

# Cell Saver® Elite®

## Autologous Blood Recovery System

Maximize **Patient Safety**

Improve **Outcomes**

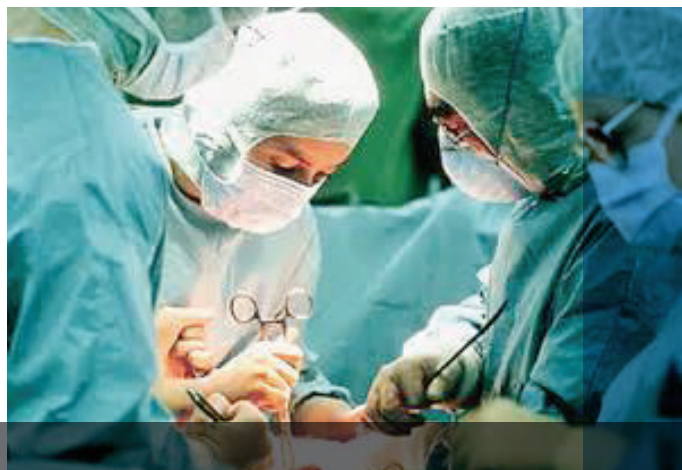
Optimize **Performance and Ease-of-Use**



# Cell Saver® Elite®

## World Class Autologous Blood Recovery System

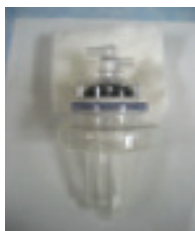
The Cell Saver Elite System is intended for surgeries such as CABG, valve replacement, trauma, transplants, orthopedic, and other procedures in which medium to high blood loss occurs. With its ability to deliver high hematocrit and remove nearly all traces of undesirable components, the Cell Saver Elite is a critical tool in your efforts to avoid unnecessary allogeneic transfusions while eliminating the costs related to blood bank transfusion.



## Cell salvage to avoid allogeneic transfusions

### High Quality Red Blood Cells (RBC)

- |   |      |
|---|------|
| ■ Hematocrit (Hct) level                            | >40% |
| ■ RBC recovery                                      | >90% |
| ■ Washout performance                               |      |
| • Albumin removal                                   | >95% |
| • Free Hemoglobin removal                           | >95% |
| • Heparin removal                                   | >95% |
| ■ Latham Bowl and blow-molded separation technology |      |
| • Processing bowl volume options:                   |      |



70 mL



125 mL



225 mL



FDA cleared to wash a partially-filled bowl, allowing for maximum reinfusion of RBC's



Data on file at Haemonetics Corp.  
TP/TR-CLN-100177, TP/TR-OTH-100167,  
TP/TR-OTH-100049, TP/TR-CLN-100268

# SmartSuction®

## Surgical Blood Loss Management System

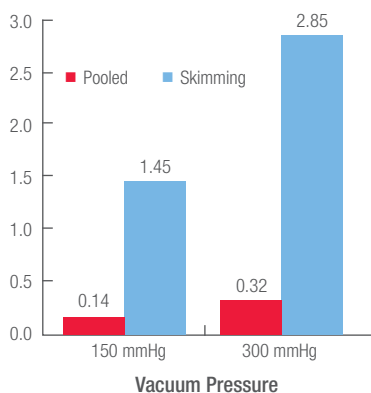
### On-board proprietary SmartSuction technology to reduce hemolysis



Haemonetics' SmartSuction is an autoregulating vacuum source. By integrating this technology into our Cell Saver® Elite® System you are able to increase the opportunity to reinfuse patients with a greater number of viable red blood cells (RBC's).<sup>1</sup> With a maximum pressure of -150mmHg, fluid and debris are evacuated quickly. When skimming, SmartSuction monitors air flow in the aspiration line and automatically increases or decreases vacuum levels to evacuate blood efficiently, but gently to help save and protect RBC's for reinfusion.

