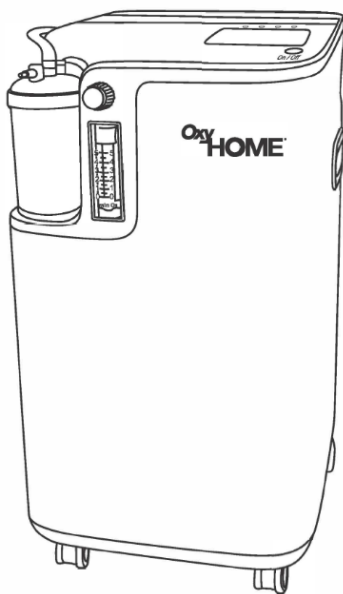


Oxy HOME[®]

OXYGEN CONCENTRATOR User Manual

Model: 2500-5100



























Read this instruction manual carefully before use.

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Contents

Glossary – Explanation of Packaging and Labelling Symbols	3
Introduction.....	4
About OxyHome	4
General Information	4
How to Use this Manual	4
Intended Use.....	4
Contraindications and Precautions	4
Warnings Overview	5
Cautions Overview	6
Concentrator Features	7
Control Panel	8
User Controls	8
User Interfaces.....	8
Indicator Lights.....	8
Alarm Signals / Indicator Light	9
Flow Meter	9
Oxygen Outlet Port.....	9
Accessories	9
Nasal Cannula.....	10
Operating Instructions	10
General Instructions.....	10
Auxiliary Oxygen Port.....	10
Filling Oxygen Cylinders	10
Cleaning, Care, and Maintenance	11
Routine Maintenance and Repairs.....	11
Case Cleaning.....	11
Cannula Replacement.....	11
Filter Replacement	11
Disposal of Equipment and Accessories.....	12
Troubleshooting	12
Product Specifications.....	12
Environmental	13
EMC Information	13
Warranty	18
Trademarks and Disclaimer	18
Disclaimer	18
This Document	18
For Help	18

Glossary – Explanation of Packaging and Labelling Symbols

	Refer to instruction manual/booklet		Class II Device symbol Class II Device symbol
	WARNING - Statements that describe serious adverse reactions and potential safety hazards.		CAUTION - Statements that call attention to special care to be exercised by the practitioner/patient.
	Serial Number		Operating atmospheric pressure
	Batch code		Humidity limitation
	Type BF according to electrical safety requirements		Storage temperature
 No Open Flames	No open flame when device is in use or do not incinerate		U.S. federal law restricts this device to sale by or on the order of a physician
 No Smoking	No smoking		Keep dry
	Do not disassemble (Contact your provider)		This side up
	DO NOT use oil or grease		Stacking limit by number
	Handle with care		Date of manufacture
	Do not use if packaging is damaged		Manufacturer
	Separate collection for electrical and electronic equipment		Electrical Safety Agency Certificate

Introduction

The OxyHome Oxygen Concentrator is used on a prescriptive basis by patients requiring supplemental oxygen. It supplies a high concentration of oxygen and is used with a nasal cannula to channel oxygen from the concentrator to the patient. Please refer to this manual for detailed instructions on warnings, cautions, specifications, and additional information.

About OxyHome

The OxyHome Oxygen Concentrator uses a pressure swing adsorption process and a molecular sieve to separate and concentrate oxygen from the air. The device can provide a continuous flow of oxygen up to 5 LPM. The concentration of supplied oxygen is from 93% + or -3%. The weight of the OxyHome Oxygen Concentrator is 41.8lbs (19kg).

General Information

This equipment is classified as:

- TGA Class IIb
- Electrical Equipment Class II

IMPORTANT: Users should read this entire manual before operating the OxyHome Oxygen Concentrator. Failure to do so could result in personal injury and/or death. If you have questions about the information in this user manual or about the safe operation of this system, contact your oxygen provider.

How to Use this Manual

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: Statements that describe serious adverse reactions and potential safety hazards.

⚠ CAUTION: Statements that call attention to information regarding any special care to be exercised by the practitioner and/or patient for the safe and effective use of the device.

IMPORTANT: Statements calling attention to additional significant information about the device or a procedure.

