

### Technical Specification of Cell Saver Machine

S.N.	Description	COMPLIANCE		Page No. of Catalogue
		Yes	NO	
	<b>Manufacturer</b>			
	<b>Brand</b>			
	<b>Type/Model</b>			
	<b>Country of Origin</b>			
<b>A</b>	<b>Description of Function</b>			
i	One touch automatic operation.			
ii	Dynamic Cell Salvage process with Centrifuge Bowl Indentations Engineered to reduce haemolysis and Adaptive Two-Stage Fill depending upon the Hct.			
iii	The system should have variable speed wash cycle.			
iv	Should have high Hematocrit after cell salvage ( Hct : 59 – 65% ) , Heparin washout upto 98% & Fat removal upto 99%			
v	Recovery Rate (speed) – 135 mL volume per cycle with 3 options, Standard Wash: ≈ 3.4 min / Fast Wash: ≈ 2.25 min / Emergency Wash: ≈ 1.45 min or better			
vi	Bowl size: 135 mL			
vii	The system should have in-built integrated and regulated vacuum suction and should be available immediately upon Power "ON"			
viii	Vacuum Regulation: Integrated, user defined , defaults (standard use and maximum vacuum)			
ix	Data Management: 100 patient case record storage; download to USB memory stick or PC			
x	Removable Storage : Internal and External (washkits, reservoir and miscellaneous supplies)			
<b>B</b>	<b>Power Supply:</b>			
i	Voltage & Frequency : 100 VAC - 240 VAC, 50Hz.			
ii	Power cord: at least 3 mtr.in length			
<b>C</b>	<b>Speed, Flow Rate, and Pressure:</b>			
i	Centrifuge: 0 rpm to 10 000 rpm (±5%)			
ii	Pump: 0 mL/min to 1 000 mL/min (±5%)			
iii	Vacuum: –10 mmHg to –370 mmHg ±(5% +8 mmHg)			
<b>D</b>	<b>Weight sensor:</b> Self-start: 800 mL ±200 mL			
<b>F</b>	Weight (device including IV pole): Should be defined.			
<b>G</b>	IP rating: IPX1			
<b>H</b>	Electrical Requirements : Class I , Type BF			
<b>I</b>	<b>Temperature Limit:</b>			
i	Operational: 15°C to 30°C			
ii	Storage (clinic): 15°C to 30°C			
<b>J</b>	<b>Humidity Range:</b>			
i	Operational: 25% to 70% non-condensing			

ii	Storage (clinic): 25% to 70%			
<b>K</b>	<b>Pressure Range:</b>			
i	Operational: 80 kPa to 101 kPa (11.6 psi to 14.6 psi)			
ii	Storage (clinic): 80 kPa to 101 kPa (11.6 psi to 14.6 psi)			
<b>L</b>	<b>Terms &amp; Conditions:</b>			
i	Technical assistance during the case is necessary by the company those who agree to comply with the above specifications.			
ii	The machine's must have US FDA and European CE Certification.			
iii	Should be supplied with 20 sets of consumables accessories in addition to the offered disposable accessories by supplier along with the machine.			
iv	Offered, all inclusive accessories with machine should be specified and highlighted			
v	Rates of consumables items should be quoted separately and the company would undertake to supply at the same price for atleast two years.			
vi	Service manual & Operator Manual in English to be supplied free of cost.			
vii	Warranty/Guarantee period for at least 2 years from installation			
viii	The bidder should be Authorized sales agent & after sales service must be locally available.			
ix	Valid authorization letter from manufacturing company must be provided.			
x	Onsite training to Doctors, technicians should be provided for operating machines.			