

Model Numbers JB0160-010B, JB0160-010, JB0160-010B-220, JB0160-010-220 and JB0160-015B, JB0160-015, JB0160-015B-220, JB0160-015-220 with 0₂ Sensor

Important: Do not operate this concentrator without first reading and understanding this manual! Save this manual for future use.

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All specifications and product configurations are subject to change without notification.

- ☆ Federal Law (USA) restricts this device to sale by or on the order of a physician. This product should not be used unless the operator has been instructed by a qualified health care professional.
- ▲ WARNING: Users who require continuous oxygenation must plan for alternate reserve sources of power and oxygen in the event of a failure or loss of power and oxygen. This device is to be used ONLY as an oxygen supplement device and is NOT intended to be a lifesupporting or life-sustaining device.

1 SAFETY

The John Bunn O2 Premier oxygen concentrator is intended for use as an oxygen supplement device in a home or care facility. Use the concentrator only as prescribed by a physician. This user manual serves as a reference for your oxygen concentrator.

Important Information

Please note the following special statements, used throughout this manual, and their significance:

Note: Explanatory information.

A Damage: Action could result in damage to equipment.

 $\underline{\&}$ WARNING: Action could result in fire and explosion.

Before Installation

Damage: During transport, always keep the concentrator upright to prevent damage.

▲ Damage: Only use stable and safe electrical power sources.

▲ Damage: If the electrical power source becomes unstable, discontinue use and find an alternate source.

▲ Damage: The oxygen concentrator cabinet contains no serviceable parts! The oxygen concentrator cabinet should ONLY be opened by an authorized equipment provider.

Placement

- ATTENTION: The oxygen concentrator is intended to be rolled from room to room. Do not place the oxygen concentrator in surroundings where its airflow is obstructed.
- ATTENTION: Be certain to place the unit so that all sides are at least 12 inches (30 cm) away from walls, draperies, furniture, or other obstructions. Do not place the unit in a confined area.
- ▲ ATTENTION: The oxygen concentrator MUST be kept away from heat, fire and excessive water sources and conditions.
- ATTENTION: Do not place items on top of the concentrator.
- \triangle ATTENTION: NEVER block the concentrator's air openings.
- ▲ ATTENTION: Always place the concentrator on a hard surface. Never place the concentrator on a surface such as bed or couch, where the concentrator may tip or fall.
- ATTENTION: Keep the concentrator openings free from lint, hair, etc.

Fire Warning & Explosion

WARNING: Keep the concentrator away from flammable and explosive areas.

- ▲ WARNING: To reduce the risk of fire, special care must be taken when using oxygen concentrators. DO NOT SMOKE while using this device. Keep all matches, lighted cigarettes or other sources of ignition out of the room in which this concentrator is located. In public settings or when used in hospital or long-term care environments, prominently display NO SMOKING signs.
- ▲ WARNING: A spontaneous and violent ignition may occur if oil, grease or greasy substances come in contact with oxygen under pressure. ALWAYS keep these substances away from the oxygen concentrator and all other oxygen equipment. DO NOT use any lubricants unless recommended by manufacturer.
- WARNING: Failure to observe these warnings can result in severe fire, property damage and cause physical injury or DEATH.

Maintenance

CAUTION: The oxygen concentrator was specifically designed to minimize routine preventive maintenance. Only an authorized equipment provider or factory-trained personnel should perform preventive maintenance or adjustments to the oxygen concentrator.

Radio Frequency Interference

Most electronic equipment is influenced by Radio Frequency Interference (RFI). ALWAYS exercise CAUTION with regard to the use of portable communications equipment in the area around such equipment.

