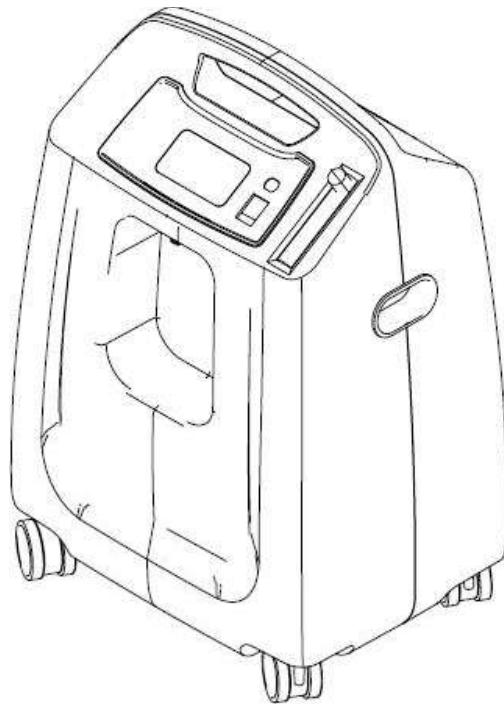




OXYGEN CONCENTRATOR



Instruction Guide

WARNING- Read instruction guide before operating this equipment.



DANGER---NO SMOKING

Kunshan Dynmed Medical Technology Co., Ltd

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INDICATIONS FOR USE — The Oxygen Concentrator is designed to provide low-flow and medical-level oxygen for clinic, patient care facilities and etc.

 WARNING

Under certain circumstances, oxygen therapy can be hazardous.
Seeking medical advice before using an oxygen concentrator is advisable.

Physician Information

Physician Name:	
Telephone:	
Address:	

Prescription Information

Name:	
Oxygen liters per minute	
At rest:	
During activity:	
Others:	

Oxygen use per day

	Hour		Minute
Comments			

Serial Number			
Check one	<input type="checkbox"/> 5 Liter	<input type="checkbox"/> 8 Liter	<input type="checkbox"/> Other

Medical Provider Information

Set-Up Person			
This instruction guide was reviewed by me and I have been instructed on the safe use and care of the Oxygen Concentrator.			
Signature		Date	

IMPORTANT SAFEGUARDS

 Read this entire guide before using your concentrator. Important information is highlighted by these terms throughout this guide:

DANGER: Urgent safety information for hazards that will cause serious injury or death.

WARNING: Important safety information for hazards that might cause serious injury.

CAUTION: Information for preventing damage to the product.

NOTE Information to which you should pay special attention.

Important safeguards are indicated throughout this guide; pay special attention to all safety Information.

 **DANGER-NO SMOKING**
SAVE THESE INSTRUCTIONS.

INTRODUCTION

This instruction guide will acquaint you with the oxygen concentrator. Make sure that you read and understand this guide before operating your unit. Important safeguards are indicated throughout this guide; pay special attention to all safety information. Contact your Medical provider if you have any questions.

WARNING

For your safety, the oxygen concentrator must be used according to the prescription determined by your physician.

DANGER

Oxygen causes rapid burning. Do not smoke while your oxygen concentrator is operating, or when you are near a person utilizing oxygen therapy. Do not use within 5 feet (1.6m) of hot, sparking objects or naked sources of flame.

WHY YOUR PHYSICIAN PRESCRIBED SUPPLEMENTAL OXYGEN

Today, many people suffer from heart, lung, and other respiratory diseases. Most of these people can be benefited from supplemental oxygen therapy. Your body requires a steady supply of oxygen to function properly. Your physician prescribed supplemental oxygen for you because you are not getting enough oxygen from room air alone. Supplemental oxygen will increase the amount of oxygen that your body receives.

Supplemental oxygen is not addictive. Your physician prescribed a specific oxygen flow to improve symptoms such as headaches, drowsiness, confusion, fatigue, or increased irritability. If these symptoms persist after you begin your supplemental oxygen program, consult your physician.

