

OXYGEN CONCENTRATOR



OXYBREATH Mini 5
hikoneb® OxyBreath

OXYBREATH Mini 3
hikoneb® OxyBreath

Instruction Manual

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INDEX

I	Warning and Cautions	3
II	Introduction	4
III	Safety Instruction	5
IV	Information	7
V	Assembly Instructions	8
VI	Operating of Oxygen Concentrator	9
VII	Installation Instruction	9
VIII	Troubleshooting	11
IX	Technical Data	12
X	Electromagnetic Compability	12

I- WARNINGS AND CAUTIONS

Warning and Caution notices used in this manual apply to hazards or unsafe practices that could result in personal injury or property damage.



Read Instruction Manual

Do Not operate this oxygen concentrator without reading and understanding this manual. If you are unable to understand the warnings and instructions, contact your local OxyBreath seller or authorized service before attempting to use this oxygen concentrator.



Caution or Attention

In certain circumstances, oxygen therapy can be hazardous, therefore, it is advisable to seek medical advice before using the oxygen concentrator. Do Not deviate from prescribed flow rates. Adjust the flowmeter only to your prescribed flowrate, unless otherwise instructed by your physician.



Warning: "No Smoking or Naked Flames"

The use of oxygen therapy requires special care be taken to reduce the risk of fire. Material that burns in air and even some material that will not burn in air, are easily ignited and burn rapidly in high concentrations of oxygen. For safety concerns, all possible sources of ignition must be kept away from the oxygen concentrator and preferably out of the room in which it is being used. Smoking in the proximity of an operating oxygen concentrator is dangerous, and can permanently damage the device and void the warranty.



Use No Oil or Grease

may occur if oil, grease or other petroleum substances come into contact with oxygen under pressure. Keep these substances away from the oxygen concentrator, tubing and connections and any other oxygen source. Do Not use any petroleum based or other lubricants unless recommended by Kare Medical Ltd.co.

- Keep oxygen concentrator and cord away from hot surfaces. Do Not use the oxygen concentrator if it has a damaged cord or plug, contact qualified service personnel for examination and repair.
- Air intake of the oxygen concentrator should be located in a wellventilated area.
- Oxygen concentrator should be located so as to avoid pollutants and fumes.

- If oxygen concentrator has been dropped, damaged, or exposed to water, contact qualified service personnel for examination or repair.
- Do Not drop or insert any object into any opening.
- Do Not block the air opening of the oxygen concentrator or place it on a soft surface, such as a bed or couch, where the bottom air opening may become blocked.
- Do Not cover unit with a blanket, towel, quilt, etc.
- Do Not place objects (pillow, blanket) under unit. Maintain at least 2 inch clearance under unit.
- Do Not overfill the humidifier, if used. Fill with water only to the level shown by the manufacturer.

Warning: Do Not remove the cover. Cover should only be removed by qualified service personnel.

II- INTRODUCTION

Your physician has prescribed supplemental oxygen as part of a treatment plan. Long-term oxygen therapy is now widely accepted as the Standard treatment for chronic hypoxia caused by chronic obstructive pulmonary disease. Oxygen therapy has become more versatile in recent years due to the development of oxygen concentrators. The new devices make it easier for physicians to select a mode of oxygen therapy that suits the patient's lifestyle. An oxygen concentrator has been prescribed to provide you with a source for supplemental oxygen. Kare's OxyBreath Oxygen Concentrator is an electronically operated oxygen concentrator that separates oxygen from room air. It does not remove oxygen from a room any more than by simply breathing the same room air. You breathe the added oxygen through nasal cannula . Your physician has prescribed a specific oxygen flow rate setting to meet your individual needs. This flow rate is determined by the amount of oxygen needed.

Recommended oxygen flow rates should be adjusted only under the advice of a physician.

This OXYGEN concentrator is not intended for life supporting or life sustaining applications.

The hikoneb® OxyBreath Oxygen Concentrator is intended to provide supplemental oxygen as part of Long Term Oxygen Therapy for the clinically stable patient. It is not intended for life supporting, or life sustaining applications. As with any electrically powered device, the user may experience periods of non-operation as the result of electrical power interruption, or the need to have the oxygen concentrator serviced by a technician. An oxygen concentrator is not appropriate for any patient who would experience adverse health consequences as the result of such temporary interruption.

