



Western Surgical®

Oxygen Concentrator

USER MANUAL - LPM/S



www.westernsurgical.in

Email : westernsurgical@gmail.com

Email : info@westernsurgical.in

Ph. : +91-281-2232871 / 2243159

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* Carrying Warranty at Rajkot only on site warranty not provided free of cost.

* Due to constant upgradation design, price and features are subject to change any time without prior notice.



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TABLE OF CONTENTS

Introduction.....	1
Important parts of your concentrator.....	2
Setting up your concentrator.....	2
Before operating your concentrator.....	3
Reserve oxygen cylinder.....	4
Maintenance for your concentrator.....	4
Troubleshooting.....	5
Specifications.....	6

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Introduction

This oxygen concentrator is intended to provide supplemental oxygen therapy in the home, nursing homes, patient care facilities, etc.

This instruction will acquaint you with the oxygen concentrator. Make sure that you read and understand this guide before operating your unit. Please pay special attention to all safety information.



How your Oxygen Concentrator works

Oxygen concentrators are now the most reliable, efficient and convenient source of oxygen supplement. The oxygen concentrators are electrically operated. It separates oxygen from room air which allows high-purity oxygen to go through the outlet, without affecting the normal oxygen concentration in the room.



WARNING

Security notice

- 1、 The power supply of this machine is AC220-240V/50Hz.
 - 2、 Please cut off the power, unplug and ask professional persons to check when something drops into the machine.
 - 3、 Please keep the plug away from the power socket if not in use.
-  Oxygen therapy may be dangerous in some conditions. It is wise to consult with doctors before oxygen therapy through the machine.
-  Spare oxygen-supply instruments are necessary for patients who urgently need oxygen.



NO SMOKING

Other Notices

- 1、 The oxygen concentrator is not capable for high moist environment.
- 2、 Lubricating oil or other synonyms can not be used to the machine.
- 3、 Do not use the oxygen concentrator in airtight room.
- 4、 Do not restart in less than 2 minutes after each shutting down.
- 5、 The oxygen concentrator is not allowed to be operated by a child.
- 6、 Please keep the machine working in normal conditions: temperature 5-45°C, relative humidity ≤ 90%
- 7、 Do not replenish oxygen while there is water in the humidification bottle.



Please obey the doctor's instructions for your safety.

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Important parts of your concentrator

Front view (Figure1)

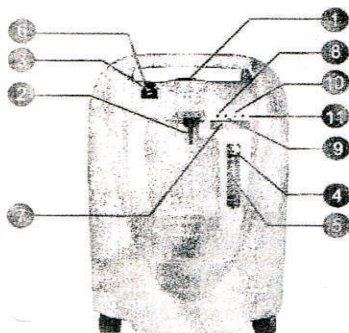


Figure 1

1. Operating instruction
2. Oxygen outlet
3. Circuit breaker—resets the unit after electrical overload shutdown.
4. Flow meter knob
5. Flow meter
6. Switch
7. Screen—displaying the pressure condition and digital timing
8. Indicator light of POWER
9. Indicator light of NORMAL OXYGEN
10. Indicator light of HIGH PRESSURE
11. Indicator light of LOW PRESSURE (need to clean or change the filter)

Back view (Figure2)

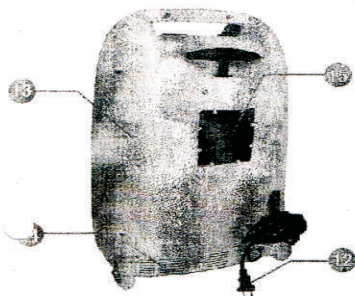


Figure2

12. Power cord
13. Maintenance entrance—with an intake filter
14. Exhaust
15. Air filter

Setting up your oxygen concentrator

1. Put the unit near an electrical outlet in the room.

⚠ Keep the oxygen concentrator at least 5 feet (1.6m) from hot, sparking objects or naked sources of flame.

2. Position your unit at least 6 inches (16cm) from walls, draperies, or any other objects that might prevent the proper flow of air in and out of it. The oxygen concentrator should be located so as to avoid pollutants or fumes.

Before operating your oxygen concentrator

Before operating your unit, always check to be sure the air filter located on the back of your unit is clean.

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1. Please check if the air filter at the back is clean before using the unit.
2. Attach appropriate accessories to the oxygen outlet.

Oxygen Tubing Connection:

- a. Thread the oxygen output connector onto the outlet. (Figure 3)
- b. Directly attach the oxygen tubing to the connector. (Figure 4)



Figure 3



Figure 4

Oxygen Tubing Connection with Humidification:

If your physician has prescribed an oxygen humidifier bottle as part of your therapy, follow these steps:

- a. Fill the humidifier bottle with distilled water without being over the top mark.
- b. Thread the wing nut on the top of the bottle to the oxygen outlet so that the bottle is suspended. Make sure it is firmly tightened. (Figure 5).
- c. Attach the oxygen tubing to the outlet of the humidifier bottle.



Figure 5



Figure 6

3. Nasal cannula, catheter, oxygen mask or other accessories prescribed by your physician should be attached to the oxygen tubing.
4. Remove the power cord from the strap, make sure the switch is in the "OFF" position and insert the plug into the wall outlet. This unit is double insulated to avoid electric shock.

WARNING

Improper use of the power cord and plug can cause a burn, fire or other electric shock hazards.
Do not use the unit if the power cord is damaged.

Operating your oxygen concentrator

DANGER

Oxygen can help burning. Do not smoke when you open the oxygen concentrator or get close to a person who is utilizing oxygen therapy.

