Acogedor YH.YX11A

YH.YX11A Buoy Type Oxygen Inhaler User Manual

Brand: Acogedor

1. Introduction

This manual provides comprehensive instructions for the safe and effective use of the YH.YX11A Buoy Type Oxygen Inhaler. This device is primarily designed for use within medical center oxygen supply systems to facilitate oxygen inhalation for patients requiring oxygen therapy, including those with hypoxic conditions. It functions by decompressing high-pressure oxygen from a cylinder into a stable, breathable low-pressure flow.

Figure 1.1: Overview of the Acogedor Buoy Type Oxygen Inhaler, highlighting its key features such as stable pressure, accurate flow, and clear scale for precise oxygen delivery.

2. Safety Information

Please read all safety warnings and instructions carefully before operating the oxygen inhaler. Failure to do so may

result in injury or damage to the equipment.

- This device should only be operated by trained personnel in a medical setting or under the direct supervision of a healthcare professional.
- Ensure all connections are secure and leak-free before use.
- Do not use oil or grease on any part of the oxygen inhaler or oxygen cylinder, as this can cause fire or explosion.
- Keep the device away from open flames, sparks, and heat sources.
- Regularly inspect the device for any signs of damage or wear. Do not use if damaged.
- The gas is specially filtered and dehumidified by the device to ensure impurities are eliminated, providing comfortable and safe inhalation.

3. Components and Parts

The YH.YX11A Buoy Type Oxygen Inhaler comes with the following main components:

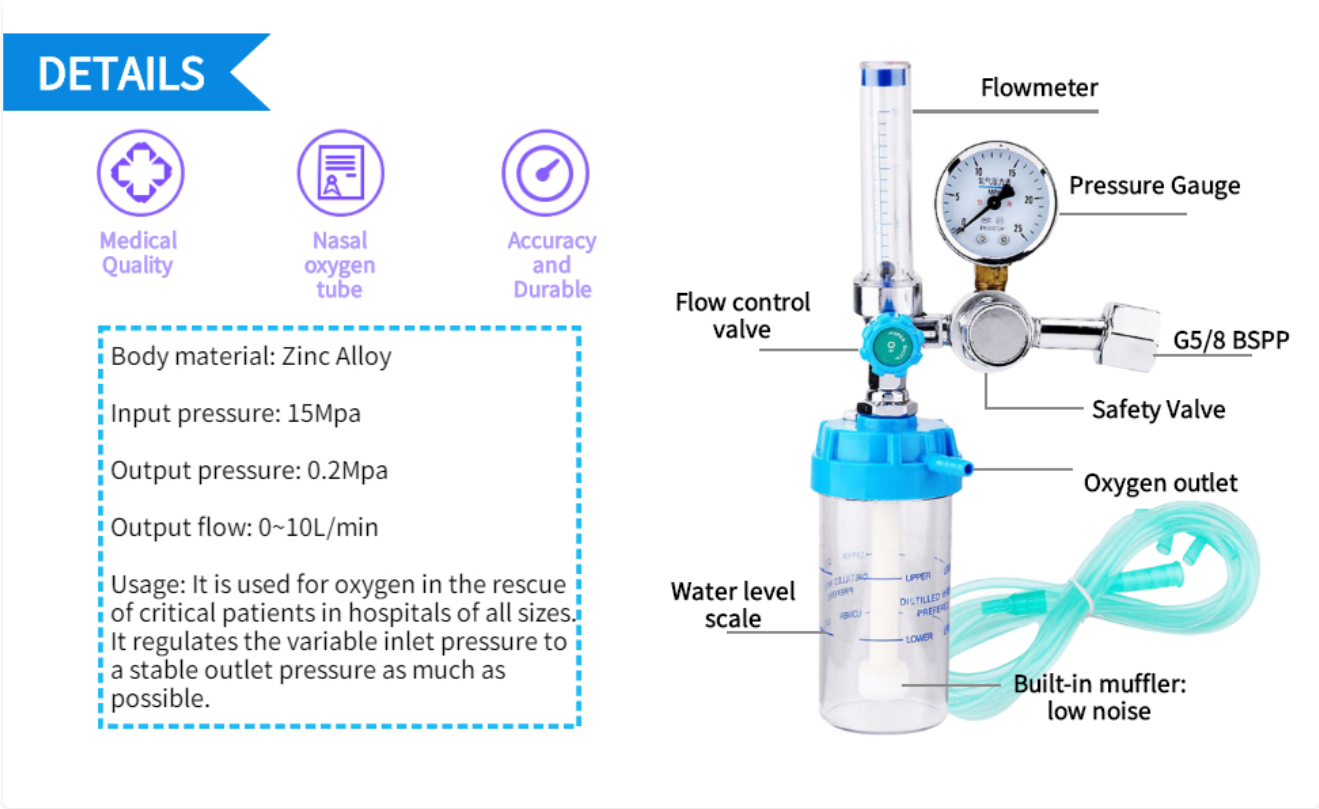

Figure 3.1: Detailed diagram illustrating the various components of the oxygen inhaler, including the flowmeter, pressure gauge, flow control valve, and humidifier bottle.

