

Oxlife **FREEDOM**[®]



USER MANUAL

PORTABLE OXYGEN CONCENTRATOR

USER: READ THIS MANUAL BEFORE OPERATING THIS DEVICE.
SAVE THIS MANUAL FOR FUTURE REFERENCE.

HEALTH-CARE PROVIDER: THIS MANUAL MUST BE PROVIDED TO
THE END USER.



PROUDLY ASSEMBLED IN THE U.S.A.

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Section 1: Introduction

PLEASE READ THIS USER MANUAL CAREFULLY BEFORE USING THIS DEVICE. BE AWARE OF ALL WARNINGS AND SAFETY INFORMATION. ONLY USE ACCESSORIES APPROVED BY O2 CONCEPTS® AND REFERENCED WITHIN THIS MANUAL.

IF YOU DO NOT FULLY UNDERSTAND ALL THE WARNINGS, SAFETY PRECAUTIONS OR OPERATING INSTRUCTIONS CONTACT YOUR AUTHORIZED DEALER OR HEALTHCARE PROVIDER FOR TECHNICAL SUPPORT.

Please contact your authorized dealer or healthcare provider if your Oxlife Freedom® requires service.

Please call O2 Concepts Customer Service to report any unexpected operation or events associated with the device at 1-800-867-4008 EXT 331.

Information about the Oxlife Freedom® and O2 Concepts can also be found on our website at

www.o2-concepts.com.

CAUTION: U.S. FEDERAL LAW RESTRICTS THIS DEVICE TO SALE BY OR ON THE ORDER OF A PHYSICIAN.

Intended Use

The Oxlife Freedom® is a portable oxygen concentrator used on a prescriptive basis that enable patients requiring supplemental oxygen to be treated in a home, institutional, or vehicle/mobile environment.

The Freedom delivers 87%-95% pure oxygen to the patient through a standard single lumen nasal cannula.

The Freedom detects a patient's breath and delivers a bolus of oxygen during the inhalation period.

The Freedom can be set to deliver flowrates in Settings 1-5 of 8ml – 40ml. Setting can be adjusted in increments of 1.




















The Freedom has standard power options including a 100-240V AC power supply, 10-15V DC power supply and a rechargeable lithium ion battery.

User Profile

The Oxlife Freedom® is suitable for adult patients with chronic pulmonary diseases such as chronic bronchitis, emphysema, asthma, or lung cancer, those in the terminal stages of cancer or any patient requiring supplemental oxygen.



















Symbols Reference

Information/Safety Symbols

ICON	MEANING	ICON	MEANING
	Caution represents the possibility of damage to the equipment		Warning represents the possibility of harm to the operator or patient
	No smoking while using or near device		Not suitable for use in the presence of a flammable anesthetic mixture
	No open flames		Do not incinerate battery
	Indoor Use Only*		Use no grease or oils
	Do not disassemble		Do not dispose of in household waste
	Refer to instructions		Keep dry in transport and storage
	Type BF equipment		Class II equipment
	Recycle battery		Prescription only
IP22	Drip proof equipment		Manufacturer
	Alternating current		Direct current

*This refers to AC and DC power supplies, not the Freedom device.

Device Symbols

ICON	MEANING	ICON	MEANING
	Power button		Cell connected
	Menu button		GPS signal
	Increase flow setting		RDM connected (Tech Support Only)
	Decrease flow setting		RDM mode (Tech Support Only)
	Battery life indication		Alarm
	AC/DC charging indicator		Breath detection
	Cell signal strength		Device status
	Exit		AC/DC power
	Airplane mode		Contains Dynamic Network Analysis® (DNA) technology

Specifications

Device Dimensions	H: 9.4" (23.87cm) W: 9.0" (22.86 cm) D: 3.4" (8.63cm)
Device Weight	4.53 lbs. (2.05kg)
Battery Weight	1.35 lbs. (0.61 kg)
AC Charger Weight	1.2 lbs. (0.54 kg)
DC Charger Weight	1.4 lbs. (0.63 kg)
Flow Control Settings	5 Settings: 1 to 5
Breathing Frequency	Up to 40 Breaths per Minute (BPM)
Inspiratory Trigger Sensitivity	-0.35 to -0.08 cm H ₂ O
Battery Specification	14.4V Lithium Ion Battery
External Power Supply Input	AC power: 100 - 240V AC, 50/60 Hz @ 1.0-2.0 amps DC power: 12-15V DC; Recommended: 15A outlet at 12V
Operating Altitude	0-13,123ft or (0-4000m)
Oxygen Purity	91% ± 4% (87 – 95%) on all settings; measured purity values are within ± 2% of actual values; there is no variation in purity within the operating altitude. This applies to the full range of environmental operating conditions.
Operating Temperature	50°F (10°) to 104°F (40°C)
Operating Humidity	10% - 95% @ 82.4°F (28°C)
Operating Atmospheric Pressure	101kPa to 63kPa
Operating Environment	Free of smoke, pollutants and fumes
Transport/Storage Temperature	-4°F (-20°C) to 140°F (60°C)
Transport/Storage Humidity	0 – 95% non-condensing
Cannula Specification	DO NOT use cannula tubing longer than 7ft (2.13m)
Sound Level (sound pressure)	56dBA (on setting 5) 43dBA (on setting 2)
Alarm Sound Level	All alarms triggered by the device will be 48dBA or higher at 1 meter from the unit.
Maximum Outlet Pressure	Less than 137kPa (normal or single fault)

Contraindications

- ⚠ Under certain circumstances, the use of non-prescribed oxygen therapy can be hazardous. This device should only be used when prescribed by a physician.
- ⚠ Not for use in the presence of aerosol sprays or flammable anesthetics.
- ⚠ Additional monitoring may be required for patients using this device who are unable to hear or see alarms or communicate discomfort. If the patient exhibits signs of discomfort, consult a physician immediately.
- ⚠ The Oxlife Freedom® is contraindicated for any patient who would experience adverse health consequences as the result of a temporary interruption in oxygen therapy.
- ⚠ The availability of an alternate source of supplemental oxygen is strongly recommended in the case of power interruption or a mechanical failure of the device. Consult your healthcare provider for a recommendation of an alternate source of oxygen.
- ⚠ It is the patient's responsibility to arrange for an alternate oxygen supply when traveling. O2 Concepts assumes no liability for persons choosing not to adhere to manufacturer recommendations.
- ⚠ This device is for adult use only. It is not qualified for use by pediatric patients.

- ⚠ This device is not qualified for use by patients with a tracheotomy.

- ⚠ This device is not intended to be used in conjunction with a humidifier or nebulizer or connected to any other equipment. Use of this device with any other equipment may damage the device or impair device performance and will void the warranty.

Indications for Use

- ⚠ The Oxlife Freedom® is indicated on a prescription basis for the administration of supplemental oxygen. It is not intended for life support nor does it provide any patient monitoring capabilities.

Dynamic Network Analysis

Your Oxlife Freedom® device may contain Dynamic Network Analysis (DNA) technology which is available to allow your healthcare provider to better serve your needs. This technology is intended to assist your provider in determining that your device continues to operate within specification.

This device is FAA approved for use aboard passenger aircraft (FAA Advisory Circular 91.21-1B), including radio frequency emission limits of (RTCA) Document (DO) 160, section 21, Category M. Device contains FCC Id R5Q-LISAC200A or FCC Id XPY2AGQN4NNN.

The cellular connection must be deactivated prior to flight on any commercial aircraft.

Instructions for deactivating the cellular connection are listed on page 57 within Section 7 entitled: Accessing the Airplane Mode Screen.

There is no known interference posed by medical equipment during specific investigations or treatments.

There are no known devices that will cause interference issues.












Section 2: Safety Guidelines

Device Safety Guidelines

- ❗ **AVOID EXPOSURE TO OPEN FLAMES OR CREATION OF ANY SPARK NEAR YOUR OXLIFE FREEDOM®. THIS INCLUDES SPARKS FROM STATIC ELECTRICITY CREATED BY ANY TYPE OF FRICTION. PROTECT ELECTRICAL POWER CORDS FROM SHARP EDGES TO AVOID ELECTRICAL SHOCK AND SERIOUS PHYSICAL INJURY.**
- ❗ Locate the Oxlife Freedom® in a well-ventilated area to allow for adequate air intake. Avoid the intake of airborne pollutants, smoke or fumes that may impair device performance.
- ❗ Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation.
- ❗ Always use the manufacturer supplied carry bag when ambulating with the device to prevent device damage.
- ❗ Use only approved accessories as specified in this User Manual. Use of non-approved accessories may cause serious damage to the device and will void the warranty.
- ❗ Locate oxygen tubing and power cords away from hot surfaces and in a manner to prevent tripping hazards.
- ❗ Wind or strong draughts can adversely affect accurate delivery of oxygen therapy.
- ❗ **DO NOT** operate the device in an enclosed space, such as a closet as it may impair device function.
- ❗ **DO NOT** cover the device or block the air inlet or the exhaust ports located on the back of the device as it may impair device function.
- ❗ **DO NOT** leave your Oxlife Freedom® or batteries in your vehicle or its trunk. Extreme heat or cold may damage your device and/or batteries.

- ⓘ Keep the device away from potential household pests to avoid infestation that will impair device performance.
- ⓘ Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 12 inches (30cm) to any part of the Oxlife Freedom® including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.
- ⓘ **DO NOT** modify the device. Any modifications made to the device may impair performance or damage equipment and will void the warranty.

