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Software Version: V4.01UN
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Portable Oxygen Concentrator

User Manual

Thank you for choosing WeOxy products.
Please read this user manual carefully before use.

contents

1.Foreword

Before operating the machine, please make sure that you have read and understood this user manual.

Important:

- In order to prevent risks caused by power outages or possible failure of the oxygen concentrator, users in urgent need of oxygen must be provided with other backup oxygen supply devices (such as oxygen cylinders or oxygen reserve bags, etc.).
- This product is intended for oxygen supplementation and shall not be used as a source of oxygen for life support or life extension.

1.1.Standards Compliance

This device is listed with an internationally recognized testing laboratory and classified with respect to electric shock, fire and mechanical hazards in accordance with the following standards:

- IEC 60601-1: 2005+AMD1:2012, Medical electrical equipment – Part 1: General requirements for basic safety and essential performance.
- IEC 60601-1-2: 2014+AMD1:2020, Medical electrical equipment – Part 1-2: General requirements for basic safety and essential performance-Collateral Standard: Electromagnetic disturbances - Requirements and tests.
- IEC 60601-1-8: 2006+AMD1:2012, Medical electrical equipment — Part 1-8: General requirements for basic safety and essential performance — Collateral standard: General requirements, tests and guidance for alarm systems in medical electrical equipment and medical electrical systems.
- IEC 60601-1-11: 2015, Medical electrical equipment – Part 1-11: General requirements for basic safety and essential performance – Collateral standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment.
- IEC 60601-1-6: 2010+AMD1:2013+AMD2:2020, Medical electrical equipment - Part 1-6: General requirements for basic safety and essential performance - Collateral standard: Usability.
- IEC TR 60601-4-2: 2016 Medical electrical equipment - Part 4-2: Guidance and interpretation- Electromagnetic immunity: performance of medical electrical equipment and medical electrical systems.
- ISO 80601-2-69: 2020, Medical electrical equipment – Part 2-69: Particular requirements for the basic safety and essential performance of oxygen concentrator equipment.

- ISO 80601-2-67: 2020, Medical electrical equipment – Part 2-67: Particular requirements for the basic safety and essential performance of oxygen-conserving equipment.
- ISO 18562-1: 2024,Biocompatibility evaluation of breathing gas pathways in healthcare applications – Part 1: Evaluation and testing within a risk management process.
- ISO 18562-2: 2024, Biocompatibility evaluation of breathing gas pathways in healthcare applications – Part 2: Tests for emissions of particulate matter.
- ISO 18562-3: 2024, Biocompatibility evaluation of breathing gas pathways in healthcare applications – Part 3: Tests for emissions of volatile organic compounds (VOCs).
- IEC 62133-2: 2017/AMD1:2021, Secondary cells and batteries containing alkaline or other non-acid electrolytes – Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications – Part 2: Lithium systems.
- RTCA DO-160G: 2010 Section 21, Radiated Emissions – Category M: Radiated RF emission test method for airborne equipment.

1.2.Safety Instructions

This user manual contains warnings, cautions, and notes to help call attention to the most important safety and operational aspects of the device. To help identify these items when they occur in the text, they are shown using the following typographical conventions:

WARNING: Indicates a potentially hazardous situation or serious adverse reaction that could affect patient safety.

CAUTION: Highlights special precautions that the healthcare professional and/or patient should observe to ensure the safe and effective use of the device.

Note: Provides additional important information about the device or a related procedure.

1.2.1.WARNING

- The device shall not be used close to or stacked with other equipment. If it must be used close to or stacked, it should be observed to verify that it can operate properly in the configuration it is used with.
- Except for cables sold by the manufacturer as spare parts for internal components, the use of accessories and cables not specified may result in increased emission or reduced immunity of the equipment.
- If you have strict requirements on oxygen concentration, follow your doctor's advice and monitor the oxygen concentration of the device.

- Patients with severe lung diseases should consult their doctors before choosing the oxygen flow rate.
- Do not use or place the device in MRI environments, near strong magnetic fields, or close to X-ray, CT, or other radiation-emitting equipment.
- Use of this product outside of the intended use and specifications has not been tested and may lead to product damage, loss of product function, or personal injury.
- Do not perform service or maintenance on the device while it is in use.
- Do not operate the device in poorly ventilated areas or where smoke, airborne contaminants, fumes, flammable anesthetics, cleaning vapors, or aerosol sprays are present.
- Risk of personal injury such as burning, electric shock, fire, etc.
- Do not use the device in the shower. If the patient requires continuous oxygen supply, the oxygen concentrator must be placed at least 2.0 meters away from the bathroom.
- Do not touch the concentrator when your body is wet.
- The device should be kept dry at all times. Do not use or store the oxygen concentrator near water or other conductive liquids.Exposure to water could lead to electrical shock and/or damage.
- If the device is dropped into water or any conductive liquid, do not touch the device. Immediately cut off power at the wall outlet and contact service personnel.
- Unplug the device when not in use.
- Follow the user manual and your doctor's advice when using the oxygen concentrator.
- Once the patient or caregiver notices insufficient oxygen supply, immediately contact the oxygen concentrator provider or doctor. If the oxygen flow needs to be adjusted, please follow your doctor’ s advice.
- This device has not been evaluated for use in pediatric patients. Consult a physician before using the device for a pediatric patient.
- People with limited mobility must use the device under supervision.
- Please use this device according to the Intended use/Indications for use in the user manual.
- Do not use or store this device in places with polluted environment or exhaust gas.
- When the environment exceeds the working conditions of the product, the oxygen flow rate, concentration may be impacted, resulting in reduced treatment quality.
- Smoking during oxygen therapy is dangerous and may result in facial burns or death. Do not allow smoking, sparks or open flames in the same room as the oxygen concentrator or any oxygen containing accessories. If you smoke, always turn off the oxygen concentrator, remove the cannula, and leave the room where the device or cannula is located. Smoking is strictly prohibited in any room where oxygen therapy equipment is present or has recently been in use. Consult your physician if you smoke.

- Oxygen accelerates combustion. The oxygen concentrator should be kept away from flammable and explosive situations.
- Oil, grease orgrease-based substances will cause spontaneous and fierce combustion when exposed to oxygen under a certain pressure. To prevent fire and burns, keep oil, grease, and petroleum-based products away from the device, face, and upper chest. These materials must be kept away from the oxygen concentrator, lines, connectors, and allother oxygen devices.
- Oxygen supports combustion. Keep the device away from ignition sources such as matches, lighted cigarettes, or open flames. Do not place the nasal cannula on flammable materials such as bed linens, cushions, or clothing. Improper use may result in fire, property damage, injury, or death. Always use the device in a well-ventilated environment, and turn it off when not in use.
- It is dangerous to have open flames during oxygen inhalation and may cause fire or death. Open flames are forbidden within 2 meters from the oxygen concentrator or accessories containing oxygen.
- Do not lubricate oxygen concentrator accessories, connections, cannulas, or other components to avoid the risk of fire.
- Use only manufacturer-recommended accessories to ensure proper device operation and reduce the risk of fire.
- There is a risk of fire associated with oxygen enrichment during oxygen therapy. Do not use near sparks or open flames.
- Be used with settings that have been individually determined or prescribed for you at your activity levels.
- Use only the specific combination of parts and accessories that conform to the specifications stated in this manual and by the accessory manufacturer.
- Use only water-based lotions or salves that are oxygen-compatible before and during oxygen therapy. Never use petroleum or oil-based lotions or salves to avoid the risk of fire and burns.
- If you feel discomfort or are experiencing a medical emergency while undergoing oxygen therapy, seek medical assistance immediately to avoid hazard.
- Geriatric, paediatric or any other patient unable to communicate discomfort can require additional monitoring to avoid hazard.
- If the device is used at an altitude above 5,000 m (16,400 ft) or outside the temperature range of -5°C (23°F) to 40°C (104°F) or in an environment with a relative humidity above 90%, it may adversely affect the flow rate and oxygen concentration, thus compromising the quality of oxygen therapy. Additionally, if the device is used immediately after being stored in temperatures outside the allowable operating range, it may negatively impact the device's operation until the temperature returns to the acceptable range.

- Wind or strong drafts can also have an adverse effect on the accurate delivery of oxygen therapy.

1.2.2.CAUTION!

- Do not apply lubricants to the oxygen concentrator’ s fittings, connections, tubing, or accessories, as doing so may create a risk of fire or burns.
- To prevent choking or strangulation, keep all cords out of reach of children and pets.
- Settings used on oxygen therapy equipment from other manufacturers or of different models may not be equivalent to the settings on this device.
- The settings of this device may not correspond with the settings of devices that provide continuous oxygen flow.
- The prescribing healthcare professional must determine and document the oxygen setting for each patient based on the device configuration and accessories used. The patient should be reassessed periodically to confirm that the prescribed settings remain effective.
- For optimal sieve column life, the product should be used frequently.
- Altitude changes may affect the oxygen available to the patient. Consult the prescribing healthcare professional before traveling to a significantly different elevation to determine whether the oxygen setting requires adjustment.
- Do not block the air intake or exhaust openings or place the device near a heat source during operation. Restricted airflow may cause overheating, shutdown, or damage. If performance changes, refer to the Troubleshooting section.
- Do not wrap the power cord around the power supply for storage, or drive over, pull, drag, or place objects on it. Cord damage may interrupt power to the concentrator.
- Do not disassemble the power supply, as this may cause failure or create a safety hazard.
- Do not connect any power supply other than the supplied one to the device’ s power input.
- Place the power supply where air can circulate freely around it, since it dissipates heat by convection. The power supply may become hot during use.Make sure the power supply cools down before handling to avoid injury.
- Keep all liquids away from the batteries. If a battery becomes wet, discontinue use immediately and dispose of it properly.
- Do not repackage or ship the concentrator, accessories, or system components in packaging other than that provided by your equipment provider.