In certain circumstances oxygen therapy can be hazardous. It is advisable to seek medical advice before using this oxygen concentrator. This instruction manual will inform you about the use and care of the OxyBreath Oxygen Concentrator and will serve as a reference as you use your oxygen concentrator.

III- IMPORTANT SAFETY

Instructions are shown Under the Following Headings:

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

Warning: Information for preventing damage to the oxygen concentrator.

Do Not: Information to which you should pay special attention.

Important: Clarifying information, specific instructions, commentary, sidelights, or interesting points.

Symbols Used in Instruction Manual and on Oxygen Concentrator

Refer to this section for an explanation of the symbols and the warnings that accompany them.



Read Instructions: This symbol, when used alone or in conjunction with any of the following symbols, indicates the need to consult the operating instructions provided with the product. A potential risk exists if the operating instructions are not followed.



Attention or Caution: Consult accompanying documents. This symbol indicates important information that requires the user to take special precautions when certain conditions are present.



No Smoking! or Naked Flames

The use of oxygen therapy requires special care be taken to reduce the risk of fire. Material that burns in air and even some material that will not burn in air are easily ignited and burn rapidly in high concentrations of oxygen. For safety concerns, all possible sources of ignition must be kept away from the oxygen concentrator and preferably out of the room in which it is being used. Smoking in the proximity of an operating oxygen concentrator is dangerous, and can permanently damage the device and void the warranty.



Use No Oil or Grease

Indicates important information about the possibility of spontaneous and violent ignition that may occur if oil, grease or other petroleum based substances come into contact with oxygen under pressure.



Electrical Shock

Indicates the presence of an electric shock hazard. Caution: To reduce the risk of electric shock, do not remove cover. There are no user serviceable parts inside. Refer servicing to a Kare dealer or authorized service representative.



Audible Alarm

An audible indicator is provided to announce, in a tone distinctly different from the sounds generated by the oxygen concentrator during normal operation, a reduction in oxygen concentration or when the mains power has been interrupted.

I

"ON" (power)

Green power light is on when unit is energized (plugged in).

O

"OFF" (condition)

Switch off the button stops concentrator running.



"Flow Rate Adjustment"

The controlled quantity of oxygen increases as the Flow Rate Adjustment knob is turned counter clockwise or decreases as the Flow Rate Adjustment knob is turned clockwise.



Type BF Equipment

F type applied part complying with the specified requirements of EN 60601-1 to provide a higher degree of protection against electrical shock than provided by type B applied part.



Class II Equipment

Equipment in which protection against electrical shock does not rely on basic insulation only, but in which additional safety precautions are provided.

A

Amperes

IV- OXYGEN CONCENTRATOR INFORMATION

Kare's OxyBreath oxygen concentrators are quiet, reliable and low maintenance sources of oxygen. The OxyBreath is designed and constructed to consistently provide high concentrations of oxygen in a lightweight, compact cabinet that is easy to maneuver.

Using Oxygen Concentrators



Warning: Don't change the flow rate without consulting your physician. **Warning:** Avoid alcohol and sedatives when using oxygen, they can slow your breathing.



DANGER: Never use petroleum-based products. Use waterbased lubricants to moisten lips or nostrils if needed.



No Smoking!! or Naked Flames: The use of oxygen therapy requires special care be taken to reduce the risk of fire. Material that bums in air and even some material that will not bum in air are easily ignited and bum rapidly in high concentrations of oxygen. For safety concerns, all possible sources of ignition must be kept away from the oxygen concentrator and preferably out of the room in which it is being used. Smoking in the proximity of an operating oxygen concentrator is dangerous, and can permanently damage the device and void the warranty.

Recommended Performance Guidelines

Temperature	50" F to 104" F (10" C to 40" C)
Electrical	Use no extension cords or electrical outlets controlled by a switch.
Placement	No closer than 3 inches (7.6 cm) from the wall, draperies and furniture.
Tubing	50 feet maximum (15.2 m) of "Crush-Proof" tubing. Do Not pinch
Environment	Smoke, pollutant, and fume free. Relative Humidity: 30% - 95%
Operating Time	Up to 24 hours per day
Flow Rate	0-5 LPM (For Mini 5), 0-3 LPM (For Mini 3)

Important: For rated performance do not operate the Oxygen Concentrator outside of indicated boundaries.

