



AIRSEP VisionAire 5 LPM Oxygen Concentrator With O2 Monitor User Manual

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AIRSEP VisionAire 5 LPM Oxygen Concentrator With O2 Monitor



Introduction

This Patient Manual will acquaint you with AirSep's VisionAire V Oxygen Concentrator. Make sure you read and understand all of the information contained in this guide before operating your concentrator. Should you have any questions, your Equipment Provider will be happy to answer them for you.

Symbols/Abbreviations

Symbols are frequently used on equipment in preference to words with the intention of lessening any possibility of misunderstanding caused by language differences. Symbols can also permit easier comprehension of a concept within a restricted space. The following table is a list of symbols and definitions that may be used with the VisionAire V Oxygen Concentrator.

Method of disposing of waste: All waste from VisionAire V Oxygen Concentrator must be disposed of using the appropriate methods.

Method for disposing of the device: In order to preserve the environment, the concentrator must be disposed of using the appropriate methods.

Important Safety Rules

WARNING

- In the event of an alarm, you observe your VisionAire V is not working properly, or if you feel discomfort, consult your Equipment Provider and or your physician immediately.
- This unit is not a life-support device. 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.

- This device manufactures high concentration oxygen, which promotes rapid burning. Do not allow smoking or open flames within 5 feet (1.5 meters) of: (1) this device or (2) any oxygen-carrying accessory. Use no oil, grease, or petroleum-based products on or near your VisionAire V.
- Disconnect the power cord from the electrical outlet before you clean or service the unit.
- Electrical shock hazard. Do not remove covers while the unit is plugged in. Only your Equipment Provider or a qualified service technician should remove the covers or service the unit.
- Do not leave a nasal cannula under bed coverings or chair cushions. If the unit is turned on but not in use, the oxygen will make the material flammable. Set the I/O power switch to the 0 (off) position when the VisionAire V unit is not in use.
- Do not use extension cords with this unit or connect too many plugs into the same electrical outlet.
- Use only voltage specified on back panel label.
- Do not use your oxygen concentrator in the presence of flammable gases

Why Your Physician Prescribed Oxygen

Many people today suffer from a variety of heart, lung, and other respiratory diseases. A significant number of these patients can benefit from supplemental oxygen therapy for respiratory care at home, in the hospital, or at a medical facility. Oxygen is a gas that makes up 21% of the room air we breathe. Our bodies depend on a steady supply to function properly. Your physician has prescribed supplemental oxygen therapy because your body is not able to get enough oxygen from room air. Oxygen is a non-addictive drug, and your physician prescribed a flow sufficient to improve your condition. Please keep in mind that unauthorized oxygen therapy can be dangerous. You must seek medical advice before you use this unit. The Equipment Provider who supplies your oxygen equipment will demonstrate how to set the prescribed flow rate.

What is an Oxygen Concentrator?

Oxygen concentrators were introduced in the mid-1970s and have become the most convenient, reliable source of supplemental oxygen available today. Without an oxygen concentrator, the average patient would require a delivery of 12 bottles/cylinders of oxygen each month. Your oxygen concentrator produces all the oxygen you need, with no deliveries required. The air we breathe contains approximately 21% oxygen, 78% nitrogen, and 1% other gases. In the VisionAire V unit, room air passes through a regenerative adsorbent material called molecular sieve. This material separates the oxygen from the nitrogen and other gases. The result is a constant supply of high concentration supplemental oxygen that is delivered to the patient. Note: There is never a danger of depleting the oxygen in a room when you use your VisionAire V unit.

CAUTION

- AirSep recommends an alternate source of supplemental oxygen in the event of a power outage, alarm condition, or mechanical failure. Consult your physician or Equipment Provider for the type of reserve system required.
- Federal (USA) law restricts this device to sale or rental by or on the order of a physician or licensed health care provider.
- It is very important to select only the prescribed level of oxygen. Change the flow selection only under the guidance of your physician.

Concentrator Components

Review the figures below and become familiar with the important parts of your VisionAire V Oxygen Concentrator.