1.2.3.Note

- If users are unable to hear or see alarms or communicate discomfort, additional monitoring or attention from supervisors is required when using this product.
- A suitable nasal cannula is required for use with this device. You can also choose an anti-extrusion nasal cannula that adapts to the outlet of this device.
- Increasing the length of cannula can reduce the noise during oxygen transport. When a longer nasal cannula is used, you may need to increase the flow. Please follow your doctor's advice.
- Correctly use the nasal cannula according to instructions. Some cannulas may have peculiar smell because of the materials used.
- Only connect this product to equipment approved by the manufacturer.
- Only use provided power supplies, cables, adapters and accessories. Use of unauthorized or third-party accessories is strictly prohibited and may result in safety hazards or degraded device performance.
- This product is not designed or specified for connection to humidifiers, nebulizers or other devices.
- Except for the nasal cannula, all accessories of this product must be provided by the designated seller.
- If any accessory is damaged or missing, please contact the device supplier.
- Use this product according to the intended use specified in the manual.
- Excessive inhalation of oxygen can be dangerous in some cases. Please follow your doctor's advice.
- In order to avoid insufficient oxygen supply, oxygen poisoning or carbon dioxide poisoning caused by improper settings, it is strictly prohibited to adjust the flow rate at will.
- The nominal flow rate of this product is pulse flow. It is recommended to consult a doctor to determine the appropriate flow rate before using this product to avoid oxygen poisoning caused by excessive oxygen flow.
- Oxygen accelerates combustion. Use of this device while smoking or in the presence of an open flame is strictly prohibited.
- Keep this product away from pollution, smoke and flammable, explosive and volatile items such as alcohol, gasoline, and heated surfaces to avoid fire or explosion.
- This product shall not be used as a source of oxygen for life support or life extension.
- Do not expose the device to rain or snow or operate in the rain, as this may cause electric shock and device damage.
- Do not use this product in an environment with high temperature and humidity (such as an unoccupied car in a high-temperature environment or a bathroom with high humidity) to avoid damage to the device.
- Non-professionals are not allowed to disassemble the oxygen concentrator. Any modifications to the

equipment may impair performance or damage the device and void your warranty. Only dealers or trained personnel authorized by the manufacturer can perform preventive maintenance or performance debugging on the oxygen concentrator.

- The patient is responsible for using only the parts and accessories specified in these instructions for use. Any use of parts or accessories not recommended in this manual is undertaken at the patient’ s own risk. We accept no liability for any problems resulting from the use of parts or accessories not specified in this user manual.
- The patient is responsible for periodically inspecting the battery and replacing it as needed in accordance with these instructions. The manufacturer is not liable for consequences resulting from failure to follow these recommendations.
- If the device fails, the patient may return to their pre-therapy baseline condition. Effects may vary by patient.
- The proper placement and positioning of the patient interface is critical to the consistent operation of this equipment.
- Patients who exhibit breathing effort below the specified inspiratory sensitivity value may not be able to consistently trigger the device to receive oxygen therapy.

1.3.Intended Use/Indications for Use

- The Portable Oxygen Concentrator provides a high concentration of supplemental oxygen to adult patients requiring respiratory therapy on a prescriptive basis. It may be used at home, in institution, vehicle, train, airplane, boats and other transport modalities. This device is to be used as an oxygen supplement and is not intended to be life sustaining or life supporting.
- Users should follow their doctor's advice on setting the oxygen flow rate and should not adjust the flow rate without consulting a healthcare professional.

Note: Patients should regularly consult with their physician to evaluate the need for adjustments in their oxygen therapy settings.

1.4.Patient Population

- The intended patient population for this device is adult patients who require supplemental oxygen therapy as prescribed by a healthcare professional.

1.5.Operator

- The device should be operated by the patient or a caregiver who has received appropriate training in its use.

1.6.Operating Environment

- This device may be used at home, in institutions, vehicles, trains, airplanes, boats, and other transport modalities.
- Keep the product away from direct sunlight as much as possible to avoid excessive local temperature.

1.7.Safety and Maintenance

- Regular maintenance and cleaning should be performed as described in the user manual to ensure the device functions correctly and safely.
- Only parts and accessories that are provided or authorized by the manufacturer should be used. Use of unapproved components may lead to safety risks or impaired performance.

1.8.Contraindications

- Do not use the device for patients who cannot breathe spontaneously or who require mechanical assistance for inhalation or exhalation.
- Do not use the device in the presence of flammable anesthetics or other flammable materials.
- Do not use the device for patients with a tracheostomy.
- Do not use the device for patients whose normal breathing at rest cannot trigger oxygen delivery.

1.9.Disposal of Waste Consumables

- Used nasal cannulas, filters, sieve column system and other waste should be disposed of in accordance with the requirements of the hospital or environmental protection department. Properly dispose of electronic and electrical waste (such as batteries, circuit boards, etc.) in accordance with relevant regulations of the local government.

2.Product Description

2.1.Symbols

Description of graphics, symbols, abbreviations related to the use of this product.

Symbol	Description	Symbol	Description
	Warning: No smoking		AC power
	Warning: Away from open flames		Class II equipment
	Warning: No oil or grease		Note: This side up
	Warning: Do not disassemble		Note: Maximum stacking level
	Warning: Do not use in MRI environment		Note: Temperature limit
	Warning or caution. Attention required		Use-by date
MD	Medical device		Note: Keep dry
SN	Serial number		Note: Proper disposal
	Date of manufacture		BF class equipment
LOT	Batch code		Note: Refer to user manual
#	Model number		Note: No rollover
	ISO 7000-0795 IEC/TR 60878: 2015		Note: Fragile
IP22	Protected from touch by fingers and objects greater than 0.5 in (12.5 mm). Protected from dripping water less than 15 degrees from vertical.		
	The manufacturer of this POC has determined this device conforms to all applicable FAA acceptance criteria for POC carriage and use on board aircraft.		
℞ ONLY	Caution: Federal law restricts this device to sale by or on the order of a physician.		
For icon displayed on the user interface panel refer to section 2.10.			

2.2.Product Class

- By category of protection against electric shock: Class II
- By extent of protection against electric shock: BF Class applied part
- By operating mode: Continuous operation
- By degree of safety when used with flammable anesthetic gas mixed with air or flammable anesthetic gas mixed with oxygen or nitrous oxide: Non-AP, Non-APG type
- Classified according to waterproof and dustproof requirements: IP22

2.3.Product Principle

- Oxygen concentrator refers to equipment that uses the principle of molecular sieve pressure swing adsorption to increase oxygen concentration by adsorbing nitrogen and other gas components.
- When the equipment is working, compressed air is injected into a closed adsorption tower equipped with molecular sieve column, increasing the pressure in the adsorption tower. The molecular sieve column in the adsorption tower absorbs a large amount of nitrogen in the compressed air as the ambient pressure increases. And the oxygen in the column compressed air still exists in the form of gas and is collected through certain pipelines. This process is often referred to as the "adsorption" process. When the nitrogen adsorbed by the molecular sieve column in the adsorption tower reaches the critical adsorption saturation state, the tower is depressurized. As the ambient pressure decreases, the molecular sieve column ability to adsorb nitrogen decreases, and the nitrogen is released back from inside the sieve bed and is discharged as waste gas. This process is often called "desorption". In order to ensure the continuous and stable output of oxygen, oxygen concentrators usually use two (or more) molecular sieve adsorption towers, controlled by a rotating separation valve, so that one adsorption tower is in the adsorption process while the other tower is in the desorption process. They work alternately to complete the continuous oxygen production process.

2.4.Product Model

- Model: WeOxy Q4, WeOxy Q5, WeOxy Q6, WeOxy Q7
- Note: WeOxy Q7 has 7 pulse flow rates: 1, 2, 3, 4, 5, 6, S (S represents the maximum output setting).
  WeOxy Q6 has 6 pulse flow rates: 1, 2, 3, 4, 5, 6.
  WeOxy Q5 has 5 pulse flow rates: 1, 2, 3, 4, 5.
  WeOxy Q4 has 4 pulse flow rates: 1, 2, 3, 4.

2.5.Product Composition

- This product consists of a casing, control panel, compressor, solenoid valve, molecular sieve columns, battery, cooling fan, gas container, control board, display screen, and nasal cannula (not included; user-supplied).

2.6.Main Structure

The USB-C power input port: This is intended only for use with the provided power adapter. Using unapproved chargers or connections may damage the device or compromise safety.

Note: It is normal that warm air is discharged from the air outlet. Covering the air inlet and outlet is strictly prohibited.

2.7.Operating Conditions

- Operating temperature*: 23°F (-5°C) to 104°F (40°C)
- Operating humidity: 5% to 90%, non-condensation state
- Operating atmospheric pressure: 54 kPa-106 kPa
- Operating altitude**: 0 to 16,400 ft (0 to 5000 meters)
- Mode of operation***: Continuous duty

* Based on atmospheric pressure of 14.7 psi (101 kPa) at 68°F (20°C) & Dry (STPD)

** When operated outside the specified limits, the concentrator may not maintain the specified oxygen concentration, particularly at higher settings.

*** Tested under maximum flow rate conditions. The device maintained stable oxygen concentration, stable output, and no overheating or overpressure events occurred during testing. For detailed information on continuous operation and battery duration, please refer to Section 2.15.4.

