Transfusion Technology

The state-of-the-art technology

for the collection, processing
and application of blood products

SARSTEDT
Ever since the company was established in 1961, progress has been a key motivation. Today, the Sarstedt Group is a global company with 13 production facilities in Europe, North America and Australia and a workforce of 2,500.

For decades, research and purpose-oriented product development using innovative technologies along with constant communication with the user have been decisive factors in establishing Sarstedt as a leading supplier of laboratory and diagnostic products.

Quality from one source – from the product idea to the customer

From product development and production to marketing and sales – all our services come from one source.

PRODUCT DEVELOPMENT at our R&D centre is based on collaboration with the users and state-of-the-art technologies – from the idea to the final product.

More than 90% of all our PRODUCTS are manufactured with high-tech equipment at company-owned production sites in Germany and abroad.

Our products are used directly with patients and must, therefore, meet a high QUALITY STANDARD. To comply with this requirement, we can rely on a progressive, integrated Quality Management System in accordance with EN ISO 9001 and EN ISO 13485.

International MARKETING & SALE of Sarstedt products is primarily ensured via our own 30 sales organisations. In addition, a worldwide network of dealers attends to our customers’ needs.

Our team of competent medical device specialists provides optimum support and SERVICE.
Safety-Lancet

- Sterile single-use product preventing the risk of needle stick injuries as the needle and blade are safely concealed in the lancet body before and after use
- Defined wings and guide notches in the lancet body ensure safe grip and convenient handling
- Range of needle sizes and blades with defined penetration depths for sampling from a finger and earlobe
- Primed and ready to use, enabling easy removal of the needle protector cap and activation of the firing button

V-Monovette®

- The vacuum blood collection system especially for the needs of transfusion medicine
- The V-Monovette® is available in the dimensions 75 x 13 mm and 100 x 15 mm
- Varied preparations and one individual choice of the colour code or the label
- A filling mark at the tube end enables the volume read-out during collection

Mobile donor seat/table

For safe and quick use during mobile blood donation

Mobile donor seat

- Relaxing lying position for the donor
- Quick and easy to set up and fold up
- Convenient transport dimensions
- Stainless steel frame

Mobile donor table

Side table for mobile blood donation

- Robust
- Foldable
- Easy to transport

TOPSWING

- The safe way of whole blood donation with efficient data management
- Innovative mixing motion
- Modular design
- Excellent Li-ion accumulator management
- Data transfer via USB stick, radio technology, RS 232 and ethernet
- Optionally available with sealing function
- Large colour graphic display

NEW TRANSWAAG PRO

- The tried and tested classic featuring state-of-the-art technology
- Low weight
- Large colour graphic display
- Robust aluminium casing
- Battery operation using Li-ion accumulator technology
- Donation data security via USB stick, radio technology, RS 232 and ethernet

NEW: Now available in 2 sizes!

55 x 40 x 73 cm or 95 x 45 x 73 cm
Sealing & Stripping

Tube stripper for blood bag tubing
- AST-2 Stripper options for blood bag tubing, with electric motor
  - Mains or battery operation
  - Switch for forward and reverse motion
  - Options available with and without auto-stop function close to the blood bag
  - Manual or bench top application with foot pedal

RF Sealers
MULTI SEALER instrument options for mobile or stationary blood donation and processing
- High-performance instruments with compact casing
- Extremely secure and wide seams
- Haemolysis-free sealing
- Made in Germany

MULTI SEALER MS 500M
- For stationary use, 100 – 240 VAC
- Weight of hand held sealer: 275 g
- Length of coaxial cable: 1.8 m

MULTI SEALER MS 500B
- Battery operated instrument for mobile use
- Rapid charge function
- Seams/battery change >500

MULTI SEALER MS 1000
- For stationary use, 100 – 240 VAC
- Integral sealing head
- Optical tubing identification
- Easy electrode replacement
- Display with touchscreen functions
- Maintenance and function menu
- Suitable as a stand-alone instrument or segmentation system

SEGMENTATION SYSTEM
- Additional functions (e.g. individual sealing, sealing direction)
- Exchangeable brackets for up to 8 individual instruments
- Adjustable tube segment length
- Central power cord with ON/OFF switch
- Overload protection

Platelet Storage

Agitators and incubators for platelet storage
Agitators
- Casing and racks from high grade steel
- Low-noise electric motor
- Motion detector
- Adjustable speed (preset configuration: 60 movements/min.)