Patient Safety Guidelines

-  **DO NOT SMOKE WHILE USING THIS DEVICE. KEEP ALL MATCHES, LIT CIGARETTES, CANDLES, OR ANY SOURCE OF IGNITION AT LEAST TEN (10) FEET (1.6m) FROM THE DEVICE. THIS DEVICE PRODUCES ENRICHED OXYGEN GAS WHICH ACCELERATES COMBUSTION.**
-  Keep cannula tubing away from children and pets to avoid danger of choking or strangulation.
-  **DO NOT** remove any small parts or fasteners from device. Small parts can cause injury if inhaled or swallowed.
-  **DO NOT** use the device with a damaged power cord or plug to avoid injury.
-  **DO NOT** operate the device on wet surfaces or in standing water and do not submerge or expose to water or precipitation to avoid serious injury or damage to the device. If the Oxlife Freedom® has been dropped, damaged or exposed to water, please contact your authorized dealer or healthcare provider for inspection and possible repair of the device.
-  **DO NOT** come in contact with the device when wet to avoid serious injury or the chance of shock.
-  **DO NOT** use oil, grease or petroleum-based products on or near the device to prevent accidental ignition.
-  There is a risk of fire associated with oxygen enrichment during oxygen therapy. Do not use the oxygen concentrator or accessories near sparks or open flames.
-  Open flames during oxygen therapy are dangerous and are likely to result in fire or death. **DO NOT** allow open flames within ten (10) feet (1.6 m) of the oxygen concentrator or any oxygen carrying accessories.

- ⚠ Oxygen makes it easier for a fire to start and spread. **DO NOT** leave the nasal cannula or mask on bed coverings or chair cushions. If the oxygen concentrator is turned on, but not in use, the oxygen will make the materials flammable. Turn the oxygen concentrator off when not in use to prevent oxygen enrichment.
- ⚠ **SMOKING DURING OXYGEN THERAPY IS DANGEROUS** and is likely to result in facial burns or death. **DO NOT** allow smoking within the same room where the oxygen concentrator or any oxygen carrying accessories are located. If you intend to smoke, you must always turn the oxygen concentrator off, remove the cannula and leave the room where the oxygen concentrator is located. If you are unable to leave the room, you must wait at least 10 minutes after you have turned the oxygen concentrator off before smoking.
- ⚠ To ensure you are receiving the therapeutic amount of oxygen according to your medical condition, the Oxlife Freedom® must be used only after one or more settings have been individually determined or prescribed by a physician for you at your specific activity levels. The Freedom must be used with the specific combination of parts and accessories that were used while your settings were determined.
- ⚠ Use only water-based lotions or salves that are oxygen-compatible before and during oxygen therapy. **DO NOT** use petroleum or oil-based lotions or salves to avoid the risk of fire and burns.
- ⚠ **DO NOT** lubricate fittings, connections, tubing or other accessories to avoid the risk of fire and burns.
- ⚠ Replace cannula as recommended by manufacturer. Cannulas may become contaminated with body fluids or expired gases during use.

- ⚠ Use of this device outside of the stated altitude, temperature or humidity ranges is expected to adversely affect the flowrate and the percentage of oxygen and, consequently, the quality of oxygen therapy.
- ⚠ Consult your healthcare provider if you are feeling unwell, which may indicate either too much or too little oxygen.
- ⚠ If you feel discomfort or are experiencing a medical emergency while undergoing oxygen therapy, seek medical assistance immediately to avoid harm.

Battery and Power Supply Safety Guidelines

- ⚠ Use of an unauthorized battery, AC or DC power supply or power supply cable may cause serious damage to the device and will void the warranty.
- ⚠ Use of an unauthorized AC or DC power supply or power supply cable could result in increased electromagnetic emissions or decreased electromagnetic immunity of the equipment and result in improper operation.
- ⚠ Do not remove the battery from the device while the device is operating to avoid damage.
- ⚠ Store battery in a cool dry place when not in use to enhance battery life.
- ⚠ Remove the battery from the device if it will not be used for an extended period of time.
- ⚠ Locate the external power supply in the open air to prevent overheating when in use.
- ⚠ U.S. Department of Transportation (DOT) and United Nations (UN) regulations require that the battery be removed from the device when checked as luggage on international flights.
- ⚠ The battery may explode if exposed to or disposed of in a fire.
- ⚠ Keep the battery away from children to prevent injury.
- ⚠ **DO NOT** drive over, drag or place objects on the power cords to avoid damage.
- ⚠ Use of a damaged battery or power supply may cause personal injury.
- ⚠ Use of a frayed or damaged AC or DC power supply cable may compromise basic safety with regard to the electromagnetic disturbances over the expected service life.

- ⚠ **DO NOT** attempt to disassemble the battery or power supply. Doing so will void the warranty and may cause injury.
- ⚠ **DO NOT** short circuit the battery's metal contacts with metallic objects such as keys or coins. It may cause electrical shock, sparks or excessive heat.
- ⚠ **DO NOT** use the battery or power supply for anything other than its intended purpose. Doing so may damage the device or cause personal injury.
- ⚠ **DO NOT** drop the battery or expose it to mechanical shock. If battery is damaged, discontinue use and dispose of properly to avoid personal injury.
- ⚠ **DO NOT** expose the battery to water or other liquids. If battery gets wet, discontinue use and dispose of properly to avoid personal injury.
- ⚠ **DO NOT** expose the battery to excessive heat or cold as it may affect performance.
- ⚠ Use caution when handling the DC plug adapter. This plug may get hot with use. Ensure the DC plug socket is clean of debris which may cause overheating.

Section 3: Product Description

Device and Accessories

- ❗ A humidifier is not recommended for use with the Oxlife Freedom® and may impair performance.
- ❗ Your physician, healthcare provider or authorized dealer will recommend the proper cannula for your use. Ensure that selected cannula is compliant to ISO 80601-2-69 Medical Electrical Equipment, Particular requirement for basic safety and essential performance of oxygen concentrator equipment.
- ❗ The configuration of the equipment and accessories must be determined for each individual patient.

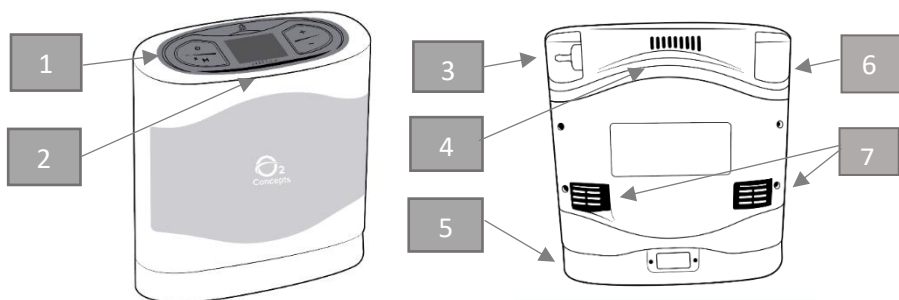
This manual applies to the following accessories:

- › Single-pack Battery
- › AC Power Supply
- › DC Power Supply
- › Carry Bag
- › Accessory Bag
- › Cannula (not included)


This manual does not apply to the following accessory items sold separately:

- › Battery Charger
- › Extended Use Battery


Feature Identification



1. Control Panel
2. LCD Display
3. Oxygen Outlet Port
4. Exhaust Port
5. Rechargeable Battery
6. External Power Input
7. Air Inlet Ports/Air Inlet Filters
8. Device Serial Number
9. FAA Approval Statement



Oxlife Freedom®
O2 Concepts, LLC
199 Park Road Extension
Middlebury, CT 06762

IP22 **Rx ONLY**  Contains FCC Id
R5Q-LISAC200A









18-25 VDC, 9 A Max, 0.15kW
2.05kg 91% +/- 4% Oxygen


PN: 216--0026 Rev A

SN

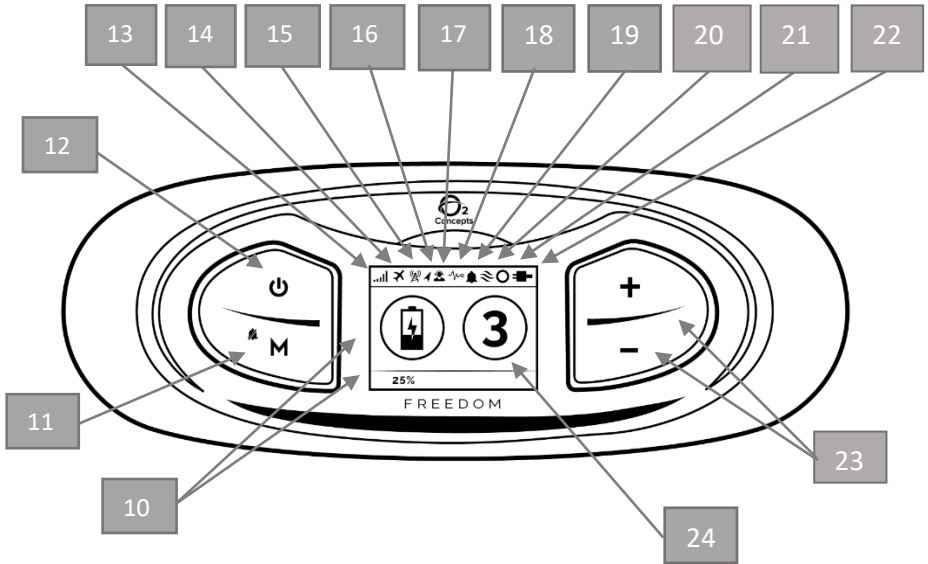
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 No smoking	 No oil or grease	 Do not restrict air flow to ports
 No open flames	 Keep dry	 Use only with Freedom power supply
 Do not disassemble	 See instructions	

 The manufacturer of this portable oxygen concentrator has determined this device conforms to all applicable FAA requirements for portable oxygen concentrator carriage and use on board aircraft.