Additional Safety Warnings

- ▲ WARNING: TO REDUCE THE RISK OF BURNS, ELECTROCUTION, FIRE OR INJURY TO PERSONS, avoid using while bathing. If continuous usage is required by the direction of a physician, the concentrator must be located in another room at least 9 feet (2.8m) from the bath.
- **WARNING: DO NOT reach for a concentrator that has** fallen into water. UNPLUG IT IMMEDIATELY.
- ▲ WARNING: In certain circumstances, oxygen therapy can be hazardous. Graham-Field recommends that you seek medical advice before using this product.
- ▲ WARNING: Avoid creation of any spark near medical oxygen equipment. This includes sparks from static electricity created by any type of friction.
- ATTENTION: DO NOT come in contact with the concentrator when you are wet.
- \triangle ATTENTION: DO NOT place or store the concentrator where it can drop into water or other liquid.
- ATTENTION: NEVER leave the concentrator unattended when plugged in.
- ATTENTION: This device is to be used only in accordance with the prescription of a physician and this user manual. If at any time the patient or attendant concludes that the patient is receiving an insufficient amount of oxygen, contact the provider and/or physician immediately. NEVER make adjustments to the flow rate unless prescribed by a physician.

- ATTENTION: ALWAYS supervise closely when this product is used near children or those who require close supervision.
- \triangle ATTENTION: Only use this device as intended and described in this manual.
- \triangle ATTENTION: DO NOT use parts, accessories or adapters other than those authorized by manufacturer.
- ATTENTION: DO NOT connect the concentrator in parallel or series with other oxygen concentrators or oxygen therapy devices.
- \triangle ATTENTION: JB0160-015B, JB0160-015, JB0160-015B-220 and JB0160-015-220 only: Discontinue concentrator use immediately if O₂ sensor red warning light illuminates; oxygen concentration is too low for safe use. Contact your Graham-Field equipment provider immediately.

2 FEATURES

Summary

The John Bunn O_2 Premier oxygen concentrator is intended for use as an oxygen supplement device in a home or care facility. Use the concentrator only as prescribed by a physician.

The concentrator separates oxygen from ambient air, providing the user a high concentration of oxygen. Oxygen concentrator usage is therapeutically equivalent to other types of oxygen delivery systems.

Characteristics

- Reliable, safe, complete plastic outer shell.
- Display screen shows total elapsed working hours.
- Pressure safety valve helps ensure operating pressure.
- Power loss alarm function.
- High and low pressure alarm function.
- Heat protection to ensure the safety of the compressor and concentrator.
- JB0160-015B, JB0160-015, JB0160-015B-220, and JB0160-015-220 only: O2 sensor (electro-chemical device): Yellow fault light illuminates when O_2 concentration is greater than 71% and less than 82%; system works. Red warning light illuminates when O_2 concentration is less than 71%; system shuts off.

3 HANDLING

GF Health Products, Inc. Freight Policy For Your Protection, Read Carefully

The carrier accepted this merchandise "in good condition" and is responsible for safe delivery.

Before signing the freight bill, inspect the shipment carefully for damage or missing pieces.

Apparent Loss or Damage

Should visual inspection show loss or damage, this MUST be noted on the freight bill and signed by the carrier's agent. Failure to do so may result in the carrier failing to honor the claim. Please contact the carrier to obtain the paperwork necessary to file a claim.

Concealed Loss or Damage

If damage is discovered after delivery is made, a concealed damage claim must be entered with the freight carrier. When this occurs, make a written request to the carrier for inspection. This request for inspection must be made within 15 days of delivery. The carrier will provide all paperwork necessary to file a concealed damage or loss claim, since such damage or loss is the carrier's responsibility.

Unpacking

Note: Unless the oxygen concentrator is to be used immediately, retain containers and packing materials for storage until concentrator use is required.

- 1. Check for obvious damage to the carton or its contents. If damage is evident, please notify the carrier and your Graham-Field equipment provider.
- 2. Remove all loose packing from the carton.
- 3. Carefully remove all the components from the carton.

Inspection

Examine exterior of the oxygen concentrator for nicks, dents, scratches or other damages. Inspect all components.

Storage

Store the repackaged oxygen concentrator in a dry area. DO NOT place anything on top of the repackaged concentrator.

4 OPERATION AND INSTALLATION



Preparing the Concentrator (refer to above picture)

- 1. Unscrew the humidifier bottle cover, if so equipped (humidifier bottle is optional).
- 2. Fill the humidifier bottle with purified water (or distilled water) between the maximum and minimum water level lines. If needed, add medication to the water, as prescribed by physician.
- 3. Screw the cover back on the humidifier bottle.
- 4. Screw the humidifier bottle adapter into the humidifier bottle cover.
- 5. Insert the humidifier bottle into the elastic belt on the left side of the unit.
- 6. Connect the other end of the oxygen hose to the oxygen outlet.
- 7. Ensure that the power switch is off; plug the concen-

John Bunn O2 Premier Oxygen Concentrator

trator's AC connector into a properly grounded power outlet.