2.8.Power Supply Parameters

- AC Power: 100 to 240 VAC, 100VA, 50 to 60 Hz/Auto-Sensing: 2.0-1.0A
- DC Input range: 13.0-16.8 VDC, 100W, Max voltage: 12.0 - 16.8 VDC (±0.5)
- Battery type: Lithium ion
- Rechargeable battery: 14.4V/6500mAh or 14.4V/6900mAh

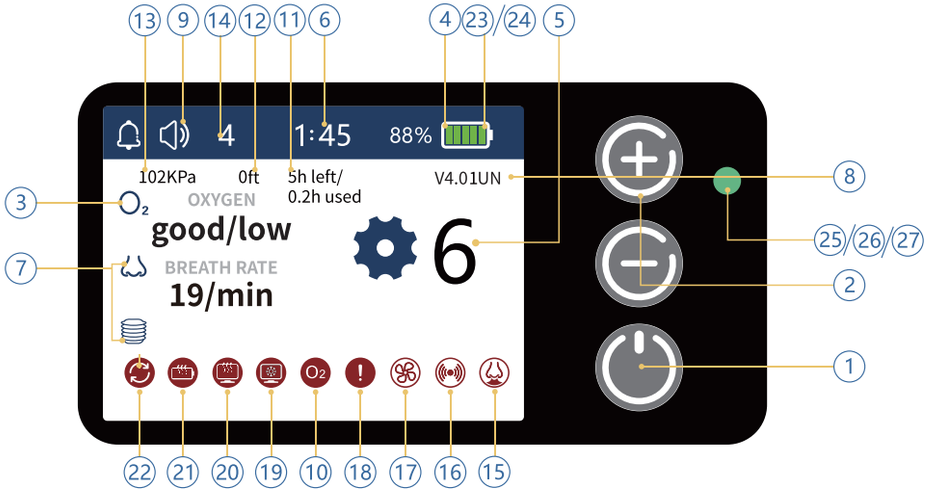
2.9.Transportation and Storage Conditions

- Temperature: -31°F (-35°C) to 158°F (70°C)
- Humidity: ⩽90% RH, non-condensing
- Store in a dry environment

2.10.Interface Display, Buttons, Icons, and Alarms

The device communicates its operating status through icons and alarms. This glossary explains the meaning of each icon and alarm to help users interpret the displayed information correctly.Some icons may appear in multiple alarm levels depending on conditions,and are further explained in Sections 2.10.3 to 2.10.6.

2.10.1.Informational Icons on Screen



BUTTON

No.	Button	Sound	Function	Operation
1		Power-on beep Power-off beep	On/Off	Press and hold for 2 seconds to turn on the machine; Press and hold for 3 seconds to turn off the machine.
2		Beep	Flow setting/ Key press volume adjustment	Short press the + button to increase the flow; Short press the - button to decrease the flow. Long press the - button for 3 seconds to adjust the key press sound volume. Continue pressing to cycle from level 1 to 4.

INTERFACE DISPLAY

No.	Icon	Name	Description
3	O_2	Oxygen concentrator status	Displays current oxygen concentration in two levels: Good (≥ 82%), and Low (< 82%), shown after two minutes of operation.
4		Power status	When charging, the indicator lights flash in turn.
5	6	Setting display	Adjustable flow rates, Note:WeOxy Q7(1-S) WeOxy Q6(1-6) WeOxy Q5(1-5) WeOxy Q4(1-4)
6	1:45	Usage time	Service time after startup
7		Breath rate	Shows the user's breath count per minute(BPM)
8	V4.01UN	Software version number	Shows the installed software version for troubleshooting and updates.
9		Key press sound Volume	Long press the - button for 3 seconds to adjust the key press sound volume. Keep pressing to cycle from 1 to 4. Note: This does not affect alarm volume, which is fixed for safety.
10	O_2	Oxygen concentration abnormal alarm	Triggered when oxygen concentration is below 82% for a period of 5 minutes, or no oxygen is detected after two breaths (shown with !). May also appear with other icons as a combined alert. For specific combinations, refer to Section 2.10.6.
11	5h left/ 0.2h used	Battery duration Total operating time	Remaining usage time of the current battery level/ Device total operating time
12	0ft	Altitude at Device Startup	The altitude detected when the device is powered on.
13	102KPa	Barometric Pressure at Device Startup	The barometric pressure (kPa) detected when the device is powered on.
14	1-5	Trigger sensitivity Level	Indicates the trigger sensitivity level used for breath detection (1-5). A default level is set for normal operation, with higher levels indicating higher sensitivity. This item is for display only; any adjustment, if required, should be performed by authorized provider or service personnel.

15		Alarm for breathing not detected	Triggered when no breath is detected for 60 seconds.
16		Alarm for Sensor Error	Indicates failure to read valid data from internal sensors, or abnormal compressor speed.
17	/	Ventilation prompt	A green fan icon appears alone when the fan runs at 100% speed for active cooling, without any temperature-related fault. A red fan icon appears when device or battery temperature is high, together with other warning icons. For specific combinations and responses, refer to Section 2.10.6.
18.(a)		Yellow Alert indicator	This icon indicates an emphasis. It is not displayed alone, but always appears together with to indicate that the oxygen concentration has been slightly low. For specific combinations and responses, refer to Section 2.10.4.
18.(b)		Alarm for pressure abnormal/ Alert indicator	Indicates internal pressure is too high or too low for the selected flow, possibly due to blockage or leakage. The device shuts down in 12 seconds. Note: This icon may also appear with other alerts (e.g., molecular sieve replacement or oxygen delivery error) for emphasis. For specific combinations, refer to Section 2.10.6.
19		Alarm for low device temperature	The internal temperature is too low (<0°C).
20		Alarm for high device temperature	The internal temperature is too high. Icons for high battery temperature and fan prompt will appear together. For specific combinations, refer to Section 2.10.6.
21		Alarm for high battery temperature	The battery temperature is too high. Icons for high device temperature and fan prompt will appear together. For specific combinations, refer to Section 2.10.6.
22.(a)		Change sieve columns (Yellow Alert)	The molecular sieve columns may require replacement. This yellow icon, shown together with , indicates that the oxygen concentration is below normal. It may appear in different situations, such as: -During device warm-up, if the concentration remains <87% after 2 minutes and 10 valid breaths; -During normal use, if the oxygen concentration remains slightly low (⩾82% and <87%) for 5 minutes. Please refer to Section 2.10.4 for detailed alert types and responses.

22.(b)		Change sieve columns (Red Alert)	The molecular sieve columns require replacement. This red icon indicates that the oxygen concentration has been below 82% for a period of 10 minutes. Note: This icon is not displayed alone. It is always shown together with . For detailed conditions and instructions, refer to Section 2.10.6.
23		Alarm for low battery	When the battery level is lower than 20%, the low battery alarm icon flashes.
24		Alarm for shut-down due to low battery	When the battery level is lower than 2%, the icon flashes.

Indicator			
25	Green indicator	Detect breathing	Green indicator on when breathing is detected
26	Blue indicator	Charging indicator	Blue indicator on when the device is charging
27	Yellow indicator	Alarm indicator	Yellow indicator on when abnormality is detected. A flashing light is higher priority than non-flashing.

Backlight:
A backlight will illuminate the screen for 5 seconds when the on/off button is briefly pressed.

2.10.2.Alarms and Prompts System Overview

This device uses a structured alarm system to notify users of device status and abnormalities through visual and audible signals. Alarms are classified into four levels based on the urgency of response and the potential risk to the user. Each alarm is associated with distinct combinations of visual icons, indicator lights, and sound patterns to ensure timely and appropriate response.

Alarm Classification		
Alarm Level	**Description**	**System Behavior**
LEVEL 1–Informational signals	General status updates or reminders that do not require immediate action.	Indicated by an icon and a single, short beep (no light) .
LEVEL 2–Low priority alarms	Early warnings of potential issues that may not immediately affect therapy.	Indicated by a solid yellow light and a short beep.
LEVEL 3–Low priority alarms (escalated)	Issues that persist or worsen over time, such as approaching system limits.	Indicated by a solid yellow light and two beeps every 20 seconds.
LEVEL 4–Medium priority alarms	Conditions that may affect therapy performance and require prompt attention, such as oxygen delivery failure or sensor error.	Indicated by a flashing yellow light and three beeps every 20 seconds.

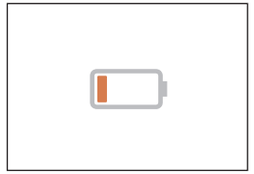
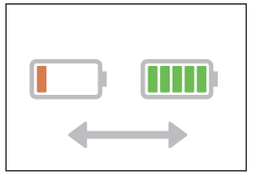
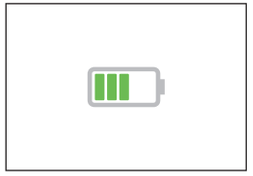
- Each alarm may involve one or more of the following indicators:
  - A visual icon displayed on the screen
  - A yellow or flashing yellow indicator light
  - Audible signals (beeps or buzzer patterns). More frequent beeps indicate higher priority conditions.
- If multiple alarm conditions occur simultaneously, the highest priority alarm will be displayed.
- The alarm system is designed to function properly when the device is carried in a shoulder bag or placed within range of an acceptable nasal cannula.
- Failure to respond to an alarm may result in serious adverse effects,including reduced oxygen supply orinjury. Seek immediate assistance if an alarm cannot be resolved.If an alarm occurs, follow the instructions provided for that alarm. If the condition cannot be resolved, switch to a backup oxygen source and contact your equipment provider.

WARNING: Audible alarms are intended to alert the user to potential problems. To ensure alarms are heard, the maximum distance the user can move away from the device should be determined based on the surrounding noise environment.

For detailed explanations of each specific alarm, its trigger condition, and user guidance, please refer to Sections 2.10.3 through 2.10.6.

2.10.3.Informational Signals (LEVEL 1)

Each of the following notification icons is accompanied by a single short beep.

