Symbol Glossary

≯	IXI			⊳	Ø	,
Type BF applied part	Drip proof equipment	Class II equipment	accompanying documents	Attention, consult	No Smoking	,
0	-	SN	REF		(2)	
OFF (power)	ON (power)	Serial Number	Model number	Mark	CSA/NRTL Compliance	

Classification

The Millennium Oxygen Concentrator is classified as:

- IEC Class II Equipment Type BF Applied Part
- IPX1 Drip Proof
- Not suitable for use in the presence of a flammable anesthetic mixture with air or with oxygen or nitrous oxide.
- Continuous Operation

Specifications		
Specifications		
	120 VAC Device	230 VAC Device
Input Voltage:	120 VAC +10%, -15%	230 VAC +10%, -15%
Input Frequency:	60Hz	50Hz
Average Power Consumption:	450 W	380 W
Oxygen Concentration*:	92 ± 4% @ 5 LPM	92 ± 4% @ 4 LPM
	$94 \pm 2\%$ @ 2 LPM	94 ± 2% @ 2 LPM
Weight	$49.9 \pm 0.5 \text{ lbs}$	$22.9 \pm 0.2 \text{ kg}$
Storage/transport temperature:	-30 to 160°F	-34 to 71°C
Operating temperature:	55 to 90 °F	13 to 32°C
Storage/transport humidity:	up to 95%, noncondensing	ncondensing
Storage/transport		
atmospheric pressure:	790 to 525 mmHg	5 mmHg
Operating humidity:	up to 95%, noncondensing	ncondensing
Operating pressure:	10-27 psig	70-185 kPa
Altitude:	up to 7,500 feet	up to 2300 meters

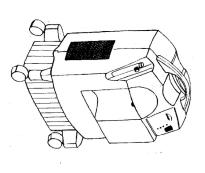
*Device operation above or outside of the Voltage, LPM, Temperature, Humidity and/or Altitude values specified may decrease oxygen concentration levels.

U.S. Patent Nos. 5,060,506; 5,183,483; and 5,916,349. Other Patents Pending.

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577-4615-00, Rev. C



Patient Manual



This oxygen concentrator should be used only under the understand this entire manual before using the device. supervision of a licensed physician. Please read and

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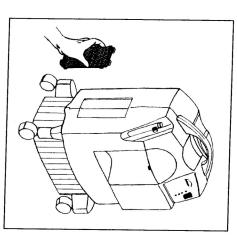


Maintenance

Warning: It is important to unplug the device before any maintenance or cleaning is performed.

Cleaning and Changing the Air Inlet Filter

Cleaning the air inlet filter is the most important maintenance activity that you will perform and should be done at least once a week.



- Remove the filter from the cabinet.
- Rinse and wash the filter in warm water. A mild detergent may be used if rinsed thoroughly.
- Squeeze out the excess water and allow the filter to air dry. The filter should be completely dry before using again. Excess moisture may impair the proper operation of the device.
- Reinsert the filter on the cabinet

Cleaning the Device

You should also clean the exterior case of the device. You may use a damp cloth to wipe down the exterior case. If medical disinfectants are used, be sure to follow the manufacturer's instructions.

Power Interrupt Alarm

If the device is turned on but not operating, the alarm condition will be activated. This is often the result of either the device not being plugged in or a power failure. This feature is powered by an internal 9V battery.

To test the condition of the battery you should simulate this alarm state often by unplugging the device and switching the power on. If the alarm condition is not activated you should contact your home care professional to replace the battery. If the device is shut down because of a power failure, turn the device off for two minutes before restarting it to allow the system to depressurize itself.

Operating Condition Indicators and Alarms



- <u>Power:</u> The GREEN indicator illuminates when the device in turned on.
- Normal Oxygen (Model 605 only): The extra GREEN indicator illuminates when the device is delivering a normally expected percentage of oxygen. The illumination of this indicator is delayed for several minutes after start up to allow the system to stabilize.
- Low Oxygen: The YELLOW indicator illuminates continuously, accompanied

by the intermittent illumination of the RED indicator and the intermittent sounding of the audible alarm, to alert the user when some corrective action is required. Following the troubleshooting guide in this manual, this action can normally be performed by the user. Call your home care professional if the troubleshooting actions fail to end this alert condition.

Alarm: The RED indicator illuminates continuously and the audible alarm sounds continuously if the device detects a system malfunction. If this happens when the device is plugged in, you should turn off the device and call your home care professional immediately.

Electromagnetic Compatibility

The Millennium is designed to meet the current electromagnetic compatibility requirements. However, if you suspect operation of this device interferes with the normal operation of your TV, radio or other electronic appliance try:

- 1. Relocating the appliance or the device until the interference stops or
- Plugging the device into a different power outlet controlled by a separate circuit breaker or fuse.