The TGA requires that the product provider must ensure that all users of the device are provided with the User Manual. The User Manual for this device has been written to account for training and knowledge of the patient population to operate the device appropriately.

Intended Use

The OxyHome Oxygen Concentrator is for use by prescription only and intended to deliver concentrated oxygen to adult patients with chronic pulmonary diseases, or any patient requiring supplemental oxygen. The OxyHome Oxygen Concentrator may be used in a home environment or institutional environment. OxyHome is not intended to be life-supporting or life-sustaining.

Contraindications and Precautions

The OxyHome Oxygen Concentrator is not intended to be used:

- In life-supporting or life-sustaining situations
- In an operating or surgical environment
- With a non-adult population
- In conjunction with the flammable anesthetic or flammable materials

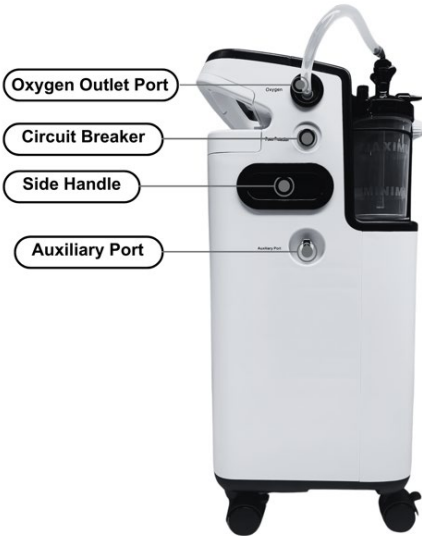
Warnings Overview

1. Do not use the product without first reading the user manual.
2. Do not operate this device if unsure of its operation or function. Contact your home oxygen provider for assistance or further information.
3. There is a risk of fire associated with oxygen equipment and therapy. Do not use near sparks or open flames.
4. Geriatrics or any other patient unable to communicate discomfort can require additional monitoring to avoid harm.
5. Smoking (including e-cigarettes) during oxygen therapy is dangerous and is likely to result in facial burns, serious injury or death of the patient and others from fire. **Do not allow smoking or open flames within the same room as the oxygen concentrator or any oxygen carrying accessories.** If you smoke, you must always turn the oxygen concentrator off, remove the cannula and leave the room where either the cannula or the concentrator is located.
6. Use only water-based lotions that are oxygen compatible, before and during oxygen therapy. Never use petroleum or oil-based lotions or salves when operating the device to avoid the risk of fire and burns.
7. Open flames during oxygen therapy are dangerous and are likely to result in fire or death. Do not allow open flames within 3 meters (10 feet) of the oxygen concentrator or any oxygen carrying accessory.
8. Oxygen makes it easier for a fire to start and spread. Do not leave the nasal cannula on bed coverings, chair cushions or otherwise unattended with the concentrator on, but not in use; the oxygen will make the materials flammable. Turn the concentrator off when not in use to prevent oxygen enrichment.
9. Explosion hazard. Do not use in the presence of flammable anesthetics, cleaning agents, or other chemical vapors.
10. Do not use this device in the presence of pollutants or fumes.
11. Do not submerge this device in liquid. Do not expose to water or precipitation. Do not expose to dusty conditions.
12. Do not use a device or any accessory that shows any sign of damage.
13. Do not use lubricants on this device or any of its accessories.
14. Use of this device at an altitude above 10,000 feet (3,000 m), or outside the temperature range of 41° F (5°C) to 104° F (40°C), or outside the humidity range of 5% to 95% may adversely affect the flowrate and percentage of oxygen and consequently the quality of therapy. When not in use, the device should be stored in a clean, dry environment between -4° F and 140° F (-20°C and 60°C). Use and/or storage outside of the valid conditions may damage the product.
15. If feeling ill or are experiencing discomfort while using this device, contact your clinician or seek medical assistance immediately to avoid harm.
16. Your home oxygen provider must verify the compatibility of the device, and all accessories used prior to use. To ensure you are receiving the therapeutic amount of oxygen for your medical condition, the device and accessories must only be used after one of more settings have been determined or prescribed for you at your specific activity levels by a healthcare professional.
17. The electrical cord and tubing could present a tripping or strangulation hazard. Keep away from children and pets.
18. Do not disassemble or modify this device or any of its accessories. Do not attempt any maintenance other than tasks described in the Troubleshooting section. Disassembly can create an electric shock hazard and will void the warranty. Contact your distributor for servicing by authorized personnel.
19. Use only spare parts recommended by the manufacturer to ensure proper function and to avoid the risk of fire and burns.
20. Do not repair or perform service work while the device is in use by the patient.