1. Press the Switch to "ON". When the unit is turned on, the power light will illuminate, and the alert system (unit with oxygen sensor) will briefly alarm.

When the unit is turned on, the four lights on the panel, indicating power, normal purity, high pressure and low pressure, will light on for a few minutes, and then only the power light and the normal purity light will still be on.

Please switch to a reserve oxygen concentrator if you find the light turns yellow. You can refer to the contrast table of fault detecting and repairing. Please contact your dealer if necessary.

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2. Check the flow meter and make sure the flow meter ball is centered on the line next to the prescribed number.

⚠ It is very important to follow your oxygen prescription. Do not increase or decrease the flow of oxygen-consult your physician.

NOTE-Your supplier might have preset the flow meter so you may pass this step.

NOTE-If the flow meter knob is turned clockwise, the flow decreases (and eventually will shut off the oxygen flow), If the knob is turned counterclockwise, the flow increases.

3. Your oxygen concentrator is now ready for use, properly position the cannula or mask.

Reserve oxygen cylinder

A reserve oxygen cylinder should be prepared for severe patients. If your unit loses electrical power or fails to operate correctly, the alarm system will sound to signal you to switch to a reserve unit.

Maintenance for your oxygen concentrator

⚠ WARNING

Use no lubricants, oils or grease.

Before attempting any cleaning procedures, turn the unit off.

Oxygen Humidifier

If your physician has humidification bottle, please clean it everyday. Follow the instructions supplied by the manufacture:

1. Wash the humidifier bottle in a solution of hot water.
2. Soak the humidifier in a solution of one part white vinegar to three parts hot water for 30 minutes. This solution acts as a germicidal agent.
3. Rinse thoroughly with clean water, and then fill with distilled water for use.

Cannula, Mask and Tubing

Clean and replace the cannula, mask and tubing as instructed by your provider.

Air Filter & Intek Filter

The Intek filter should be replaced once every hours, and it can be bought from dealers.

The air filter should be cleaned at least once a week. To clean, follow these steps:

1. Remove the filter, located in the back of the unit.
2. Wash in a solution of warm tap water and towel dry.
3. Rinse thoroughly with clean water and towel dry. The filter should be completely dry before reinstalling.

Caution: to prevent product damage, do not attempt to operate the unit without the air filter or while the filter is still damp.

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Bacteria Filter

The bacteria filter inside the oxygen concentrator can filter 99.999% of bacteria. Please ask a facilitator for replacement after each 2000 hours' use.

Exterior cabinet


WARNING

To avoid electric shock, do not remove the concentrator cabinet. The cabinet should only be removed by a qualified technician. Do not apply liquid directly to the cabinet or utilize any petroleum-based solvents or cleaning agents.

Clean the concentrator exterior cabinet by using a damp cloth or sponge with a mild household cleaner and wipe it dry.

Troubleshooting

The following troubleshooting chart will help you analyze and correct oxygen concentrator malfunctions. If the suggested procedures do not help, please switch to a reserve unit and contact your supplier.

 To avoid electric shock, do not take remove the cabinet.

TROUBLESHOOTING CHART

Symptom	Possible Causes	Remedy
A. The unit does not work when the switch is on. The power light does not shine. Alarm is heard.	1. The power cord is not connected to the power outlet. 2. The outlet is out of electricity.	1. Check if the power supply is 220V. 2. Check the circuit breaker of the house. Reset it if necessary.
B. The unit works but the red alarm light is on. You may hear alarm.	1. The air filter turns dirty. 2. The exhaust is blocked.	1. Replace the air filter. 2. Check the exhaust and make sure nothing blocks.
C. The unit works and the power light is on. You can hear the sound of low-frequency vibration.		Turn off the power and contact your dealer.
D. The green light or the yellow light is on. You can hear continuous alarm.	1. The flow meter needs to be calibrated. 2. The air filter turns dirty. 3. The exhaust is blocked	1. Make sure the flow meter is properly calibrated. 2. Replace the air filter. 3. Check the exhaust and make sure nothing blocks
E. The red alarm light is on accompanied by continuous alarm	1. The flow meter needs to be calibrated. 2. The air filter turns dirty. 3. The exhaust is blocked 4. Cooling fan Fail	1. Make sure the flow meter is properly calibrated. 2. Replace the air filter. 3. Check the exhaust and make sure nothing blocks 4. Stop Machine & at that time machine is full warm replace fan

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Specifications

Power consumption:	350 Watts Average
Size:	305×300×610 (Length×Width×Height) mm
Weight:	14.3 kg
Outlet:	1
Outlet Pressure:	0.04-0.06 MPa
Oxygen Flow Rate:	(0~5)LPM
Oxygen Flow Rate:	(0~5)LPM, 93%±3%
Noise:	≤45dB (A)
Storage Condition:	temperature -40℃ to 55℃ humidity ≤80%

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Date of Installation	Installed By
Model No.	Serial No.
Warranty Period	
Name of Doctor & Address :	

Customer Sign. With Stamps

**Marketed By: Western Surgical
Sign. With Stamps**

No Claim Warranty :

1) Any Defect Throughtout Power Supply

2) Any Physical Damage

3) Under Warranty Standby Unit Not Provide

4) Under Warranty When Company Send Parts or Machine we Imidiat send to Buyer.

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OUR OTHER PRODUCTS RANGE



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"Happy Home", 2nd Floor, 23, Karanpara,
B/h. S.T. Bus Stand, Kanak Road,
Rajkot-360 001. Ph. : 0281-2232871/2243159
Mo. : 98250 69069 - 98250 45997
Email : westernsurgical@gmail.com
Email : info@westernsurgical.in

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