

# owgels

A GERMAN RESPIRATORY THERAPIST SINCE 1963



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Version: 20191205

## OXYGEN CONCENTRATOR

**Product manual** \ Model: OZ-5-01TW0



**WARNING**

**DON'T OPERATE THIS DEVICE WITHOUT FIRST READING AND UNDERSTANDING THIS MANUAL. IF YOU ARE UNABLE TO UNDERSTAND THE WARNINGS AND INSTRUCTIONS, CONTACT YOUR EQUIPMENT PROVIDER BEFORE ATTEMPTING TO USE THIS EQUIPMENT; OTHERWISE, INJURY OR DAMAGE MAY RESULT.**



**WARNING**

**Smoking while using oxygen is the number one cause of fire, injury, and death. You must follow these safety warnings.**



**WARNING**

Do not allow smoking, candles, or open flames within the same room of the device or the oxygen-carrying accessories.



**WARNING**

Smoking while wearing an oxygen cannula may result in facial burns or likely death.



**WARNING**

Removing the cannula and placing it on surfaces such as bedding, sofas, or other cushion material will cause a flash fire when exposed to a cigarette, heat source, or flame.



**WARNING**

If you smoke, you must follow these 3 life-saving steps: turn off the oxygen concentrator, take off the cannula and leave the room where this device is located.



**“No Smoking-Oxygen in Use” signs must be prominently displayed in the room, or where the oxygen concentrator is in use. Patients and their caregivers must be informed about the dangers of smoking in the presence of, or while using medical oxygen.**

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# 1 Intended Use and Instructions


## Intended Use


The OZ-5-01TW0 Oxygen Concentrator is designed to provide supplementary oxygen to patients who have been diagnosed with oxygen therapy. It delivers a high concentration of oxygen and is used with a cannula to channel oxygen from the concentrator to the patient. This device may be used at home or Institutions.


This device is expected to work for a period of 5 years. For a longer use, please consult your Equipment Provider and physician.


 **WARNING** Availability of an alternate source of oxygen is recommended in case of power outage, or mechanical failure. Consult your Equipment Provider for type of back-up system recommended.


 **WARNING** This device is not intended to be life sustaining and life supporting. Geriatric, pediatric, or any other patient unable to communicate discomfort while using this oxygen concentrator may require additional monitoring. Patients with hearing and/or sight impairments may need assistance with monitoring the alarms. If you feel discomfort, or are experiencing a medical emergency, seek medical assistance immediately.


 **WARNING** Do not use oil, grease, or petroleum-based product on or near the OZ-5-01TW0 Oxygen Concentrator.


 **WARNING** Do not use extension cords with this device or connect too many plugs into the same electrical outlet. This can result in an overload to the electrical panel causing the breaker/fuse to activate.


 **WARNING** Use only voltage specified on back panel label.


 **WARNING** Care should be taken to prevent the device from getting wet or allowing water to enter the device. This can cause the device to malfunction or shut down, and cause an increased risk for electric shock or burns.


 **WARNING** No modification of this device is allowed.


 **WARNING** This device should not be used adjacent to or stacked with other equipment.

 **CAUTION** It is very important to follow the prescribed oxygen flow. Do not increase or decrease the flow until you first consult your physician.

 **CAUTION** Ensure the device is operated in an upright position.

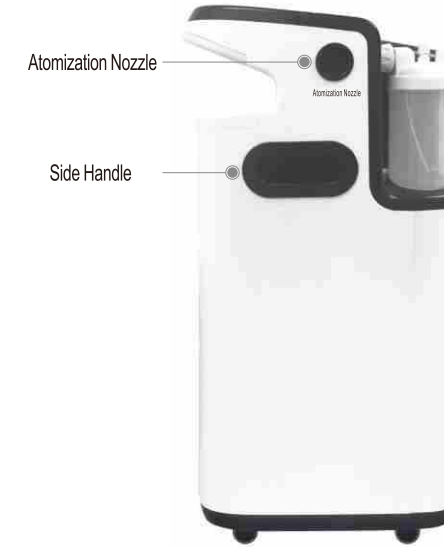
 **CAUTION** Position the device away from curtains or drapes, hot air or any heating devices. Be certain to place the device on a flat surface and make sure all sides are at least 1 foot (30 cm) away from a wall or other obstruction. Do not place the device in a confined area. Choose a dust-and-smoke-free area. Do not operate the unit outdoors. Avoid exposing it to direct sunlight.