- **Pressure Regulator Body:** Made of high-quality zinc alloy, ensuring durability and resistance to rust.
- **Pressure Gauge:** Displays the output pressure in MPa, with a clear and visible scale.
- **Flowmeter:** A buoy-type flowmeter indicating oxygen flow in L/min.
- **Flow Control Valve:** Used to adjust the oxygen flow rate.
- **Humidifier Bottle:** Transparent bottle with water level markings (Upper, Distilled Water Preferred, Lower) for humidifying oxygen.
- **Nasal Oxygen Tube:** For patient connection and oxygen delivery.
- **G5/8 BSPP Connection:** Standard connection for oxygen cylinders.
- **Safety Valve:** An integrated safety mechanism.

- **Built-in Muffler:** Designed for low-noise operation.

4. Setup Instructions

Follow these steps for proper setup of your oxygen inhaler:

1. **Prepare the Humidifier Bottle:** Unscrew the humidifier bottle from the main unit. Fill it with distilled water up to the 'PREFERRED' or 'UPPER' level indicated on the bottle. Do not overfill.
2. **Attach Humidifier Bottle:** Carefully screw the filled humidifier bottle back onto the main regulator unit, ensuring it is securely tightened to prevent leaks.
3. **Connect to Oxygen Cylinder:** Ensure the oxygen cylinder valve is closed. Connect the G5/8 BSPP connector of the oxygen inhaler to the outlet valve of the oxygen cylinder. Tighten the connection firmly using an appropriate wrench, ensuring a gas-tight seal.
4. **Attach Nasal Oxygen Tube:** Connect one end of the nasal oxygen tube to the oxygen outlet on the humidifier bottle.
5. **Verify Connections:** Double-check all connections for tightness and proper seating before opening the oxygen cylinder valve.

Figure 4.1: The oxygen inhaler securely connected to an oxygen cylinder, ready for operation.

5. Operating Instructions

Once the device is set up, follow these steps to operate the oxygen inhaler:

1. **Open Oxygen Cylinder Valve:** Slowly open the main valve of the oxygen cylinder. The pressure gauge on the inhaler will show the output pressure (0.2 MPa).
2. **Adjust Flow Rate:** Turn the flow control valve (blue knob) to adjust the desired oxygen flow rate. The buoy in the flowmeter will rise to indicate the current flow in L/min.

Figure 5.1: Detailed view of the flowmeter, showing the buoy indicating the flow rate, and the blue flow control knob for adjustment.

Figure 5.2: Close-up of the pressure gauge, which indicates the regulated output pressure of the oxygen.

- **Patient Connection:** Once the flow rate is set, connect the nasal oxygen tube to the patient as instructed by a healthcare professional.
- **To Stop Oxygen Flow:** First, close the main valve on the oxygen cylinder. Then, allow the oxygen in the system to deplete until the pressure gauge reads zero and the flowmeter buoy drops. Finally, close the flow control valve on the inhaler.

6. Maintenance and Care

Proper maintenance ensures the longevity and safe operation of your oxygen inhaler:

- **Humidifier Bottle Cleaning:** The humidifier bottle should be cleaned regularly with a mild disinfectant solution and rinsed thoroughly with distilled water. Allow it to air dry completely before reassembly.
- **Water Replacement:** Replace the distilled water in the humidifier bottle daily or as per medical guidelines to

prevent bacterial growth.

- **External Cleaning:** Wipe the exterior of the regulator and flowmeter with a damp cloth. Do not immerse the main unit in water.
- **Storage:** Store the oxygen inhaler in a clean, dry, and dust-free environment when not in use. Disconnect it from the oxygen cylinder for long-term storage.
- **Inspection:** Periodically inspect all components for cracks, damage, or signs of wear. Pay close attention to the nasal oxygen tube for kinks or blockages.

7. Troubleshooting

This section addresses common issues you might encounter with the oxygen inhaler:

Problem	Possible Cause	Solution
No oxygen flow / Buoy not rising	Oxygen cylinder valve closed; Flow control valve closed; Cylinder empty; Leak in connection.	Open cylinder valve; Open flow control valve; Replace cylinder; Check and tighten all connections.
Pressure gauge reads zero after opening cylinder valve	Cylinder empty; Regulator not properly connected; Faulty gauge.	Replace cylinder; Re-connect regulator securely; Contact support if gauge is suspected faulty.
Water bubbling excessively in humidifier bottle	Flow rate set too high.	Reduce the oxygen flow rate using the control valve.
Unusual noise during operation	Loose connection; Internal component issue.	Check all connections for tightness. If noise persists, discontinue use and contact support.

8. Technical Specifications

Detailed specifications for the YH.YX11A Buoy Type Oxygen Inhaler:

- **Item Type:** Pressure Regulator
- **Body Material:** Zinc Alloy
- **Input Pressure:** 15 Mpa
- **Output Pressure:** 0.2 Mpa
- **Output Flow:** 0~10 L/min
- **Connection Type:** G5/8 BSPP
- **Item Weight:** Approximately 1.34 pounds (0.61 kg)
- **Package Dimensions:** Approximately 10.55 x 8.11 x 3.43 inches (26.8 x 20.6 x 8.7 cm)

Figure 8.1: The complete YH.YX11A Buoy Type Oxygen Inhaler unit, including the regulator, flowmeter, humidifier, and nasal cannula.

9. Warranty and Support

Acogedor stands behind the quality of its products. For specific warranty details and terms, please refer to the warranty card included with your purchase or visit the official Acogedor website. If you encounter any issues not covered in the troubleshooting section or require further assistance, please contact Acogedor customer support through the vendor's contact information provided at the point of purchase or on the official brand store page.

For additional information and support, you may visit the Acogedor Store on Amazon.