HOW YOUR OXYGEN CONCENTRATOR WORKS

Oxygen concentrators are the most reliable, efficient, and convenient source of supplemental oxygen available today, the oxygen concentrator is electrically operated. The unit separates oxygen from room air which allows high-purity supplemental oxygen to be delivered to you through the oxygen outlet, although the concentrator filters the oxygen in a room, it will not affect the normal amount of oxygen in your room.

IMPORTANT PARTS OF YOUR CONCENTRATOR

Please take time to familiarize yourself with your oxygen concentrator before operating.

Checklist for Unpacking-Before using this product, makes sure you have the following items:

- 1 User manual.
- 1 Oxygen concentrator set.
- 1 Humidifier bottle with an adapter.
- 2 Nasal cannula
- 1 Oxygen tubing
- 1 Coarser filter

Front View (Figure 1)

1. Flow meter
2. Flow meter knob
3. Power Switch:
I =ON
O=OFF
4. Circuit breaker – (selected units) reset the unit after electrical overload shutdown.
5. Operating panel
6. Red Service Required light—when illuminated contact your Medical provider.
7. Low Oxygen (red) light- (the LED display low oxygen)
8. Normal Oxygen (green) light- (the LED display normal oxygen)
9. Green Power light—illuminate when your concentrator is operating
10. Monitor-indicate the condition of system pressure status; oxygen purity status and indicate electric hour meter
11. Oxygen outlet—oxygen is dispersed through this port.
12. Humidifier bottle

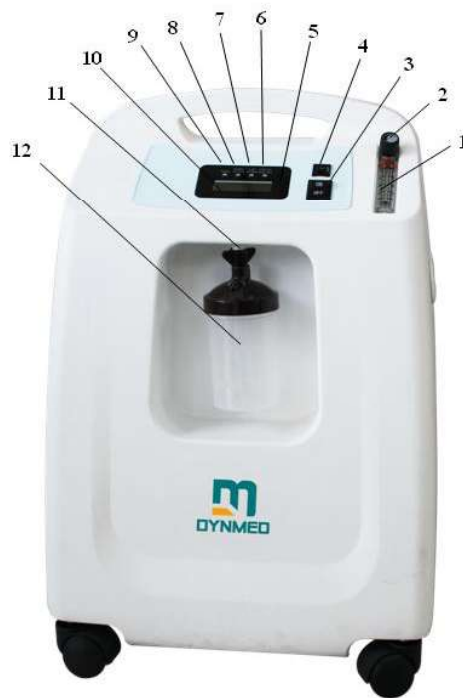


Figure 1

Back View (Figure 2)

- 13. Rear filter lid
- 14. Air filter—prevents dirt, dust, and lint from entering your unit
- 15. Tie for power cord when storing the machine
- 16. Power line and /or IEC power connector.
- 17. Exhaust



Figure 2

SETTING UP YOUR OXYGEN CONCENTRATOR

1. Place your unit near an electrical outlet in the room where you spend most of your time.



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

NOTE— Do not connect to an electrical outlet controlled by a wall switch. NO other appliances should be plugged into the wall outlet

2. Place your unit at least 19.7 inches (50 cm) away from walls, draperies, or any other objects that might prevent the proper flow of air in and out of your oxygen concentrator. The Oxygen concentrator should be located so as to avoid pollutants or fumes.
3. The alarm settings prior to power loss shall be restored automatically when power is lost for less than or equal to 30 s.

BEFORE OPERATING YOUR OXYGEN CONCENTRATOR

1. Before operating your unit always checks:
 - a. Cut the two cables off which are at bottom of the machine.
 - b. Make sure air filters (located on the back of your unit) is clean. Proper cleaning of this filter is discussed in the Caring for Your Concentrator section on page 9.
 - c. Attach the appropriate oxygen accessories to the oxygen outlet.

Oxygen Tubing Connection with Humidification:

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

- a. Fill the humidifier bottle with distilled water. Do not overfill.
- b. Thread the wing nut located on the top of the humidifier bottle to the oxygen outlet so that it is suspended (Figure 3). Make sure it is securely tightened.
- c. Attach the oxygen tubing directly to the humidifier bottle outlet fitting. (Figure 4)

Your physician has prescribed either a nasal cannula, catheter, or face mask, in most cases, they are already attached to the oxygen tubing. If not, follow the manufacturer's instructions for attachment.



