

Instrument for purchase of stores

Item: Heated Humidified High Flow Nasal Cannula (with integrated humidifier and flow generator)

Specifications:

1. Delivers servo controlled, humidified, heated, air oxygen blended gas.
2. It should have integrated motor/turbine to deliver air flows with flow settings of 2 to 25 L/min (in increments of 1L/min).
3. Inbuilt O2 sensor to deliver the FiO2 from 21% to 100%
4. Oxygen sensor does not require in field calibration
5. It should have inspiratory tubing with inbuilt spiral heater wire for superior condensate control in varying environments.
6. Clinician menu for setting range of FiO2 and flow settings
7. Inbuilt heated humidifier to deliver warm and humid gases to airway. The humidification chamber should have dual float with auto feed system.
8. The tubing should light weight and flexible.
9. Graphical/numerical display menu for settings of FiO2 & temperature.
10. Display to monitor temperature of humidified gas, flow rate and FiO2
11. Visual alarm of malfunctioning of temperature and FiO2.
12. Visual and audible alarm indication for: tubes disconnect, leaks, tube blockages, and water out and hardware fault with error codes. Audible power failure alarm.
13. Device should be not need calibration and be "Non-serviceable"
14. Should be supplied with pole/trolley to install the machine
15. The system should have inbuilt disinfection mode to disinfection the internal blower of the machine to prevent cross infection. Heated tube for sterilization of the device should be provided with the device.
16. Should be supplied with a suitable voltage stabilizer with the machine.
17. Oxygen analyzer accuracy +/-10 % (within range of 25-80 % FiO2)
18. Electrical rating: 50-60 Hz; 100-220V ~ 2.2 A (2.4 A max).
19. Sound pressure level not more than 45dB at 1m
20. Original literature to be supplied with the quotation.
21. Certification: US FDA and European CE or equivalent National Certifying Authority approved
22. Compliant with international standards. IEC 60601 and ISO 13485 quality
23. Device should have a two year "replacement warranty" from manufacturer with option of extended warranty of 2 Years.
24. List of essential spares, accessories, expendables and consumables expected to be used in one year should be provided and quoted separately. Prices so quoted to be frozen for 5 years including warranty. Frozen rate should not be more than price of the quoted rate at the time of purchase.
25. Should have local service facility
26. The service provider should have the necessary equipment's recommended by the manufacturer for installation and to carry out preventive maintenance test as per guidelines provided in the service/maintenance manual

Accessories to be supplied with each unit:

- Patient breathing tube with integrated heating coil and flow/temperature sensor: 40 Nos.
- Soft, flexible anatomically contoured nasal cannula with easily replaceable hydrocolloid adhesive on Velcro to secure on skin, of 3 different sizes:
- Premature: 40 Nos
- Neonatal: 40 Nos
- Infant: 25 Nos
- Air filter – 20 nos
- Disinfection kit – 2 no
- Oxygen inlet extension tube- 2 no
- Mounting tray and pole with castors & IV hook