Cautions Overview

1. Keep away from heat sources (fireplaces, radiant heaters, etc.) that could cause the operating temperature at or near the device to exceed 104°F (40°C).
2. The display may be difficult to read under bright lighting conditions (sunlight, interior lights, etc.), move away from direct light for viewing the display.
3. Keep away from lint or other loose material that could block the air intake vents.
4. Some countries restrict this device to be sold by or on an order of a prescribing clinician. Please ensure you comply with relevant local laws.
5. Non-prescribed oxygen therapy can be hazardous under certain circumstances. Use this device only when prescribed by a duly licensed clinician.
6. Always operate the device at the flow rate prescribed by a clinician. Do not alter the flow rate unless prescribed by a clinician. Periodic reassessment of the flow settings should be done by a clinician.
7. It is recommended for an alternate source of oxygen to be made available in the event of power outage or mechanical failure. Consult your home oxygen provider or clinician for an appropriate backup system.
8. It is the responsibility of the patient to make alternative or back up arrangements for oxygen when traveling.
9. This device may not reach specified oxygen concentration purity until it has been in use for up to 2 minutes at set flowrate.
10. This device is designed for use by one patient at a time.
11. The device can be re-used by a new patient. The device should be cleaned as indicated in this user manual and, according to local laws and prescriptions prior to delivering to a new patient.
12. If you are unable to hear or see alarms or cannot communicate discomfort, consult a clinician before using this device.
13. If oxygen concentration drops below the specified level, an alarm will indicate this condition. If alarm persists, stop using this device, switch to an alternate source of oxygen, and contact your home oxygen provider.
14. Only use approved accessories with this device. Using unapproved accessories may impair the performance of this device.
15. Always follow the cannula manufacturer's instructions for proper use.
16. Replace the cannula on a regular basis. Check with your home oxygen provider or clinician to determine how often the cannula should be replaced.
17. Do not use cleaning agents other than those specified in this manual. Allow the cleaning solution to dry from the cleaned surface before use.
18. Always turn off this device when not in use.
19. Do not use extension cords with power cord provided.
20. Always disconnect power and turn off this device before cleaning, see "Cleaning, Care, and Maintenance."
21. Do not obstruct air intake or exhaust vents when operating this device. Blockage can cause buildup of internal heat and shut down or damage this device.
22. Do not place objects on top of this device.
23. Keep away from children and pets to prevent damage to the device and accessories and/ or inadvertent setting changes.
24. Keep the device away from pets and pests.
25. Do not use in dusty or wet conditions.
26. Always use in a well-ventilated location.
27. If this device indicates an abnormal condition, see the Troubleshooting section.
28. Use caution when touching this device in high ambient temperatures.
29. The device can be isolated from power by disconnecting the power supply from the input connector.

Concentrator Features



Control Panel



User Controls

Item	Description	Function
1	On / Off Button	Press the button to turn the device "On" or "Off"

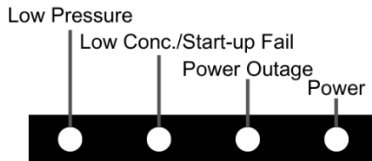
User Interfaces

Item	Description	Function
2	Display	The LCD panel displays total running time and alarm indicators. Alarm indicators will appear when there is an error.
3	Indicator Lights	There are four indicator lights on the device, see table below for descriptions.
4	Audible Signals	An audible signal (beep) indicates either a change in operating status or a condition that may need response (alert).

Indicator Lights

There are 4 indicator lights on the device, please see below for descriptions.