Figure 3



Figure 4

1. Remove the power cord completely from the line cord strap, make sure the power switch is in the "Off" position, and insert the plug into the wall outlet; the unit is double insulated to guard against electric shock.

 WARNING

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

OPERATING YOUR CONCENTRATOR

 DANGER

Oxygen causes rapid burning. Do not smoke while your oxygen concentrator is operating, or when you are near a person utilizing oxygen therapy. Keep the oxygen concentrator at Least 5 feet (1.6 m) away from hot, sparking objects or naked sources of flame.

It will take approx. 30 mins before oxygen concentrator can be relied on to delivery in set flow mater and concentration.

Do not lubricate fittings, connections, tubing or other accessories of the oxygen concentrator to avoid the risk of fire and burns

Use this device at an altitude below 1800m and in environmental temperature of 5-40°C or a relative humidity between 10% and 80%. Otherwise, the flow mater and the percentage of oxygen will be adversely affected and consequently, the quality of the therapy will decrease.

Oxygen makes it easier for fire to start and spread. Do not leave the nasal cannula or mask on bed covering 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.

If you feel uncomfortable or are experiencing a medical emergency while undergoing oxygen therapy, seek medical assistance immediately to avoid harm.

Geriatric, pediatric or any other patient unable to convey the discomfort feeling to others can require additional monitoring and or a distributed alarm system to convey the information about the discomfort and or the medical urgency to the responsible care giver to avoid harm.

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 carry accessories are located. If you are intended to smoke, you must always turn the oxygen concentrator off, remove the cannula and leave the room where either the cannula or mask or the oxygen concentrator is located. If unable to leave the room, you must wait 10 mins after you have turned the oxygen concentrator off before smoking

Open flams during oxygen therapy are dangerous and is likely to result in fire or death. Do not allow open flams within 2 m of the oxygen concentrator or any oxygen carrying accessories.

The proper placement and positioning of the prongs of the nasal cannula in the nose is critical to the amount of oxygen delivered to the respiratory system of the patient.

When oxygen concentrator working, set the outlet oxygen flow in a proper range (DO2-5A, DO2-5AM, DO2-5AH in 1-5 L/min)

Incompatible humidifier may affect the outlet oxygen purity. Please adopt the qualified and compatible humidifier to ensure the performance.

Press the power switch to the “ON” position, when the unit is turned on, the Power light will illuminate, and the patient alert system –Service Required light and audible signal — will briefly alarm.

Connect the nasal cannula to the gas outlet connector of the oxygen concentrator if used, to the bubble humidifier outlet connector per the manufacturer’s instructions. With the oxygen concentrator turned on adjust the flow meter to the desired flow mater. Gas should be flowing freely to the nasal cannula. You should be able to hear or feel the flow of gas to the prongs of the nasal cannula. Wave your hand in front of the prongs. If you do not feel the gas flowing, check the cannula connections for leaks.

NOTE—If the Service Required light illuminates and the audible signal alarms but the unit is not operating, there is no power to the unit, refer to the Minor Troubleshooting chart not page 11 and contact your provider if necessary.

NOTE—If an audible low-frequency vibration sound is detected, the unit is not operating properly. Refer to the Minor Troubleshooting chart on page 11, and contact your provider if necessary.

1. Check the flow meter to make sure that the flow meter ball is centered on the line next to the prescribed number of your flow rate.

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

NOTE—Your provider may have preset the flow meter so that it cannot be adjusted.

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.

NOTE—Move the oxygen concentrator, first pull out the power cord, and then turn on the universal wheel brake, grasp the direction, slowly push the machine to the designated place, and then adjust the universal wheel brake, plug in the power line.

