Veeva Vault

Electronic Certificate

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Certification Statement

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White Blood Cell Depletion and Platelet Depletion

Advancing therapeutic apheresis and cell collections to the next level of patient care

Bringing you choice and precision

Whether you need to perform a white blood cell (WBC) or a platelet depletion procedure, the advanced Spectra Optia system is designed to provide choice and precision. With flexible control over collection preference, packing factor, and collect pump flow rate, you can optimize each procedure.

Procedure and System Highlights		
Procedural flexibility	Versatile software is designed for a wide range of device interaction preferences and operator skill levels	
Depletion efficiency	Maintains efficiency across the range of inlet pump flow rates by automatically adjusting collect pump flow rate	
Choice of replacement fluids	Delivers a variety of replacement fluids (fresh frozen plasma, saline, albumin, red blood cells [RBCs], or custom fluids) to meet specific patient fluid requirements	
Integrated fluid balance management	Allows you to target a specific fluid balance without performing manual calculations	
Intuitive hydroxyethyl starch (HES) option	Establishes the appropriate packing factor automatically, based on the use of starch	
Procedural automation	Calculates collect pump flow rate automatically based on the patient cell count you enter Allows you to spend more time with patients	
Intuitive graphical user interface	Streamlines your procedure management with touch-screen instructions and simple data entry	
Automatic recovery	Maintains your targeted collection preference during flow rate interruptions Recovers from power failures at the point where the power failed	



How it works

The performance you expect

The Automated Interface Management (AIM) system provides continuous interface monitoring, interpretation, and adjustment for an efficient WBC or platelet depletion.

- Monitors the collect port and interface position up to 25 times per second with a resolution of approximately 10 microns
- Interprets interface information using a patented optical detection system
- Adjusts the pumps and valves to manage the interface position and efficiently remove the targeted components

Continuous processing

Whole blood enters the channel

- WBC depletion low packing factor and channel design allow for the separation of WBCs (with or without the use of HES)
- Platelet depletion high packing factor and channel design allow for the separation of platelets

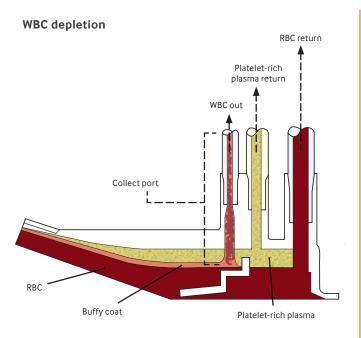
Interface is established

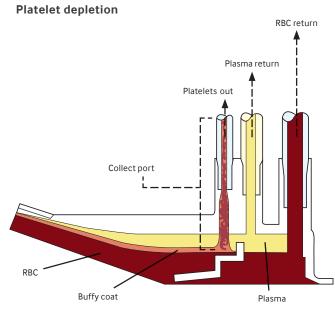
- AIM system quickly establishes the interface at the collect port
- Buffy coat accumulates
- AIM system detects the presence of cells in the collect port and automatically adjusts the plasma pump flow rate to optimize the collection

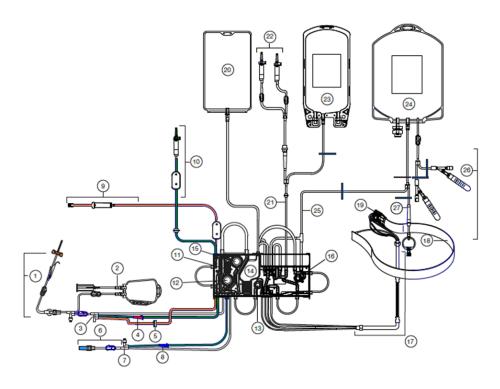
RBCs and plasma are pumped back to the patient

Targeted cells are continuously pumped into the collection bag

• You may monitor and adjust the depth at which the cells are collected within the buffy coat layer based on the desired hematocrit of the collected product







- 1. Inlet line
- 2. Diversion bag
- 3. Inlet line manifold
- 4. Inlet saline line clamp (red)
- 5. AC check valve
- 6. Return line
- 7. Return line manifold
- 8. Return saline line clamp (blue)
- 9. Anticoagulant (AC) line (orange)
- 10. Saline line (green)
- 11. Inlet line trap
- 12. Inlet pressure sensor diaphragm
- 13. Centrifuge pressure sensor diaphragm
- 14. Reservoir
- 15. Return pressure sensor diaphragm
- 16. Collect pressure sensor diaphragm
- 17. Centrifuge loop
- 18. Channel
- 19. Connector
- 20. Vent bag
- 21. Plasma line/Replace line
- 22. Spikes for replacement fluid (white)
- 23. Plasma bag
- 24. Collection bag
- 25. Collect line
- 26. Sample bulb assembly
- 27. Accessory line

ECV	Typical ECV is 253 mL, maximum ECV is 297 mL with full reservoir
Single set, multiple protocols	Performs WBC and platelet depletions on the same tubing set used for granulocyte collections
Functionally closed	Reduces the risk of microbial contamination in the collected product
Compact packaging	Minimizes the space required for storage
Color-coded components	Simplifies setup and operation

Working with you

Every interaction we have with you is important. By fostering open and ongoing relationships, we bring more value to you and the patients we're all focused on serving.

Even after the technology is in place, we continue to serve you with:

- Education and training
- Technical support
- Clinical and scientific support
- Customer support
- User groups and professional networks

Not for distribution in the U.S. and Canada.



Terumo Blood and Cell Technologies is a medical technology company. Our products, software, and services enable customers to collect and prepare blood and cells to help treat challenging diseases and conditions. Our employees around the world believe in the potential of blood and cells to do even more for patients than they do today. **TerumoBCT.com**

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