- 1. Low outlet pressure Indicator (Low Pressure):** Outlet pressure is less than 2.2 psi, the indicator light will flash yellow every two seconds and an alarm will sound. Alarm shall not activate during cylinder fill.
- 2. Low oxygen purity Indicator (Low Conc.):** If the oxygen concentration drops below 82% (VN) the indicator light will flash yellow, and the alarm will sound.
- 3. Power loss indicator (Power Outage):** When there is a power outage, the indicator light will flash yellow every 2 seconds, and the alarm will sound.
- 4. Power status indicator:** When the concentrator is powered on, the indicator light will remain solid green if the concentrator is working normally.



Alarm Signals / Indicator Light

Item No.	Alarm Type	Priority	Color	Flashing Frequency	Vacancy Ratio	Auditory Yes/No	Alarm Condition Delay/s	Alarm Signal Generation Delay/s
1	Power supply failure alarm	Med	Yellow	Flashing every two seconds	50%	Yes	5s	5s
2	Start-up fail alarm	Med	Yellow	Flashing every two seconds	50%	Yes	5s	5s
3	Low oxygen concentration ALARM (non-startup)	Med	Yellow	Flashing every two seconds	50%	Yes	5s	5s
4	Pressure failure alarm	Med	Yellow	Flashing every two seconds	50%	Yes	5s	5s
5	No flow alarm	Med	On Screen	Flashing every two seconds	N/A	Yes	5s	5s
6	Low flow alarm	Med	On Screen	Flashing every two seconds	N/A	Yes	10s	5s

Flow Meter

⚠️WARNING: Always operate the device at the flow rate prescribed by your physician or therapist. Do not change the L/min setting on the flowmeter unless a change has been prescribed.

Rotate the knob on top of the flow meter to set the flow as prescribed by your physician or doctor. The position of the black ball inside of the flow meter indicates the flow rate.



Oxygen Outlet Port

Connection port for cannula or humidifier bottle.

Accessories

⚠️CAUTION: Only use approved accessories with this device. The accessories listed below are recommended for use with this device. The use of any other accessories which are not specified for use with this device may reduce performance and void the manufacturer's warranty. Contact your distributor for updated information and accessories or if additional, optional, or replacement accessories are needed.

Description	Part Number
User Manual	
Foam Cabinet Filter (10 pack)	1170-5401
HEPA/Compressor Inlet Filter	1170-5402
Bacteria Filter	1170-5403
Locking Caster Kit (4 pack)	1170-5404
Flow Control Knob	1170-5405

Nasal Cannula

There are many types of nasal cannulas that can be used with this device. Any FDA approved nasal cannula tube can be used with continuous flow delivery and may be sized according to your prescription as recommended by your homecare provider who should also give you advice on the proper usage, maintenance, and cleaning.

The nasal cannula is for single patient use.

⚠CAUTION: Replace the cannula on a regular basis. Check with your home oxygen provider or clinician to determine how often the cannula should be replaced. A nasal cannula must be used with OxyHome to provide oxygen from the concentrator.

If you are using a humidifier, connect tubing from the concentrator's oxygen outlet to the humidifier. Then connect the supply tube/cannula to the humidifier.

For detailed usage, cleaning and disinfection of the oxygen supply tube and humidifier bottle, please refer to their instruction or use provided by your supplier.

Operating Instructions

General Instructions

⚠WARNING: Do not use the device or any accessory that shows any sign of damage.

1. Place the concentrator in a well-ventilated location.

The concentrator requires unobstructed ventilation. Ventilation ports are located at the bottom and back of the concentrator. Place device a minimum of 6 to 12 inches away from walls, furniture, and curtains which may impede air flow to the device.

2. Ensure both particle filters are in place.

⚠CAUTION: Do not operate the device without the inlet filter and gross particle filter in place. The concentrator may be damaged if used without these filters.

3. Connect the Power Supply

Connect the AC power plug to an electrical outlet.

⚠CAUTION: Avoid the use of electrical extension cords with the concentrator. If an extension cord must be used, please consult your Equipment Provider.

4. Connect the nasal cannula tubing to the oxygen outlet port.

5. Power on the concentrator by pushing the On/Off button down.

The power indicator light will turn solid green.