PRIORITY OF ALARM CONDITION



Malfunction	Priority	Alarm Light
Oxygen purity below 82%	High Priority	Red Light Flash
Pressure below 40 kPa	High Priority	Red Light Flash

Acoustic pressure range of a medical oxygen concentrator under normal working conditions is $\leq 60\text{dB(A)}$ and the acoustic power range is $\leq 73\text{dB(A)}$. Acoustic pressure range of the audible alarm signal of the medical oxygen concentrator is $\geq 65\text{dB(A)}$

MEANS TO ACTIVATE AND INACTIVATE THE AUDIBLE AND VISUAL ALARM SYSTEM

1. Low oxygen purity alarm below 82%:
Plug in power, switch on the device, set in max flow mater. Red light will flash with high priority if the oxygen purity remains below 82% after 2 mins running. Set in standard flow mater, if oxygen purity maintains above 82%, high-priority alarm will be inactivated and red light will be off.

-
2. Pressure below 40 kPa:
Pull the plug, open the cabinet, remove the compressor plug from motherboard. Plug in power and then switch on the device. Red light will flash with high priority.
 3. Means to validate the visual and audible alarm system:
User can perceive the visual signal of red light flashing and audible signal from 1 m away from the device
 4. Means to validate the power off alarm system:
Cut off the power supply and switch on the oxygen concentrator, red alarm light will flash with high priority.
 5. It's recommended to deliver the device to local qualified distributors to validate the alarm system.
 6. Alarm system can be shut down. When alarm system activated, press +- button on the panel to

inactivate the audible alarm system and symbol  will be displayed on screen. Press -++ button to reactivate the audible alarm system and symbol  will disappear on screen.

RESERVE OXYGEN SYSTEM

As a precaution, your Medical provider may supply you with a reserve oxygen system. If your unit loses electrical power or fails to operate correctly, the patient Alarm System will sound and signal to you to switch to your reserve oxygen system (if provided) and contact your Medical provider.

CLEANING FOR OXYGEN CONCENTRATOR

Not—Use no lubricants, oils or grease.

WARNING

Before attempting any cleaning procedures, turn the unit “off.”

Oxygen Humidifier (reusable bottles)

If your physician has prescribed humidification, clean your humidifier bottle daily. Follow the instructions supplied by the manufacturer, if no cleaning instructions were supplied, follow these steps

1. Wash the humidifier in a solution of hot water and dishwashing detergent.
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 warm tap water and refill with distilled water for use. Do not overfill.

Cannula, Mask and Tubing

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

3

Air Filter

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

1. Remove the air filter located on the back of the unit.
2. Wash in a solution of warm water and dishwashing detergent.
3. Rinse thoroughly with warm tap 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.

Exterior Cabinet

WARNING

To avoid electric shock, do not remove the concentrator cabinet. The cabinet should only be removed by provider’s qualified Medical 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 house-hold cleaner and wipe it dry.

Accessories

The accessories below are approved for use with Oxygen Concentrators:

Number	Item Name	Remark
C05001	Bubble Humidifier	
R05001	Nasal Cannula	(disposable)

NOTE- The use of certain humidifiers and accessories not specified above may impair the oxygen concentrator's performance.

NOTE- If the Service required light illuminates and the audible signal alarms but the unit is not operating, there is no power to the unit. Refer to the Minor Troubleshooting chart on page 11 and contact your provider.

The Device has a device within your concentrator that monitors the oxygen produced by your unit. When the units are turned "ON," all four light (Power, Normal Oxygen, Low Oxygen, and Service required) on the front panel will illuminate briefly. After a few seconds, only the Power and Normal Oxygen lights will remain flash.

The lights on the front panel are defined as follows:

- . Green Normal Oxygen light-acceptable oxygen level.(The LED will display "Normal Oxygen")
- . Red Low Oxygen light-below an acceptable oxygen level. (The LED will display "Low Oxygen")

If the oxygen purity falls below the acceptable level, the green Normal Oxygen light will shut off and the red Low Oxygen light will illuminate. Switch to your reserve oxygen system. Refer to the Troubleshooting section in this guide on page 11 and contact your provider.

As an added safety feature should the oxygen purity continue to drop, an intermittent audible signal will sound. Contact your provider immediately. Do not attempt any other maintenance.

