



Biomedical Engineering Department

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Male', Republic of Maldives

Nebulizer

Equipment Name: Nebulizer

Category: Respiratory Support Equipment

Patient Types:

- Adult
- Pediatric
- Neonatal

Clinical Areas:

- ICU / CCU
 - Emergency Department
 - OT / Recovery
 - General Wards
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1. General Functional Requirements

The nebulizer shall meet the following requirements:

- Lightweight and easy to operate
 - Suitable for adult, pediatric, and neonatal use
 - Heavy-duty, durable piston for reliable operation
 - Design ensures **low noise level** and proper ventilation for prolonged device life
 - Nebulization rate adjustable via control knob
 - Power button for device operation
 - Compact and portable for bedside and ambulatory use
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2. Technical Specifications

- **Nebulization rate:** 0.15 – 0.35 mL/min
 - **Approximate dimensions (L × W × H):** 22 × 16 × 12 cm
 - **Noise level:** Low-noise operation (≤ 65 dB)
 - **Ventilation:** Built-in to prolong device life
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3. Power Supply

- AC Line Voltage: **220–240 VAC**
- Frequency: **50–60 Hz**
- Plug Type: **13-Amp type g plug**

4. Safety and Protection

- Device shall comply with relevant safety and quality standards
- Protection against electrical hazards and overheating
- Reliable operation in clinical environments

5. Accessories and Configuration

All necessary accessories required for initial operation shall be supplied, including but not limited to:

- Nebulizer mask sets (Adult, Pediatric, Neonatal)
- Tubing and connector
- Air filter (5 pcs)
- Any additional accessories required for safe and effective use

All accessories shall include:

- Part numbers
- Quantities supplied

6. Standards and Regulatory Compliance

The nebulizer shall comply with the following:

- **Regulatory Approval:** CE and/or FDA approved
- **Quality Standards:** ISO certified
- **Safety Standards:** IEC