6. Set the concentrator to the flow prescribed by your physician.

Rotate the knob on the top of the flow meter to set the flow as prescribed by your physician or doctor.

7. Position the nasal cannula on your face and inhale the oxygen through your nose.

Place the nasal cannula over your ears and position the two prongs of the nasal cannula into your nostrils to start oxygen therapy.

8. When not in use, turn off the concentrator by pushing the On/Off button again.

Auxiliary Oxygen Port

For all OxyHome 5L concentrators equipped with an auxiliary port located on the left side of the unit.

Filling Oxygen Cylinders

The auxiliary port is intended to fill oxygen cylinders compliant with FDA requirements in continental USA.

Cleaning, Care, and Maintenance

Routine Maintenance and Repairs

The service life of the internal filters and sieve modules will depend on operating conditions. Do not attempt to repair the device. Contact your home oxygen provider or distributor for assistance.

⚠WARNING: Do not use oil, grease, or petroleum-based products on or near the Oxygen Concentrator or its accessories.

⚠CAUTION: Always disconnect power and turn off this device before cleaning. Do not disassemble or modify this device or any of its accessories due to danger of electrical shock.

Case Cleaning

You may clean the outside case using a cloth dampened with a mild liquid detergent (Such as Dawn™) and water. Do not use a spray bottle to apply cleaning solution. Ensure cleaning solution does not enter concentrator venting or auxiliary oxygen port.

Clean the exterior with a soft cloth slightly dampened with soapy water or with anti-bacterial wipes (Isopropyl alcohol 70% solution). For disinfecting, use a wipe or equivalent and follow the manufacturer's instructions.

Cannula Replacement

Your nasal cannula should be replaced on a regular basis. Consult with your physician and/or equipment provider and/or cannula manufacturer's instructions for replacement information.

⚠CAUTION: Refer to the original manufacturer's instruction for cleaning the nasal cannula.

Filter Replacement

The foam cabinet filter (#1170-5401) located on top of the filter box should be cleaned with warm water and mild detergent weekly. Allow filter to dry fully before using. Regular cleaning of the gross particulate filter is essential for the safe operation of the device.



#1170-5401

⚠CAUTION: Do not attempt to operate the unit without the foam cabinet filter (1170-5401) or while the filter is still damp.

⚠CAUTION: Operation of the OxyHome Stationary Oxygen Concentrator in extreme environments or without the foam cabinet filter (1170-5401) will prematurely occlude the HEPA/Compressor filter (#1170-5402) and cause a decrease in the unit performance.



#1170-5402

The HEPA/Compressor filter (#1170-5402) located inside the filter box is designed to last up to 3 years depending on the environment. Inspect the HEPA/Compressor filter (#1170-5402) on receipt of equipment to ensure proper installation of filter. Consult your equipment provider for further instructions on filter replacement.



#1170-5403

The final bacteria filter is typically a lifetime filter. We recommend inspecting and replacing the final bacteria filter (#1170-5403) as necessary.

Disposal of Equipment and Accessories

Follow your local governing ordinances for disposal and recycling of the OxyHome Oxygen Concentrator and accessories. If WEEE regulations apply, do not dispose of unsorted municipal waste. Within Europe, contact the EU Authorized Representative for disposal instructions.

Troubleshooting

Problem	Probable Cause	Solution
No or low oxygen	Internal leak, kinked cannula, or supply tube.	Check supply tube and cannula for obstructions.
No flow	Internal leak, kinked cannula, or supply tube.	Check supply tube and cannula for obstructions.
Low flow	Internal leak, kinked cannula, or supply tube.	Check supply tube and cannula for obstructions.
Overheating of the device	Operating temperature is too high. Ventilation ports are blocked. Environmental temperature is too high.	Make sure unit is placed in well-ventilated area and ventilation ports are not blocked
Condensation in supply tubing and cannula.	The device is running hot which can cause condensation in the supply tube and cannula. Cooling fan has malfunctioned causing the unit to run hot	Move unit to a well-ventilated area and keep supply tubing off cold surfaces. Consult your Equipment Provider for service.
Device will not turn on	No power to AC outlet	Check AC outlet and circuit breaker
Low pressure alarm while filling cylinder	Leak in sieve beds/flowmeter not set properly, auxiliary port damage, debris in auxiliary port, loose or leaking hose connection	Consult your Equipment Provider for service.
Alarm Occurs	See alarm indicators	Check the indicator lights and LCD display for details on the alarm. Call your Equipment Provider for service if necessary.