Important Safety Requirements

Warnings: A warning represents the possibility of harm to the operator or patient

- For proper operation, your concentrator requires unobstructed ventilation.
 The ventilation ports are located at the rear base of the device and at the side
 air inlet filter. Always make sure that these areas are not obstructed by items
 which may impede ventilation (like blankets, foam, curtains, etc.). Do not
 place the concentrator in a small closed space (such as a closet).
- Do not remove the covers of this device. Servicing must be referred to an authorized and trained Respironics dealer.
- In the event of an equipment alarm or if you are experiencing any signs of discomfort consult your home care dealer and/or your physician immediately.
- 4. Oxygen generated by this concentrator is supplemental and should not be considered life supporting or life sustaining. In certain circumstances oxygen therapy can be hazardous; any user should seek medical advice prior to using this device.
- Where the prescribing physician has determined that an interruption in the supply of oxygen, for any reason, may have serious consequences to the user, an alternate source of oxygen should be available for immediate use.
- Oxygen vigorously accelerates combustion and should be kept away from heat or open flame. Not suitable for use in the presence of a flammable

4. Press the power switch to the On [1] position. Initially, all the indicator lights will illuminate and the audible alarm will sound for a few seconds. After that time, only the green indicator should illuminate



- After turning on the device, you should allow at least 10 minutes for the device to reach its specified performance.
- Adjust the flow to the prescribed setting by turning the knob on top of the flow meter until the ball is centered on the line marking the specific flow rate.

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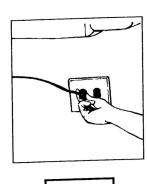
- . Put the cannula or mask on as directed by your home care professional.
- When not using the device, press the power switch to the Off [O] position

Accessory Equipment

There are many different types of humidifiers, oxygen tubing, cannulas and masks that can be used with this device. You should contact your local home care professional for recommendations on which of these devices will be best for you. They should also give you advice on the proper maintenance and cleaning of the accessory equipment.

Operating Instructions

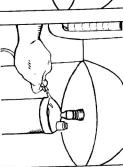
- Select a location for your concentrator that allows the device to draw in room
 air without being restricted. Make sure that the device is at least 3 inches
 away from walls, furniture, and especially curtains that could impede
 adequate airflow to the device. Do not place the device near any heat source.
- After reading this entire manual, plug the power cord into an electrical outlet.



WARNING:
DO NOT USE EXTENSION
CORDS OR ELECTRICAL
ADAPTERS.

Connect the oxygen tubing to the oxygen outlet port. If your physician has
prescribed a humidifier, add water to the recommended level and attach the
bottle to the oxygen outlet port. Then, attach the oxygen tubing to the
humidifier outlet.





- anesthetic mixture with air or with oxygen or nitrous oxide.
- Do not smoke, allow others to smoke or have open flames near the concentrator when it is in use.
- Do not use oil or grease on the concentrator or its components as these substances, when combined with oxygen, can greatly increase the potential for a fire hazard and personal injury.

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Do not use the oxygen concentrator if either the plug or power cord is damaged. Do not use extension cords or electrical adapters.

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- 10. Do not attempt to clean the concentrator while it is plugged into an electrical outlet.
- Device operation above or outside of the Voltage, LPM, Temperature, Humidity and/or Altitude values specified may decrease oxygen concentration levels.
- Your Health Care Provider (HCP) is responsible for performing appropriate
 preventive maintenance at the intervals recommended by the device
 manufacturer.

Cautions: A caution represents the possibility of damage to the equipment.

- Federal law (USA) restricts this device to sale by or on the order of a physician.
- Do not operate the concentrator without all the filters in place. The filters must be totally dry before operating the device.
- 3. Do not place liquids on or near the device.
- 4. If liquid is spilled on the device, turn the power off and unplug from electrical outlet before attempting to clean up spill. Call your home care dealer if device does not continue to work properly.

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Minor Troubleshooting Guide

Problem	Probable Cause	Solution	
The device is not working		Make sure the device is	
alarm condition (red light)	the electrical outlet.	electrical outlet.	
is activated and the power		Check your household	:
indicator (green light) is	No power from the	outlet fuse or circuit	٤
not illuminated.		breaker.	
	Internal part failure.	Contact your home care professional	
Low oxygen (yellow	The air flow to the device is impeded or blocked.	Check the condition of the air inlet filter and clean or	
iigiii) activated.	•	replace as necessary. Remove any items that	
		air flow into the device.	
	The flowmeter knob is completely closed.	Turn flowmeter knob counterclockwise to center ball on prescribed LPM Flow.	
	The oxygen tubing is kinked and blocking the delivery of oxygen.	Check to see that the tubing is not kinked or blocked. Replace if necessary.	
Alarm condition (red light) activated, when the device is on with the power indicator (green light) on.	Internal system failure.	Contact your home care professional immediately.	
Limited oxygen flow to the user.	Faulty oxygen tubing, cannula or face mask. Faulty humidifier bottle.	Inspect and replace the items if necessary. Inspect and replace the item if necessary.	
Alarm is weak or not sounding when the power cord is un-plugged and power switch is on.	The 9V battery is weak.	Contact your home care professional.	

Introduction

Your physician has determined that supplemental oxygen is of benefit to you and has prescribed an oxygen concentrator set at a specific flow setting to meet your particular needs. DO NOT change the flow settings unless your physician tells you to. The Millennium Oxygen concentrator is intended to provide supplemental oxygen to persons requiring low flow oxygen therapy. This device is not intended to be life supporting nor life sustaining. The Millennium produces concentrated oxygen from room air for delivery to a patient requiring low flow oxygen therapy. The oxygen from the air is concentrated using a molecular sieve and a pressure swing adsorption process. Your home care professional will show you how to operate the concentrator and will be available to answer any questions. You should contact them in the future if you have any further questions or problems.

Parts of Your Concentrator