Front of Concentrator



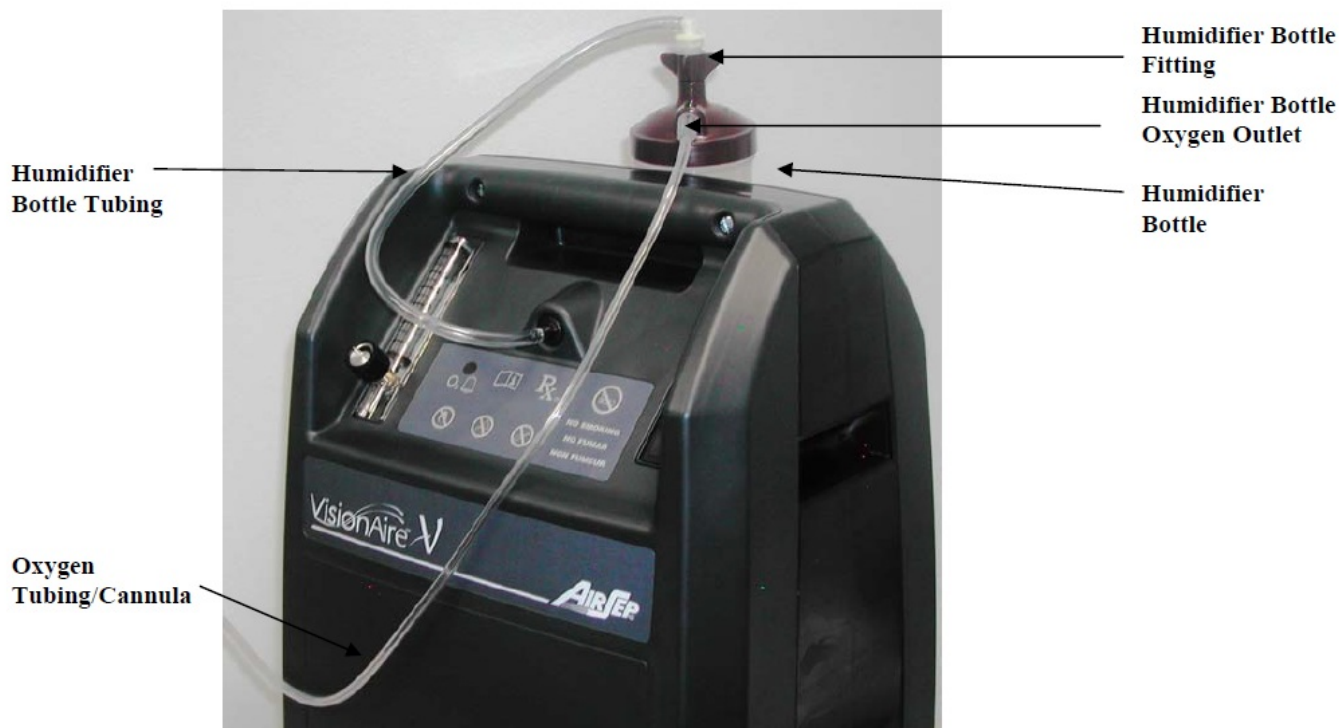
- **Top and Side Handles:**
 - Enables convenience in carrying the unit.
- **On/Off (I/O) Power Switch:**
 - Starts and stops the operation of the unit.
- **Oxygen Outlet**
 - Provides connection for a humidifier (if required) or cannula.
- **Circuit Breaker Reset Button:**
 - Resets the unit after electrical overload shutdown.
- **Flowmeter Adjustment Knob:**
 - Controls the oxygen flow rate in liters per minute (LPM).
- **Low Oxygen Concentration Indicator (optional):**
 - Illuminates (amber) if the unit is equipped with optional Oxygen Monitor and detects low oxygen concentration.
- **Hour Meter:**
 - Records the concentrator's hours of operation.
- **Instruction Label:**
 - Directs usage of the unit.
- **Casters:**
 - Four casters enable unit to be easily moved, as needed.

Back of Concentrator



- **Power Cord:**
 - Allows connection of the unit to an electrical outlet.
- **Humidifier Bottle Recess Area:**
 - Area to place the optional humidifier bottle.
- **Specification Label:**
 - Displays electrical specifications and serial number.

