Control Rate Syringe Infusion Pump – 40 Nos.

Specifications

1. Infusion rate range should be not less than 1000 ml/h with increment of 0.1 ml/hr available infusion rate units should be Mg/kg/h, mg/kg/min, µg/kg/h, µg/kg/min
2. Accuracy should be ± 2%
3. Should have programmed patient’s weight: 0.4 – 200 kg
   Programmed drug concentration: 0.01 – 9999 (µg) mg/ml
4. Syringe sizes should be: 10, 20, 30, 50/60 and 100 ml of the main brands.
   Should have user selectable syringe brands set
   Should have possibility to include new brands of syringes
5. Should be with Syringe size detector
6. Should have syringe insertion (loading) sensor
7. Should have selectable drug library, at least 15 names.
   Should have user selectable drug library
   Possibility to include new drug names is desirable
8. Possibility to select from the list of operational parameters the parameters required by the user.
9. Should have brig display, indicating maximum information in one time.
10. Should have drug name displaying during the infusion
11. Should have not less than 3 levels of occlusion.
12. Should have anti Bolus System, bolus after occlusion elimination less than 0.5 ml
13. Anti-Siphon Systems, allows to prevent amount of volume infused due to siphon effect is desirable.
14. Internal battery with capacity not smaller than 1300 mAh
    Battery life:
    Minimum 8 h; at 5 ml/h. infusion rate or
    Minimum 2 h; at 200 ml/h. infusion rate
    Recharging time for internal batter not more than 24 h
15. Should have possibility to change infusion rate without stopping the infusion
16. KOR (KVO) function.
    Possibility to switch the KOR (KVO) function off
    Possibility to adjust KOR rate from 0.1 to min. 10.0 ml/h is desirable
17. Programmed infusion volume from 0.1 to 999 ml.
    Infusion with our limitation (Volume no limit)
18. Indication (or clearance) of total infused volume up to 9999 ml.
19. Should have option of rate calculation over time and volume to be infused.
20. Possibility to define bolus rate limits up till 1500 ml/h.
   Available bolus rate unit: mg/h and µg/h.
   Possibility to program bolus rate within the bolus rate limits.
   Possibility to infuse bolus automatically.
   Possibility to program automatic bolus dose from 0.1 to 99.9 ml.
   Available bolus dose units: mg, µg, mg/kg, µg/kg.
   Possibility to infuse bolus manually.

21. Pump should display followings alarms:
   NO MAINS
   LOW BATTERY
   OCCLUSION
   EMPTY SYRINGE
   END OF INFUSION
   X min PREALARM.
   CLAMP OPENENDED!

22. Pump should have ER certification & should be FDA approved.
23. Possibility to lock keypad during the infusion to prevent accidental change by unauthorized persons of the infusion parameters is desirable.

24. Should have following indicators:
   • Connected to the mains;
   • Operation from the internal batter;
   • Infusion in process.

25. The Pump should meets International Standard Quality assurance certificate
ISO/CE/EN/IEC

26. Should have RS 232 data communication port for program upgrade and operational data (event log) downloading.
27. Nurse call connection (optional)
28. Should have possibility to program up to 5 different infusion rate profiles for a various drugs, including the profile for an infusion of anesthetic drug “Propofol”
29. Rechargeable sealed NiMH Batter hading at least 7 hr back up for about 5 ml/ hr flow rate with 50 ml syringes. Indication of residual life of battery required.
30. The after sales service must be available in Delhi.

Warranty: Comprehensive 5 years with CMC for 6 to 10 years after comprehensive warranty.