

SPECIFICATIONS: VEIN FINDER/VIEWER Qty: 1 unit

Description:

1. The product should be able to find veins for use in neonatal care.
2. It should have the color adjustment option according to the different people's skin tone.
3. This vein finder should have different finding modes based the depth of vein including child mode.
4. It should be light weight.
5. It should be small and easy to be hand held.
6. The viewer should be stand mountable and hand held.
7. The stand should be supplied along with vein finder.
8. The veins should stand out in the light background.
9. It should have an inverse display, with veins appearing lighter compared to background.
10. The battery should last at least 3 hours.
11. It should be supplied with the battery charger or charging station.
12. The battery status should be displayed on the screen.
13. The Viewer should function at temperatures of 10° C to 50° C.

Standards and Requirements:

- It should comply to IEC/EN 60825-1 laser safety norms.
- USFDA, CE and or ISO certifications or relevant standards certification.
- European CE Certified under PPE (Personal Protection Equipment) directive 89/686/EEC.
The valid certificate from Notified body of EU with the Notified body no. on the certificate shall be enclosed.

Additional Remarks or Requirements:

- Complete product details to be enclosed with the original brochure or catalog. (Soft or hard copy).
- Details of the standard accessories, additional accessories, optional items, consumables and minimum supplies to be stated clearly.



SPECIFICATIONS: REFRIGERATED BLOOD COMPONENT CENTRIFUGE Qty: 1 Unit

Description:

1. Large volume floor standing refrigerated centrifuge for separation of blood components like packed cells, platelet rich plasma, platelet concentrate, plasma, cryoprecipitate.
2. Special purpose for blood bags.
3. Floor type blood bag centrifuge with rotor.
4. Should be used with CFC free refrigerant.
5. Maintenance free- brushless motor.
6. Should have microprocessor-controlled system to make operation automatic.
7. Should have programmable memory with tamper proof facility.
8. Stainless steel chamber: easy to clean, corrosion resistant with provision of both drain and condensed water collection container.
9. Insert with hook adaptor to spin buffy coat or small volume of blood and balancing weights for inserts.
10. Should be equipped with automatic lid lock.
11. Automatic lid opening.
12. Easy-lift, Stay-in-place positioning and lid drip protection.
13. Run-silent operation
14. Speed variation: Microprocessor controlled rotor speed to within 10rpm of set value.
15. The equipment should be movable on castor wheels
16. However, it should have facility to be placed on four solid feet.
17. Maximum speed at least 4,000 rpm to 4500 rpm.
18. Maximum RCF for blood bags (6000g – 6500g)
19. Acceleration & deceleration profiles should be independently adjustable with at least
20. Should be available with acceleration and deceleration profiles.
21. Microprocessor controlled rotor temperature within 1-degree Celsius of set temperature regardless of the centrifuge speed.
22. Temperature Range at least: -20°C to +40°C.
23. Programmable time: 0-99 minutes with minimum resolution of 1 minute.
24. Digital display of temperature, speed and time
25. Minimum number of 3-digit resolution.
26. Motor imbalance detection: Automatic shutdown of centrifuge if rotor load is out of balance with appropriate indicator.
27. Should incorporate alarms for imbalance detection, lid interlock, over temperature, rotor over speed.



28. Capacity: Swing bucket blood bank rotor, with metal buckets, 6 x 2000ml or more, wind shielded. Suitable adaptors for 12 blood bags of 350 ml & 450 ml single, double, triple, quadruple blood bags with SAGM bag and empty satellite bags with Inline Filter system
29. Removable plastic adaptors to hold single/ double/triple/ quadruple blood bags with partition in every bucket.
30. Power Supply: 230V 50HZ AC Supply

Standards and Requirements:

Product certification:

- European CE Class II A or US FDA certified.
- Quality certification: ISO 9001.
- Electrical safety: Equipment meets electrical safety specifications such as that of IEC/EN 61010-1”.

Training:

- Onsite physical demonstration and training of the equipment to all the end users with all the requested facilities will be mandatory.

Additional Remarks or Requirements:

- Complete product details to be enclosed with the original brochure or catalogue (Soft or hard copy).
- Details of the standard accessories, additional accessories, optional items, consumables and minimum supplies to be stated clearly.
- Validation and calibration reports should have traceability to applicable national and international standards.
- Complete with comprehensive set of spare parts and accessories including:
 - **Double pan balance,**
 - **Balancing weights and plates**
 - **Plastic inserts and spacers and hooks for adjusting to different types and sizes of bag/tubing/filter designs,**
 - **Suitable UPS with maintenance free batteries for minimum one-hour back-up should be supplied free of cost with the system.**
 - **Tachometer**
- Necessary catalogues, technical write up in English, should be attached with the offer both in hard and electronic copies.
- Performance, efficiency, other factors as applicable should be furnished.
- Demonstration and continued comprehensive training for lab staff and support services till familiarity with the system.
- Should provide a set of equipment’s for calibration (eg. tachometer) be supplied free of cost with the system.
- Should provide electronic and hard copies of User Manual (English), Service Manual English.
- Company should certify that model quoted is latest and not obsolete, and spares are available for minimum 5 years after warranty (**5 years**).



- Should provide service support as long as the equipment is in use, within 24 hours for online help and if required visits to site should also be facilitated.
- The company must ensure that the machine remains fully functional all the time for the period of 2 years warranty **(2 YRS)**.
- The company must share all passwords/access codes to service modes of equipment.
- Conduct Calibration during installation.