 **CAUTION** To prevent a void of the warranty, follow all manufacturer's instructions.

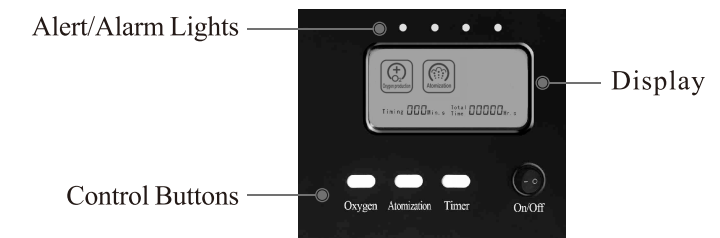
 **CAUTION** The device releases warm air from the bottom of the machine, which can permanently discolor temperature sensitive flooring surfaces. The concentrator should not be used over flooring that is sensitive to hot air.

## 2 Description of the OZ-5-01TW0 Oxygen Concentrator

### Front and Back of Concentrator



### Control Panel



## Display

- Displays information regarding cumulative hours of operation, and time for each therapy set for the patient.

## Oxygen Outlet Port

- Provides connection for a cannula.

## Flow Setting Knob

- Controls the oxygen flow rate in liters per minute (LPM).

## Humidifier Bottle

- Humidifies the oxygen before it reaches the patient.

## Flow Meter

- indicates flow rate.

## Oxygen Button

- Pressed to start oxygen delivery.

## Atomization Button

- Pressed to boost the atomizing process.

## Timer

- Sets the time of each therapy.

## Switch

- Starts and stops power supply to this concentrator.

## Atomization Nozzle

- Provides connection for an atomizing tubing.

## Alert/Alarm Lights

- Illuminates to alert or alarm the user in case of a condition that may need immediate attention.

## Accessories



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 manufacturer's warranty.

Humidifier Bottle	1 Piece
Cannula	1 Piece
Filter	1 Piece
Atomizing Cup	1 Piece
Atomizing Tubing	1 Piece
Atomizing Mask	1 Piece
Atomizing Mouth Piece	1 Piece

### User Controls

#### On/Off Button

Get the device powered on or off by turning on/off switch



#### Oxygen Button

Press once and wait for 1 second to let the device start delivering oxygen; Press again to stop delivery of oxygen.



#### Atomization Button

Press once and wait for 6 seconds to make the device work as a nebulizer.



Oxygen delivery can not be synchronized with atomization. Before pressing the "Atomization" button, oxygen delivery should be stopped.



#### Timer Button

Use this button to set how long you want to do oxygen therapy each time. By default, there is no limitation of time, and it delivers oxygen without any stop unless you set how long you want to do oxygen therapy. With every press of button time increases by 10 minutes. 5 hours is the limitation you can set and then it goes off automatically.

### User Interfaces

#### Display

This screen displays information regarding timing, total time, and alert

or alarm. By default, the words showing the type of alert or alarm are not visible. When there is an error during operation, a color light related to this error will illuminate which will prompt the user for appropriate action to be taken.



#### Indicator Lights

There are 4 lights in all. When the concentrator is powered on, the rightmost green LED light will be illuminous. When the oxygen purity drops below 82%, the second LED light from the left will turn yellow to cause an alarm to sound. When the outlet pressure is low, the first LED light from the left will turn yellow and an alarm will sound. When there is a power outage, the third LED light from the left will turn red and an alarm will sound.



#### Flow Meter

Rotate the knob on top of the flow meter to set the flow as prescribed by your physician or doctor. The black ball inside of the flow meter indicates the flow at which the device delivers oxygen.





## 3 Operating Instructions

### General Instructions


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

Air intake and exhaust must have clear access.

 Avoid use of this device in presence of pollutants, smoke, or fumes. Do not use this device in presence of flammable anesthetics, cleaning agents or other chemical vapors.

 Do not obstruct air intake or exhaust when operating the device. Blockage of air circulation or proximity to a heat source may lead to internal heat buildup and shutdown or damage the concentrator.

#### 2. Ensure both particle filters are in place.

 Do not operate the device without both particle filters in place. Particles drawn into the system may damage the device.

#### 3. Install the humidifier bottle.

The humidifier bottle includes a cup, and onto it, a cap, with two ports, one connected to the concentrator, and the other, the oxygen outlet port.

By default, the cap screwed onto the cup properly is inserted into position when you receive the concentrator. Before operating this concentrator, please extract it from the concentrator, and screw out the cup from the cap, and fill it with distilled or purified water to a level between the lines marked with “MAX” and “MIN”., and screw the cup with filled water back into the cap, and insert the humidifier bottle as a whole into the concentrator.