Display icon	Description	What to do
	**Low battery** The battery level is lower than 20%.	Plug in the power source or replace the backup battery.
 Charging  Battery Power Status	**Power supply failure or loss of external power** The power status battery icon has stopped flashing, indicating that the device has switched to battery power. Eventually, the battery will be depleted.	Plug in the power supply to continue charging the battery.

2.10.4.Low Priority Alarms (LEVEL 2)

The following low priority alarms are accompanied by one short beep, and a solid yellow light.

Display icon	Description	What to do
 NOTE: This icon indicates a single alert triggered under different conditions in warm-up or normal use.	**Warm-up Extended (Low O_2)** Triggered when oxygen concentration remains below 87% after 2 minutes of warm-up and at least 10 valid breaths have been detected within the last minute.	Wait a few minutes to see if the oxygen concentration improves. The alarm will clear automatically; if it remains below 87%, it will stay active. Note: -This alert uses the same icon as the operational Change Sieve Columns (Yellow Alert). It may also be triggered again later during normal operation if the concentration drops below 87% for over 5 minutes. -Cold ambient temperatures may prolong warm-up time. -Frequent alerts during warm-up may indicate that column replacement will soon be required. Please contact your equipment provider if needed.
	Change Sieve Columns (Yellow Alert) Oxygen concentration is slightly low (⩾82% and <87%) for a period of 5 minutes.	Wait for a few minutes to see if the icon clears on its own. If the message persists, please contact your equipment provider for further evaluation.

2.10.5.Low Priority Alarms (LEVEL 3)

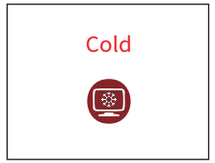
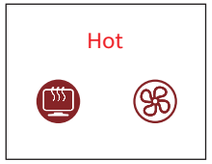
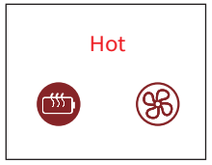
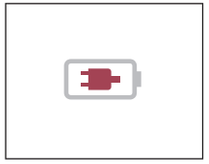
The following low priority alarms are accompanied by two beeps, repeated every 20 seconds, and a solid yellow light.

Display icon	Description	What to do
	**Low Oxygen Concentration** Oxygen concentration is lower than 82% for a period of 5 minutes.	If condition persists, please contact your equipment provider.

2.10.6.Medium Priority Alarms (LEVEL 4)

The following medium-priority alarms are indicated by three audible beeps repeated every 20 seconds, together with a flashing yellow indicator light.

Display icon	Description	What to do
	**No Breath Detected** The concentrator has not detected a breath for 60 seconds.	Check that cannula is connected to concentrator, there are no kinks in tubing and the cannula is positioned properly in your nose.
	**Sensor Error** Unable to read valid data from internal sensors (e.g., temperature, pressure, oxygen, breath, fan, or compressor), or when the compressor speed is outside the expected range.	If the condition persists, switch to a backup oxygen source and contact your equipment provider.
	**Oxygen Delivery Error** The device detects a breath, but fails to measure oxygen delivery after two consecutive inhalations.	If condition persists, switch to a backup oxygen source and contact your equipment provider.
	**Pressure Abnormal** The internal pressure beyond the limit (too high or too low) for the current setting. The device will shut down in 12 seconds.	Restart the device. If the condition persists, switch to a backup oxygen source and contact your equipment provider.

	**Device Cold** The internal temperature is below 0°C. An alert is triggered. If the temperature continues to drop, the concentrator will shut down and stop producing oxygen.	Move the device to a warmer location and allow it to reach an appropriate operating temperature before turning it on. If the condition continues, use an alternative oxygen supply and contact your equipment provider for assistance.
	**Device Hot** The device temperature is too high. If overheating continues, the concentrator will automatically shut down and stop producing oxygen.	Move the concentrator to a cooler location and ensure air intake and outlet vents have clear access and air inlet grill are clean. If the condition persists, switch to a backup source of oxygen and contact your equipment provider.
	**Battery Hot** The battery has exceeded the temperature limit. If the temperature continues to rise, the device will shut down and stop producing oxygen.	Turn off the concentrator and relocate it to a cooler, well-ventilated area. Check the air inlet, exhaust openings, and inlet grille, and remove any blockage or accumulated debris. Once these checks are complete, restart the device. If the alarm remains active, use a backup oxygen source and contact your equipment provider.
	**Shut Down Due To Low Battery** The battery level is lower than 2%. The concentrator will shut down and stop producing oxygen.	Plug in the power source or replace the backup battery Immediately.

	**Change Sieve Columns (Red Alert)** Oxygen concentration is lower than 82% for a period of 10 minutes.	If condition persists, switch to backup oxygen source and contact your equipment provider.

2.11.Precautions Before Use

Read this manual carefully before use to ensure correct installation and proper operation of the accessories.

- Please follow your doctor’ s advice to set your flow rate.
- When the device is used for the first time, remove all packaging and place them out of the reach of children to avoid suffocation.
- When the device is used for the first time, remove the battery insulation sticker.
- Respiratory pulse mode is used for oxygen supply, therefore oxygen is not released if no breathing is detected.
- If an extra breath is taken in rapid succession between normal breaths, the device may not register it, which can make it seem as though a breath was missed. This is normal. The device tracks changes in the breathing pattern and will typically deliver an oxygen pulse with the next detected inhalation.
- Please install the battery while using the device. The device will not operate without the battery, even when connected to external power.
- Do not touch any live components such as plugs, power cords, adapter connections with wet hands when using this product to avoid electric shock hazards.
- Do not damage or break the power cord or plug. Do not use a plug with loose wires to avoid fire or electric shock.
- It is prohibited to place heavy objects on this device.
- Do not put any part of your body near the outlet or other heating parts for a long time to avoid burns.
- When using this product, the air inlet should be located in a well-ventilated and pollution-free place. Do not cover the air inlet and outlet to avoid heat accumulation and reduced product performance.
- Keep the product away from direct sunlight as much as possible to avoid excessive local temperature.
- It is recommended to use the device at around 77°F (25°C). It is not recommended to use it when the ambient temperature exceeds 95°F (35°C). Do not use it when the ambient temperature exceeds 104°F (40°C). Too high

temperature will impair performance.

- Operation or storage in a humid environment for a long time may affect the performance of the molecular sieve columns.
- Do not operate the device in an upside-down position.
- It is normal to have a "whirring" sound after shutting down. The fan will stop working after 30 seconds to protect the service life of internal components.
- This product has a service life of 5 years from the date of production. Consumable components may degrade over time depending on usage conditions.
  Please replace consumables as needed to maintain proper device performance.
- Production date can be found on the nameplate.
- Note: Failure to install or use the device in accordance with the prescribed methods may result in personal injury risks, equipment damage and void the warranty.

2.12.Cannula Use

Ensure the selected cannula is compliant with ISO 80601-2-69 Medical Electrical Equipment, particular requirements for basic safety and essential performance of oxygen concentrator equipment.

- A non-compliant or incompatible nasal cannula may not deliver oxygen effectively, which can impair the basic performance of the device (user may not receive adequate oxygen) and compromise basic safety (user may experience hypoxia).
- DO NOT use cannula tubing longer than 7 feet (2.13 m) in Pulse Flow Mode.
- A single lumen nasal cannula rated at 6 liters per minute is required to ensure proper oxygen delivery.
- To ensure proper oxygen flow, confirm that the cannula is not pinched or blocked in any way.
- The cannula fitting may be tight.
- DO NOT use grease or oils to lubricate the oxygen outlet port.
- Read and follow the instructions included with the cannula and provided by your authorized dealer.
- Regularly clean and replace your cannula as instructed by the manufacturer and authorized dealer or healthcare provider.
- For Pulse Mode Use: A 5 ft (1.5 m) single-lumen nasal cannula is recommended.

Note: The device must be used with a nasal cannula provided by the user. The nasal cannula is not part of the equipment and must meet applicable safety requirements, including flame-retardant properties if required by local regulations. Users are advised to consult their healthcare provider to select a suitable nasal cannula. Where available, models with integrated fire-stop or flame-retardant features may be selected to further reduce the risk of fire propagation.

2.13.Unpacking Instructions

- Check whether the packaging box is damaged. If damaged, notify the shipping company and equipment supplier immediately.
- Carefully take out the machine and its accessories, and check with the packing list. If there are accessories that are inconsistent with the packing list or have quality problems, please contact the equipment supplier or after-sales service.
- Please keep the packaging box and materials for storage and transportation.

2.14.Packing List

No.	Name	Quantity	Remarks
1	Portable oxygen concentrator	1	Standard configuration
2	AC power cord & Adapter	1	Standard configuration
3	Carrying bag	1	Standard configuration
4	Shoulder strap	1	Standard configuration
5	User manual	1	Standard configuration
6	Quick start guide	1	Standard configuration

Accessories and replacement parts list

To ensure optimal performance and safety, only use power supplies, adapters, or accessories recommended in this manual. Using unauthorized accessories may pose risks and impact the device’ s functionality.
Please note that not all accessories are included with your system; however, they can be purchased separately. For additional optional accessories or replacement parts, please contact your healthcare provider.

Accessory	Catalog Number
High-performance battery	BA-408
Power battery	BA-704
Compressor filter kit (pack of 3)	QSFT100
AC Power adapter & USB-C Power cord	AC100
Carrying case & All straps (Shoulder strap, Backpack straps, Hip belt)	CB101/CB104
External battery charger	AC104
DC car charger & Cable	DC165W
Accessory tote	CB102
Pulse oximeter	YM403

2.15.Operating Instructions

2.15.1.Operating Principles & Essential Performance

The concentrator draws ambient air through particle filters and uses a compressor and molecular sieve columns to remove nitrogen The resulting oxygen-enriched gas is collected in an accumulator reservoir When inhalation is detected, the device delivers a specified pulse dose through a final filter and the connected nasal cannula. The delivered oxygen concentration is 90% by volume, with a tolerance of −3%/+5.5%, at all settings.

