

SmartSuction Harmony[®]

Dedicated Autoregulating Suction for
Intraoperative Autotransfusion



Suction isn't top-of-mind

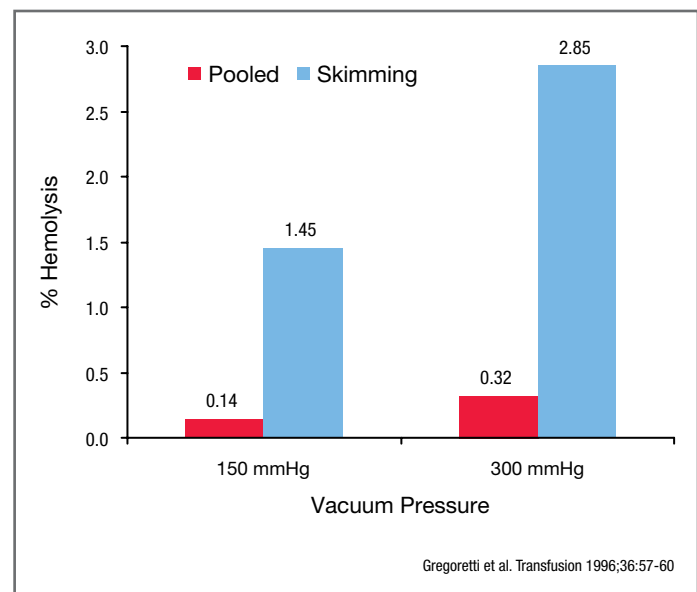
What percentage of RBCs lyse when you're suctioning blood for reinfusion?

Do you reduce suction levels or do you modify technique to protect RBCs when you skim?

Chances are you don't give suction a lot of thought. Not because it couldn't be better, but because wall suction is all you've ever known.

The American Association of Blood Banks recommends using dedicated suction with a maximum vacuum force of 150–200 mmHg. Maintaining suction in this range helps to protect intact tissue and red blood cells (RBCs) as they're aspirated for autotransfusion. Safeguarding RBCs becomes more challenging while you're skimming in shallow pools of fluid because air is present. Studies have shown that hemolysis increases when blood mixes with air and at greater suction pressures.¹

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



Gregorette et al showed that hemolysis is associated with higher suction forces. Hemolysis is even greater when air mixes with blood.

¹ Gregorette et al. Transfusion 1996;36:57-60

Consistent performance, excellent visualization, intact RBCs

SmartSuction Harmony® Autoregulating Suction is a dedicated and portable vacuum source for Haemonetics' Cell Saver 5+, OrthoPAT and cardioPAT autotransfusion Systems. Our patented SmartSuction® technology and disposables work together to provide gentler suction and excellent visualization, while avoiding the performance inconsistencies of wall suction.

With a maximum force of 150 mmHg, fluid and debris are evacuated quickly. When skimming, SmartSuction technology detects air in the aspiration line and automatically decreases vacuum force to evacuate blood gently and help save and protect RBCs for reinfusion.

In a recent lab test, SmartSuction Harmony Autoregulating Suction significantly reduced hemolysis. Based on this finding, when using Haemonetics' proprietary SmartSuction technology, there may be an increase in the number of viable red blood cells reinfused to patients.²

SmartSuction Harmony is an important blood management tool to help avoid unnecessary allogeneic transfusions:

- Device automatically adjusts suction force when air is detected
- Protects RBC viability by setting a maximum suction force
- Provides consistent and reliable suction
- Clears visual field rapidly



Ordering Information

Description	List Number	Quantity per Case
■ SmartSuction Harmony Device	HAR-E-230-XX	1
■ SmartSuction Harmony A&A Line	HAR-A-1003	10
■ Cell Saver® Accessories		
■ Vacuum Line, non-sterile	HAR-A-1000	10
■ Cart Attachment Kit (lock)	101186-00	1
■ Riser Block Kit for Cell Saver 5 System*	102009-00	1
■ OrthoPAT®/cardioPAT® Accessories		
■ Vacuum Line, non-sterile	HAR-A-1001	10
■ IV Pole Attachment Kit	101709-00	1
■ Operator's Manual	100789-XX	1
■ Quick Reference Guide for use with:		
■ Cell Saver® System	101502-00	1
■ OrthoPAT® or cardioPAT® System	101503-00	1

* for use with Cell Saver 5 systems prior to serial # 01B077

Austria

0800 29 2777

Belgium and Luxembourg

(FR): 0800 754 80

(NL): 0800 754 82

Czech Republic

800 143 243

Denmark

8088 7112

France

0800 90 11 58

Germany

0800 180 8890

Italy

800 870 200

Norway

800 18 453

Sweden

020 797 150

Switzerland

0800 898 898

The Netherlands

0800 0222 707

United Kingdom

0808 2344817 or

0808 101 1375

Technical Information

■ Dimensions (H x W x D)	24,4 cm x 34,9 cm x 23,5 cm (9.6 in. x 13.8 in. x 9.3 in.)
■ Weight	8,4 kg (18.5 lbs)
■ Free Air Flow Rate	Up to 40 L/min
■ Fluid Flow Rate	Up to 4 L/min
■ Operating Vacuum	-150–0 mmHg depending on air-fluid ratio
■ Maximum Pressure	-175 mmHg
■ Voltage	100 to 120 volts
■ Fuse Rating	F2.5 A @ 250 V
■ Operating Frequency	50 or 60 Hz, single phase
■ Power Cord Length	4,9 m (16 ft)
■ Certifications	CSA