Humidifier Bottle (optional)



- **Humidifier Bottle (optional):**
 - Humidifies the oxygen before it reaches the patient.
- **Humidifier Bottle Oxygen Outlet:**
 - Connection for oxygen tubing/cannula.

Accessories

Accessories recommended for use with the VisionAire V Oxygen Concentrator include:

- **Humidifier Bottle**
 - irSep part number – HU003-1
- **Cannula, 25 feet (7.6 m)**
 - AirSep part number – CU002-4
- **Humidifier BottleTubing**
 - AirSep part number – TU255-1
- **Oxygen Tubing, 25 feet (7.6 m)**
 - AirSep part number – CU004-3
- **Tubing/Cannula Connector**
 - AirSep part number – CU009-1

How To Operate Your Oxygen Concentrator

Review the following information before you operate your oxygen concentrator.

Humidifier Bottle

(Optional) If additional humidification is required with your oxygen therapy, perform the following steps each time you fill or clean the humidifier, which may have been initially set up for your use.

1. Remove the humidifier bottle from the humidifier bottle recess area.

2. Open the humidifier bottle. If you have a pre-filled bottle, do not perform this step. Proceed to step 5.
3. Fill the humidifier bottle with cool or cold water (distilled water is preferred) to the fill line indicated on the bottle.
DO NOT OVERFILL.
4. Re-connect the top cover to the humidifier bottle.
5. Place the humidifier bottle in the humidifier bottle recess area on the back of the concentrator and connect the humidifier bottle tubing to the oxygen outlet and the humidifier bottle fitting.

If the humidifier bottle tubing is not properly connected to the humidifier bottle fitting or to the oxygen outlet, an oxygen leak can occur.

Cannula Connection

Connect the tubing and cannula to the unit's oxygen outlet, or to the optional humidifier's oxygen outlet.

Starting the Concentrator

Do not use extension cords with this unit. Position the unit away from curtains or drapes, hot air registers or heaters. Be certain to place the unit 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 unit in a confined area. Choose a dust and smoke free-location away from direct sunlight.

1. Locate the unit near the electrical outlet in the room where you spend most of your time.
2. Insert the power cord plug into the electrical outlet.
3. Set the I/O power switch to the "I" position to turn the unit on. An audible alarm will sound for approximately 5 seconds.
4. The low oxygen concentration indicator remains on for a few minutes and until the oxygen concentration reaches minimum concentration requirements,(only pertains to unit equipped with an Oxygen Monitor)
5. To set the flow of supplemental oxygen, turn the flowmeter adjustment knob left or right until the ball inside the flowmeter centers on the flow line number prescribed by your physician. To view the flowmeter at the proper angle, note that the back line and the front number line must give appearance of one line.
6. The concentrator is now ready for use.

Normally, you should not need to adjust the flowmeter on your unit. If you turn the flowmeter adjustment knob clockwise, you will decrease and can shut off the flow of oxygen from your unit.

Turning the Concentrator Off

Set the I/O power switch to the "0" position to turn off the unit.

Care and Cleaning

Do not use liquid directly on the VisionAire V unit to clean it. A list of undesirable chemical agents includes but is not limited to, the following, according to the plastics manufacturer: alcohol and alcohol-based products, concentrated chlorine-based products (ethylene chloride), and oil-based products (Pine-Sol®, Lestoil®). These are NOT to be used to clean the plastic housing on VisionAire V, as they can damage the unit's plastic.

Humidifier Bottle (optional)

- Check water level daily and add water as needed
- To clean and disinfect the humidifier, follow your Equipment Provider's instructions, or the instructions included with the humidifier bottle.

Outside Cabinet

Use a mild household cleaner applied with a damp cloth or sponge to clean the exterior of the concentrator, and then wipe all surfaces dry.

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.