Turning the Concentrator On

- 1. Press the power switch to start the concentrator. There will be a brief delay before the concentrator starts. The alarm system emits a tone of one second duration, the word HELLO appears on the hour meter LED panel, and the green power indicator light illuminates.
- ATTENTION: Every time the concentrator starts, the alarm system performs a self test, and emits a brief tone. If the alarm does anything other than emit a brief tone, see Section 6, Troubleshooting Guide, and follow the appropriate steps.
- 2. Turn the flowmeter knob to the setting prescribed by your physician or therapist.
- Note: To properly read the flowmeter, locate the prescribed flowrate line on the flowmeter.
- 3. Turn the flowmeter knob until the flowmeter ball rises to the appropriate line.
- 4. Center the flowmeter ball on the L/min line prescribed.
- ▲ Damage: If the flowrate on the flowmeter ever falls below 0.5L/min, check tubing or accessories for blocked or kinked tubing or for a defective humidifier bottle.

If using a humidifier bottle, the oxygen comes from the humidifier bottle outlet.

- 5. Connect the oxygen tubing barb connector securely to the humidifier outlet; the other end of the oxygen tubing is used by the patient.
- Note: Oxygenation times and the flowrate ranges are established and prescribed by your physician.

Turning the Concentrator Off

Turn off the power switch and unplug the concentrator's AC connector from the power outlet.

5 MAINTENANCE

Cleaning the Cabinet

Clean the cabinet at least once a month.

- 1. Turn off the power switch.
- 2. Clean the cabinet with a mild household cleaner and a non-abrasive cloth or sponge. Do not spill liquid inside the cabinet.

Cleaning or Replacing the Filters (3 Types)

Clean or replace the filters as often as specified in the following paragraphs in order to protect the compressor and extend the concentrator's life. Replacement filters are available from your Graham-Field equipment provider.

Bottom filter

The bottom filter does not typically require cleaning, but it may if operated in extremely dirty conditions. Perform a visual inspection of the bottom filter every 2 weeks; if the filter is dirty, clean it. The bottom filter is located at the bottom rear of the cabinet (see Figure 1). To clean:

- 1. Remove the bottom filter from the squares carefully with your fingers.
- 2. Inspect the filter; if any part of it is cracked or broken, replace it instead of cleaning it.



- 3. If cleaning, rinse filter well with clear water until all dirt is removed.
- 4. Dry filter by squeezing between two absorbent towels. **Wait for filter to dry.** When dry, install filter carefully as shown in Figure 1.
- ▲ Damage: Do not operate the concentrator without the filters installed, or while filters are wet. These actions could permanently damage the concentrator.

Side filters

Note: For earlier models only, you will need a small blade screwdriver to open the side filter access door. For later models, the filter grill simply pulls out. If this operation is too difficult for you to perform, please contact your equipment provider to perform this for you.

Clean the side filters weekly. There are two side filters, one located on each side of the concentrator cabinet. Perform the following steps on both side filters.

- 1. Turn off the power switch and unplug the concentrator's AC connector from the power outlet.
- 2. For earlier models, use a small blade screwdriver to open the air intake access door; for later models, open the filter grill (see Figure 2).
- 3. Remove the side filter carefully with your fingers.



- 4. Inspect the filter; if any part of it is cracked or broken, replace it instead of cleaning it.
- 5. If cleaning, rinse filter well with clear water until all dirt is removed.
- 6. To dry filter, squeeze it carefully between two absorbent towels . **Wait for filter to dry before installing it in concentrator.** When dry, install filter carefully as shown in Figure 2.
- ▲ Damage: Do not operate the concentrator without the filters installed, or while filters are wet. These actions could permanently damage the concentrator.
- ▲ Damage: Please note that the side filters may require cleaning more often, especially if the concentrator is operated where the following conditions exist:

- A wood stove is used
- Kerosene or oil is used
- Pets are present
- Tobacco is used

Intake filter

Note: Please have your Graham-Field equipment provider replace the intake filter. This operation requires opening the intake filter access door.

