

Specification

Technical Specification for Refrigerated Table Top Microcentrifuge

1. System should have a Maximum Speed of 15,060 rpm/21,300 x g with a brushless motor and user defined RPM or RCF setting.
 2. Temperature range should be from -10°C to +40°C and should be able to maintain 4°C at maximum speed.
 3. System should have timer settings from 10 sec to 9:59 h, with continuous run function.
 4. Rotor must be metallic and withstand autoclaving at 121°C for 20 mins.
 5. System should also have the provision to use swing bucket rotor (96 x PCR tubes with 0.2 mL or 4 × ¼ divisible PCR plate 96 (un-skirted) at 6000rpm or 3200xg.
 6. Adapters to support tube formats like 0.2 mL, 0.5 mL should be available.
 7. Rotor with Aerosol-tight lid, Rotor lids should have a Quarter turn lock-system for fast secure lid closing and opening.
 8. Aerosol tightness of the rotor should be certified by a third-party agency.
 9. System should have fast temperature function for rapid cooling of centrifuge.
 10. System should have an in-built condensate drain to prevent water accumulation inside the stainless rotor chamber to avoid corrosion.
 11. System should have automatic shut off function of the compressor to reduce energy consumption and to extend compressor life when not in use for long hours.
 12. System should be able to start the timer count only when the set centrifugation RPM is reached, to support the short spin protocols.
 13. System should possess a separate short spin key with defined maximum speed for brief spin.
 14. System should possess dedicated soft function to perform gentle acceleration and deceleration to enhance sedimentation.
 15. System must have finished time function to indicate time since centrifugation complete.
 16. System should support quiet operation in workplace with noise levels <54 dB(A).
 17. System must have an emergency lid opening in the front side.
 18. System should have bright digital display with LCD only.
 19. Centrifuge to be supplied along with following rotors:
 - a. fixed angle rotor for 24 x 1.5 /2.0 mL tubes with aerosol tight lid with maximum of 15,060 rpm and 21,300 x g
 20. Rotor and rotor lid must be made of metal.
 21. Instrument should be CE Certified.
 22. System must have an USB-port for service maintenance.
 23. Warranty period: The equipment (including rotors) should have 24 months comprehensive on-site warranty from the date of handing over the fully functional unit to the institute against manufacturing defects of material and workmanship.
- Credibility: Similar installations of this kind should have been made by company in recognised research institutes/universities in India and provide the user list of research institutes in India.