

Ultracentrifuge

1. Maximum speed: 1,50,000 rpm or above
2. Max G Force: 9,00,000 x g or above
3. Speed control accuracy: +/- 50 rpm of set speed or better
4. Maximum tube capacity swing bucket rotor ~5 ml or more
5. Temp control system: Preferably thermo module cooling system (HCF free)
6. Set temperature range: 0-37 °C with 1 °C increment or better
7. Temperature control: +/- 1 °C of set temp.
8. User settable programmed: >10 stored program or better options
9. Screen display: Touch screen LCD display
10. Drive system: Frequency controlled, vacuum encased, direct induction drive
11. Timer: 1 min to 99 hrs or more, with an option of Hold function
12. Low noise: <50 dB
13. Option for Safer Self Locking rotors
14. Suitable on line UPS for proper functioning of machine
15. Machine should have features like eye-balancing of samples, delayed start/stop, dual display of Run and Set parameters, data entry through key pad/ touch pad, RPM/RCF mode, Rotor Life Management etc.
16. Machine should comply with CE and other safety and regulatory standards
17. Rotors: suitable number of rotors of the following specifications with suitable tubes should be provided:
Fixed Angle rotor(s) to spin following volume ranges:
 - 6-8 place rotor with adapters (as and if required) to accommodate multiple volumes of samples, if feasible, for example, ~30ml, ~13.5ml, ~8-10ml and ~4ml (at each place) at speed ~50,000 rpm and rcf ~200,000 x g or better. Multiple rotors serving the similar experimental requirement may also be quoted.
 - 6-8 places x ~6-8 ml at speed ~80,000 rpm and rcf ~400,000xg
18. Five years of warranty on the instrument and the rotors, and 10 years on the drive system should be provided
19. Should be quoted at least 100 tubes of all desired volumes.
20. Open top tubes should be quoted if available.
21. Tube sealer and Tube cutter device (as required) should also be quoted.