Because the device produces oxygen-enriched gas from ambient air, keep the device and its surrounding area clean. Although the device contains multiple filters, operation in dusty or contaminated environments may shorten filter service life and require more frequent replacement.

The device is designed to maintain the following essential performance without periodic re-verification:

① Issues a technical alarm as the battery approaches depletion.

② Issues a technical alarm upon loss of the power supply.

③ Issues an alarm whenever oxygen delivery falls outside the performance levels stated in this manual, under both normal and single-fault conditions.

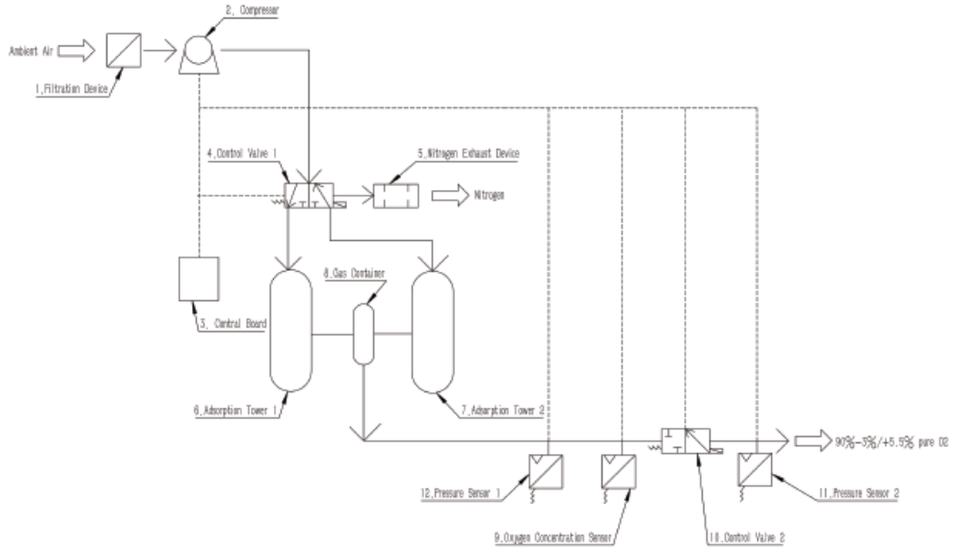
④ Issues a technical alarm when oxygen concentration falls below 82% (volume fraction).

⑤ Delivers the intended oxygen dose, or indicates that operation has become abnormal.

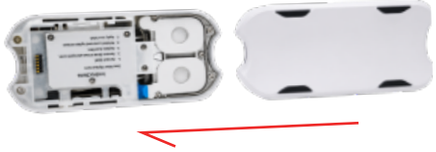
⑥ Issues a technical alarm upon device malfunction.

2.15.2.Pneumatic Diagram

Process flows from left to right.

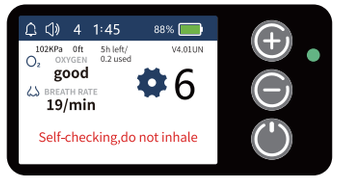


2.15.3.Using Your Concentrator

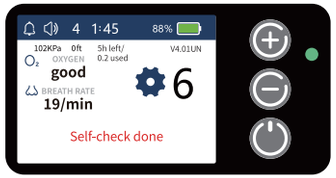
Step	Description	
1	**Take out the device from the carrying bag**	
2	**Remove the insulation sticker** ①Remove the battery from the device. ②Remove the insulation sticker before using the battery for the first time. ③Align the buckle with the bayonet. Push the battery in the direction of the arrow.	  

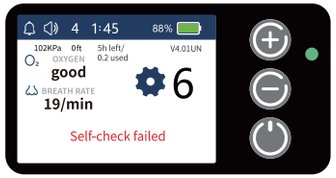
Step	Description	
3	**Connect your concentrator to an appropriate power source** Select appropriate power connection conditions according to the usage environment. ① When using battery only: Install the battery dedicated for this device to the corresponding interface. The battery should be securely installed. ② When using AC power adapter: Connect the AC power adapter and the power cord firmly. Connect the power cord to a wall outlet rated AC 100–240V, 50/60 Hz. Then connect the AC power adapter output plug to the device's DC power input port. After connecting the AC power adapter, the device is in standby for operation, and can be turned on immediately for oxygen delivery. The power adapter coming along with the product complies with the safety requirements of the IEC 62133 standard.	  

Step	Description
	Note: · When the adapter or battery is connected, current power supply status is displayed on the main interface of the device. · It is prohibited to remove the battery while the device is operating. · Only use power adapters coming along with the product. · Only use batteries coming along with the product. · When the battery is not in use, always protect the battery interface and the interface on the device.See Section 2.18.3 – B. Battery Maintenance for details. · Do not contact the interfaces with conductors or directly with your hands. · When using the battery as the sole power source and the device automatically shuts down due to battery depletion, do not attempt to restart the device with the same depleted battery, as this may affect battery life and device performance.
4	**Turn on your concentrator** ① Press and hold the power button until you hear one short beep (about 2 seconds). This indicates successful startup. ② Device Self-Test (includes Alarm Indicator Check) After powering on, the device will automatically perform a 5-second self-test. This process checks whether valid data can be read from key internal sensors, including: Temperature sensor (machine and battery), Pressure sensors (1 and 2), Oxygen concentration sensor, Fan sensor, Compressor sensor (also

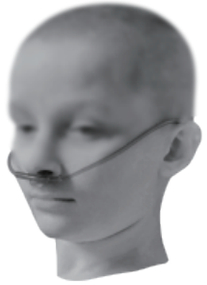


Step	Description
	checks whether speed is within the expected range), and the alarm system (all alarm icons, lights, and buzzer will briefly activate to confirm functionality). · If the self-test passes, the screen will display “Self-check done”, and all alarm indicators—including icons, indicator light, and buzzer—will briefly activate to confirm the alarm system is functioning properly. The device is then ready for use. · If the self-test fails, the screen will display “Self-check failed” and the device will automatically shut down. Please restart the device. If the issue persists after several attempts, contact your equipment provider. **Note:** · Do not inhale during the self-test, as it may interfere with the result. · If the alarm indicators do not appear after a successful self-check, this may indicate a malfunction. Please contact your equipment provider. ③Following a brief start-up sequence, a warm-up period up to 2 minutes will initiate. During this time, the oxygen concentration is increasing but may not yet be within the specified range. **Note:** Additional warm-up time may be needed if the device has been stored in very cold environments.





Step	Description	
5	**Set your concentrator's flow setting** a.Follow your doctor's advice to set the oxygen flow rate. b.Use the + or – setting buttons to adjust to the desired setting. c.The current setting can be viewed on the display.	
	Note: · DO NOT change the prescribed setting without your physician' s instruction. · An incorrect setting may deliver too much or too little oxygen and cause harm. · Have your physician review your oxygen therapy settings regularly.	
6	**Connecting nasal cannula** ① Connect the trumpet end of a recommended nasal cannula to the metal air outlet on the device, and ensure that the connection is reliable and air tight. Be careful not to kink or block the cannula to avoid causing alarms and affecting normal use. ②a. Position the cannula under your nose with the prongs in your nostrils. Route the tubing over and behind your ears, adjust for comfort, and follow the manufacturer' s instructions.	

Step	Description	
	b. Breathe through your nose. c. A green light will flash each time a breath is detected. d. Ensure that the nasal cannula is correctly positioned and that you are breathing through your nose. e. The concentrator detects the beginning of each inhalation and delivers a precisely timed pulse of oxygen. f. The device will sense each breath and continue to deliver oxygen in this manner. g. The device monitors changes in your breathing rate and delivers oxygen pulses accordingly.	
	Note: · For detailed information on the selection and use of nasal cannulas, please refer to Section 2.12, "Cannula Use," in this manual.	
7	**Turn off your concentrator** Long press the power button 3 seconds when the device is working. The device beeps and enters the shutdown interface, and will be automatically powered off.	
	Note: · If only the AC adapter is connected and no battery is installed, the device screen will remain powered. In this state, the device cannot operate or deliver oxygen. To fully power	

	off the device, manually disconnect the adapter from the power source. · If the battery is installed and the device is not in use, the screen will display the current battery level along with a charging icon. Once the battery is fully charged, please disconnect the adapter to power off the device completely. · If the device is operating solely on battery power, powering it off will shut down the system entirely, and the screen will turn off.

2.15.4.Continuous Operation and Battery Duration

The device is designed for continuous duty operation and can operate continuously at all specified flow settings when connected to an external AC power source. The device has been validated for continuous use at the maximum flow setting for up to 24 hours without performance degradation or safety concerns.

- When powered by the internal rechargeable battery, the maximum continuous use time depends on the selected flow setting. The following table shows the typical battery duration for a new, fully charged battery under nominal conditions:

Flow Setting	High-performance battery duration in hours(BA-408)	Power battery duration in hours(BA-704)
1	Up to 6:50	Up to 8:00
2	Up to 5:00	Up to 5:35
3	Up to 3:00	Up to 3:25
4	Up to 2:00	Up to 2:20
5	Up to 1:40	Up to 2:00
6	Up to 1:25	Up to 1:35
S	Up to 1:10	Up to 1:25

Note: Battery duration may vary depending on environmental conditions, battery age, usage pattern, and flow setting. Values shown represent typical performance of a new, fully charged battery at room temperature (approximately 20°C).Time shown is an average and may vary ± 10%.

