (1 liter)
- Waste Bag X (10 liters)

**Advantages**
- Flexibility with 4 bowl sizes suitable for minimal, small, medium and high bleeding
- New bowl, tubing and cartridge design for easy, fast and safe setup

**Indications**
- Intra-operative and post-operative processing
- Pre-operative sequestration
**Cardiovascular Surgery**

**Cardio Kit**
Includes all the adaptors, components and lines to connect the oxygenator to the autotransfusion system to recover and process the blood during and post bypass.

**Tandem Reservoir “Y”**
Allows the connection of two XRES reservoirs to the XTRA system in procedures where large volumes of blood need to be recovered and processed.

**Orthopedic Surgery**

**Fluid Collection Bag for Orthopedics**
Designed to collect the blood lost during orthopedic operations, such as hip replacement/revision, and transfer it to the XRES reservoir through a preconnected aspiration and anticoagulation line. The 45 cm long adhesive strip suits any kind of wound size.

**4-Way Adapters*”**
Connect patient drain tubes of various diameters to the aspiration & anticoagulation line during post-operative blood collection. Available with luer-locks or with multidiameter adapters.

**Wound Drainage “Y” Connector**
Used to connect either one or two orthopedic wound drains (sizes 1/8”, 3/16” or 1/4”) to the suction assembly. Step-down “Y” connector with 1/4” capped connector. Available also with pre-connected aspiration and anticoagulation line.
**Pre-operative Sequestration**

**Sequestration Set X**  
Intended for pre-operative sequestration (PPP and PRP) with transfer bag technique. To be used in combination with a Bowl Set X.

**Miscellaneous**

**AAL Aspiration and Anticoagulation Line**  
Allows aspiration and anticoagulation of the blood coming from the operative site, collecting it into the XRES reservoir. A double woven non-woven layer protects the sterility when passing the line into the sterile field. Various diameters available: 1/4", 1/4" – 3/8", 3/8".

**BRB I Blood Reinfusion Bag**  
Designed to collect 1 liter of concentrated RBCs during blood salvage procedures.

**Waste Bag X**  
Used in connection with the Bowl Set X, it collects up to 10 liters of waste fluids during processing.

**Goccia Filters**  
Designed to remove microaggregates and protect the patient pulmonary micro-circulation.

*not available in US and Japan*
Clinical Applications

SORIN XTRA®

Clinical Applications
**Clinical Applications**

**Interventions**
- Concentration of residual extra-corporeal circulation volume during/after bypass
- Mini Bypass
- Off-Pump
- Valve Replacement
- Surgical Repair of Great Vessels
- Suction Blood Washing

**What you need**
- Procedure Set or Collection Set (TX Cardio or BX Cardio) + Bowl Set X
- 20/40µm Microaggregate Goccia Filter*

*not for US and Japan

**Sorin Xtra Advantages**
- S5- and C5-like touch screen user interface, ensuring a straightforward learning curve for all operators already familiar with Sorin Group heart-lung machines
- Functional integration with S5 and C5 through Sorin Connect Perfusion Charting System
- High quality or fast processing by simply selecting the appropriate protocol, either the optimized protocol (Popt) or the standard protocol (Pstd)
- Cardio Kit, for direct access to the oxygenator during and after bypass
- Broad spectrum of bowl sizes, to address different levels of bleeding
**Interventions**
- Cardiovascular Surgery
- Organ Transplant
- Trauma Surgery
- Obstetric Surgery

**What you need**
- Procedure Set or Collection Set (TX or BX) + Bowl Set X
- 20/40µm Microaggregate Goccia Filter*
- Additional Components:
  - Tandem Reservoir “Y”
  - BRB1 Blood Reinfusion Bag
  - Waste Bag X

*not for US and Japan

**Sorin Xtra Advantages**
- Live on-screen indication of critical data: volume and hematocrit of the fluid collected from the field, as well as of the red blood cells recovered after processing
- Powerful and silent blood aspiration with the integrated Xvac vacuum pump
- Immediate aspiration, independent from the Xtra system boot-up time, by powering Xvac on from the control panel
- Fast processing with the standard protocol (Pstd)
- Dedicated Emergency button available in all screens to face critical situations
- Bowl Set X/225, to meet high volume challenges
**Orthopedic Surgery**

**Interventions:**
- Primary Hip and Knee Replacement
- Hip and Knee Revision
- Spine Surgery

**What you need:**
- Procedure Set or Collection Set (TX or BX) + Bowl Set X
- 20/40µm Microaggregate Goccia Filter*
- Additional Components:
  - Intra-operatively: Fluid Collection Bag for Orthopedic
  - Post-operatively: 4-Way Adapter* or Wound Drainage “Y” Connector

