

OXYVET IV OXYGEN CONCENTRATOR

USER MANUAL



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TELEPHONE +49 7461 96 580 0

www.eickemeyer.com

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Eickemeyer®

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Warning!

Read instruction guide before operating this equipment.



Danger!

No smoking.

Indications for Use

The OxyVet IV Oxygen Concentrator is intended for use as an oxygen concentrator to provide supplemental low flow oxygen therapy in the home, nursing homes, patient care facilities, etc.



Warning!

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

1. IMPORTANT SAFEGUARDS

Read this entire guide before using your OxyVet IV Oxygen Concentrator.
Important information are 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 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.

2. INTRODUCTION

This instruction guide will acquaint you with the OxyVet IV 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 EICKEMEYER® 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 (1.6 m) of hot, sparking objects or naked sources of flame.

3. HOW YOUR OXYVET IV 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.

4. IMPORTANT PARTS OF YOUR CONCENTRATOR

Please take time to familiarize yourself with your OxyVet IV Oxygen Concentrator before operating.

Before using this product, make sure you have the following items:

- 1 User manual
- 1 Oxygen concentrator set
- 1 Adapter – for connect Humidifier
- 1 Oxygen Outlet Connector

Front View



Figure 1: Front View

1. Power Switch
I = ON
O = OFF
2. Circuit breaker – (selected units) resets the unit after electrical overload shutdown
3. Humidifier Holder
4. Oxygen outlet – oxygen is dispersed through this port
5. Flow meter control button “M” increase flow/reduce flow, 0.5 LPM/per scale.
6. Timing setting “+” increase/“-” reduce, 30 min/per step
7. Monitor – indicate the condition of oxygen purity status and hour meter
8. Green Power light – illuminates when your concentrator is operating
9. Normal Oxygen (green) light (the LED display normal oxygen) display low oxygen output concentration $82\% \pm 3\%$ /optional
10. Low Oxygen (yellow) light (the LED display low oxygen)/optional
11. Red Service Required light – when illuminated contact EICKEMEYER®
12. Castor

Back View



Figure 2: Rear View

- 13. Air filter – prevents dirt, dust, and lint from entering your unit
- 14. Product specification label
- 15. Exhaust
- 16. Power cord and/or IEC power connector

5. SETTING UP YOUR OXYGEN CONCENTRATOR

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



Danger!

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



Note!

Do not connect to an electrical outlet controlled by a wall switch. Please connect directly to a wall socket rather than an extension lead.

2. Position your unit at least 6 inches (16 cm) 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.

6. BEFORE OPERATING YOUR OXYGEN CONCENTRATOR

1. Before operating your unit always check to be sure the air filter (located on the back of your unit) is existed. Proper replace of this filter is discussed in the Caring for Your Concentrator section on page 10.
2. Attach the appropriate oxygen accessories to the oxygen outlet.

Oxygen Tubing Connection:

- a. Attach the oxygen tubing directly to the connector (Figure 3).



Figure 3

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. Attach the oxygen tubing directly to the humidifier bottle outlet fitting (Figure 4).



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.

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.

7. OPERATING YOUR OXYVET IV OXYGEN 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) from hot, sparking objects or naked sources of flame.

1. 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.



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 12 and contact EICKEMEYER® if necessary.
- If an audible low-frequency vibration sound is detected, the unit is not operating properly. Refer to the Minor Troubleshooting chart on page 12, and contact EICKEMEYER® if necessary.

2. 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!

- EICKEMEYER® may have preset the flow meter so that it can not be adjusted.
- 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.

8. RESERVE OXYGEN SYSTEM

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

9. CARING AND PERIODIC MAINTENANCE FOR YOUR UNIT



Note!

Use no lubricants, oils or grease.



Warning!

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

Oxygen Humidifier (reusable Bottles)

For cleaning the oxygen humidifier please 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 EICKEMEYER®.

Air Filter and Oxygen Outlet Connector

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

1. Remove the oxygen outlet connector (if used).
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.

Air filter need to be replaced after device operates each 3,000 hours. Air filter is disposable after used. Not replace the air filter regularly will affect the performance of concentration.



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 a qualified EICKEMEYER® 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.