- This device is intended for portable use during mobility activities and is not designed to serve as a stationary bedside oxygen concentrator for long-term continuous oxygen therapy.

- Users must ensure access to a backup oxygen source in case of battery depletion or power interruption. Follow your doctor' s prescription regarding duration and flow setting. Do not exceed the battery' s expected operating time without access to charging or a backup supply.

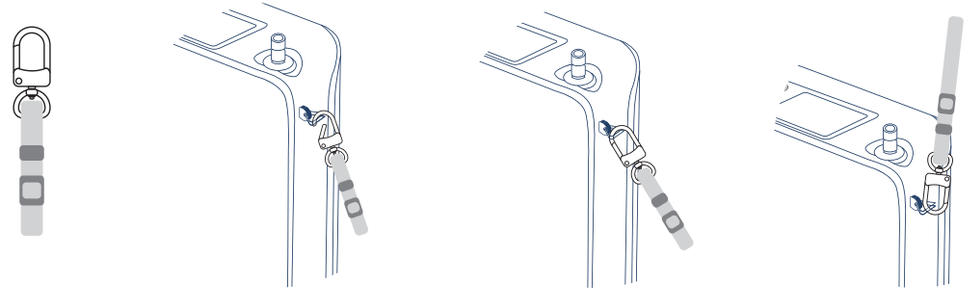
2.15.5.Fire and Overheat Protection Mechanism

The device incorporates multiple protection features to reduce the risk of fire propagation and overheating:

- **Polyethylene (PE) filter at the oxygen outlet:** This component is designed to melt and block the gas flow in the presence of flame, serving as a passive fire shut-off mechanism to prevent upstream flame propagation into the device.
- **Automatic oxygen shutoff:** Oxygen delivery stops if no inhalation is detected. (Note: If inhalation does not resume within 60 seconds, the device automatically switches to auto pulse mode to maintain standby readiness.)
- **Overheat protection:** Internal temperature sensors monitor system conditions and trigger automatic shutdown if the internal temperature exceeds 60 °C.
- **Structural oxygen isolation:** Internal high-concentration oxygen pathways are fully enclosed and physically isolated from electrical components and ambient air, preventing oxygen accumulation near potential ignition sources.

All fire protection features are built into the device and function automatically during normal operation. Users are advised to keep the device away from heat sources and open flames.

2.16.Instruction for Using the Strap



2.17.Traveling With Your Concentrator

- The FAA allows this device on board most U.S.aircraft.
- **IMPORTANT:** Before domestic or international air travel, the patient must contact the airline to confirm its requirements for carrying and using the device.
- When traveling, bring the AC power supply and use AC power whenever available to conserve battery charge.
- Before air travel, carry enough charged batteries to operate the concentrator for at least 150% of the expected travel time, including flight, ground time, security screening, connections, and possible delays. Protect spare batteries against short circuits and carry them in carry-on baggage only, as required by applicable FAA rules. The AC power supply cannot charge the battery during flight. For bus, train, or boat travel, confirm power outlet availability with the carrier in advance.
- The patient is responsible for arranging an adequate backup oxygen supply before travel. To the extent permitted by applicable law, the manufacturer is not liable for interruptions in oxygen therapy resulting from the patient' s failure to arrange such backup.

2.18.Cleaning Care and Maintenance

- Perform regular visual inspections of the device. ISO 80601-2-67 Clause 201.79.2.12. A typical visual inspection includes:
  Battery connectors should not be bent or deformed.
  Check that the device casing is secure and free of cracks or other visible damage.
- The device has a built-in sensor that detects gas leakage and abnormal airflow. If a flow issue is detected, the device will trigger an alarm. For manual checks, gas should be flowing freely to the nasal cannula. You should be able to hear or feel the gas flow at the prongs of the nasal cannula. Wave your hand in front of the prongs to check. If unsure, submerge the cannula end in water. If bubbles appear, the flow is normal; If not, check connections or contact support.
- DO NOT service or maintain the equipment while it is operating.
- DO NOT open or disassemble the device or its accessories, or perform maintenance other than the user-serviceable tasks described in this manual. Unauthorized disassembly may create an electric shock hazard and may void the warranty. Do not remove or damage the tamper-evident label. For all other service, contact your equipment provider; servicing must be performed by authorized personnel.
- Use only spare parts recommended by the manufacturer to ensure proper function and to avoid the risk of fire and burns.

2.18.1.Air Inlet Grille Cleaning

Weekly Cleaning:

Clean the air inlet grille weekly using a dry, soft cloth, or a slightly damp cloth that is not dripping. This ensures optimal airflow and device efficiency.

Cleaning Steps:

① Power Off: Ensure the concentrator is turned off and unplugged before cleaning to avoid electrical shock or damage.
② Remove Attachments: Take off any external parts that block access to the grille.
③ Wipe Grille: Use a soft, dry cloth to clean the grille. If needed, use a damp cloth (well-wrung to avoid moisture inside the device).
④ Check for Damage: Inspect for any cracks or deformations. If found, contact the manufacturer or technician.
⑤ Dry Completely: If a damp cloth was used, let the grille air dry before reassembling or using the device.

Caution:

- Avoid Liquids: Do not let water or liquids enter the grille or device.
- No Harsh Chemicals: Avoid alcohol, chlorine, or petroleum-based products, as they may damage the device.
- Weekly Maintenance: Regular cleaning ensures the concentrator works optimally.

2.18.2.Replacement of Nasal Cannula

- Users can purchase nasal cannulas according to their needs, but they need to ensure that the following conditions are fully met:

① Contact the equipment supplier or purchase under the guidance of your doctor;
② Fits well with the air outlet of this product and no air leakage;
③ Correctly wear the nasal cannula and use it according to corresponding instructions.
④ Replace the nasal cannula as specified in the cannula manufacturer' s instructions for use. Consult your physician or equipment provider if further guidance is needed.

2.18.3.Replacement and Maintenance of Battery

A. Replacement instructions

Step	Description	
1	To remove the battery: Press the buckle as shown in the red circle in picture ①, and slide the battery out in the direction indicated by the arrow in the picture.	 Picture①
2	Remove the insulating tape on the battery surface. Make sure that the insulating tape is removed before using the device, otherwise the device cannot be powered on. To install the battery: Align the battery with the slot and slide it into the device in the direction indicated by the arrow in picture ②.	 Picture②

B. Battery maintenance

- This device requires the specified battery equipped at the manufacturer, and one battery is provided with the device. Users can contact designated sellers to purchase batteries as needed.
- Battery service life: 500 times of full charge and discharge cycles.
- Keep Dry: Keep all liquids away from the batteries. If a battery becomes wet, discontinue use immediately and dispose of it properly.
- When the device is not used for a long period of time, remove the battery and protect the battery electrodes from contact with conductors such as metal to prevent hazards such as fire. When storing batteries, keep them out of reach of children.
- When the battery is removed, keep the battery port and the connector on the device clean and dry.
- Avoid touching the connector pins or exposing them to metal objects, dust, or moisture.
- If the battery will not be used for more than three months, remove it from the device and store it in a cool, dry indoor place at around 25 °C, 45–75% relative humidity, and at approximately 40–50% charge. Do not let the charge fall below 40%.
- During storage, check the battery about every two months (roughly every 60 days). When the charge approaches 40%, recharge it to about 50%.
- If the battery has been stored for a long time (for example, six months or more), perform one full charge and discharge cycle before reuse to recalibrate the charge indicator.
- Never put the battery in a fire, otherwise it may cause an explosion.
- Never use chemical solvents such as benzene, acetone, or similar organic solvents to clean the battery.
- Do not disassemble the battery casing.
- Do not install batteries in hazardous environments.
- Never touch the battery with wet hands.
- Stop using the battery if it makes a noise, has an unusual temperature, or leakage occurs.
- Do not squeeze or hit the battery, otherwise it will heat up or catch a fire.
- Over-charging is prohibited.
- Over-discharging is prohibited.
- Use specified charger for charging.

- Only use lithium batteries designed for our product.
- Battery disposal: Contact your equipment provider for instructions on proper battery disposal. Lithium-ion batteries are recyclable and must never be incinerated.

2.18.4.Maintenance of Carry Bag

A. Carry bag overview

Item	Description	
1	Carry bag for protecting the device.	

B. Proper maintenance and care

The carry bag provided with the oxygen concentrator is designed to protect the device and facilitate easy transport. To ensure its longevity and maintain its functionality, please follow these guidelines for cleaning and maintenance:

Regular cleaning:

① Remove the oxygen concentrator from the carry bag before cleaning.
② Shake out any loose debris from the bag.
③ Clean the exterior of the bag with a damp cloth and mild detergent. Avoid using harsh chemicals as they can damage the material.
④ If necessary, the bag can be hand-washed in lukewarm water with mild detergent. Do not submerge the bag in water or wash it in a washing machine.
⑤ Allow the bag to air dry completely before placing the concentrator back inside. Do not use a dryer or expose the bag to direct heat sources.

Inspection for damage:

- Periodically inspect the carry bag for any signs of wear and tear, such as frayed seams or torn fabric.
- Ensure that all fasteners and straps are in good working condition and securely attached.
- If the bag is damaged, it may not provide adequate protection for the concentrator. Contact your equipment provider to purchase a replacement if needed.

Proper storage:

- Store the carry bag in a cool, dry place when not in use.
- Avoid exposing the bag to extreme temperatures or direct sunlight for extended periods, as this can degrade the material and shorten its lifespan.

Handling precautions:

- Do not overload the carry bag with additional items that could cause strain on the seams.
- Avoid placing sharp or heavy objects in the bag that could puncture or damage the fabric.
- By following these maintenance guidelines, you can ensure that the carry bag remains in good condition, providing effective protection and easy transport for your oxygen concentrator.