- Protects RBC's while maintaining optimal suction
- Significantly reduce hemolysis<sup>1</sup>
- More accurate and reliable than wall suction

The American Association of Blood Banks (AABB) recommends using suction with a maximum vacuum level of -80 to -120mmHg to avoid hemolytic stress and subsequent red cell lysis.<sup>2</sup> Safeguarding RBC's becomes more challenging while skimming in shallow pools of fluid because air is suctioned along with blood. Studies have shown that hemolysis increased when blood mixes with air and at greater suction pressures.<sup>3</sup>



Gregoretto et al. *Transfusion* 1996;36:57-60

Wall suction is often unreliable and insufficient. Even when a gauge indicates adequate suction, actual vacuum levels could be lower due to a kinked tube, multiple ORs relying on a single suction source, or inaccurate calibrations. Evacuation at the site can be slow and frustrating, and potentially detrimental to the patient if fluid obscures an injury or pathology.

A manual suction option is also available with the Cell Saver Elite System to meet specific user needs. Following AABB standards for Blood Recovery and Reinfusion in Surgery and Trauma is recommended.<sup>2</sup>

1. Elkin KR, Yazer M, Kameneva M, Walters J. *Transfusion* 2007;47(11):20A-21A (DR107247)

2. AABB Guidelines for Blood Recovery and Reinfusion in Surgery and Trauma; 2010; pg 2

3. Gregoretto et al. *Transfusion* 1996;36:57-60 (DR107498)

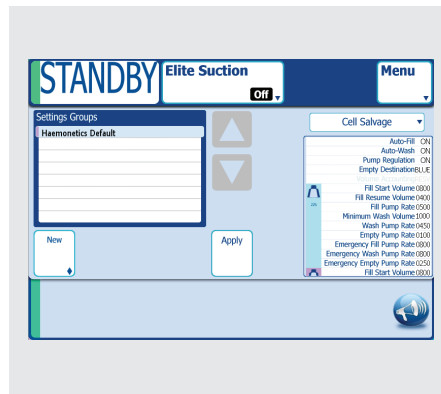
# Focus on Quality and Ease-of-Use

Since the introduction of our cell salvage technology in 1976, Haemonetics has been the pioneer of intraoperative cell salvage. The Cell Saver® Elite® Autotransfusion System is designed with the input of our customers to improve ease-of-use and meet hospitals' evolving needs while maintaining our reputation for reliable, consistent quality.



## User-friendly, full color touch screen

- Intuitive graphics for quick and easy fingertip control
- Help and tutorial support is always at the user's fingertips
- Color coded 360° viewable Procedure Status Beacon indicating immediately when action is required



## Flexible programmable parameters to meet your unique surgical needs

- Intuitive and simple programming
- Flexible options to define preferred protocol
- Easily access saved setting groups



## Easy and intuitive disposable set-up

- Cell Salvage and Sequestration sets are color coded for ease-of-use
- Single barcode scanning for all disposable sets
- Multiple bowl volume options and packaging configurations for cell salvage

## Secure, data collection, management and transfer capabilities

- Capture and store up to 100 procedures
- Track and trend procedure data effortlessly with procedure records downloaded directly to your PC
- Technical data downloads can be accessed for analysis and best practice sharing

## Easy to transport between OR's

- Smaller footprint, light weight and portable
- Extra-large base bin for storage
- Durable casters with easy on/off locks