Incubators
- Casing from high grade steel
- Completely insulated interior
- Doors with insulating glass and magnetic seal
- Agitator stops automatically when door is opened
- Control unit for temperature, door position and agitator movement
- Measuring agitator speed
- Adjustable alarm parameters
- Connection to central alarm system
- RS232 interface
- Graphic Data Logger
- Pedestal or fold rollers
- Connection for external temperature sensor

Flat bed platelet agitator TA-3 for about 24/8 bags
- Size: 448 x 250 x 350 mm (W x H x D)
- Power Supply: 230 VAC 50-60 Hz/20 VA
- Weight: 20 kg

Flat bed platelet agitator TA-2, for about 48/16 bags
- Size: 448 x 370 x 350 mm (W x H x D)
- Power Supply: 230 VAC 50-60 Hz/20 VA
- Weight: 24 kg

Flat bed platelet agitator TA-1 for about 96/32 bags
- Size: 850 x 400 x 350 mm (W x H x D)
- Power Supply: 230 VAC 50-60 Hz/20 VA
- Weight: 40 kg

Platelet incubator TI-0
- Incubator cubicle, +22°C, +/- 1/2°C,
- to accommodate 1 x agitator TA 2 or 1 x agitator TA 3
- Size: 592 x 792 x 645 mm (W x H x D)
- Power Supply: 230 VAC 50-60 Hz/705 VA
- Weight: 75 kg

Platelet incubator TI-1
- Incubator cubicle, +22°C, +/- 1/2°C,
- to accommodate 2 x agitator TA 2 or 1 x agitator TA 1
- Size: 1042 x 853 x 645 mm (W x H x D)
- Power Supply: 230 VAC 50-60 Hz/705 VA
- Weight: 95 kg

Platelet incubator TI-2
- Incubator cubicle, +22°C, +/- 1/2°C,
- to accommodate 4 x agitator TA 2 or 2 x agitator TA 1
- Size: 1042 x 1403 x 648 mm (W x H x D)
- Power Supply: 230 VAC 50-60 Hz/705 VA
- Weight: 156 kg

Platelet incubator TI-3
- Incubator cubicle, +22°C, +/- 1/2°C,
- to accommodate 6 x agitator TA 2 or 3 x agitator TA 1
- Size: 1042 x 1913 x 648 mm (W x H x D)
- Power Supply: 230 VAC 50-60 Hz/705 VA
- Weight: 210 kg
For the transport of blood products, adhering to prescribed transport temperatures

**TRANS Control 4°**
Double element for the transport of erythrocyte concentrates and whole blood at temperatures between 2°C and 8°C

**TRANS Control 4° Frame**
Expands the capacity of TRANS Control 4°

**TRANS Control 22°**
Double element for the transport of platelets at room temperatures (22°C)

**TRANS Control 22° Frame**
Expands the capacity of TRANS Control 22°

**TRANS Control 37°**
Double element for the transport of blood products at temperatures of 37°C

**TRANS Control 37° Frame**
Expands the capacity of TRANS Control 37°

**TRANS Control -18°**
Double element for the transport of frozen blood products at temperatures of -18°C

**TRANS Control -18° Frame**
Expands the capacity of TRANS Control -18°

**TRANS Control -30°**
Double element for the transport of fresh frozen plasma at temperatures between -30°C and -32°C

**TRANS Control -30° Frame**
Expands the capacity of TRANS Control -30°

**TRANS Control Transport Box**
- The 60 - 80 mm polystyrene insulation protects the contents from temperature impact, shock or damage
- For multiple use

**TRANS Control Mono Box**
Insulated neopor box for shipping
1 TRANS Control double element
- Can be extended to Mono/Triple Box