2.18.5.Service Life

- Main body of oxygen concentrator: 5 years
- Molecular sieve columns: Replace as indicated by system alarm
- Battery: 500 times of full charge and discharge
- When the main body of the oxygen concentrator is approaching the end of its service life, it may result in impaired performance or equipment faults. Please pay attention to oxygen flow, concentration, fault and other related alarm information.
- When the molecular sieve columns are approaching the end of their service life, the internal pressure may be increased with oxygen concentration decreased. Please pay attention to pressure, concentration, and other related alarm information.
- When the battery is approaching the end of its life, it may cause abnormal conditions such as the battery being unable to charge or discharge, charging slowly, and battery life decreasing sharply. Please pay attention to relevant alarm information such as battery status, battery health, and battery replacement.
- **Note:** The service life in the table is a recommended value. The actual service life will change with actual operating environment and usage. Please pay close attention to the equipment usage status and relevant alarm information.

2.18.6.Maintenance Cycle

Item	Maintenance cycle	Maintenance method	Note
Molecular sieve columns	Maintenance is condition-based; follow device alarm indications	Please contact your equipment provider to arrange for service.	/
Battery	Once every 2 months	Charge to about 40%- 50%	Model: BA-408/BA-704

- **Note:** The maintenance cycle in the table is a recommended value. The actual cycle will change with actual operating environment and usage. Please pay close attention to the equipment usage status and relevant alarm information.
- **Note:** Replacement of internal components should be performed by authorized service personnel only.

2.18.7.Device Cleaning

- Periodically clean the casing as follows:
  ① Make sure the concentrator is off and is taken out from the carry bag.
  ② Clean the outside casing using a cloth dampened with a mild liquid detergent and water.
  ③ After completing the cleaning process, thoroughly clean the device again if any visible contamination remains. Perform a visual inspection and repeat the cleaning steps until the device is visibly clean.
  ④ Before placing the concentrator back into the carry bag or backpack for operating, allow the concentrator to air dry, or wipe it with a dry cloth.

Caution:

- Liquid can damage internal components and create a risk of electrical shock. Always keep the device dry.
- Turn off the concentrator and unplug the power cord before cleaning.
- Wipe the device with a clean, soft, slightly wet cotton cloth or sponge, and it is recommended to perform the cleaning once a week. Never let the device get wet or get water into it. This will cause the device to malfunction or shut down, and also increase the risk of electric shock.
- DO NOT allow cleaning solution to enter the air intake or exhaust openings.
- DO NOT apply cleaning agents directly to the casing. The plastic casing of the device may be damaged by

chemical cleaners, including but not limited to highly concentrated chlorine-based cleaning solutions (e.g., bleach), petroleum-based products.

- DO NOT rinse or wash the product with running water.
- DO NOT immerse the device or its accessories in any liquid.
- Harsh or corrosive chemicals may damage the concentrator.
- DO NOT clean with alcohol and alcohol-based products (e.g., isopropyl alcohol), concentrated chlorine-based cleaning products (e.g., bleach), petroleum-based products, or any other harsh chemical agents.
- Never get liquid into the device. Pay special attention to ensure that the oxygen outlet is free of dust, water or other particles. Do not use organic solvents or other flammable, explosive and volatile substances for cleaning. Please make sure the device is completely dry before use.
- Ensure that the device casing is properly fitted and securely attached, with no cracks or other visible damage.
- Clean the exterior of the device weekly and clean the accessories as needed.

2.18.8.Oxygen Outlet Filter Replacement

- The oxygen outlet connects the gas pathway to the nasal cannula. A replaceable outlet filter is located below the oxygen outlet and is intended to maintain cleanliness in the oxygen path.
  To replace the oxygen outlet filter, follow these steps:
  ① Use the spanner wrench tool to turn the oxygen outlet counterclockwise to loosen it.
  ② Remove the oxygen outlet and take out the filter from the recessed area below.
  ③ Check that there is no debris left inside. Insert the new outlet filter into place.
  ④ Reinstall the oxygen outlet and turn it clockwise until securely attached. Do not overtighten.

- The oxygen outlet filter is located at the patient-end interface and may be exposed to ambient particles or indirect contact during use.
- For infection control purposes, it is recommended to replace the filter between patients or whenever the oxygen outlet is removed.

2.19. Troubleshooting

Problem	Possible cause	Solution
Unable to power on	Battery not correctly installed	Remove and re-install the battery.
	Battery is exhausted	Connect the device to external power supply to charge the battery, or replace it with a fully charged spare battery.
	Poor connection to AC power	Check the power connection, check if the blue indicator is on.
	Equipment failure	Contact your equipment provider.
No oxygen output	Nasal cannula kinked or blocked	Check the nasal cannula and its connection to oxygen outlet.
	Equipment failure	Contact your equipment provider.
Insufficient oxygen concentration	Equipment or sieve columns needs to be repaired	Contact your equipment provider.
Other prompts	Refer to Section 2.10 Interface Display, Buttons, Icons, and Alarms	

Note: If the oxygen concentrator has other faults that cannot be rectified, please contact the supplier or manufacturer.

Following states are not equipment faults:

- The air outlet serves as a heat dissipation vent. When the device operates for a long time or the ambient temperature is high, the temperature of the air discharged from the device will increase, which is normal.
- This machine is designed with high temperature protection. If the outlet is blocked or the temperature of the device becomes too high due to other reasons, the device will automatically shut down for protection.

3.Technical description

3.1.Specifications

Product name	Portable oxygen concentrator			
Product model	WeOxy Q7	WeOxy Q6	WeOxy Q5	WeOxy Q4
Product size	L / W / H: 6.97 in/3.03 in/7.64 in(17.7 cm/7.7 cm/19.4 cm)			
Net weight	3.97lbs ± 0.3 lbs (1.8kg ± 0.1kg)			
Sound level	Maximum sound power level: 57.9 dBA (at maximum flow setting S) Maximum sound pressure level: 50.5 dBA (at maximum flow setting S) Typical alarm sound pressure level: 58.8-60.9 dBA (Measured at lowest and highest flow settings, inside the carry bag) (Sound pressures measured at 1 meter per ISO 3744)			
Oxygen concentration	90% - 3% /+ 5.5% at all settings			
Warm up time	2 minutes			
Inspiratory trigger sensitivity	<0.12 cmH_2O			
Maximum outlet pressure	<28.9 PSI (199 kPa at 50 SLPM)			
Flow control settings	Pulse dose setting 1,2,3,4,5,6,S	Pulse dose setting 1,2,3,4,5,6	Pulse dose setting 1,2,3,4,5	Pulse dose setting 1,2,3,4
Bolus setting and size per bolus	See table below. Based upon Breath rate and setting. Total delivered: 210 to 1470 ml/min			
Maximum recommended flow	1.47L/min (When WeOxy Q7 is set to flow rate S, oxygen concentration 90%-3%/+5.5% (V/V)) 1.26L/min (When WeOxy Q6 is set to flow rate 6, oxygen concentration 90%-3%/+5.5% (V/V)) 1.05L/min (When WeOxy Q5 is set to flow rate 5, oxygen concentration 90%-3%/+5.5% (V/V)) 0.84L/min (When WeOxy Q4 is set to flow rate 4, oxygen concentration 90%-3%/+5.5% (V/V))			
AC power	100 to 240 VAC, 100VA, 50 to 60 Hz/Auto-Sensing: 2.0-1.0A			
DC power	13.0–16.8 VDC, 100W, Max voltage: 12.0 to 16.8 VDC (±0.5)			
Battery Duration	High-performance battery duration in hours(BA-408)1:10~6:50hrs Power battery duration in hours(BA-704)1:25~8:00hrs			

Respiratory rate	10-40 BPM						
Flow setting	1	2	3	4	5	6	S
Total flow (ml/min)	210±15%	420±15%	630±15%	840±15%	1050±15%	1260±15%	1470±15%
Battery re-charge time	Up to 2 hrs (100W Type-C super fast charge)						
Operating temperature *	23°F (-5°C) to 104°F (40°C)						
Operating humidity	5% to 90%, non-condensation state						
Operating Altitude**	0 to 16,400 ft (0 to 5,000 m)						
Operating atmospheric pressure	54 kPa-106 kPa						
Shipping and storage temperature	-31°F (-35°C) to 158°F (70°C)						
Shipping and storage humidity	⩽90% RH, non-condensing						
Transportation requirement	Keep dry, handle with care, do not turn upside down or place on its side, do not rotate						
Category of protection against electric shock	Class II						
Extent of protection against electric shock	Type BF applied part						
Measurement uncertainties	Pulse volumes: ± 15% of rated volume Pressure: ± 0.03 psig (General) / ± 0.05 cm H2O (Inspiratory Trigger Sensitivity) Oxygen concentration: ± 3% (not accounting for temperature, barometric pressure, and time from measurement device calibration)						
Use in flammable anesthetic gas environments	Not suitable for use in the presence of flammable anesthetic mixtures with air, oxygen, or nitrous oxide.						

* Based on atmospheric pressure of 14.7 psi (101 kPa) at 68°F (20°C) & Dry (STPD)

** Outside the specified operating limits, the concentrator may not maintain the specified oxygen concentration, especially at higher settings.

