

U. K. Intra-operative Cell Salvage Action Group
Intraoperative cell salvage devices: manufacturers' questionnaire

Please complete sections 1 and 2 for each machine type

Section 1: Machine		Additional comments
Name of device/manufacture	Haemonetics Ltd Cell Saver 5/5+	Software revision is at the same standard for both machine models
Recommended anticoagulant (Name/volume/weight) & rate of administration	Heparin (30,000 units per 1000mls) Drip rate: 1/second	ACDA is also a recommended anticoagulant, Anaesthetists decision, Contraindications listed in Operators manual. Advantages to use ACDA is that it is premixed so prevents handing errors for labelling and potential incorrect heparin concentrations.
Speed of processing (ml/min):	Standard: 300-500mls /minute	Machine increases/decreases processing speed dependent on incoming blood quality. High Hct need slower processing speeds to prevent haemolysis during FILL
	Emergency (fastest): 1000 mls/min	In automatic mode, machine processes at maximum 800 mls/minute
Minimum process volume (ml)	None	Blood collected into the reservoir can be processed at any volume manually. To optimise the processing qualities, the machine defaults to a reservoir volume of 200-800 mls depending on the bowl size, and will automatically process at these settings.
Standard wash volume (ml saline/ml blood)	1000mls	Safety feature of CS5+ will not allow reduction of saline wash until process established. Cell Saver 5 unique safety features: effluent line sensor will increase wash if blood quality not good at end of minimum wash.
Average Hct of product	55%	
Standard washing efficiency (% clearance of anticoagulant + evidence)	98%	
Integral vacuum pump	Not integral	Haemonetics provide a Smart Suction device (Harmony) that is not integral but attached to cart below machine, this is designed for maximising red cell collection from surgical site.
Automatic recognition of bowl size	Yes	
Data management system	Yes	This is provided as a separate system. The machine also has the ability to store data from last 10 procedures, this data can be down loaded to a pc for storage.
Clinical use	Recommended for:	All surgical procedures when blood loss is anticipated (and a transfusion may be necessary).
	Caution in:	Obstetrics/Malignancy/Bowel

Section 2: Disposables		<i>Additional comments</i>
Basic components:	Method of sterilisation	Ethylene Dioxide
	shelf-life	5 years
Available via central purchasing authorities	NO	<i>Direct sales only</i>
<u>Suction assembly:</u> packaged separately: Minimum purchase (units per case)	Yes 20 units /case	Harmony aspiration line (L/N 1003)is packaged in units of 10
<u>Reservoir:</u> volume (ml) filter pore size (µm) packaged separately: Minimum purchase (units per case)	3000mls 150 microns Yes 4	Soft shall reservoirs available with 240 micron filter
<u>Processing set:</u> Bowl: standard bowl size packaged separately: Minimum purchase (units per case)	Bowl 225mls Yes 8.....	
Other components available: Varied bowl sizes (please list)	Yes	125 ml bowl 70ml bowl
ACD-A solution shelf-life: Minimum purchase (units per case):	Yes 2 years 10	750 mls bags
Additional reinfusion bags Minimum purchase (units per case):	Yes 40	Reinfusion bags soon to be available in UK with 40 micron filters integral with the bag.
Y-connectors Minimum purchase (units per case):	Yes 6	
QC sampling kit Minimum purchase (units per case):	No	
Other (specify): Minimum purchase (units per case):	Waste Bags ...10.....	

Section 3: Customer Service		<i>Additional comments</i>
Machine purchase options: lease purchase available(please describe)	<ul style="list-style-type: none"> • Capital sale • Rental • Use Plan 	<p>Title/ownership of the machine is passed to Trust</p> <p>A monthly rental is charged (can include service) Title remains with Haemonetics A surcharge is added to disposable to cover costs for machine depreciation and service (if required)</p>
Machine trials:	Yes	<i>As per requirement of the Trust and agreed between Haemonetics and relevant hospital management</i>
Helpline access/prompt response	No	<i>Office hours response for Customer Service queries Technical and sales support extended to outside office hours</i>
Training & educational support	Yes	<i>Training support provided to hospital as per contract agreement and dependant on needs of that Trust/department</i>
Maintenance contracts	Yes	<p><i>Level 1- 48 hour call out, replacement of all parts, annual service</i></p> <p><i>Level2- annual service, 48 hour call out, parts to be paid by customer</i></p> <p><i>Level3- annual service, all other costs chargeable</i></p> <p><i>No contract-all calls outs and services chargeable</i></p>
How many UK based engineers do you have?	3	These are dedicated to Cell Saver / hospital Service and call outs only and not other medical devices
What is your average response time to call outs?	48 hours	
Are software upgrades freely available?	Yes	
Can disposables be ordered by a call-off order?	Yes	
How quickly can disposables be shipped?	Same day	Mostly overnight but within 48 hours to UK customers.Uk warehouse based in Banbury, Oxford.
Do you provide a cell salvage service for one-off cases?	Yes	<p>Our preference is to utilise a Cell Salvage Service provider for all one off cases as they have more flexibility to attend on the days specified by the hospital (requests are usually made with short notice).</p> <p>Two companies in UK are: Blood Savers Ltd and Haemoclaim</p>