**TRANS Control Triple Box**
Insulated neopor box for shipping
3 TRANS Control double elements
- Can be reduced to Mono/Triple Box

**TRANS Control Mono/Triple Box**
Insulated neopor box for shipping
2 TRANS Control double elements
- Mono/Triple Box can be reduced to Mono Box and can be extended to Triple Box

**Covering Box for Mono/Triple Box**
Shipping cardboard container for the shipping of Mono, Mono/Triple and Triple Box
- Protects box for multiple use
- Labelling possible

**ThermoScan**
Convenient system for temperature-controlled transport of blood products

**ThermoScan Data Logger TM**
Temperature data logger tracks transport conditions
- Range of operation: -40°C to +85°C
- Dimensions: 17 mm diameter, 6 mm height
- Calibration certificate included

**ThermoScan Port Adapter**
9-pin adapter for serial PC COM port

**ThermoScan Reading Unit**
- Reads data from ThermoScan Data Logger
- Connects to port adapter

**ThermoScan USB Port Adapter**
For connecting ThermoScan reading unit to the USB port of a PC

**ThermoScan Software TRANSMED**
Software for configuration and evaluation of the ThermoScan Data Logger under Microsoft Windows® systems
- With graphical display and export function

**ThermoScan Set**
1 port adapter with 9-pin adapter for PC COM port
- Reader unit for connecting with port adapter
- ThermoScan software TRANSMED for configuration and evaluation of the ThermoScan Data Logger under Microsoft Windows® systems
- ThermoScan Data Logger TM

**ThermoScan Set USB**
Similar to ThermoScan Set but with 1 USB port adapter

**Transport Box**
For 4 TRANS Control double elements or 1 TRANS Control double element with 3 frames
- With extra insulation
- Lockable
- With plastic interior, lid, and carrying handle

**Covering Box for Mono/Triple Box**
Shipping cardboard container for the shipping of Mono, Mono/Triple and Triple Box
- Protects box for multiple use
- Labelling possible
The blood and infusion warmer SAHARA inline is a flow tempering system for the inline warming of liquid blood components and infusions during the ongoing transfusion/infusion. The heat is applied via an actively regulated aluminium heating element, which transfers its heat through the tube fixed in the groove into the contained liquid.

**Efficient**
- Excellent heat transfer due to a special conductive groove and a large contact surface at the heating element
- Can be set up from 37°C to 42°C

**User-friendly**
- Cone-shaped design of the heating element facilitates coiling of infusion tube
- Easily readable digital display, also from a distance
- Adjustable display brightness for different levels of room illuminations
- Rotatable universal clamp allows secure attachment to infusion stands or standard bars without additional use of tools
- Individually adjustable temperature unit (°C/°F)

**Safe**
- Tube fixing saves the infusion tube against tensile stress and prevents detachment of the heating element
- Simultaneous numerical display of actual and target temperature level
- Integrated system test

SAHARA-III

**SAHARA-TSC**

- Dry tempering device for standardised thawing of stem cell preparations
- Allows fast and temperature-controlled thawing of stem cell preparations
- Accessories:
  - Adaptation pressur TSC
  - Warming shell SAHARA-TSC
  - Module protocol printer
  - Paper for protocol printer
  - Ink ribbon for protocol printer

**SAHARA inline**

- Dry tempering device for fast thawing and heating of plasma and blood components
- Contamination risks by water-borne pathogens associated with water baths are prevented
- Active drying of bag surface provides hygienic conditions surrounding the blood bag
- Standardised thawing and warming process
- Contactless measurement of the blood component temperature by an infrared sensor
- Integrated system test to check device functions
- Temperature profile and system test can be documented using protocol printer

**Note on module change:**
Modular structure allows fast change between basic model and MAXITHERM
RadTag® Irradiation Indicator
- For semi-quantitative determination of irradiation intensity
- Options for gamma or x-ray irradiation
- The RadTag® Blood Irradiation Indicator is attached to the blood bag prior to placing the blood bag into the irradiation unit
- The initially white sensitive indicator area turns blue when exposed to ionising radiation
- A simple comparison with the 25 Gy and 50 Gy reference colours enables evaluation of the irradiation dose delivered to identify possible errors like inadequate or excessive irradiation