Problem	Probable Cause	Solution
Unit does not operate. Power failure condition causes an alarm to sound.	The power cord is not connected to the electrical outlet.	Check power cord at the electrical outlet for a proper connection.
	No power at the electrical outlet.	Check power source, wall switch, in-house fuse or circuit breaker.
	Circuit breaker on concentrator unit is activated.	Press (do not hold in) the circuit breaker reset button in the front of the unit.
		If the circuit breaker trips again or the alarm continues to sound after the unit is turned on, contact your Equipment Provider.
Limited or no oxygen flow.	Dirty or obstructed humidifier bottle, or leak present.	Remove the humidifier bottle, and if flow is restored, clean or replace the humidifier bottle.
	Defective nasal cannula, or other oxygen accessories, i.e. oxygen tubing.	Remove and check accessories for kinks or obstructions. Replace if needed.
	Cannula tubing loose.	Check cannula tubing connection at control panel.
	Other leak or restriction.	Contact your Equipment Provider

Problem	Probable Cause	Solution
Condensation collects in the oxygen tubing when you use a humidifier bottle	Unit not properly ventilated. Elevated operating temperatures.	Make sure unit is positioned a way from curtains or drapes, hot air registers or heaters. Be certain to place the unit so all sides are at least 1 foot (30 cm) away from a wall or other obstruction. Do not place the unit in a confined area. Allow oxygen tubing to dry out, or replace with new tubing. Refill humidifier bottle with COLD water. DO NOT OVERFILL.
Intermittent alarm sounds at one-second intervals.	Equipment malfunction.	Set I/O power switch to 0 position, use your reserve oxygen supply (if provided), and consult your Equipment Provider immediately.
All other problems.		Set I/O power switch to the 0 position, use your reserve oxygen supply (if provided), and consult your Equipment Provider immediately.

Product Specifications

VisionAire V Oxygen Concentrator		
Oxygen Concentration	Flow Rate	O2 Concentration
	1 – 5 lpm	90% + 5.5% / – 3%
	Based on an atmospheric pressure of 14.7 psia (101 kPa) at 70°F (21°C)	
Electrical Requirements	115 VAC / 60 Hz	
Power Consumption	350 Watts	
Dimensions	14.1 in. W x 11.5 in. D x 20.8 in. H (35.8 cm W x 29.2 cm D x 52.8 cm H)	
Weight	30 lbs (13.6 kg)	
Electrical Shock Protection	Class II, Type B	
Operating Temperature Range	41 to 105 °F (5 to 40 °C)	
Storage Temperature Range	-4 to 140 °F (-20 to 60 °C)	

Conformity with EN 60-601 (§§ 6.8.2 b):

“The manufacturer, assembler, installer or importer are not considered to be responsible themselves for the consequences on the safety, reliability and characteristics of a device unless:

- The assembly, fitting, extensions, adjustments, modifications or repairs have been performed by persons authorized by the party in question,
- The electrical installation of the corresponding premises complies with IEC regulations.
- The device is used in accordance with the instructions for use. “If the replacement parts used for the periodic servicing by an approved technician do not comply with the manufacturer’s specifications, the latter is absolved from all responsibility in the event of an accident. Do not open the device while in operation: risk of electrical shock. This device complies with the requirements of the 93/42/EEC European directive but its operation may be affected by other devices being used close by, such as diathermy and high frequency electro-surgical equipment, defibrillators, short wave therapy equipment, mobile telephones, CB and other portable devices, microwave ovens, induction plates or even remote control toys and more generally electromagnetic interferences which exceed the levels specified by the ECN 60601-1-2 standard.

Classification

Type of protection against electric shock:

Class II


Protection from electric shock is achieved by DOUBLE INSULATION. Protective earthing or reliance upon installation conditions are not required.

Degree of protection against electric shock: Equipment providing a particular degree of protection against electric shock, particularly regarding:

1. Allowable leakage current;
2. Reliability of protective earth connection (if present).

Not intended for direct cardiac application. Method of cleaning and infection control allowed: Please refer to your Equipment Provider and the VisionAire V Service Manual. Degree of safety of application in the presence of flammable gases: Equipment not suitable for such application. Mode of operation: Continuous duty.

Documents / Resources

	<p>AIRSEP VisionAire 5 LPM Oxygen Concentrator With O2 Monitor [pdf] User Manual VisionAire 5 LPM Oxygen Concentrator With O2 Monitor</p>
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References

- [Oxygen and Nitrogen Generators for Commercial or Industrial and Medical Use - CAIRE Inc.](#)