Understanding the Control Panel



- 10. Battery Status/Battery Charging Indicator
- 11. Menu Button
- 12. Power Button
- 13. Cell Signal Strength
- 14. Airplane Mode
- 15. Cell Connected
- 16. GPS Signal
- 17. RDM Connected (Tech Support Only)
- 18. RDM Mode (Tech Support Only)
- 19. Alert/Alarm Indication
- 20. Breath Detection
- 21. Green Status Circle – Open Circle during warm-up.
Filled circle indicates flow and purity are within specifications.
- 22. External Power Source
- 23. Increase/Decrease & Scroll Buttons
- 24. Device Setting

Applied Parts

The applied parts or components that a patient will come in contact with during normal operation of the device are listed below:

- › Control Panel
- › Oxygen Outlet Port
- › External Power Input

Section 4: Operating Instructions

Before Operating

Your authorized dealer or healthcare provider has demonstrated the proper operation of your Oxlife Freedom®. This manual provides product information and operating instructions and should be saved for future reference to help you safely operate your device. If you have any further questions, please contact your authorized dealer or healthcare provider.

This equipment should be installed and placed into service in accordance with the information provided in the accompanying documents.

DO NOT operate the Freedom without first reading the Safety Guidelines included in **SECTION 2** of this manual.

Please follow all operating instructions.

Before each use, ensure that filters are clean and in place and that cannula and power cord connections are intact.

If you are relocating your device from an extreme environment, allow the device to return to the specified operating temperature and humidity ranges before use, a minimum of 6 hours.

Operating your device outside of specified ranges may damage your device or impact device performance and will void the warranty.

See Operating Temperature and Operating Humidity ranges listed in the Specifications Table.

Fully charge batteries before first use.

The essential performance of the Oxlife Freedom® is to produce $91\% \pm 4\%$ oxygen at all pulse settings 1-5.

Locating Your Device

Place the Oxlife Freedom® in a well-ventilated area free of smoke, fumes, pollutants and away from direct sun light. Avoid high humidity environments.

Use only the supplied carry bag when ambulating with your device. Ensure that air intake and exhaust ports are not obstructed.

Ensure that the carry strap is in good condition and the battery access zipper is closed.

Ensure both intake port particle filters are in place. Contaminants drawn into the device may cause damage.

Proper placement and positioning of the device is critical to the effectiveness of the oxygen therapy.


The Oxlife Freedom® **MUST** be located so that alarms can be heard.


Position the oxygen supply tubing and power cords in a manner that prevents kinking, air flow obstructions and tripping hazards.


DO NOT operate the device in an enclosed space, such as a closet.

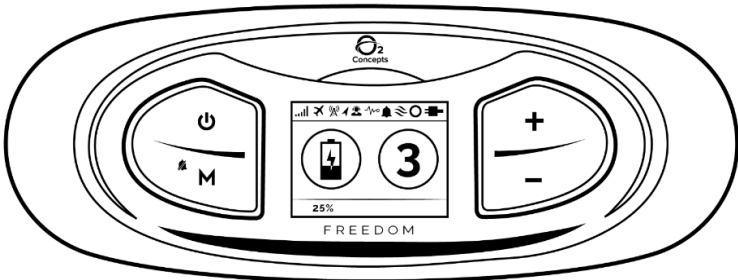
DO NOT locate the Oxlife Freedom® near any flammable materials or cleaning products or in the direct path of any heat source such as a stove, heat register or car heater. Keep the Oxlife Freedom® at least ten (10) feet (1.6 m) from hot sparking objects or open flame.

Device Settings

Turn the device on by pressing the Power button. 

Press the Increase  or Decrease  buttons to select the desired flow rate.

Turn the device off by pressing the Power button. 



THE PROPER FLOW RATE IS PRESCRIBED BY YOUR PHYSICIAN.

DO NOT CHANGE THESE SETTINGS WITHOUT CONSULTING WITH YOUR PHYSICIAN.

PULSE DOSE SETTINGS MUST ACCOMMODATE THE INDIVIDUAL PATIENT'S LIFESTYLE INCLUDING REST, TRAVEL AND EXERCISE.

OXYGEN DELIVERY SETTINGS OF THE DEVICE SHOULD BE PERIODICALLY REASSESSED FOR EFFECTIVENESS OF THE OXYGEN THERAPY.

Consult your healthcare provider if you are feeling unwell which may indicate too much or too little oxygen. These side effects are not immediate or life threatening.

When the device is powered on it will enter a seven (7) minute warm-up period to reach desired performance. The warm-up period is indicated on the display screen by a green ring that becomes a green circle once warm up is complete.

The device will detect your breath and supply a measured pulse of oxygen or bolus. The breath detect icon will flash on the control panel with each breath.

Flow Settings & Pulse Volumes (ml)

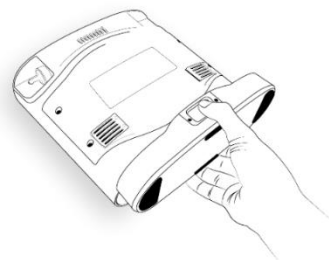
Breaths per Minute	Setting 1	Setting 2	Setting 3	Setting 4	Setting 5
15	8.0	16.0	24.0	32.0	40.0
20	8.0	16.0	24.0	32.0	40.0
25	6.4	12.8	19.2	25.6	32.0
30	5.3	10.7	16.0	21.3	26.7
35	4.6	9.1	13.7	18.3	22.9
40	4.0	8.0	12.0	16.0	20.0

- ⚠ Respiratory efforts of the patient may not trigger a bolus.
- ⚠ The settings of the Oxlife Freedom® might not correspond with continuous flow oxygen.
- ⚠ The settings of other models or brands of oxygen therapy equipment do not correspond with the settings of the Oxlife Freedom®.

Installing and Removing the Battery

To install battery, align battery with device and slide until battery clicks into place.

To remove battery, depress button and slide battery toward you.



- ⚠ Turn off the device before removing the battery.
- ⚠ **DO NOT** use the Oxlife Freedom® without a battery installed.

Single-Pack Battery Operation Times

Setting	Operating Time
1	4 hours
2	3 hours 30 minutes
3	3 hours
4	2 hours
5	1 hour 45 minutes

Battery operating times are based on a new, fully charged battery.

Battery operating time will degrade with battery age, number of charge cycles and operating environment.

Battery Time Management

The Oxlife Freedom® is equipped with a rechargeable lithium ion battery that is **NOT** user serviceable.

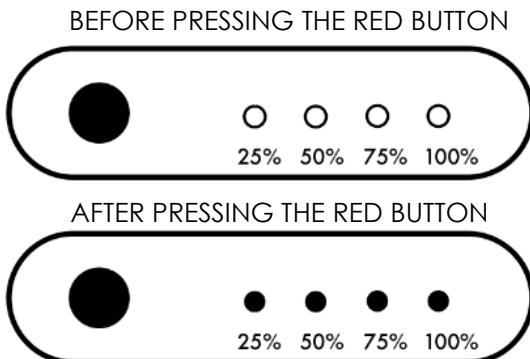
The battery utilized with this device will degrade over time and from standard use; provided however, the rate of such degradation is dependent upon the frequency of operation of the device solely with battery power as well as frequency and length of associated battery charging cycles.

The manufacturer recommends that the user regularly monitor battery performance by viewing the battery charge level indicator on the battery and the device display. Batteries should be replaced every three years.

With the combined use of the battery, AC power cord, and DC power cord, you may extend your time away from home. Using the AC and DC power cords whenever possible, will improve battery life. The battery will charge in the device when plugged into an external power source.

Battery Charge Status is displayed on the control panel. Each increment represents approximately 25% of the total battery charge.

The Oxlife Freedom® battery also includes a battery charge status indicator located on the top of the battery (below the label). Press the red button on the battery to display the remaining battery life in 25% increments.



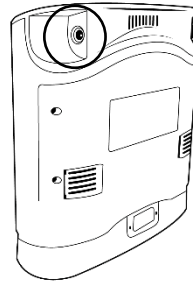
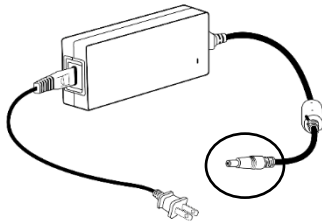
The typical time to recharge a fully discharged battery is approximately 1.5 hours with the device plugged into AC power and powered off. Battery charge times while the device is running will vary depending on elected setting.

To maximize battery life:

- › Store battery in a cool, dry place when not in use. Store battery with at least 50% capacity remaining.
- › If using multiple batteries, uniquely label each battery to ensure each battery is rotated equally.
- › Charge batteries every three (3) months when not in use.

There is no routine maintenance or service required for the Oxlife Freedom® rechargeable batteries other than the periodic replacement as described above.

AC Power Supply



- ⚠ Use only the AC power supply (800-1048) provided with this device. Use of power cords not supplied by O2 Concepts may cause overheating or damage to the device and will void the warranty.
- ⚠ The power supply is not water resistant.
- ⚠ **DO NOT** place anything in the power supply port other than the supplied AC or DC power cords.
- ⚠ Ensure the power supply is in a well-ventilated area. The power supply may become hot during operation. Allow the power supply to cool before handling.

The AC power supply consists of the following components:

- › Power supply with attached power supply cable to connect to the device
- › AC power input cable

When powered, a green LED on the power supply will be illuminated.

The AC power supply charges the battery using a 100-240V 50/60 Hz outlet (a typical wall outlet in your home). Using the

AC power supply allows you to use your Oxlife Freedom® while simultaneously charging the battery.

To use the AC power supply, connect the power cord to the AC power converter (brick). Then connect the power supply to a wall outlet and the Freedom. The external power source icon will be displayed on the control panel.

The AC power supply will charge the battery at all settings.