V- THE PROPER LOCATION

Usage in environments other than those described above may result in the need for increased oxygen concentrator maintenance. Select a location that avoids fumes and pollutants and allows the oxygen concentrator to draw in room air through the intake filter on the top of the cabinet without being restricted. Make sure the oxygen concentrator is at least three to six (3 - 6) inches (7.6 - 15.2 cm) away from walls, furniture and especially curtains or draperies that can impede or block adequate airflow to the oxygen concentrator.

Do Not cover unit with blanket, towel, quilt, etc.

Do Not place objects under unit. Maintain at least $\frac{1}{2}$ inch clearance under unit. Keep the oxygen concentrator at least five (5) feet (1.5 m) away from hot, sparking objects or open sources of flame.

Do Not locate the unit near any heat source or heat register.

Before Operating Your Oxygen Concentrator

There are many different types of oxygen tubing, cannulas or facemasks and humidifiers that can be used with this oxygen concentrator. You should contact your local Kare dealer or authorized service representative for recommendations on which of these oxygen accessories will best fit your needs. They will also be able to give you advice on the proper maintenance and cleaning of these accessories.

Humidifier

If your physician has prescribed a humidifier, follow the manufacturer's instructions for attachment. Add distilled water to the level suggested in the manufacturer's instructions and attach the humidifier to the oxygen outlet port of the oxygen concentrator.

Do Not overfill. Only use a humidifier recommended by your Kare dealer or authorized service representative.

Oxygen Tubing

Next, connect the oxygen tubing to the outlet port of the humidifier. When no humidifier is prescribed, the oxygen tubing can be attached directly to the oxygen outlet port. Connect the other end of the tube to the nasal cannula or facemask, if not already attached.

Important: The tube fitting may be tight - **Do Not** use oil or grease to lubricate. To ensure there is enough pressure to deliver oxygen, the length of the tubing should not exceed 50 feet (15.2m). The internal diameter of the tubing should be no less than $\frac{3}{16}$ -inch (0.48 cm). Tubing not specified for use with this oxygen concentrator may impair the performance.

Cannula or facemask

Your physician will have prescribed a cannula or facemask to deliver oxygen. In most cases they are already attached to the oxygen tubing. If not, follow the instructions included with the cannula or facemask to attach them to the oxygen tubing. Use of cannulas or facemasks not specified for use with this oxygen concentrator may impair the performance. Use accessories recommended by your Kare dealer or authorized service representative.

Alarm System

The oxygen concentrator has an alarm system with a red visual alarm indicator buzzer. The alarm system will activate in the event of an internal fault or power outage.

VI- OPERATING YOUR OXYGEN CONCENTRATOR

Your Kare dealer or authorized service representative will demonstrate how to operate the oxygen concentrator. This manual serves as a supplemental reference to help you operate and maintain the unit. If you have any further questions or problems call your Kare dealer or authorized service representative.

General Precaution

Retain the product's safety and operating instructions for future reference. Follow all operating and usage instructions. Observe all warnings on the product and in the operating instructions. To reduce the risk of fire, bodily injuries, and damage to the oxygen concentrator, observe all safety precautions.



Do Not connect to an extension cord or electrical outlet controlled by a switch. No other appliance should be plugged into the wall outlet. Voltage requirements are marked on the label on back of unit.

Important: Read "Important Safety Guidelines" section of this manual before plugging-in the power cord. Do Not use the unit if the power cord is damaged. **Warning** - Improper use of the power cord and plug may result in a fire or electrical shock hazard .

- Check to see if the power cord is plugged in and there is power to the outlet.
- Check that the oxygen concentrator is not placed near a heat register.

Important: Kare's products operate safely when used according to their marked electrical ratings and product usage instructions. The power cord used with the OxyBreath Oxygen Concentrator must meet the requirements of the country where the product is used.

VII - INSTALLATION INSTRUCTIONS

1. Select a Location:

Locate oxygen concentrator in a well-ventilated space that provides adequate airflow and check if air is being prevented from entering the oxygen concentrator by furniture, draperies or clothing.

2. Inspect Inlet Air Filter: Caution:

Always check to see if the inlet air filter is clean. Air filter cleaning instructions are located in the maintenance section of this manual.

3. ON/OFF Button - Caution:

If the unit has a detachable power cord (220-230V unit only) make sure that it has the proper ratings and is securely inserted into the receptacle on back of the unit. Insert the plug into the electrical wall outlet. Switch On the On/Off button, the green light will illuminate to indicate the concentrator unit is running under normal conditions.