Make sure the bottle has been screwed tightly before starting the device. Leakage of oxygen may happen if it has not been screwed back tightly.



If it is the first time you want to use the bottle, the bottle and the cap should be put into a liquid mixed with 1 part white vinegar and 3 parts water, and get them submersed for 30 minutes. Clean them again with purified water till there is no residue of that liquid.

#### 4. Connect the Power Supply

Connect the AC power output plug to an electrical outlet.



Ensure the power supply is in a well ventilated location as it relies on air circulation for heat dissipation. The power supply may become hot during operation. Make sure the power supply cools down before handling.



Do not disassemble the power supply. This may lead to component failure and/or safety risk.



Do not place anything in the power supply port other than the supplied wall cord. Avoid the use of electrical extension cords with the concentrator. If an extension cord must be used, please consult your Equipment Provider.

#### 5. Connect the nasal cannula tubing to the oxygen outlet port.

The oxygen outlet port is located on the top of the concentrator. Use of a single cannula going with this concentrator is recommended to avoid restriction of oxygen delivery.



The cannula before used the first time, should be submersed into a liquid mixed with 1 part white vinegar and 3 parts water for 30 minutes, and get them cleaned with water till there is no residue of this liquid.

**6. Power the concentrator on by turning on the switch, and press the “Oxygen” button to start oxygen delivery.**

The rightmost light and the display will be illuminated after the concentrator is powered on.

**7. Set the concentrator to the flow prescribed by your physician.**

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

**8. Position the nasal cannula on your face and breathe through your nose.**

Please place the nasal cannula over your ears, and position the two prongs of the nasal cannula into your nose, and start oxygen therapy.

**9. Turn off the concentrator.**

After each oxygen therapy, please press the “Oxygen” button to stop oxygen delivery and turn off the switch to power the concentrator off. Remove the cannula, and keep it well for next time use.

Notes: This device is designed to have an additional function, atomization. Before using it as a nebulizer, do make sure that oxygen delivery is not in progress. Following the below steps to get your medication atomized.

1. Connect the power outlet plug to the power supply`.

2. Turn on the switch, and get the concentrator powered on.

3. Connect one end of the atomizing tubing to the atomization nozzle, and the other end of it to the bottle of the atomizing cup.

4. Inject medication into the cup, and connect the cup to the adapter.

5. Connect the other end of the adapter to a mouth piece or a mask.

6. Put the mouth piece in your mouth or wear the mask over your face.

7. Press the “Atomization” button. The atomizing process will be started 6 seconds after the button is pressed.

8. When finishing using this function, please press the “Atomization” button and turn off the switch.

9. Remove the tubing, the cup, the mask or the mouth piece, and keep them well for next time use.



## 4 Cleaning, Care and Maintenance

### Cannula Replacement

Your nasal cannula should be replaced on a regular basis. Consult your physician and/or Equipment Provider for replacement information. This cannula is recommended to ensure oxygen delivery.



Use of a cannula other than the one with this concentrator may restrict oxygen delivery.

### Case Cleaning

You may clean the outside case using a cloth dampened with a mild liquid detergent and water.



Disconnect the power cord from electric outlet before you clean the device to prevent accidental electric shock and burn hazard. Only your Equipment Provider or a qualified service technician should remove the covers or service the device.



Do not use cleaning agents other than those specified in this User Manual. Do not use alcohol, isopropyl alcohol, ethylene chloride or petroleum based cleaners on the cases or on the particle filters.

### Filter Replace

Filters should be replaced as per the reminder that will show on the display. But keep a watchful eye on the status of the filters. If your local area is not good, the filters should be replaced earlier than the reminder. For more detailed information, please consult your Equipment Provider.

### Disposal of Equipment and Accessories

Please dispose off the replaceable parts properly as per the Government disposal norms

## 5 Troubleshooting

If your concentrator fails to operate properly, consult your Equipment Provider, and refer to the troubleshooting chart on the following pages for probable causes and solutions.



Do not attempt any maintenance other than the possible solutions listed below.