Recommendations for Use:

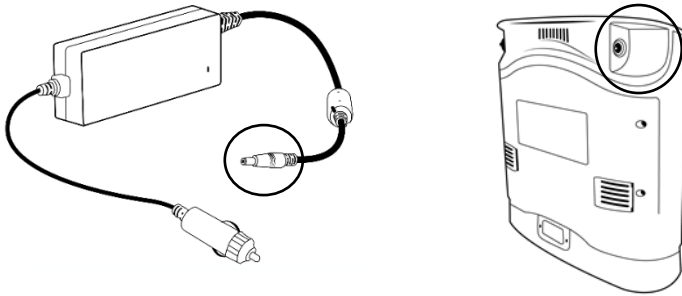
Use no electrical outlets controlled by a switch.

The detachable power supply cord is the means of isolating the unit from the supply mains.

If AC power is removed from the device, wait ten (10) seconds before re-applying AC power.

When traveling internationally, a standard international power plug adapter is required.

DC Power Supply



The DC power supply allows a patient to operate the Oxlife Freedom® from a vehicle's 12/15-volt DC outlet in all settings. A 12-volt, 10-amp outlet is recommended for use with the device. To use the DC power supply, connect the power cord to the DC power converter (brick). Then connect the power supply to a DC power outlet. The external power source icon will be displayed on the control panel.

Each vehicle's DC power outlet varies in specifications and performance. Moreover, such performance may be adversely impacted by one or more applications simultaneously drawing DC power (e.g., cell phones, media players, other electrical systems in the vehicle). In addition, DC power may fluctuate more significantly in stop and go driving conditions.

If a vehicle's DC voltage drops to 11.5 volts or below, the device will beep and revert to battery power.

- ⚠ Use only the DC power supply (800-1042) provided with this device. Use of power cords not supplied by O2 Concepts may cause overheating or damage to the device and will void the warranty.

- ⚠ Use the DC outlet closest to the car's battery.

- ❗ Use no other DC outlets in the vehicle while your Oxlife Freedom® is in use.

Recommendations for Use:

When operating the Oxlife Freedom® in your vehicle, ensure that the device is securely stowed and will not be damaged during transport.

Ensure that air inlet and exhaust ports are not blocked.

Note that batteries will not charge at any setting if the engine is not running.

DO NOT leave the device plugged into the vehicle when the engine is not running.

DO NOT use the Oxlife Freedom® with any power splitting devices.

Starting the Device on DC Power

1. **ALWAYS** have the vehicle's engine running **BEFORE** plugging in your Oxlife Freedom®.
2. Plug the DC power cord into the device **BEFORE** plugging into the vehicle's DC outlet.
3. Plug DC power cord into the vehicle's DC outlet.
4. Remove the DC power cord from the vehicle's DC outlet when the engine is not running.

Disconnecting the Device from DC Power

1. Disconnect the DC power cord from the device. The device will beep once and switch to battery power.
2. The battery icon will be displayed on the control panel.

The DC Power Supply can run and charge the device on all settings.

DC Power Supply Troubleshooting Guide

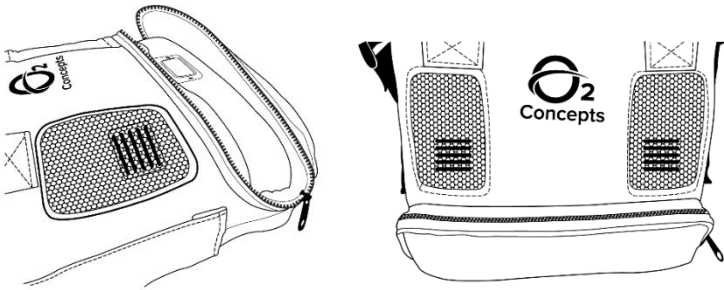
<u>Event</u>	<u>Solution</u>
Batteries Not Charging	<ul style="list-style-type: none"> › If there is no charging icon (lightning bolt symbol), reduce the device to Setting 1 and wait for charging icon to appear. › Next, increase the flow rate by 1 setting until desired flow rate is reached.
Low Battery Alarm	<ul style="list-style-type: none"> › If battery is fully depleted to 0%, it may not charge until the device is powered off. Battery may require being charged to 10% before the lightning bolt appears on the display.
Device Alerting / Beeping Intermittently	<ul style="list-style-type: none"> › If the DC power drops equal to or below 11.5 volts, the device will beep. › The device will switch to battery power. › The device will automatically return to DC power once the vehicle supplies the proper voltage. The device will default to the most reliable source of power to supply oxygen.
Low External Power Alarm	<ul style="list-style-type: none"> › There may be too much of a power draw on the vehicle electrical system (i.e., air conditioning, radio or GPS). Try eliminating these power draws. › Check your vehicle's user manual or consult an auto technician to determine your vehicle's DC power amperage and wattage. The device requires 120 watts (10 amps at 12 Volts) to run on all settings. › You may require an Inverter with at least a 450-watt capacity. This can be purchased through an Auto Service Provider.

Carry Bag

The Freedom carry bag provides protection and allows you to easily take your device with you for your daily activities.

Always use your Oxlife Freedom® in the supplied carry bag.

Check that the adjustable shoulder strap is secure, and the battery access zipper is closed before each use.

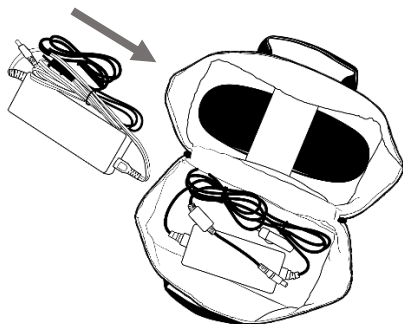


The Oxlife Freedom® is inserted into the carry bag from the bottom zippered section of the carry bag.

Ensure that exhaust and intake ports are aligned with the mesh panels and access zipper is closed.

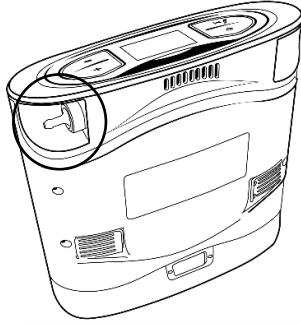
The battery can be accessed via the zipper without removing the device from the carry bag.

Accessory Bag




The Accessory Bag is designed to carry your Oxlife Freedom[®] accessories including an extra battery, AC power supply and DC power supply.

Cannula Use



- ⚠ Connect the cannula to the oxygen outlet port. The cannula fitting may be tight.
- ⚠ Your physician, healthcare provider or authorized dealer will recommend the proper cannula for your use. Ensure that selected cannula is compliant to ISO 80601-2-69 Medical Electrical Equipment, Particular requirement for basic safety and essential performance of oxygen concentrator equipment.
- ⚠ Use of a cannula not specified for use with oxygen may impair the performance of your device.
- ⚠ **DO NOT** use cannula tubing longer than 7 feet (2.13m). Your physician will prescribe the appropriate cannula for your use.
- ⚠ A single lumen nasal cannula rated for 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.

 **DO NOT** use grease or oils to lubricate the oxygen outlet port.

Read and follow the instructions included with the cannula and follow the instructions provided by your authorized dealer or healthcare provider.

Clean and replace your cannula regularly as instructed by the manufacturer and your authorized dealer or healthcare provider.

O2 Concepts recommends a 7 ft (2.13m) cannula (Part #: 16SOFT-7 from Salter Labs, or equivalent).

Section 5: User Alerts and Alarms

The functionality of the alarm system is verified automatically by the unit upon start up by the unit flashing three (3) visual display colors and audible indicators. There will be delays that are greater than ten (10) seconds inherent to specific alarms, and these delays are explained in detail for each alarm in the following tables.

To ensure that audible alarm notifications are heard, the maximum distance the user can be from the device is dependent on surrounding noise levels.

When two alarm conditions occur at the same time, the higher priority condition will be displayed.

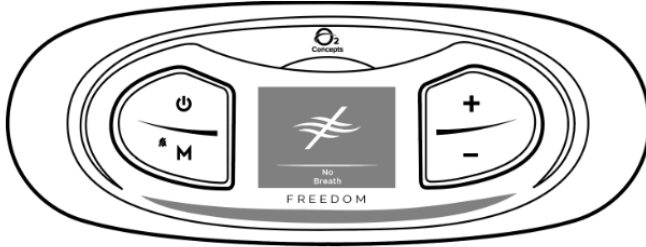
Indefinite Acknowledge (Alarm Mute)

In an alert or alarm condition, pressing the power button will put the device into indefinite acknowledge state or alarm mute. In this state, the alarm will be silenced, and the screen will stop flashing. The device will stay in this state until powered off or until a higher-priority alarm is activated.