4. Warm-up Period - Caution:

After initially turning on the unit, wait three (3) minutes for the unit to reach its specified performance.



5. Flow Rate Adjustment:

Adjust the flow rate to prescribed setting supplied by your physician. Turn the flow rate knob until the display indicates the proper level. Turning the knob counter clockwise increases the flow, turning the knob clockwise decreases the flow.

Caution: The prescribed flow rate setting should only be adjusted under the advice of a physician.

• **Air Inlet Filter:** Room air is drawn into the oxygen concentrator through the air inlet filter located on the top backside of the cabinet. Cleaning the air inlet filter is the most important activity you will perform to keep your oxygen concentrator performing properly. Check this air filter daily and clean it at least once a week.

1. Remove the filter from the cabinet.
2. Wash the filter in warm water using a mild detergent solution.
3. Rinse the filter thoroughly and squeeze out the excess water.
4. Allow the filter to air dry. Caution: The filter should be free of liquid water and dry to the touch before reinstallation, as excess moisture may impair the proper operation of the oxygen concentrator.
5. Reinsert the filter in the cabinet.



Warning: The air inlet filter should be replaced as needed. If the oxygen concentrator is used in a dusty environment, the filter may need to be replaced more often. Do Not operate the oxygen concentrator for more than 30 minutes without a filter installed.

• **Cannula or Mask**

1. Follow the instructions supplied by the manufacturer. If no instructions are available - wipe with a damp cloth every eight- (8) hours.
2. Wash nasal prongs with liquid soap one (1) to two (2) times a week and rinse well.

• **Humidifier**

1. If not indicated for single use only, follow the instructions supplied by the manufacturer.

Your home care provider will carry out all internal maintenance. Your home care provider will perform maintenance inspections of the compressor, alarms, and other internal parts as needed.

VIII - TROUBLE SHOOTING GUIDE

Symptom	Probable Cause	Remedy
Audible Alarm Concentrator not running Circuit Breaker tripped Green power light out	Power outage or tripped circuit breaker. Power cord not plugged in.	Check power cord. Check power cord.
Audible Alarm	Power cord not plugged in.	Plug in power cord.
Concentrator not running Circuit Breaker tripped	No power at wall outlet.	Check fuse and reset or replace as needed.
Green power light out	Unit overheating.	Remove any obstructions from air openings and refer to page 6 "The Proper Location". Allow unit to cool off before restarting.
No oxygen flow Concentrator running No alarm indications	Humidifier or tubing blocked or kinked. Control valve is closed.	Clean or replace humidifier or tubing. Turn valve counter clockwise to increase flow.
Low oxygen flow Flow adjusting valve full open	Restriction in humidifier or tubing. Filter restricted.	Repair or replace as required. Clean filter.

IX - TECHNICAL DATA

Oxyberath Mini 5

Flow Rate	1-5 LPM
Oxygen Conc.	90± %3
Oxygen Output Pressure	0.07-0.09 MPa
Power	220-230 V ~,50Hz, 1.2 A
Working Temperature	50° F - 104° F (10°- 40° C°)
Alarms	Electric cut off high temperature high, low pressure
Filters	Bacterial, HEPA, Air inlet
Classifications	IEC Class, BF

Oxybreath Mini 3

Flow Rate	1-3 LPM
Oxygen Conc.	90± %3
Oxygen Output Pressure	0.07-0.09 MPa
Power	220-230 V ~,50Hz, 0.75 A
Working Temperature	50° F - 104° F (10°- 40° C°)
Alarms	Electric cut off high temperature high, low pressure
Filters	Bacterial, HEPA, Air inlet
Classifications	IEC Class, BF

X - ELECTROMAGNETIC COMPATIBILITY

This equipment has been tested and found to comply with the limits for medical devices to the EN6060 1-1-2: 2008 Electromagnetic Compatibility standard. These limits are designed to provide reasonable protection against harmful interference in a typical medical installation. This equipment generates uses and can radiate radio frequency energy and, if not installed according to the instructions, may cause harmful interference to other devices in the vicinity. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to other devices, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate the receiving device.
- Increase the separation between the equipment.
- Connect the equipment into an outlet on a circuit different from that which the other device(s) are connected.

- Consult the manufacturer or service technician for help.

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