

Refrigerated bench top centrifuge

It should essentially contain following features:-

1. It should be multipurpose compact system with ≥ 1 Litre capacity and should have a large brightly lit LCD display with touch screen.
2. It should have direct, brushless induction drive.
3. The lid of the centrifuge should open with a soft touch and the variable features of the centrifuge can be altered through a key pad/touch pad.
4. The noise level of the centrifuge should not exceed 70 dB (A) when samples are properly balanced and placed in the rotor.
5. Temperature Range: -9°C to 40°C with both continuous cooling and pre-cooling features and it should maintain 4°C at maximum speed.
6. System should have excellent temperature control with compressor running continuously during the run time.
7. System should have fast temperature function for rapid cooling of centrifuge and stand-by cooling options.
8. System should have automatic shut off function to reduce energy consumption and to extend compressor life when not in use for long hours.
9. System should have an in-built condensate drain to prevent water accumulation.
10. Can accommodate multiple rotors (fixed angle and swing out rotors) with adapter to use different tube formats (eg 1.5-2.0 ml microfuge tubes; 15 ml & 50 ml centrifuge tubes, PCR tubes etc).
11. System must be equipped with automatic rotor recognition and imbalance detection for maximum operational safety.
12. Interchangeable rotors with speed ≥ 14000 rpm
13. Should have some predefined programs for quick and routine operation.
14. Rotors and rotor lids should be made of metallic and must be fully autoclavable at 121°C .
15. **Rotors Required (2):**
 - (a) Fixed angle aerosol-tight rotor including rotor lid: It should essentially contain 6-8 places to accommodate universal 15ml/ 50 ml conical centrifuge tubes (eg Tarson, Axiva etc) with or without adaptors and should have a centrifugal speed of $\geq 10,000\text{RPM}$. If the 50 ml /15 ml conical centrifuge tubes require adapters it should be provided with the machine.
 - (b) Fixed angle rotor aerosol-tight rotor including rotor lid: It should essentially accommodate universal 1.5/2.0 ml microfuge tubes (eg Tarson, Axiva etc) with centrifugal speed of $\geq 14,000$ RPM.
16. Vendor should also enclose the original literature/catalogue & highlight the above specifications. The Quoted Model with all features should be easily available in the company website.
17. Vendor may be requested for a physical demo of installed machine to any of the installation site in close vicinity before placing the order.
18. The vendor should enclose detail user list of at least 50 users of the same Model installed in various reputed research institutes/universities/Govt hospitals/ICAR/CSIR/ICMR labs throughout India.

19. Comprehensive Warranty: One year from date of installation