DO NOT IGNORE ALERTS OR ALARMS

Alarm and Alert Screen Descriptions

Alarms



The LCD screen will be RED in Alarm Mode

<p>No Breath Alarm (physiological) (low priority)</p>	<p>When the device has not detected a breath for 45 seconds, the screen will turn red, sound one beep per 30 seconds and the text “No Breath” will flash in the system status window. The device will enter Auto Pulse Mode and produce boluses at half of the last measured breath rate. If a breath is detected, the device will terminate Auto Pulse Mode and return to normal operation. If the device has not detected a breath for 15 minutes, the screen will flash red at 2Hz, sound a 10-beep sequence repeated after 2.5 seconds of silence and the text “No Breath” will flash in the system window and the unit will power off.</p>
<p>What to do:</p>	<p>Check the cannula for kinks or obstructions. Ensure patient is breathing through their nose.</p>
<p>Low Purity Alarm (technical) (high priority)</p>	<p>When oxygen levels drop below 72% for 60 seconds, the screen will flash red at 2Hz, sound a 10-beep sequence repeated after 2.5 seconds of silence and the text “Low Purity” will flash in the system status window. The device will continue to sound until the Menu (M) button is pressed to silence the audio, the power button is held to power off the unit or 15 seconds has expired at which time the device will power off.</p>
<p>What to do:</p>	<p>Clean or replace air inlet filter. Change to another source of oxygen and contact your authorized dealer.</p>

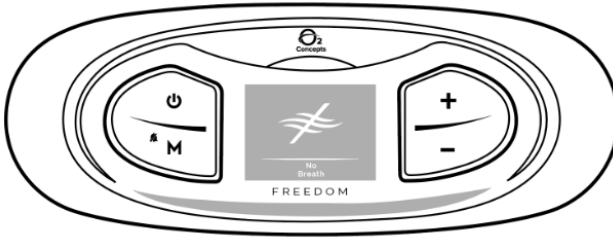
<p>Low Battery Alarm (technical) (high priority)</p>	<p>When battery power is depleted, the pump shuts off, the screen will flash red at 2Hz, sound a 10-beep sequence repeated after 2.5 seconds of silence and the text "Low Battery" will flash in the system status window. The device will continue to sound until the Menu (M) button is pressed to silence the audio, the power button is held to power off the device or 15 seconds has expired at which time the device will power off.</p>
<p>What to do:</p>	<p>Plug into an external power source. Replace depleted battery with a charged battery.</p>
<p>High External Power Alarm (technical) (high priority)</p>	<p>When the voltage from an external power source is above 26 volts (as measured by the device internally), the screen will flash red at 2Hz, sound a 10-beep sequence repeated after 2.5 seconds of silence and the text "High External Power" will flash in the system status window. The device will continue to sound until the Menu (M) button is pressed to silence the audio, the power button is held to power off the device or 15 seconds has expired at which time the device will power off.</p>
<p>What to do:</p>	<p>Connect to an authorized O2 Concepts Freedom power supply.</p>
<p>Low External Power Alarm (technical) (high priority)</p>	<p>When the voltage from an external power source falls below 17 volts (as measured by the device internally), the screen will flash red at 2Hz, sound a 10-beep sequence repeated after 2.5 seconds of silence and the text "Low External Power" will flash in the system status window. The device will continue to sound until the Menu (M) button is pressed to silence the audio, the power button is held to power off the device or 15 seconds has expired at which time the device will power off.</p>
<p>What to do:</p>	<p>Ensure all charging connections are intact. Refer to the DC user guide section of this manual. Change to another source of power and contact your authorized dealer.</p>

<p>Unauthorized Battery Alarm (technical) (high priority)</p>	<p>If the device detects that a battery other than one from O2 Concepts has been installed in the device, the battery icon will show an exclamation point within the battery outline. If no other power source is present, the screen will flash red at 2Hz, sound a 10-beep sequence repeated after 2.5 seconds of silence and the text "Unauthorized Battery" will flash in the system status window. The device will continue to sound until the Menu (M) button is pressed to silence the audio, the power button is held to power off the device or 15 seconds has expired at which time the device will power off.</p>
<p>What to do:</p>	<p>Remove unauthorized battery and replace with an authorized O2 Concepts Freedom battery.</p>
<p>Over Temperature Alarm (technical) (high priority)</p>	<p>The maximum operating temperature of the enclosure and pump is 70°C. If either of these component temperatures are reached for 15 seconds, the screen will flash red at 2Hz, sound a 10-beep sequence repeated after 2.5 seconds of silence and the text "Over Temperature" will flash in the system status window. The device will continue to sound until the Menu (M) button is pressed to silence the audio, the power button is held to power off the device or 15 seconds has expired at which time the device will power off.</p>
<p>What to do:</p>	<p>Relocate the device to improve airflow or to a cooler environment and allow the device to reach operating temperature. Utilize an alternate source of oxygen if necessary and contact your authorized dealer.</p>
<p>Invalid Motor Temperature Alarm (technical) (high priority)</p>	<p>When the motor temperature is out of a valid range for 15 seconds, the screen will flash red at 2Hz, sound a 10-beep sequence repeated after 2.5 seconds of silence and the text "Invalid Motor Temperature" will flash in the system status window. The device will continue to sound until the Menu (M) button is pressed to silence the audio, the power button is held to power off the device or 15 seconds has expired at which time the device will power off.</p>

What to do:	Relocate the device to improve airflow or to a cooler environment and allow the device to reach operating temperature. Utilize an alternate source of oxygen if necessary and contact your authorized dealer.
Invalid Box Temperature Alarm (technical) (high priority)	When the internal box temperature is out of a valid range for 15 seconds, the screen will flash red at 2Hz, sound a 10-beep sequence repeated after 2.5 seconds of silence and the text "Invalid Box Temperature" will flash in the system status window. The device will continue to sound until the Menu (M) button is pressed to silence the audio, the power button is held to power off the device or 15 seconds has expired at which time the device will power off.
What to do:	Relocate the device to improve airflow or to a cooler environment and allow the device to reach operating temperature. Utilize an alternate source of oxygen if necessary and contact your authorized dealer.
Invalid Flow Alarm	When the pulse volume is out of a valid range by 15% for 60 seconds the screen will flash red at 2Hz, sound a 10-beep sequence repeated after 2.5 seconds of silence and the text "Invalid Flow" will flash in the system status window. The device will continue to sound until the Menu (M) button is pressed to silence the audio, the power button is held to power off the device or 15 seconds has expired at which time the device will power off.
What to do:	Check cannula connection. Repair or replace tubing. Clean or replace air inlet filters. Move device to ensure adequate air flow. Change to another source of oxygen and contact your authorized dealer.

DO NOT IGNORE ALERTS OR ALARMS

Alerts



The LCD screen will be AMBER in Alert Mode

<p>No Breath Alert (technical) (low priority)</p>	<p>When the device has not detected a breath for 45 seconds, the screen will turn amber, sound one beep per 30 seconds and the text “No Breath” will flash in the system status window.</p> <p>The device will enter Auto Pulse Mode and produce boluses at half of the last measured breath rate. If a breath is detected, the device will terminate Auto Pulse Mode and return to normal operation. If the device has not detected a breath for 15 minutes, the screen will flash red at 2Hz, sound a 10-beep sequence repeated after 2.5 seconds of silence and the text “No Breath” will flash in the system window and the device will power off.</p>
<p>What to do:</p>	<p>Check the cannula for kinks or obstructions. Ensure patient is breathing through their nose.</p>
<p>Low Purity Alert (technical) (low priority)</p>	<p>When oxygen levels drop below 85% for 60 seconds, the screen will turn amber, sound one beep every 30 seconds and the text “ALERT Low Purity” will flash in the system status window.</p> <p>Pushing the Menu (M) button once silences the alert.</p>
<p>What to do:</p>	<p>Clean or replace air inlet filter. Contact your authorized dealer.</p>
<p>Low Battery Alert (technical) (low priority)</p>	<p>When calculated battery run time reaches 6 minutes remaining, the screen will turn amber, sound one beep every 30 seconds and the text “ALERT Low Battery” will flash in the system status window.</p>

	Pushing the Menu (M) button once silences the alert.
What to do:	Connect to an external power source. Replace depleted battery with a charged battery.
Unauthorized Battery Alert (technical) (medium priority)	If the device detects that a battery other than one from O2 Concepts has been installed in the device, the battery icon will show an exclamation point within the battery outline. The device will continue to run if on AC, DC is present. The screen will turn amber, sound a 3-beep sequence repeated after 15 seconds of silence and the text "Unauthorized Battery" will flash in the system status window. Pushing the Menu (M) button once silences the alert.
What to do:	Remove unauthorized battery and replace with an authorized O2 Concepts Freedom battery.
Low External Power Alert (technical) (medium priority)	When the voltage from an external power source falls to 18 volts or less (as measured by the device internally) for 3 seconds, the screen will turn amber, sound a 3- beep sequence repeated after 15 seconds of silence and the text "ALERT Low Ext Power" will flash in the system status window. Pushing the Menu (M) button once silences the alert.
What to do:	Ensure all charging connections are intact. Refer to the DC user guide section of this manual. Change to another source of power and contact your authorized dealer.

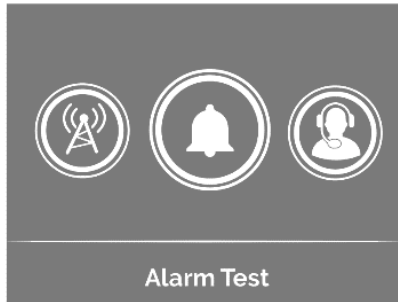
DO NOT IGNORE ALERTS OR ALARMS

Accessing the Alarm System Test

Use this test to verify that the alarm system is working properly. This test includes screen color, screen flashing sequence, and audible alarm sequence. Follow the steps in the procedure listed below.

Press the Menu (M) button.

Press the Plus button (+) or Minus button (-) button to scroll to the Alarm Test icon.



Press the Menu button (M) to select Alarm Test.

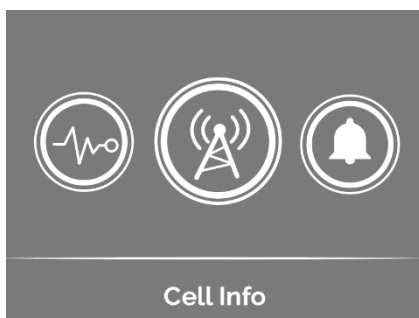
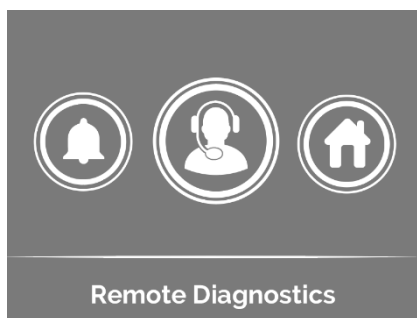
The system will begin by testing the High Priority Alarm. The High Priority Alarm consists of a 10-beep sequence separated by 2.5 seconds of silence and the LCD screen flashes red. The alarm symbol will appear on the screen.