Product Specifications

Flow Specifications	0 LPM-5 LPM
Oxygen Concentration	93% (+3%, -3%) (V/V)
Oxygen Output Pressure	8 (+2, -2) psi
Auxiliary Port Flow Output	>6 LPM
Auxiliary Port Pressure Output	>5 psi
Auxiliary Port Concentration Output	>90%
Rated Voltage/Frequency	230VAC ± 10% 50Hz
Power Consumption	350watts
Sound	≤45 dB(A)
Dimensions	13.4 in. W x 11.8 in. D x 25.6 in. H (34 cm x 30 cm x 65 cm)
Weight	41.8lbs (19kg)
Environmental operating conditions	Temperature: 41°F to 104°F (5°C to 40°C)
The permissible environmental conditions for storage	Temperature: -4°F to 140°F (-20°C to 60°C) Humidity limitation: up to 80% RH
Environmental conditions of transport	Temperature: -13°F to 158°F (-25°C to 70°C) Humidity limitation: ≤90% RH

Environmental

Operational altitude of concentrator: 0-10,000 ft (3,000 m). When operating the device beyond this altitude range, it will cause insufficient oxygen concentration. Refer to cylinder filling device manual for operating altitude.

EMC Information

⚠WARNING: Avoid stacking the device on top or below other electronic equipment. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.

⚠WARNING: Use of accessories, transducers, and cables other than those specified or provided by the manufacturer could result in increased electromagnetic emissions or decreased electromagnetic resistance of this device and result in malfunction.

⚠WARNING: Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should not be placed closer than 12 inches (30 cm) to any part of the concentrator.

Table 1

Guidance and Manufacturer's Declaration: Electromagnetic Emissions		
2500-5100 is intended for use in the electromagnetic environment specified below. The customer or the user of 1400-5100 should assure that it is used in such an environment.		
Emissions test	Compliance	Electromagnetic environment - Guidance
RF emissions CISPR11	Group1	2500-5100 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. 2500-5100 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.
RF emissions CISPR11	Class B	
Harmonic emissions IEC 61000-3-2	Class A	
Voltage fluctuations/Flicker emissions IEC 61000-3-3	Complies	

Table 2

Guidance and Manufacturer's Declaration: Electromagnetic Immunity			
2500-5100 is intended for use in the electromagnetic environment specified below. The user of 2500-5100 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	±8kV contact ±2kV, ±4kV, ±8kV, ±15kVair	±8kV contact ±2kV, ±4kV, ±8kV ±15kV 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	±2kV for power supply lines ± 1 kV for input/output lines	± 2kV for power supply lines ±1kV for input/output lines	The power supply should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	±0.5kV, ±1kV line(s) to lines ±0.5kV, ±1kV, ±2kV line(s) to earth	±0.5kV, ±1kV line(s) to lines ±0.5kV, ±1kV, ±2kV line(s) to earth	The power supply should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	0% U _T ; 0.5 cycle at 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0%U _T ;1cycleand 70% U _T ; 25/30 cycles Single phase:at0° 0%U _T ;250/300 cycles	0% U _T ; 0.5 cycle At 0°,45°, 90°,135°, 180°,225°,270°and 315° 0%U _T ; 1 cycle and 70% U _T ; 25/30 cycles Single phase: at 0° 0%U _T ;250/300 cycles	The power supply should be that of a typical commercial or hospital environment. If the user of the 2500-5100 requires continued operation during a power outage, it is recommended that the 2500-5100 be powered from an uninterruptible power supply or a battery
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30 A/m	30 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.
NOTE: U _T is the a.c. mains voltage prior to application of the test level.			

