

SmartSuction **HARMONY**[®]

Dedicated autoregulating
suction for intraoperative
autotransfusion

INTEGRATED DEVICES

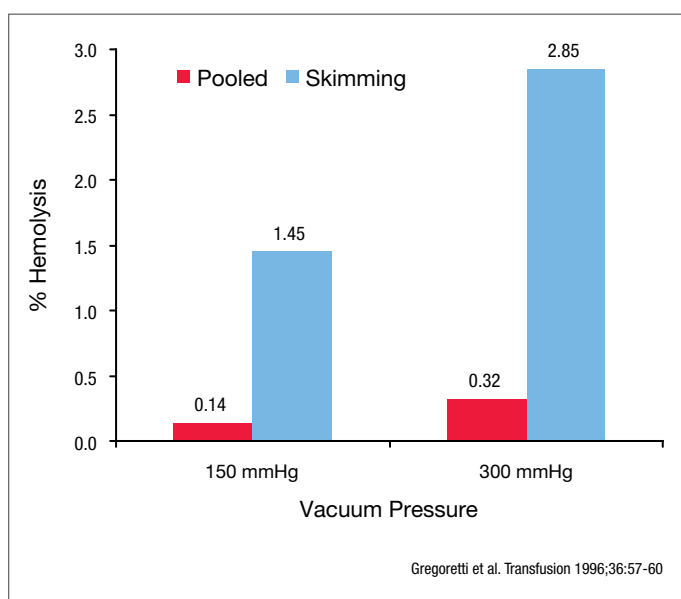


Suction isn't top-of-mind



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?



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

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.

¹ Gregoretti et al. Transfusion 1996;36:57-60 [DR107498]

Consistent performance, excellent visualization, intact RBCs

SmartSuction Harmony® Autoregulating Suction is a dedicated and portable vacuum source for Haemonetics' Cell Saver®5, Cell Saver 5+, and OrthoPAT® 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, USA	HAR-E-115-US	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, USA	100789-50	1
Quick Reference Guide for use with:		
Cell Saver® System, USA	101502-00	1
OrthoPAT® or cardioPAT® System, USA	101503-00	1

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

Technical Information

Dimensions (H x W x D)	9.6 in. x 13.8 in. x 9.3 in. (24,4 cm x 34,9 cm x 23,5 cm)
Weight	18.5 lbs (8,4 kg)
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	16 ft (4,9 m)
Certifications	CSA

RxOnly

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