The device will automatically enter the Medium Priority Alarm test once the High Priority Alarm sequence has concluded. Pressing the M button (M) while the High Priority Alarm test is in progress will terminate the High Priority Alarm test and start the Medium Priority Alarm. The Medium Priority Alarm consists of a 3-beep sequence separated by 15 seconds of silence and the LCD screen will flash amber. The alarm symbol will appear on the screen.

The device will automatically enter the Low Priority Alarm test once the Medium Priority Alarm sequence has

concluded. Pressing the Menu button (M) while the Medium Priority Alarm test is in progress will terminate the Medium Priority Alarm test and start the Low Priority Alarm. The Low Priority Alarm consists of one (1) beep and a solid amber LCD screen. The alarm symbol will appear on the screen.

At the conclusion of the test, the menu screen will appear. Use the Plus button (+) or Minus button (-) to toggle to the Home screen. Press the Menu button (M) to return to the home screen.



The Remote Diagnostics and Cell Info screens are for use solely by O2 Concepts or your provider's technical support.

Accessing the Provider Screen

The provider screen shows information about the device status and run hours.

To access the provider screen:

- › Press the Menu(M) button.
- › Press the Plus(+) button or Minus(-) button to scroll to the provider screen icon.
- › To enter and exit the provider screen, press the Menu(M) button again.



Cell Status and Signal Strength:

```
SN:0918601052 09/27/18 14:20:55
Ver:0.96/3/1/3/3 Run Hrs:22
D:1/0:200 R:0/0:0 Sg:31
T B1:0 B2:0 M:36 B:40 A:35 O2:33
B1: 0mA 0% 0 0
B2: 0mA 0% 0 0
VIN: 23.8 23.8 A|rtNoBreath
Cell: Connected Mode:[norm]
Flow: 5.6 Pur:93 Atm:14.4
```

The cell status is listed in the eighth row. (example: Cell: Connected)

The cell signal strength is listed in the third row on a scale of 0 – 31. (example: Sg:31)

Voltage In:

```
SN:0918601052 09/27/18 14:20:55
Ver:0.96/3/1/3/3 Run Hrs:22
D:1/0:200 R:0/0:0 Sg.31
T B1:0 B2:0 M:36 B:40 A:35 O2:33
B1: 0mA 0% 0 0
B2: 0mA 0% 0 0
VIN: 23.8 23.8 AlrtNoBreath
Cell: Connected Mode:[norm]
Flow: 5.6 Pur:93 Atm:14.4
```

Voltage In is the voltage that the device is receiving from an external power source such as the AC power Supply or DC power supply. (example: VIN: 23.8 where 23.8 is in volts)

Run Hours:

```
SN:0918601052 09/27/18 14:20:55
Ver:0.96/3/1/3/3 Run Hrs:22
D:1/0:200 R:0/0:0 Sg.31
T B1:0 B2:0 M:36 B:40 A:35 O2:33
B1: 0mA 0% 0 0
B2: 0mA 0% 0 0
VIN: 23.8 23.8 AlrtNoBreath
Cell: Connected Mode:[norm]
Flow: 5.6 Pur:93 Atm:14.4
```

The run hours are the total life hours the device has run. (example: Run Hrs: 22, where the device has been run a total of 22 hours)

Section 6: Maintenance and Cleaning

Maintenance

Routine cleaning of the air inlet filters, and the device care and cleaning, as described below, are the only routine maintenance by the user necessary for the operation of the Oxlife Freedom®.

There is no routine maintenance or service to the O2 Concepts rechargeable battery other than periodic replacement as described in the section on Battery Time Management on page 30.

All other maintenance or service **MUST** be conducted by a qualified Oxlife Freedom® service technician. **DO NOT** attempt to disassemble or perform any maintenance on your device. Any such attempt will void the warranty.

Pre-Use Functional Check

A trained service technician can qualitatively verify that the Freedom is ready for use by performing the following protocols:

- › Connect the nasal cannula to the cannula port. Select Setting 4 and wait for the device to enter a No Breathe Alert state which will trigger an auto pulse. The technician should be able to hear the bolus of oxygen by placing the outlet of the nasal cannula near his or her ear (do not direct the flow straight into ear to avoid discomfort.)
- › The technician should be able to feel the flow of oxygen by placing a finger roughly one-half inch from the outlet of the nasal cannula.
- › Place the end of the nasal cannula in one-half cup of water. Verify that there are bubbles from the output of the nasal cannula.

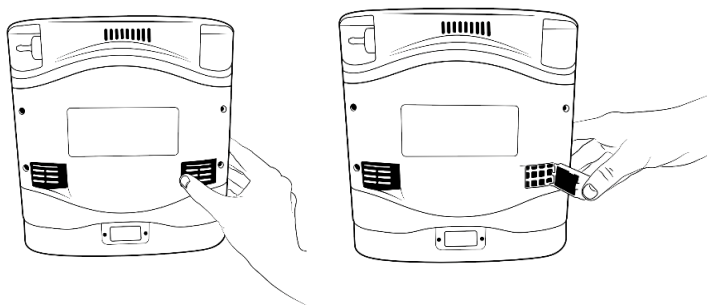
Device Care and Cleaning

Air Inlet Filter Cleaning

Routine cleaning of the air inlet filter as described below and periodic cleaning of the exterior of the device is the only routine maintenance.

To keep your Oxlife Freedom® working properly, it is recommended to clean the air inlet filters weekly. If the Oxlife Freedom® is used in a dusty environment, more frequent cleaning of the air inlet filters may be required.

Follow these simple directions to clean the air inlet filters:



1. Remove the air inlet filters.
2. Wash the filters by running under warm tap water using a mild detergent.
3. Rinse thoroughly under warm, running water.
4. Squeeze out excess water.
5. Allow air inlet filters to dry.
6. It is important to allow the air inlet filters to dry completely before reinserting into the device. Moisture from a wet or damp air inlet filter may damage your device.

- ⚠ Never use your Oxlife Freedom® without air inlet filters.
- ⚠ We recommend that you keep extra air inlet filters to use as a replacement. Contact your authorized dealer for extra air inlet filters.

Cleaning

⚠ Unplug your Freedom before cleaning.

⚠ Do not submerge your device or any accessories or allow water to enter the device.

Clean the exterior of your device using a soft cloth dampened with a mild detergent and water and wipe dry. Clean the outside of the device monthly or more frequently, as needed.

⚠ **DO NOT** spray or soak the case or control panel.

⚠ **DO NOT** use alcohol, ethylene chloride or petroleum-based cleaner on the case or power supplies.

AC and DC Power Supplies and Cords

⚠ Unplug your Oxlife Freedom® and/or power supply before cleaning.

Clean the power supplies and cords using a soft cloth dampened with a mild detergent and water and wipe dry.

Disinfection

Between patients, the exterior of the device and battery should be disinfected.

Clean the device as instructed above.

Per manufacturer's instructions, disinfect exterior and battery using *Oxycide* using a soft cloth.

Use of cleaning product containing benzalkonium chloride may impact material durability.

Carry Bag Cleaning

- ❗ Remove the device from the carry bag before cleaning.

Follow these simple directions to clean the Carry Bag:

1. The carry bag can be cleaned using a damp cloth or by washing in a washing machine alone, on a gentle cycle, using cold water and a mild detergent.
2. Allow to air dry.
3. Ensure carry bag is completely dry before use.

Cannula Cleaning

Clean and replace the cannula as instructed by the manufacturer and your healthcare provider.

Device Disposal

This product may contain substances that could be harmful to the environment if inappropriately disposed of in landfills. Follow local governing ordinances and recycling plans regarding disposal of the device.

Battery Disposal

The battery is rechargeable and can be recycled. Always return batteries to your healthcare provider or an authorized dealer for proper disposal. You can also contact your local government offices for proper disposal instructions for a lithium ion battery.

Section 7: Traveling

The Oxlife Freedom® is an approved portable oxygen concentrator as indicated by the requisite FAA statement on the rear label.

Before traveling, be sure to pack the following:

- › Carry Bag
- › Accessory Bag
- › AC Power Supply
- › DC Power Supply
- › Fully Charged Battery (and extra batteries if required)

Also, bring contact information for your healthcare provider, authorized dealer and/or physician.

When traveling internationally, a standard international power plug adapter is required.

Please note that many air carriers require prior notification (usually at least 48 hours) for passengers traveling with portable oxygen concentrators. In addition, most carriers will also require advanced submission of a medical verification statement from your physician. You should confirm any notification and verification requirement with your specific carrier.

Not all air carriers provide an electrical outlet aboard the aircraft, so you should have sufficient batteries (or confirmed alternative power source) to account for at least 150% of your total travel time, including, but not limited to: (A) commuting time to and from the airport; (B) transition time in and out of airports; (C) the duration of your flight; and (D) any unexpected delays. Please be aware that battery requirements may vary based upon Freedom use at the prescribed flow rate. Use requirements may also be affected by the aircraft cabin environment.

If traveling by train, bus or boat contact your carrier to inquire about power port/outlet availability.

Accessing the Airplane Mode Screen

The cellular connection must be deactivated prior to flight on any commercial aircraft.

To enter and exit Airplane Mode, follow the steps listed in the procedure below.

1. Press Menu button (M)
2. Press Plus button (+) to scroll to Airplane Mode icon



3. Press Menu button (M) to enter Airplane Mode menu
4. Press Plus button (+) to activate to Airplane Mode
5. Press Menu button (M) key to select displayed mode
6. Press Plus button (+) to confirm or Minus button (-) to cancel
7. Press Plus button (+) or Minus button (-) to scroll to Home icon
8. Press Menu button (M) to return to Home screen

The device will exit Airplane Mode after 24 hours have passed or the user manually re-enters Normal Mode.

To manually re-enter Normal Mode, follow instructions above.