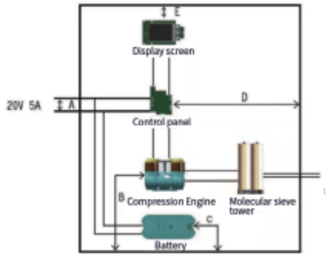
3.2.Pulse Volume Flow Settings*

Flow setting(ml)							
Respiratory rate per minute	Setting 1	Setting 2	Setting 3	Setting 4	Setting 5	Setting 6	Setting S
10	21.0	42.0	63.0	84.0	105.0	126.0	147.0
15	14.0	28.0	42.0	56.0	70.0	84.0	98.0
20	10.5	21.0	31.5	42.0	52.5	63.0	73.5
25	8.4	16.8	25.2	33.6	42.0	50.4	58.8
30	7.0	14.0	21.0	28.0	35.0	42.0	49.0
35	6.0	12.0	18.0	24.0	30.0	36.0	42.0
40	5.3	10.6	15.8	21.0	26.3	31.5	36.8
Total flow rate (ml/min)	210	420	630	840	1050	1260	1470

- The set flow rate is reached with a tolerance of ±15% after the portable molecular sieve oxygen concentrator is turned on for 2 minutes.

* Based on atmospheric pressure of 101.3 kPa (14.69 psi) at 20°C (68°F) & Dry (STPD)

3.3.System Circuit Diagram



4.Electromagnetic Compatibility

4.1. General EMC Warnings

- Use only the accessories and cables specified or provided by the manufacturer. Use of others may result in increased electromagnetic emissions or decreased electromagnetic immunity, leading to improper operation.
- Avoid exposure to strong electromagnetic sources, for example:
  - Diathermy, lithotripsy, electrocautery
  - RFID (Radio-Frequency Identification)
  - Security systems such as anti-theft gates, electronic article surveillance, and metal detectors

If such interference is suspected, reposition the device or the interfering source to increase the distance.

- WARNING: Keep portable RF communications equipment, including antenna cables and external antennas, at least 30 cm (12 inches) from the device and its specified cables. Closer operation may impair device performance.
- Do not operate the device directly beside or stacked with other equipment. If this cannot be avoided, verify normal operation in the intended configuration. If abnormal operation occurs, increase the separation distance or reposition either device.

4.2. Guidance and Manufacturer's Declaration—Electromagnetic Immunity

The concentrator may be used in the EMC conditions typically found in homes, institutions, and common transport environments, including vehicles, trains, aircraft, and boats. Operate the device only under the conditions defined in this section. The immunity tests listed below showed that oxygen-delivery performance remained within the applicable acceptance limits.

Immunity Test	IEC 60601 Test Level	Electromagnetic Environment Guidance
Conducted RF IEC 61000-4-6	3 Vrms 150 kHz to 80 MHz 6Vrms ISM and amateur frequencies	The Portable Oxygen Concentrator is suitable for the electromagnetic environment of typical home, institution, vehicle, train, airplane, boat and other transportation environments.
Radiated RF IEC 61000-4-3	10V/m 80 MHz to 2.7 GHz	
Electrostatic discharge (ESD) IEC 61000-4-2	± 8 kV contact ± 2, 4, 6, 8 and 15 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient/burst IEC 61000-4-4	± 2 kV for power supply lines	Mains power quality should be that of a typical home, institution, vehicle or other transportation and mobile environments.
Surge IEC 61000-4-5	± 1 kV line(s) to line(s)	Mains power quality should be that of a typical home, institution, vehicle or other transportation and mobile environments.

Immunity Test	IEC 60601 Test Level	Electromagnetic Environment Guidance
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	0% UT for 0.5 cycle at 0 °, 45 °, 90 °, 135 °, 180 °, 225 °, 270 °, and 315 °. 0% UT for 1 cycle 70% UT for 25/30 cycle 0% UT for 200/300 cycle	Mains power quality should be that of a typical home, institution, vehicle and other transportation and mobile environments. If the user of this device requires continued operation during power mains interruptions, it is recommended that the device be powered from an uninterrupted power supply.
Power frequency (50/60 Hz) Magnetic field IEC 61000-4-8	30 A/m	Power frequency magnetic fields should be at levels characteristic of a typical home, institution, vehicle and various mobile environments. Power frequency magnetic fields from common appliances in the home are not expected to affect the device.
NOTE: UT is the a.c. main voltage prior to application of the test level.		

4.3. Guidance and Manufacturer' s Declaration—Electromagnetic Emissions

The concentrator is intended for use in home, institution, vehicle and other transportation and mobile environments. The user of the concentrator should assure that it is used in such an environment.

Emissions Test	Compliance	Electromagnetic Environment Guidance
RF emissions CISPR 11	Group 1	The concentrator uses RF energy only for its internal function. Therefore, its RF emissions are very low and not likely to cause any interference in nearby equipment.

Emissions Test	Compliance	Electromagnetic Environment Guidance
RF emissions CISPR 11	Class B	The concentrator is suitable for use in all establishments, including domestic establishments and those directly connected to the public low- voltage power supply network that supplies buildings used for domestic purposes.
Harmonic Emissions IEC 61000-3-2	Class A	
Voltage fluctuations / flicker emissions IEC 61000-3-3	Complies	

5.Warranty

(1) The warranty of the molecular sieve columns and battery of the oxygen concentrator is 1 year from the sales date, and the whole machine is guaranteed for 3 years except for consumables such as molecular sieve columns. If the product fails to operate normally (except for improper operations), we will repair or replace the machine.
(2) If it is necessary to maintain the product due to failures which are not caused by unscheduled maintenance or operations not following the instructions, please contact your equipment supplier.
(3) All repair services must be performed by the designated repair service center.
(4) During the warranty period, any failure attributable to defects in materials or workmanship, under normal use conditions, will be repaired or replaced free of charge.
(5) If the warranty expires, repair will be charged.
(6) If damage is caused by improper use, paid repair services can be provided.
(7) It is prohibited to block the left and right air inlets of the oxygen concentrator to prevent damage to the equipment.
(8) In order to avoid damage, electric shock and other accidents, it is prohibited to disassemble the equipment without permission.
(9) Only use adapters shipped with this device for charging.
(10)Following situations are not covered by the warranty:
① Consumable items: nasal cannula, compressor filter;

② Liquids such as water and medicine entering the machine due to artificial reasons and the device
③ The machine (including some components) is damaged or deformed due to collision;
④ The machine is exposed to water or rain;
⑤ Failure caused by unauthorized disassembly, repair, or modification of the product;
⑥ Failure caused by accidentally falling during use and transportation;
⑦ Failure caused by failing to operate in the correct way according to the instructions;
⑧ Damage caused by unforeseen natural disasters (such as fire, earthquake, flood, etc.).

6.Non-Warranty Agreement

- To ensure your legitimate rights and interests, we provide professional after-sales support services. At the same time, to avoid unnecessary disputes, please note the following items:

(1) If liquid is found during the disassembling test of the machine, the machine is damaged due to factors such as falling, severe extrusion, unauthorized disassembly, artificial damage, or damage caused by removing the label, and the warranty period exceeds (one year for the molecular sieve columns), the non-warranty maintenance and maintenance cost will be notified to you for confirmation before repairing. If you do not agree, the machine will be returned to you.

(2) For machines that are recognized by us as non-warranty situations due to factors such as moisture, liquid intrusion, falling, unauthorized disassembly, etc., we do not guarantee that they can be completely repaired. If they cannot be repaired ultimately, the after-sales service department will cancel the quotation and return the machine to the user. If the user has already paid the quotation, the money will be returned to the user.

(3) For machines that have been disassembled due to factors such as liquid intrusion or falling or have been unauthorizedly disassembled, it may cause problems such as failure to boot after opening the cover. We assume no responsibility for it.

(4) For faulty machines that are normally used and have a single fault repaired, they will be under warranty for half a year. If some parts are replaced during maintenance, they will be under warranty for one year.

(5) For machines that have been severely damaged due to liquid intrusion or falling or other factors after repair, we will not provide warranty. (Due to the difficulty in cleaning all areas after liquid intrusion, further corrosion may occur and cause other failures. Machines that have been dropped may cause wire breaks in half during use, which cannot be repaired.)

(6) We are not responsible for maintenance due to force majeure.

Portable Oxygen Concentrator

Manufactured for: Weoxy CO., LTD.
110 Cedar Street, Suite 105, Wellesley, MA 02481, USA
Toll Free: 1-888-999-2132

E-mail: info@weoxy.com
Website: www.weoxy.com
Software Version: V4.01UN
Aug 2026 A-6

Customer Notes

1. Please carefully check the information you have provided for timely notification and the company may conduct satisfaction surveys of customers based on their information.
2. When seeking warranty, please present a valid purchase voucher. Valid purchase vouchers include a receipt with a printed seal or a printed voucher with a company seal, a screenshot of an online authorization channel order (with the logistics receipt date as the warranty start date), and handwritten vouchers are invalid. If there is no valid purchase voucher, the warranty time will be calculated one month after the product's factory date.
3. The description of the machine's fault and its condition when sent for repair will serve as a reference for technical personnel to detect or repair it. Whether the machine is covered by warranty needs to be confirmed by our company's professional staff.
4. Machines sold by our company are affixed with our company's exclusive no-tear tags, please do not tear them off, otherwise we have the right to refuse to provide warranty. Machines repaired by our company are affixed with our company's exclusive no-tear tags, please do not tear them off, otherwise we have the right to refuse to provide warranty again.
5. This product is covered by a three-year warranty under normal use conditions and non-artificial damage. The following components have a limited warranty period: molecular sieve columns and battery 1 year from the date of purchase). Consumable items such as nasal cannulas and compressor filters are not covered.
6. When seeking warranty, please inform our company of the product to be repaired and the specific damage, and send the product to the designated warranty location according to our company's requirements.
7. You are not allowed to use non-original spare parts or consumables, otherwise any damage caused is not covered by our responsibility.
8. You are not allowed to invite third-party units to repair the product, otherwise we will not bear the consequences and responsibilities arising from it.