Periodic Maintenance for your Unit

1. Clean the air filter at least once a week. For cleaning, please remove it, rinse it thoroughly with warm tap water and towel dry thoroughly. The filter should be completely dry before reinstalling.
2. Change the felt of the Inlet Pre-Filter at least once half a year. Follow those steps:
Open the Important Safeguard pull out the Inlet Pre-Filter. Pull out the old felts from the Inlet Pre-Filter (two sides). Then insert the new felts to the Inlet Pre-Filter each side, insert the Inlet Pre-Filter and close the Important Safeguard.
3. Change the Bacterial Filter at least once a year. You can not change this by yourself, you must contact EICKEMEYER® change this for you.



Note!

- The use of certain humidifiers and accessories may impair the oxygen concentrator's performance.
- 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 12 and contact EICKEMEYER®.
- From open to oxygen to reach the required performance required time should be within 5 minutes.

10. MINOR TROUBLESHOOTING














Symptom	Possible Cause	Remedy
Unit does not operate. Power light is off when the power switch is “on”. Audible alarm is pulsing and Service Required light is flashing.	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.
	No power at wall outlet.	Check your home circuit breaker and reset if necessary. Use a different wall outlet if the situation occurs again.
	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.
Unit operates; the Power light is on when the Power switch is “On”. Red Service Required light is illuminated. Audible alarm may be sounding.	Air filter is blocked.	Check the air filter. If the filter is dirty, wash it following the cleaning instructions on page 10.
	Exhaust is blocked.	Check the exhaust area; make sure there is nothing restricting the unit exhaust.
	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.
	Blocked or defective humidifier bottle.	Detach the humidifier from the oxygen outlet. If proper flow is obtained, clean or replace humidifier.
	Flow meter set too low.	Set flow meter to prescribed flow rate. If the above remedies do not work, contact EICKEMEYER®.
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 EICKEMEYER® immediately.
If any other problems occur with your oxygen concentrator.		Turn your unit “Off”. Switch to your reserve oxygen system, and contact EICKEMEYER® immediately.
Both the green Normal Oxygen and the yellow Low Oxygen lights are either on or off.	O.C.I malfunction	Contact EICKEMEYER®.
Yellow Low Oxygen light is on or the yellow low Oxygen light is on and the intermittent audible Signal is sounding.	Flow meter is not properly set.	Ensure the flow meter is properly set to the prescribed.
	Air filter is blocked.	Check the air filter. If the filter is dirty, wash it following the cleaning instructions on page 10.
	Exhaust is blocked.	Check the exhaust area: make sure there is nothing restricting the unit exhaust.

Symptom	Possible Cause	Remedy
Red Service Required light is on and an intermittent audible signal is sounding.	Flow meter is not properly yet.	Ensure the flow meter is properly set to the prescribed.
	Air filter is blocked.	Check the air filter. If the filter is dirty, wash it following the cleaning instructions on page 10.
	Exhaust is blocked.	Check the exhaust area: make sure there is nothing restricting the unit exhaust. If the above remedies do not work, contact EICKEMEYER®.

11. SPECIFICATIONS

No.	Item	Rating
1.	Delivery Rate	0.5 to 5 LPM
2.	Outlet Pressure	8.5 – 13 psi (68.5 – 90 kpa)
3.	Electrical Rating	230 V, 50 Hz, 1.4 A (Max.)
4.	Oxygen Percentage	0.5 ~ 5 LPM 93 % ± 3 %
5.	Average oxygen concentration	At 2 l/min: 93 % ± 3 %
6.	Operating Environment Range	Temperature 10 °C to 40 °C Humidity 15 % to 95 % Atmospheric pressure 50 ~ 106 kpa (7.3 ~ 15.4 psi)
7.	Weight	14.9 kg
8.	Sound Level (ISO 8359:1996 from front)	≤ 43 dbA
9.	Dimensions (in mm)	L 342 x W 368 x H 572
10.	Operating System	Time Cycle/Pressure Swing
11.	Storage Conditions	Temperature -40 to 70 °C Humidity 10 to 100 % Atmospheric pressure 50 ~ 106 kpa (7.3 ~ 15.4 psi)
12.	Equipment Class and Type	The type of protect against electric shock: Class II The degree of protect against electric shock: TYPE B Type B Applied part
13.	Pressure Relief Valve	276 kPa ± 34.5 kPa
14.	Lifetime	3 Years
15.	Warranty Period limit	1 Year