Section 8: Standards Compliance

This device is designed to comply with the following standards:

IEC 60601-1 2005 Ed.3+A1; Medical Electrical Equipment; Part 1: General Requirements for Basic Safety and Essential Performance

IEC 60601-1-2 4th Edition; Medical Electrical Equipment, Part 1-2: General Requirement for Safety – Collateral Standard: Electromagnetic (EMC) Compatibility

IEC 60601-1-6:2010 Ed3+A1 Medical Electrical Equipment – Part 1-6 General Requirements for Basic Safety and Essential Performance – Collateral Standard: Usability

IEC 60601-1-8:2006 Ed.2 + A1 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 Ed.2 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 62304:2006 Ed1 + A1 Medical Device Software – Software Life Cycle Processes

AAMI IEC 62366:2007 +A1 Medical Devices – Application of Usability Engineering to Medical Devices (R2013)

ISO 80601-2-67 Issued: 2014/06/01 Ed.1 Medical Electrical Equipment – Part 2-67 Particular Requirements for Basic Safety and Essential Performance of Oxygen Conserving Equipment

ISO 80601-2-69 Issued: 2014/07/15 Ed.1 Medical Electrical Equipment – Part 2-69 Particular Requirements for Basic Safety and Essential Performance of Oxygen Concentrator Equipment

RTCA, DO 160, Section 21, Category M; Emission of Radio Frequency Energy

ISO 13485:2016 Medical Devices; Quality Management Systems; Requirements for Regulatory Purposes

Classification

The O2 Concepts Oxlife Freedom® is classified as:

- › IEC Class II Internally Powered Equipment
- › Type BF Applied Part
- › IP22: Drip Proof Equipment (Protected against solid objects over 12 mm and direct sprays of water up to 15° of vertical per IEC 60529)
- › **NOT** suitable for use in the presence of flammable anesthetic mixture with air or with oxygen or nitrous oxide
- › Continuous Operation

Guidance and Manufacturer's Declaration for Electromagnetic Immunity and Recommended Separation Distances between Portable and Mobile RF Communications Equipment and This Device:

This concentrator is intended for use in an environment where the radiated RF disturbances are controlled. Do not use the device near active HF surgical equipment and the RF shielded room of an ME system for magnetic resonance imaging, where the intensity of EM disturbances is high. Electromagnetic interference can be minimized by maintaining the distances described below based on the output of the equipment below.

Guidance and manufacturer's declaration – electromagnetic emissions		
The Oxlife Freedom® Portable Oxygen Concentrator is intended for use in the electromagnetic environment specified below. The customer or the user of the Oxlife Freedom® Portable Oxygen Concentrator should assure that it is used in such an environment.		
Emissions test	Compliance	Electromagnetic environment - guidance
RF emissions CISPR 11	Group 1	The Oxlife Freedom® Portable Oxygen Concentrator uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment. The Oxlife Freedom® Portable Oxygen Concentrator is suitable for use in all establishments, including domestic, and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
RF emissions CISPR 11	Class B	
Harmonic emissions IEC 61000-3-2	Class A	
Flicker IEC 61000-3-3	Complies	

Guidance and manufacturer's declaration – electromagnetic immunity			
The Oxlife Freedom® Portable Oxygen Concentrator is intended for use in the electromagnetic environment specified below. The customer or the user of the Oxlife Freedom® Portable Oxygen Concentrator should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Electrostatic discharge (ESD) IEC 61000-4-2	± 8 kV Contact	± 8 kV Contact	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%
	± 15 kV Air	± 15 kV Air	
Electrical fast transient/burst IEC 61000-4-4	± 2 kV for power supply lines ± 1 kV for input/output lines	± 2 kV for power supply lines ± 1 kV for input/output lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	±1kV Differential ±2kV Common	±1kV Differential ±2kV Common	Mains power quality should be that of a typical commercial or hospital environment.
Voltage Dips/ Dropout IEC 61000-4-11	0 % U _i ; 0.5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315°	0 % U _i ; 0.5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315°	Mains power quality should be that of a typical commercial or hospital environment. If the user of the Oxlife Freedom® Portable Oxygen Concentrator requires continued operation during power mains interruptions, it is recommended that the Oxlife Freedom®

	40 % U _r ; 1 cycle and 70 % U _r ; 25 cycle Single phase: at 0° 250 cycles	40 % U _r ; 1 cycle and 70 % U _r ; 25 cycle Single phase: at 0° 250 cycles	Portable Oxygen Concentrator be powered from an uninterruptible power supply or battery.
Power Frequency 50/60 Hz Magnetic Field IEC 61000-4-8	30A/m	30A/m	Power frequency magnetic fields should be that of a typical commercial or hospital environment.

Guidance and manufacturer's declaration – electromagnetic immunity			
The Oxlife Freedom® Portable Oxygen Concentrator is intended for use in the electromagnetic environment specified below. The customer or the user of the Oxlife Freedom® Portable Oxygen Concentrator should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Conducted RF IEC 61000-4-6 Radiated RF IEC 61000-4-3	6 Vrms 150kHz to 80MHz 3 V/m 80 MHz to 2.5 GHz	(V1) = 6Vrms (E1) = 3V/m	Portable and mobile communications equipment should be separated from the Oxlife Freedom® Portable Oxygen Concentrator by no less than the distances calculated/listed below: D=(3.5/V1)(Sqrt P) 150kHz to 80MHz D=(3.5/E1)(Sqrt P) 80 to 800 MHz D=(7/E1)(Sqrt P) 800 MHz to 2.5 GHz Where P is the max power in watts and D is the recommended separation distance in meters. Field strengths from fixed transmitters, as determined by an electromagnetic site survey, should be less than the compliance levels (V1 and E1). Interference may occur in the vicinity of equipment containing a transmitter.
Proximity fields from RF wireless communications equipment IEC 61000-4-3	See table below (Test Specification for Enclosure Port Immunity to RF Wireless Communication Equipment)	See table below (Test Specification for Enclosure Port Immunity to RF Wireless Communication Equipment)	See table below (Test Specification for Enclosure Port Immunity to RF Wireless Communication Equipment)

Max Output Power (Watts)	Separation (m) 150kHz to 80MHz D=(3.5/V1)(Sqrt P)	Separation (m) 80 to 800MHz D=(3.5/E1)(Sqrt P)	Separation (m) 800MHz to 2.5GHz D=(7/E1)(Sqrt P)
0.01	0.11667	0.11667	0.23333
0.1	0.36894	0.36894	0.73785
1	1.1667	1.1667	2.3333
10	3.6894	3.6894	7.3785
100	11.667	11.667	23.333

Test Specification for Enclosure Port Immunity to RF Wireless Communications Equipment

Test frequency (MHz)	Band ^{a)} (MHz)	Service ^{a)}	Modulation ^{b)}	Maximum power (W)	Distance (m)	IMMUNITY TEST LEVEL (V/m)
385	380 – 390	TETRA 400	Pulse modulation ^{b)} 18 Hz	1,8	0,3	27
450	430 – 470	GMRS 460, FRS 460	FM ^{c)} ± 5 kHz deviation 1 kHz sine	2	0,3	28
710	704 – 787	LTE Band 13, 17	Pulse modulation ^{b)} 217 Hz	0,2	0,3	9
745						
780						
810	800 – 960	GSM 800/900, TETRA 800, IDEN 820, CDMA 850, LTE Band 5	Pulse modulation ^{b)} 18 Hz	2	0,3	28
870						
930						
1 720	1 700 – 1 990	GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1, 3, 4, 25; UMTS	Pulse modulation ^{b)} 217 Hz	2	0,3	28
1 845						
1 970						
2 450	2 400 – 2 570	Bluetooth, WLAN, 802.11 b/g/n, RFID 2450, LTE Band 7	Pulse modulation ^{b)} 217 Hz	2	0,3	28
5 240	5 100 – 5 800	WLAN 802.11 a/n	Pulse modulation ^{b)} 217 Hz	0,2	0,3	9
5 500						
5 785						
NOTE If necessary to achieve the IMMUNITY TEST LEVEL, the distance between the transmitting antenna and the ME EQUIPMENT OF ME SYSTEM may be reduced to 1 m. The 1 m test distance is permitted by IEC 61000-4-3.						
^{a)} For some services, only the uplink frequencies are included.						
^{b)} The carrier shall be modulated using a 50 % duty cycle square wave signal.						
^{c)} As an alternative to FM modulation, 50 % pulse modulation at 18 Hz may be used because while it does not represent actual modulation, it would be worst case.						

The concentrator is intended for use in an environment where the radiated RF disturbances are controlled. Do not use the device near active HF surgical equipment and the RF shielded room of an ME system for magnetic resonance imaging, where the intensity of EM disturbances is high. Electromagnetic interference can be minimized by maintaining the distances described below based on the output of the equipment below.

If the system is compromised due to excessive RF disturbances, an alert or alarm condition may occur, and the device may power off.

