

SPECIFICATIONS FOR REFRIGERATED INCUBATOR SHAKER

1. Speed range: 25 to 400rpm , +/-2 rpm with 1.9 cm diameter orbit.
2. Programmable: Shaking period upto 99.9 hrs.
3. Programmable Temperature Range : 4°C to 60 °C (Minimum set point is 4°C)with +/- 0.1°C at 37°C accuracy and uniformity +/- 0.5 degree.
4. Speed and rpm should be calibrated via digital keypad.
5. It should have acceleration/deceleration circuit prevent sudden starts/stops.
6. Motor: Variable speed DC Brushless Motor.
7. Self-correcting Microprocessor controller automatically compensates for changes in workload, voltage and temperature to maintain operator program set point.
8. Alarms: Visible warning signal indicate s when speed deviates more than 5 rpm and temperature more than 1°C from set points and when timer has expired.
9. LED Display indicates speed, running time, alarm, condition and Temperature, Self-diagnostic indicator .
10. Sensors should be able to sense if shaker is imbalanced, and should be able to stop shaking when there is excess vibration or door is open
11. System should supply with universal platform which can hold the flasks from 50ml to 2.8L and should have capacity to hold at least 15 to 18 flasks from 250ml .
12. Clamps should be supplied for upto 500ml flasks at least 3 nos. each.
13. Certifications: CE or equivalent
14. IQ, OQ, PQ should be done.
15. It should have a separate stable chamber near the roof for keeping plate culture etc.
16. With following accessories as FOC- 3 Pipette set with variable volume
17. Should have minimum 2 years warranty and 5 years annual maintenance contract
18. Suitable stabilizer must also be provided along with the shaker