MINOR TROUBLESHOOTING

Symptom	Possible Cause	Remedy
A. Unit does not operate. Power light is off when the power switch is "ON." Audible alarm is pulsing and Service Required light is flashing.	1. Power cord not properly inserted into wall outlet.	Check power connection at the wall outlet. On 230-volt units, check the back of the unit.
	2. No power at wall outlet.	Check your home circuit breaker and reset if necessary. Use a different wall outlet if the situation occurs again.
	3. Oxygen concentrator circuit breaker activated (selected units).	Press the concentrator circuit breaker button (if equipped) located below the power switch. Use a different wall outlet if the situation occurs again.
B. Unit operates; the Power light is on when the Power switch is "ON". Red Service Required light is illuminated. Audible alarm may be sounding.	1. Air filter is blocked.	Check the air filter. If the filter is dirty, wash it following the cleaning instructions on page 9.
	2. Exhaust is blocked.	Check the exhaust area; make sure there is nothing restricting the unit exhaust.
	3. Blocked or defective cannula, catheter, face mask or oxygen tubing.	Detach cannula, catheter, or face mask. If proper flow is restored, clean or replace if necessary. Disconnect the oxygen tubing at the oxygen outlet. If proper flow is restored, check oxygen tubing for obstructions or kinks. Replace if necessary
	4. Blocked or defective humidifier bottle.	Detach the humidifier from the oxygen outlet. If proper flow is obtained, clean or replace humidifier.
	5. Flow meter set too low.	Set flow meter to prescribed flow rate. If the above remedies do not work, contact your Medical provider
C. Unit operates the power light is on when power switch is "ON", audible low-frequency vibration sound is detected.		Turn your unit "OFF", Switch to your reserve oxygen system, and contact your Medical provider immediately.
D. If any other problems occur with your oxygen concentrator.		Turn your unit "OFF". Switch to your reserve oxygen system, and contact your Medical provider immediately.
E. Both Green Normal Oxygen light and Red Low Oxygen light are on or both off		Contact your provider.
F. Either Green Normal Oxygen light or Red Low Oxygen light is on. Audible alarm may be sounding intermittently.	1. The flow meter is not set	Make sure to set the flow meter to prescribed flow rate
	2. Air filter blocked	Check the air filter. If the filter is dirty, wash it following the cleaning instructions on page 9.
	3. Exhaust system blocked	Check the exhaust area; make sure there is nothing restricting the unit exhaust.
		If the above remedies do not work, contact your provider.
G. Red Service Required light is on and an intermittent audible signal is sounding.	1. Flow meter is not properly yet.	Ensure the flow meter is properly set to the prescribed.
	2. Air filter is blocked.	Check the air filter. If the filter is dirty, wash it following the cleaning instructions on page 9.

	3. Exhaust is blocked.	Check the exhaust area: make sure there is nothing restricting the unit exhaust. If the above remedies do not work, contact your provider.
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General product information:

The device consists of oil-free compressor, sieve bed, magnetic valve, oxygen concentration sensor, motherboard, air flitters, housing, humidified bottle and nasal cannula.

The device is intended for generating medical oxygen.

Product description and essential performance:

