

SPECIFICATION FOR REFRIGERATED BENCH TOP CENTRIFUGE:

1. Table top centrifuge for high volume application up to 1.5 liter ergonomically ideal access height for easy exchange of adapters & rotors with compact foot print.
2. It should have temp range -15 to 40 deg C along with short spin key, Fast cooling & stand by cooling option, 10 acceleration & deceleration rates with at-least 35 program memories.
3. Equipped with Automatic rotor recognition and Imbalance sensor results in prevention of over speeds.
4. System should have ability of spinning at 18000 rpm and 30000g
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6. Motorized lid latch with -automatic lid locking
7. In case of power failure should have manual lid opening function so that samples can be retrieved easily with tool from front or side of the machine.

8. Rotors to be supplied with machine: -

- a) Swing Bucket Rotor with rcf 3200xg and 4000 rpm or more (total working capacity 4x250ml or more): Buckets and adaptors should be provided with centrifuge: 16 no's or more 50ml conical tubes, 25 no's or more 15ml conical tubes.
 - b) Plate buckets for swing out rotor for spinning 2 MTP/ DWP/ culture Plate (no need to change the rotor) with rpm 3000 and 1200 rcf or more.
 - c) Fixed angle rotor for 6x50 ml conical tubes also supplied with adaptors for 15 ml conical tubes with 14000 rpm and 20000 rcf or more.
 - d) Fixed angle rotor for 24x1.5/2.0ml tubes with 18000 rpm and 25,000xg rcf or more.
9. All rotors & lids should be made of aluminum (metallic) and no need to precool in freezers before run.
 10. All rotors should be autoclavable at 121°C for sterile work whenever needed. And a life of 1,00,000 runs.
 11. It should have dynamic compressor control technology for optimized cooling performance
 12. Facility of auto shut-off or deactivates the compressor after 8 hours of inactivity to reduce energy consumption and extend compressor life
 13. It should have CFC free refrigerant with an ozone depletion potential (ODP) of zero.
 14. Instrument should be European CE Certified and USFDA.

15. Performance: Quoted model must have at least 50 installations in Delhi NCR, and the bidders should submit a installations report of the same instrument with similar application. Bidder should also provide a user list and at least 10 user certificates of the quoted model from recognized research Institute/University in India where instrument has been extensively used for similar applications

16. The equipment and peripherals should have 12-month comprehensive warranty from the date of successful installation and demonstration of the fully functional unit in the Institute.