*not for US and Japan

**Sorin Xtra Advantages**
- Option to mount the Xres reservoir on an IV pole by means of the separate holder, and connect it to the Xvac vacuum pump used in stand-alone mode, to easily move between ICU beds when collecting blood from post-operative wound drains
- Reduced footprint, to allow processing of the blood collected post-operatively from wound drains also in the narrow spaces of the ICU
- Dedicated post-operative protocol (Post-Op), assuring the same high quality setting of Popt protocol and turning the Xvac into a gentle mode to be safely connected to wound drains
- Dedicated fat protocol (PFat) assuring complete removal of lipid particles
- Modular disposable solutions, to allow collection first and process when enough blood has been shed
- Small to intermediate bowl sizes, to face minimal bleeding orthopedic surgery as well as joint replacements and revisions
**Pre-operative Sequestration**

### Interventions:
- All cases where bleeding may occur during the post-operative course

### What you need:
- Bowl Set X
- 20/40µm Microaggregate Goccia Filter*
- Additional Components:
  - Sequestration Set X

*not for US and Japan

### Sorin Xtra Advantages
- Full on-screen description of the actions to be performed, to guide the operator throughout the entire procedure
- Broad spectrum of pre-operative sequestration protocols:
  - PPP (for collection of platelet poor plasma in a single bag),
  - PRP1 (for collection of both platelets and plasma in a single bag)
  - PRP2 (for collection of platelet poor plasma in one bag and platelet rich plasma in a separate bag)
- Easy and quick conversion from pre-operative sequestration to intra-operative collection and processing by using the same Bowl Set X
## ORDER GUIDE

<table>
<thead>
<tr>
<th>IDENTIFICATION</th>
<th>CODE</th>
<th>DESCRIPTION</th>
<th>QUANTITY / BOX</th>
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<tbody>
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<td>Xvac Trap</td>
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<td>Xtra USB Memory Stick</td>
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</tbody>
</table>

**Type** | **Item** | **Description** | **Quantity / Box**
--- | --- | --- | ---
Procedure Sets | 04254 | Procedure Set Tx/55 | 3 |
|               | 04255 | Procedure Set Tx/125 | 3 |
|               | 04256 | Procedure Set Tx/175 | 3 |
|               | 04257 | Procedure Set Tx/225 | 3 |
|               | 04261 | Procedure Set Bx/55 | 3 |
|               | 04262 | Procedure Set Bx/125 | 3 |
|               | 04263 | Procedure Set Bx/175 | 3 |
|               | 04264 | Procedure Set Bx/225 | 3 |
| XRES Blood Collection Reservoirs, Collection Sets & Holders | 04260 | Collection Set Tx | 6 |
|               | 04266 | Collection Set Tx Cardio | 6 |
|               | 04265 | Collection Set Bx | 6 |
|               | 04267 | Collection Set Bx Cardio | 6 |
|               | 04268 | BF81 Blood Reinfusion Bag X, 1 Liter | 50 |
|               | 04272 | Xres Blood Collection Reservoir Holder | 1 |
| Bowl Sets | 04250 | Bowl Set X/55 | 6 |
|               | 04251 | Bowl Set X/125 | 6 |
|               | 04252 | Bowl Set X/175 | 6 |
|               | 04253 | Bowl Set X/225 | 6 |
| Sequestration Sets | 04016 | Sequestration Set X | 40 |
| Blood Sampling Kits For Quality Assurance | 04270 | Reservoir Outlet Clamp Xres B | 12 |
|               | 04271 | Reservoir outlet "Y" Xres B | 12 |
|               | 007016000 | Blood access sampling adapter | 25 |
| Wound Drainage Kits | 04128* | 4-Way Multidiameter Adapter | 20 |
|               | 04059* | 4-Way Adapter With Luer Lock | 20 |
|               | 007115000 | Wound Drainage ** Connector | 25 |
|               | 007116000 | Wound Drainage ** Connector With Dual Lumen Suction Line | 10 |
| Suction Assemblies | 04137 | AAL Aspiration And Anticoagulation Line ¾“ | 10 |
|               | 04196 | AAL Aspiration And Anticoagulation Line ¾”-3/8” | 10 |
|               | 04197 | AAL Aspiration And Anticoagulation Line 3/8” | 15 |
| Miscellaneous Processing Components & Adapters | 04269 | Waste Bag X | 10 |
|               | 04133 | Cardio Kit | 80 |
|               | 04028 | VEL Vacuum Extension Line | 50 |
|               | 04129 | Bag Adapter | 80 |
|               | 04152 | Fluid Collection Bag For Orthopedics | 12 |
|               | 04058 | Tandem Reservoir "Y" | 20 |
| Microaggregate Filters* | 09085 | 40Um Goccia Filter | 12 |
|               | 09086 | 20Um Goccia Filter | 12 |
|               | 09087 | 20Um Goccia Filter With Infusion Line | 6 |
|               | 09088 | 40Um Goccia Filter With Infusion Line | 6 |

*Not Available In US And J