RF cell frequencies used by this equipment include: LISA-C200 and SARA-R410

LISA-C200

Parameter	Module		Min	Max	Unit	Remarks
Frequency range CDMA 800	LISA-C200	Uplink	824	849	MHz	Module transmit
	LISA-C200	Downlink	869	894	MHz	Module receive
Frequency range CDMA 1900	LISA-C200	Uplink	1850	1910	MHz	Module transmit
	LISA-C200	Downlink	1930	1990	MHz	Module receive

SARA-R410

Parameter		Min	Max	Unit	Remarks
Frequency range FDD Band 12 (700 MHz)	Uplink	699	716	MHz	Module transmit
	Downlink	729	746	MHz	Module receive
Frequency range FDD Band 17 (700MHz)	Uplink	704	716	MHz	Module transmit
	Downlink	734	746	MHz	Module receive
Frequency range FDD Band 28 (700MHz)	Uplink	703	748	MHz	Module transmit
	Downlink	758	803	MHz	Module receive
Frequency range FDD Band 13 (700MHz)	Uplink	777	787	MHz	Module transmit
	Downlink	746	756	MHz	Module receive
Frequency range FDD Band 20 (800MHz)	Uplink	832	862	MHz	Module transmit
	Downlink	791	821	MHz	Module receive
Frequency range FDD Band 26 (850MHz)	Uplink	814	849	MHz	Module transmit
	Downlink	859	894	MHz	Module receive
Frequency range FDD Band 18 (850MHz)	Uplink	815	830	MHz	Module transmit
	Downlink	860	875	MHz	Module receive
Frequency range FDD Band 5 (850MHz)	Uplink	824	849	MHz	Module transmit
	Downlink	869	894	MHz	Module receive
Frequency range FDD Band 19 (850MHz)	Uplink	830	845	MHz	Module transmit
	Downlink	875	890	MHz	Module receive
Frequency range FDD Band 8 (900MHz)	Uplink	880	915	MHz	Module transmit
	Downlink	925	960	MHz	Module receive
Frequency range FDD Band 4 (1700MHz)	Uplink	1710	1755	MHz	Module transmit
	Downlink	2110	2155	MHz	Module receive
Frequency range FDD Band 3 (1800MHz)	Uplink	1710	1785	MHz	Module transmit
	Downlink	1805	1880	MHz	Module receive
Frequency range FDD Band 2 (1900MHz)	Uplink	1850	1910	MHz	Module transmit
	Downlink	1930	1990	MHz	Module receive
Frequency range FDD Band 25 (1900MHz)	Uplink	1850	1915	MHz	Module transmit
	Downlink	1930	1995	MHz	Module receive
Frequency range FDD Band 39 (1900MHz)	Uplink	1880	1920	MHz	Module transmit
	Downlink	1880	1920	MHz	Module receive
Frequency range FDD Band 1 (2100MHz)	Uplink	1920	1980	MHz	Module transmit
	Downlink	2110	2170	MHz	Module receive

RF GPS frequencies used by this equipment include:

Receiving only:

1575.42 MHz	1598.6 – 1605.9 MHz	1561.098 MHz
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OXLIFE FREEDOM® – LIMITED WARRANTY STATEMENT

O2 Concepts, LLC (the "Company") warrants that each new Oxlife Freedom® and the related accessories and replacement parts (each a "Product" and collectively, the "Products"), in each case purchased from the Company or its authorized distributor, shall be free from defects in materials and workmanship under normal use and service and when correctly maintained for the periods shown from the date of shipment ("Original Shipment Date") to the original purchaser ("Purchaser"), except as otherwise set forth herein. Subject to exclusions set forth herein, the applicable warranty coverages are set forth in the table below.

Product	Warranty Period
Oxlife Freedom® – New	Three (3) years from Original Shipment Date
Oxlife Freedom® – Refurbished/Demo	Two (2) years from Original Shipment Date
Sieve Tubes	One (1) years from Original Shipment Date
Standard Accessories (batteries ⁽¹⁾ , AC power supply, DC power supply, accessory bag)	One (1) year from Original Shipment Date
Optional Accessories (chargers, humidifiers, wheelchair bags, etc.)	Ninety (90) days from Original Shipment Date
Repaired and Replaced Products and Accessories	Later of ninety (90) days from Original Ship Date or remaining warranty period
Disposables (cannulas, filters, tubing)	No warranty
<i>Warranty coverage limited to batteries that fall below 80% of associated rated capacity when fully charged.</i>	

The limited warranties granted hereunder apply to Products purchased by the Purchaser and are not transferable. Purchaser's original purchase receipt for the Products are required for the limited warranties hereunder to be effective. For any limited warranty set forth herein to be effective, Purchaser shall inspect each Product within two (2) days of delivery and before such Product is placed into use. Purchaser agrees that the warranties provided by the Company with respect to any Product are subject to use of the Product in accordance with the Company's instructions as provided and that failure to do so shall void the warranties. The Company's sole liability and Purchaser's sole and exclusive remedy arising out of or relating to the Products, including for a breach of warranty, is limited to, at the Company's sole option, repair or replacement of the Product or part thereof which is returned to the Company at Purchaser's expense. This warranty shall apply only if Purchaser notifies the Company in writing, including email transmission, of the defective Product promptly after the discovery of the defect and

within the warranty period. Products may be returned only by Purchaser and only when accompanied by an RMA reference number issued by the Company (see PRODUCT RETURN GUIDELINES at the end of this Statement). The Company will not be responsible for any alleged breach of warranty for which the Company determines to have arisen from a cause not covered by this warranty including, but not limited to, those exceptions listed below. The Company shall make the final determination as to the existence and/or cause of any alleged defect.

For any Product that does not meet the limited warranty herein within the first ninety (90) days of the Original Shipment Date for the Product, Purchaser shall contact the Company to obtain an RMA reference number. Purchaser shall receive a replacement Product (which, solely at the Company's discretion, will be a new Product or a repaired Product built to a new specification) in advance of return of the failed Product. The Company will cover the shipping cost of the failed Product to the Company as well as the shipment of the replacement Product to the Purchaser. Purchaser will not be charged for the replacement Product provided Purchaser returns the failed Product in accordance with the Company's instructions within ten (10) business days of the issuance of an RMA reference number and the Company determines that such Product is covered by the limited warranty hereunder. If any failed Product is not returned in accordance with the Company's instructions within ten (10) business days from issuance of an RMA reference number or the Company determines that the Product is not covered by the limited warranty hereunder, the Company will invoice Purchaser for the list price of the replacement Product due and payable by Purchaser upon receipt.

For Product that does not meet the limited warranty herein after the ninetieth (90th) day after the Original Shipment Date, Purchaser shall contact the Company for an RMA reference number and return the Product in accordance with Company's instructions at Purchaser's risk and expense. The Company shall examine the Product and, if the Product is covered by the limited warranty hereunder, the Company shall repair or replace the Product within a reasonable time, returning the Product to Purchaser at the Company's expense.

Defects and/or damage resulting from the following are expressly and specifically excluded from any warranty coverage hereunder:

Improper operation, improper storage, misuse, accident, alteration, abuse, neglect and/or physical damage, including, but limited to, exposure to smoke (including cigarette, cigar or e-cigarette smoke);

Ingress of liquids, sand, dirt, food, insects, animals or other foreign objects into the Product;

Exposure to unusual electrical stress, heat, humidity, condensation and/or cold;

Use in a manner that constitutes abnormal usage or conditions;

Failure to follow recommended preventative maintenance;

Unauthorized installation, repair or modification;

Use of parts, materials and accessories not provided or authorized by the Company;

Acts of God and/or other acts or conditions not in the control of the Company.

Moreover, warranty coverage shall not be extended to Products for which (i) the serial number label has been removed, altered or destroyed; (ii) tamper evident seals are broken; or (iii) mismatched serial numbers or revised combinations.

THE LIMITED WARRANTY SET FORTH HEREIN IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED, EITHER IN FACT OR BY OPERATION OF LAW, STATUTORY OR OTHERWISE, INCLUDING WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT. NO REPRESENTATION OR STATEMENT OF THE COMPANY MAY CHANGE OR ALTER THIS LIMITED WARRANTY, UNLESS AGREED TO AND AUTHORIZED IN WRITING BY THE COMPANY.

The Company shall not be liable for any commercial losses, loss of revenues or profits, loss of goodwill, inconvenience, or exemplary, special, incidental, indirect, consequential or punitive damages whatsoever, or claims of third parties, regardless of the form of any claim, whether in contract or tort, whether from breach of this warranty, or defective equipment, or loss of data or from any other use, even if the Company has been advised or should be aware of the possibility of such damage. The Company's liability for loss or damages shall not exceed the purchase price paid by Purchaser for the particular Product giving rise to such liability.

The Company shall not be responsible for delays or failures in its performance resulting from Acts of God, war, riot, fire, explosion, accident, flood, sabotage, inability to obtain fuel, power, raw material or machinery, governmental laws, regulations, or labor disruption, strike, lockout or injunction, acts or omissions beyond the Company's control, including delays of suppliers or technical failure. If any such delay or failure occurs, the Company may allocate Products among the Company's customers at its sole discretion.

The validity, interpretation, and performance of these terms and conditions shall be governed by and construed under the applicable laws of the State of Oklahoma as if performed wholly within the state and without giving effect of the principles of conflict laws.

Except as provided otherwise herein, all disputes between the parties hereto shall be determined solely and exclusively by arbitration under, and in accordance with the rules then in effect of, the American Arbitration Association, or any successors thereto ("AAA"), in Oklahoma County, Oklahoma, unless the parties otherwise agree in writing. The parties shall jointly select an arbitrator. In the event the parties fail to agree upon an arbitrator within ten (10) days, then the Company shall select an arbitrator and Purchaser shall select an arbitrator and such arbitrators shall then select a third arbitrator to serve as the sole arbitrator, provided that if either the Company or Purchaser, in such event, fails to select an arbitrator within seven (7) days, such arbitrator shall be selected by the AAA upon application of either the Company or Purchaser. Judgment upon the award of the agreed upon arbitrator or the so chosen third arbitrator, as the case may be, shall be binding and shall be entered into by a court of competent jurisdiction.

PRODUCT RETURN GUIDELINES

- › Purchaser must contact the Company to obtain a Return Material Authorization ("RMA") reference number before returning any Product.
- › The RMA reference number must be clearly identified on the outer shipping box.
- › The Oxlife Freedom® may only be returned in its original shipping box or a similar container with commercially reasonable packing protection.
- › Any Product received without an RMA reference number will be refused by the Company.
- › All COD shipments will be refused by the Company.
- › Any Product received thirty (30) or more days after the date of issuance of an RMA reference number will be refused by the Company.

NOTES

Oxlife **FREEDOM**®



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www.o2-concepts.com



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PN: 800-1049 Rev: C