Table 3


Guidance and Manufacturer's Declaration: Electromagnetic Immunity			
2500-5100 is intended for use in the electromagnetic environment specified below. The customer or the user of 2500-5100 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	3V 0.15 MHz to 80 MHz 6 V in ISM and amateur radio bands between 0.15 MHz and 80 MHz	3V 0.15 MHz to 80 MHz 6 V in ISM and amateur radio bands between 0.15 MHz and 80 MHz	<p>Portable and mobile RF communications equipment should be used no closer to any part of the device than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.</p> <p>Recommended separation distance:</p> $d = \left[\frac{3.5}{V_1} \right] \sqrt{P} \text{ 150KHz to 80 MHz}$ $d = \left[\frac{3.5}{E_1} \right] \sqrt{P} \text{ 80 MHz to 800MHz}$ $d = \left[\frac{7}{E_1} \right] \sqrt{P} \text{ 80 MHz to 2.7 GHz}$ <p>where P is the maximum output power rating of the transmitter in watts(W) according to the transmitter manufacturer and d is the recommended separation distance in meters(m).</p> <p>Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, should be less than the compliance level in each high frequency range.</p> <p>Interference may occur in the vicinity of equipment marked with the following symbol:</p> 
Radiated RF IEC61000-4-3	10V/m 80 MHz to 2.7 GHz	10V/m	
NOTE 1: At 80MHz and 800 MHz, the higher frequency range applies.			
NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.			
<p>Field strengths from fixed RF transmitters, such as base stations for radio(cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which 2500-5100 is used exceeds the applicable RF compliance level above, 2500-5100 should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the device.</p> <p>Over the frequency range 0.15 MHz to 80 MHz, field strengths should be less than 3 V/m.</p>			

Table 4

Recommended Separation Distances between Portable and Mobile RF Communications Equipment and this Device			
<p>2500-5100 is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of 2500-5100 can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and 2500-5100, as recommended below, according to the maximum output power of the communications equipment.</p>			
Rated Maximum Output Power of Transmitter (W)	Separation Distance According to Frequency of Transmitter (M)		
	0.15 MHz to 80 MHz $d=1.2\sqrt{P}$	80 MHz to 800 MHz $d=1.2\sqrt{P}$	80MHz to 2.7 GHz $d=2.3\sqrt{P}$
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23
<p>For transmitters rated at a maximum output power not listed above, the recommended separation distanced in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output.</p> <p>NOTE 1: At 80 MHz and 800 MHz, the higher frequency range applies.</p> <p>NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.</p>			

Table 5

Declaration - Immunity to proximity fields from RF wireless communications equipment						
2500-5100 is intended for use in an electromagnetic environment in which RF wireless communications equipment are controlled.						
Immunity test	IEC60601testlevel				Compliance level	Electromagnetic environment guidance
	Test frequency	Modulation	Maximum power	Immunity level		
Radiated RF IEC 61000-4-3	385 MHz	**Pulse Modulation: 18Hz	1.8W	27V/m	27V/m	
	450 MHz	*FM+ 5Hz deviation:1kHz sine	2W	28 V/m	28 V/m	
	710 MHz 745 MHz 780 MHz	**Pulse Modulation: 217Hz	0,2W	9 V/m	9 V/m	
	810 MHz 870 MHz 930 MHz	**Pulse Modulation: 18Hz	2W	28 V/m	28 V/m	
	1720 MHz 1845 MHz 1970 MHz	**Pulse Modulation: 217Hz	2W	28 V/m	28 V/m	
	2450 MHz	**Pulse Modulation: 217Hz	2W	28 V/m	28 V/m	
	5240 MHz 5500 MHz 5785 MHz	**Pulse Modulation: 217Hz	0.2W	9 V/m	9 V/m	
<p>Note *- As an alternative to FM modulation, 50% pulse modulation at 18Hz may be used because while it does not represent actual modulation, it would be worst case.</p> <p>Note**-The carrier shall be modulated using a 50% duty cycle square wave signal.</p>						

Warranty

For complete warranty details, please email enquiry to sales@bulgingroup.com.au

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For Help

If you have questions about the information in these instructions or about the safe operation of this device, contact your home oxygen provider or distributor.

To view the most up-to-date version of this manual, please visit our website at www.bulgingroup.com.au



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