Transfusion filter
- Easy handling
- Free of latex and DEHP
- Suitable for pressure transfusion
- Filter sizes from 10 µm to 200 µm

TRANSMED 10
- With integrated cascade filter (polyester) 175 µm, 40 µm and 10 µm for effective separation of particles (e.g., fats) larger than 10 µm
- For the transfer of up to six blood units

TRANSMED 10 Ped.
- With integrated cascade filter (polyester) 175 µm, 40 µm and 10 µm for effective separation of particles (e.g., fats) larger than 10 µm
- For use with children
- With three-way LL faucet instead of tube with roller clamp
- PVC-free

TRANSMED 40
- With integrated cascade filter (polyester) 175 µm and 40 µm for effective separation of particles larger than 40 µm
- For the transfer of up to six blood units

TRANSFLOW
- With integrated fine filter (polyester) with a pore size of 40 µm
- For the transfer of one to three blood units

TRANSFLOW-N
- With integrated fine filter (nylon) with a pore size of 40 µm
- For the transfer of one to three blood units

Transfusion set 200 µm
- With integrated fine filter with a pore size of 200 µm
- For the transfer of generally no more than one blood unit

Laboratory Products & PCR Products

MegaBlock® 96 Well 1.2 ml / 2.2 ml
- Each well 100% leakproof tested for improved safety
- Ideally suited for long-term sample storage
- Solvent resistant to DMSO (only polypropylene block)
- Square wells with round bottoms and alphanumeric coordinates
- Free from human DNA, RNase/DNase, endotoxins

Multiply® PCR plates
- Rapid temperature transfer due to thin-walled construction of wells
- Sealable with heat-resistant highly transparent tape
- Black alphanumeric coordinates for easy well identification
- Certified by the “PCR Performance Tested” quality symbol: Free from human DNA, DNase/RNase and PCR Inhibitors

Biosphere® Pipette tips with filter
- Maximum biological purity thanks to the special production process: free from DNA, RNase, ATP and pyrogens
- Batch-specific certification is available upon request
- Each tip box is additionally and aseptically protected in a special sterile bag packaging
- Easy opening of bag packaging without aid via notch at short bag side

Tube Segment Opener
- Safety and hygiene in your cross-matching laboratory
- Easy access to tube segment samples
- Minimises risk of contamination
Sample Preparation & Archiving

DC 1200
Automatic decapping of tubes in linear analyser racks
- Minimises the risk of exposure
- Prevents repetitive strain injuries (RSI)
- For all tube diameters from 11 to 16 mm, 65 to 100 mm long
- Available for many linear racks
- High throughput of up to 1,200 tubes/h

RC 1200
Automatic recapping in linear analyser racks for archiving
- Minimises the risk of exposure
- Prevents evaporation and sample contamination
- Saves labour time
- Archiving cap fits any tube diameter from 13 to 16 mm
- Ensures automated re-processing
- High throughput of up to 1,200 tubes/h

DC/RC 900 Flex
Pre- and post-analytics in one compact system
- ID, Decapper, Sorter and Recapper in one unit
- Retrofitting of decapping and recapping module is possible
- Compatible with most racks or carrier types
- Online or offline operation
- Processes all tubes in a mixed operation
- Can be customised to sort by tube type, material etc. and to load archiving racks

HSS
High Speed Sorter for pre- und post-analytics
- ID, Decapper, Sorter and Recapper in one unit
- High throughput of up to 1,200 tubes/hour
- Online or offline operation
- Processes all tubes in a mixed operation
- Compatible with most racks or carrier types
- Retrofitting of individual features is possible
- Can be customised to sort by tube type, material etc. and to load archiving racks

International Marketing & Sales

The SARSTEDT Group markets and sells its comprehensive product range worldwide through its own 30 marketing organisations and an extensive network of authorised dealers. This global market presence constitutes an ideal basis to enable immediate and competent customer care directly on site.
If you have any questions, we’ll be happy to help!
Visit our website: www.sarstedt.com

If you have any questions:
We will gladly assist you!