Power supply: 230V~,50Hz

Power consumption: <320VA

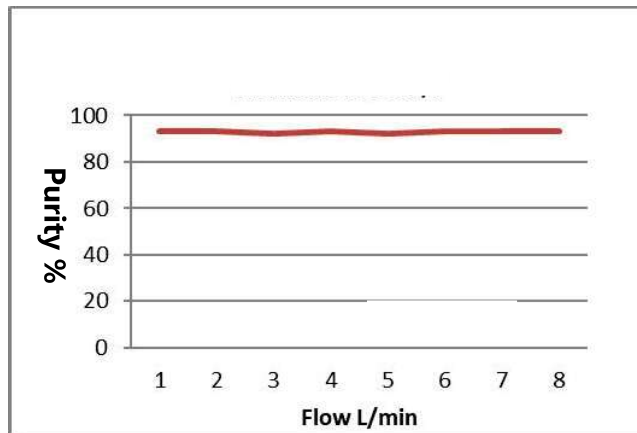
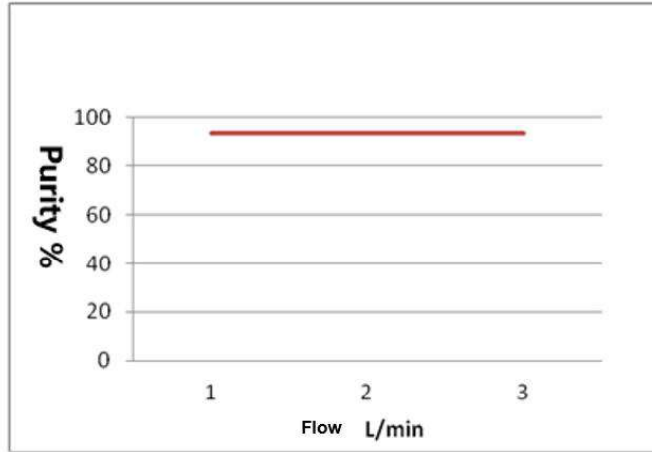
Oxygen purity: DO2-5AM:1-5L/min,93%±3%

When oxygen concentration remains s above 82%green normal function light illuminates.

When oxygen concentration below 82%, red low oxygen light illuminates and low oxygen alarm will be activated.

OXYGEN CONCENTRATOR FLOW AND PURITY CHART

















DO2-5A, DO2-5AH, DO2-5AM



SPECIFICATIONS

No.	Item	Rating
1.	Outlet Pressure	8.5 ±1.5psi (58.6kPa±10.3kPa)
2.	Electrical Rating	DO2-5A, DO2-5AH, DO2-5AM, 230V~, 50 Hz, 1.4A (Max.) 320VA
3.	Oxygen Percentage	93%±3%
4.	Operating Environment Range	Temperature 5°C to 40°C, Humidity ≤80% Atmospheric pressure 12.5 psi ~ 15.4psi (86kPa ~ 106 kPa)
5.	Operating Altitude (tested at 21°C only) 0-2000 M (0-6561 ft.) 2000-4000 M (6561-13123 ft.)	Across the voltage range: No degradation of performance Not recommended/Not tested
6.	The visible" oxygen "indicator will activate at the following level (suitable forDO2-5AM, DO2-8AM)	≥82%the green "normal oxygen" light will activate; <82%the red "low oxygen" light will activate
7.	Pressure Relief Valve	40 psi±5 psi (276 kPa±34.5 kPa)
8.	Weight	DO2-5A/ 5AH/ 5AM --35 lbs. (15.9 Kg)
10.	Dimensions	24.4"H x 16.9" W x 12.6" D (62 x 43 x 32 cm)
11.	Operating System	Time Cycle / Pressure Swing
12.	Storage Conditions	Temperature -20°C to 55°C Humidity ≤90% Atmospheric pressure 12.5 psi ~ 15.4psi (86kPa ~ 106 kPa)
13.	Equipment Class and Type	The type of protect against electric shock: Class II The degree of protect against electric shock: TYPE BF Applied part

SYMBOL

	General warning, caution, risk of danger Please read the instructions carefully before operating the product.
	Type BF applied part Note: BF = Body
	Class II equipment
	Manufacturer's serial number
	Date of manufacture
	Manufacturer
	No turning
	Waste Electrical and Electronic Equipment Directive 2002/96/EC (WEEE Directive) after over the valid term within 3 years, the machine should be treated on local law or regulation requirement. To avoid hurt users and pollute environment.
	FRAGILE Contents of the transport package are fragile there for it shall be handled with care.
	THIS WAY UP Indicates correct upright position of the transport package.
	KEEP AWAYFROM RAIN Transport package shall be kept away from rain.
	Please read the instructions carefully before operating the product.
	No smoking
	No open flames, fire and open ignition source
	Warning against removal of the cover by unauthorized persons
	Maximum oxygen output flow: 5 L/min flower higher than maximum leads to lower oxygen purity

Note: The product lifetime is 5 years only from the manufacture date.



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