

TECHNICAL SPECIFICATION OF BLOOD BANK REFRIGERATOR

1. Capacity of 160-200 litres
2. Shelves for storing blood bags / 144 bags
3. Air flow system for cooling
4. Temp range-should have adjustable temperature control range from +1 degree to +8 degree C, factory preset at 4 degree C.
5. Temperature maintained at 4°C with variation of $\pm 1^{\circ}C$
6. Digital display of temperature with auto alarm if temperature variation is beyond $\pm 2^{\circ}C$
7. Refrigerator system-
 - a)The system should have high density CFC –free urethane foam insulation to protect cabinet from ambient temperature fluctuation.
 - b)The system should have positive, forced, air circulation to maintain temperature uniformity at all shelf levels, with quick recovery +/- 1 degree C.
 - c)The system should have sensors for activating automatic defrost cycle to minimize the frost build up.
8. Internal construction should be made up of high grade stainless steel Scratch resistant internal lining of the cabinet (stainless steel or aluminium
9. External construction Corrosion resistant sheet at least 1 mm thickness
10. Cooling down time of max of 150 min on half load.

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11. External ambient temp should perform in ambient temp up to +43 degree C.
12. Door System should lockable double doors / double glass doors for better safety
13. Should have adjustments for uneven bases. The adjustments should be easy to use like rotating a screw at the legs in the base.
14. Seven days circular temperature chart recorder
15. Voltage stabilizer to be provided along with the refrigerator
16. Power input to be 220-240VAC, 50Hz
17. User/Technical/Maintenance manuals to be supplied in English.
18. Certificate of calibration and inspection from factory



Dr Anjali Mishra

Dy Mgr. Pathology

Tender No C | 7029 | 2011 / 4330T
for Blood Bank Refrigerator

Pre-Qualifying Requisites

(22-12-2012)

1. Vendor shall submit authorization from the equipment manufacturer.
2. Vendor shall provide the name, address and contact details of the customer(s) to whom offered item/similar item has been supplied in the past.
3. BHEL may ask the vendor to arrange satisfactory performance certificate of the equipment from his customer.

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