12. SYMBOL

	General warning, caution, risk of danger Please read the instructions carefully before operating the product.
	Type B applied part
	Class II equipment
	Manufacture's serial number
	Authorized representative in the European community
	Date of manufacture
	Manufacture
	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.
	The equipment is CE certified
	FRAGILE Contents of the transport package are fragile therefore it shall be handled with care.
	THIS WAY UP Indicates correct upright position of the transport package.
	KEEP AWAY FROM RAIN Transport package shall be kept away from rain.
	Non-ionizing electromagnetic radiation

13. ELECTROMAGNETIC IMMUNITY

Guidance and Manufacturer's Declaration – Electromagnetic Immunity

The OxyVet IV Oxygen Concentrator is intended for use in the electromagnetic environment specified below. The customer or the user of the OxyVet IV Oxygen Concentrator should assure that it is used in such an environment.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment-guidance
Conducted RF IEC 61000-4-6	3 Vrms 150 kHz to 80 MHz	3 V	<p>Portable and mobile RF communications equipment should be use no closer to any part of the OxyVet IV Oxygen Concentrator including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.</p> <p>Recommended separation distance</p> $d = \left(\frac{3.5}{V_1} \right) \sqrt{P}$ $d = \left(\frac{3.5}{E_1} \right) \sqrt{P} = 80 \text{ MHz to } 800 \text{ MHz}$ $d = \left(\frac{7}{E_1} \right) \sqrt{P} = 800 \text{ MHz to } 2.5 \text{ GHz}$ <p>Where <i>p</i> is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and <i>d</i> is the recommended separation distance in metres (m).^b</p> <p>Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey,^a should be less than the compliance level in each frequency range.^b</p> <p>Interference may occur in the vicinity of equipment marked with the following symbol:</p> 
Conducted RF IEC 61000-4-3	3 V/m 80 MHz to 2.5 GHz	3 V/m	

NOTE 1: At 80 MHz and 800 MHz, the higher frequency range applies.
 NOTE 2: These guidelines may not apply in all situations. Electromagnetic is affected by absorption and reflection from structures, objects and people.

^a Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the OxyVet IV Oxygen Concentrator is used exceeds the applicable RF compliance level above, the OxyVet IV Oxygen Concentrator should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the OxyVet IV Oxygen Concentrator.
^b Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

GERMANY

EICKEMEYER KG
Eltastraße 8
78532 Tuttlingen
T +49 7461 96 580 0
F +49 7461 96 580 90
info@eickemeyer.de
www.eickemeyer.de

SWITZERLAND

EICKEMEYER AG
Sandgrube 29
9050 Appenzell
T +41 71 788 23 13
F +41 71 788 23 14
info@eickemeyer.ch
www.eickemeyer.ch

POLAND

EICKEMEYER Sp. z o.o.
Al. Jana Pawła II 27
00-867 Warszawa
T +48 22 185 55 76
F +48 22 185 59 40
info@eickemeyer.pl
www.eickemeyer.pl

ITALY

EICKEMEYER S.R.L.
Via G. Verdi 8
65015 Montesilvano (PE)
T +39 085 935 4078
F +39 085 935 9471
info@eickemeyer.it
www.eickemeyer.it

DENMARK

EICKEMEYER ApS
Solbakken 26, Hammelev
6500 Vojens
T +45 7020 5019
info@eickemeyer.dk
www.eickemeyer.dk

NETHERLANDS

EICKEMEYER B.V.
Bellweg 44
4104 BJ Culemborg
T +31 345 58 9400
info@eickemeyer.nl
www.eickemeyer.nl

UNITED KINGDOM

EICKEMEYER Ltd.
3 Windmill Business Village
Brooklands Close
Sunbury-on-Thames
Surrey, TW16 7DY
T +44 20 8891 2007
info@eickemeyer.co.uk
www.eickemeyer.co.uk

CANADA

EICKEMEYER Inc.
617 Douro Street, Suite #205
Stratford, Ont. Canada
N5A 0B5
T +1 519 273 5558
F +1 519 271 7114
info@eickemeyervet.ca
www.eickemeyercanada.ca