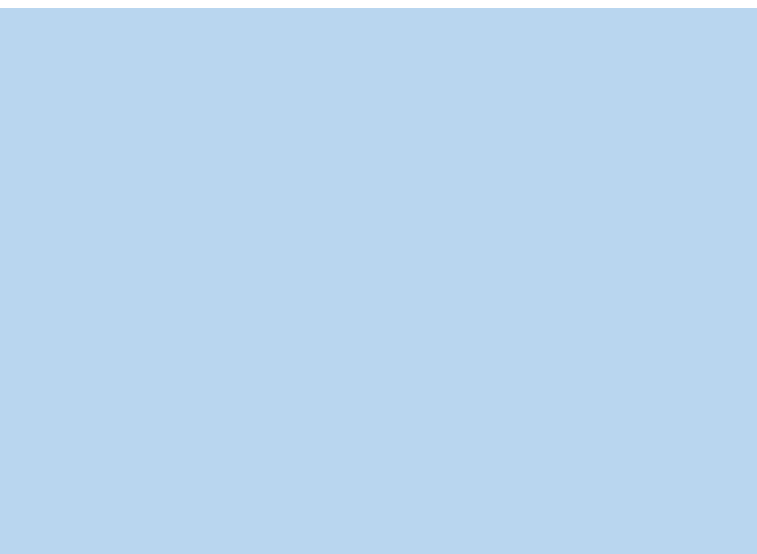


## Experience reliable, proficient and accessible service

- Global presence for 40+ years servicing the hospital, plasma, and blood center communities
- Knowledgeable Clinical Consultant team provides hands-on training and support
- Hotline support provides access to our team of experts for immediate troubleshooting
- Committed and accessible Field Service staff to avoid equipment downtime

## Specifications

Machine	Height: 16.5 in (41.9 cm), Width: 11.75 in (29.8 cm) Depth: 21.5 in (54.6 cm)
Machine with cart	Height: 72 in (182.9 cm) poles extended, 48 in (121.9 cm) poles down Width: 21 in (53.3 cm), Depth: 26.5 in (67.3 cm)
Weight of machine	< 56 lbs (25 kg)
Weight of cart	< 40 lbs (18 kg)
Voltage	100–240 VAC $\pm$ 10%
Pump speed	0–1000 mL/min (adjustable)
Centrifuge speed	Latham bowl: 5650 rpm Blow-molded bowl: 7500 rpm Sequestration: 2050-5650 rpm (adjustable)
Fuse rating	100–240V: T3.15A250V
Operating frequency	47–63 Hz
Laser classification	Class 3R laser product
Power cord length	16 ft (4.9 m)
Certifications	ETL listed



## Ordering Information

Description	List Number	Quantity per Case
Cell Saver® Elite® System	CSE-E-IE	1
Cell Saver Elite Cart	CSE-EA-1000	1
Cell Saver Elite Fast Pack (225 mL, 205, 208, HAR-A-1000)	CSE-FP-225V	4
Cell Saver Elite Fast Pack (225 mL, 220, 208, HAR-A-1000)	CSE-FP-225F	4
Cell Saver Elite Fast Pack (125 mL, 205, 208, HAR-A-1000)	CSE-FP-125V	4
Cell Saver Elite Processing Set (225 mL)	CSE-P-225	8
Cell Saver Elite Processing Set (125 mL)	CSE-P-125	8
Cell Saver Elite Processing Set (70 mL)	CSE-P-70	8
Collection reservoir w/150 µ filter, 3 L	00205-00	4
Collection reservoir w/20 µ filter, 3 L	00220-00	4
Cell Saver A&A Line	00208-00	20
SmartSuction® Aspiration & Anticoagulation Line	HAR-A-1003	10
SmartSuction Filtered Vacuum Line, non-sterile	HAR-A-1000	10
RBC Bag, 1000 mL	00245-00	40
Waste Bag, 10 L	CSE-B-1000	10
Sequestering Kit	CSE-SQ-1000	8
70 mL Bowl Chuck Adapter	107581-00	1
Operator's Manual	102680-IE	1
Quick Reference Guide	112018-IE	1



## For more information

Visit our website at [www.haemonetics.com](http://www.haemonetics.com), or contact your Haemonetics account manager.

## About Haemonetics

Haemonetics is *THE* Blood Management Company. Our comprehensive portfolio of integrated devices, information management, and consulting services offers blood management solutions for each facet of the blood supply chain, helping improve clinical outcomes and reduce costs for blood and plasma collectors, hospitals, and patients around the world. We believe that through proper blood management, our products and services help prevent a transfusion to the patient who doesn't need one and provide the right blood product, at the right time, in the right dose to the patient who does.

RxOnly

For a list of worldwide office locations and contact information, visit [www.haemonetics.com/officelocations](http://www.haemonetics.com/officelocations)

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