



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY
MATERIALS MANAGEMENT DIVISION
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PR No. 1000021784

RFx No. 61000001051

Technical Specification of High Speed Cooling Centrifuge Floor Model

1. **Maximum Capacity:** 2500 ml to 3000 ml
2. **Maximum Speed:** 20,000 to 22,000 rpm or better
3. **Maximum RFC:** 42,000 to 44,000 xg or better
4. **Temperature:** -20°C to +40°C with 1°C increment or better
5. **Timer:** 1 to 100 sec and 1 to 100 min or better
6. **Digital Display:** Timer, temperature and speed
7. **Alarms:** Lid open, imbalance, high temperature, over speed, abnormalities in electrical components such as motor, sensors.
8. **Microprocessor control:** Speed (rpm/rcf), timer, temperature, acceleration, deceleration, fail-safe functions, rotor detection or any other functions.
9. **Refrigerant:** R 404A or better eco-friendly option
10. **Rotor capacity:** A. 1.7 ml /2 ml, B. 20ml to 60 ml, C. 200 ml to 300 ml
11. Centrifuge should be floor model.
12. System should have 50mL conical tubes can be used at 36,530xg ~ 20,850xg
13. System should have a memory flashing function.
14. System should have a high RCF (36,530 xg ~ 20,850 xg) Fixed angle rotor, even at high centrifugal force, conical tube is less likely to get broken and high-viscosity proteins can be clearly separated.
15. System should have reminder function to prevent you from leaving the samples in a centrifuge.
16. System should have function for operational supervision: data about speed, temperature and time can be output to the computer.
17. System should have click sound lets you know the rotor cover is fixed correctly and it prevents from fixing errors.
18. **Warranty:** - 1 year from date of Installation.