Problem	Probable Cause	Solution
Limited oxygen flow at a setting of high flow	Due to leakage from the humidifier bottle	Make sure the air flow is smooth
	Leakage, twisting, or chocking of to the cannula	
overheat	Indoor temperature is too high	Make sure unit is located in a well ventilated space and exhaust vent has not been blocked
	Exhaust vent is blocked	
Fogs appear in the cannula	Water in the humidifier bottle is hot	Fill cold water
	Too much water in the bottle	Make sure water level is between MAX and Min
	Unit is located in a poorly ventilated space, causing a high temperature	Move unit to a well ventilated space
	Unit crashes suddenly when in operation	Stop and start again to eliminate fog
	Folding of tube will cause a unit to crash	Straighten the cannula
	Fan is disabled or runs slowly, causing a high temperature	Consult your Equipment Provider to replace fan, or remove any hindrance next to the fan

Problem	Probable Cause	Solution
Display shows information, but compressor and fan do not operate	Frequent starting and shutting down unit cause a crash	Restart unit after 10 minutes
	Main circuit board malfunctions	Consult your Equipment Provider to replace main circuit board
Continuous beep, sounds and unit does not operate	The output plug is not connected properly	Plug power cord tightly
	The electrical outlet gives no power	Reconnect the output plug to another electrical outlet that works
	The power resetting switch breaks	Press resetting switch
	Main control circuit malfunctions	Consult your Equipment Provider to replace main circuit board
After starting the unit operates, but displays show nothing but messy codes	Display board is not connected to power due to falloff of wires inside	Consult your Equipment Provider to do troubleshooting
	Wires of display board are damaged	
	Display board malfunctions	
Control buttons do not work	No response after buttons are pressed	
Replace the Filter	<ol style="list-style-type: none"> <li>1. The filter box gets dirty after use</li> <li>2. The filter box didnt get dirty , but machine had run 1500hours</li> <li>3. Error program</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace the Filter Box, Then press "timer" button 3 times within 5 seconds</li> <li>2. Press "timer" button 3 times within 5 seconds</li> <li>3. Press "timer" button 3 times within 5 seconds</li> </ol>

## 6 Product Specifications

Flow Specifications	1 LPM-5 LPM
Oxygen Concentration	93% (+3%, -3%)
Electrical Requirements	Please see back panel label
Power Consumption	330 Watts
Sound	50 dBa
Dimensions	13.4 in. W × 11.8 in. D × 25.6 in. H (34 cm W × 30 cm D × 65 cm H)
Weight	41.9 lbs (19 kg)
Environmental Limit Conditions	Operating Conditions: 5 °C to 55 °C Storage: -20 °C to 60 °C Relative Humidity: up to 80% RH

Operating out of these operational specifications can limit the concentrator's ability to meet oxygen concentration specification at higher liter flow rates.

## TERMS AND CONDITIONS

1. Any defective part or assembly will be repaired or replaced at the sole discretion and determination of distributor, if the unit has been properly operated and used during the warranty period.
2. Repairs or replacements of parts under warranty will be carried out by the company or by our approved service dealers Only.
3. Normal maintenance items and disposable components like Canula, Humidity Bottle, Filters or Mask accessories etc. are not covered by this warranty. All expenses incurred in Shipping or collecting the unit or its parts, to and from the company/approved service dealer shall be paid by the purchaser.
4. This warranty does not apply to damages caused by customer usage of the product, or if the instrument is tampered with, modified, or if and attempt is made to repair partially/fully by any unauthorized person/party.
5. This warranty will be null and void if the serial number on this product has been altered or removed/or if the purchaser fails to present the filled warranty card/Manual with which the item was purchased initially.
6. This warranty is null and void if the filters are not replaced on time and the machine is used with dirty choked filters/or water damage to the electronics of machine due to any type of negligence.
7. The customer is responsible for the supply of adequate stabilizer/UPS and input power for the machine. Any damages caused due to improper power supply voids the warranty.
8. Machine should be run in clean environment where the dust is minimal. Machine should be used without the Thermocol or Plastic covering around it so that to allow the air to circulate. Humidity bottle water should be changed daily for prolonged life of the unit.
9. The warranty extended is in lieu of all implied conditions and warranties under the law and is confined to repairs OR replacement of the defective parts only, and does not cover any consequential or resulting in any liability damages or less. Furthermore, this warranty in no case shall extend to payment of any monetary consideration or replacement or return of the product as a whole.

Post  
Stamp

Cut along the line





**Customer copy**  
WARRANTY CARD

Product Code :  Bill Number : \_\_\_\_\_  
Serial Number :  Date of Purchase : \_\_\_\_\_

**Dealer Stamp:**

**Marketed and Manufactured by:**



**Company Copy**  
WARRANTY CARD

Customer Name: \_\_\_\_\_  
Product Code:  Bill Number: \_\_\_\_\_  
Serial Number:  Date of Purchase: \_\_\_\_\_

**Dealer Stamp:**

Telephone: \_\_\_\_\_  
E-mail: \_\_\_\_\_

Cut along the line