Replace, do not clean, the intake filter annually (or more often, if the intake filter turns black). The frequency of replacement depends on usage and condition of the environment where the concentrator is used.

Cleaning the Optional Humidifier Bottle

Change the water in the humidifier bottle every day. Wash the humidifier bottle weekly with warm soapy water, rinse with a solution of 1 part vinegar to 10 parts water, and rinse thoroughly with hot water before refilling.

Replacing the Battery

- Note: Please have your Graham-Field equipment provider replace the battery. This operation requires opening the battery access door.
- Note This device uses a 9V battery. If the concentrator will not be used for an extended period, please have your Graham-Field equipment provider remove the battery.

When the battery becomes weak, the alarm will sound. Have your Graham-Field equipment provider change the battery immediately.

\triangle ATTENTION: Without the battery, the alarm will not work. ALWAYS change the battery when necessary.

6 TROUBLESHOOTING GUIDE

SYMPTOM	CHECK / ACTION
Concentrator power is on and alarm is on, but	Check if concentrator is unplugged; plug in.
concentrator doesn't work	Check if circuit breaker is tripped; fix circuit breaker.
	If concentrator still doesn't work, contact Graham-Field equipment provider.
SYMPTOM	CHECK / ACTION
Concentrator works, but little or no oxygen from outlet	Inspect tubes and cannula to ensure that they are not kinked or blocked. Smooth tubes to unblock.
	Check humidifier bottle, if so equipped, for leaks or jamming. Give humidifier bottle a slight shake to open safety valve. Clean humidifier bottle, reinstall and tighten.
	If condition persists, contact Graham-Field equipment provider.
SYMPTOM	CHECK / ACTION
SYMPTOM Flowmeter ball located on "0" position or float is unstable	CHECK / ACTION Adjust flowmeter knob. If condition persists, contact Graham-Field equipment provider.
Flowmeter ball located on "0" position or float	Adjust flowmeter knob. If condition persists,
Flowmeter ball located on "0" position or float is unstable	Adjust flowmeter knob. If condition persists, contact Graham-Field equipment provider.
Flowmeter ball located on "0" position or float is unstable SYMPTOM Concentrator works, but makes abnormal	Adjust flowmeter knob. If condition persists, contact Graham-Field equipment provider. CHECK / ACTION If yellow light blinks, and alarm sounds at low intervals, or yellow light illuminates continuously and alarm sounds, contact Graham-Field

Concentrator doesn't work; alarm sounds; optional O_2 sensor red warning light illuminates (JB0160-015B, JB0160-015B-220, JB0160-015-220 only) Discontinue use; contact Graham-Field equipment provider immediately. Oxygen concentration is too low for safe use.

Note: If you experience a problem with your concentrator and are unable to service it yourself, contact the equipment provider from whom you purchased the concentrator. If the equipment provider is unable to help you, contact Graham-Field's Customer Service Department at 800-347-5678.

7 BILL OF MATERIALS

Your concentrator includes the following components:

- Oxygen concentrator (one each)
- User manual (one each)
- Humidifier bottle hose (one each)
- Humidifier bottle adapter (one each)

The concentrator comes with one bottom filter, two side filters, and one intake filter already installed; Model Nos. JB0160-015B, JB0160-015, JB0160-015B-220 and JB0160-015-220 come with one O_2 sensor already installed.

Replacement Parts and Optional Accessories

Replacement parts and optional accessories are available for your concentrator. Please contact your Graham-Field equipment provider to order replacement parts and/or accessories.

For a list of available replacement parts and optional accessories, please visit *www.grahamfield.com*

8 SPECIFICATIONS

- Flow Range: 1 to 5L/min
- Oxygen Concentration: 1-4 LPM 94% ± 2% 5 LPM 92% ± 2%
- Maximum Outlet Pressure: 6.52 psi ± .065 psi (45kPa ± 4.5kPa)
- Pressure Relief Mechanism Operational at: 36.26 psi ± 3.63 psi (250kPa ± 25kPa)
- Altitude: Up to 5,997 feet (1,828 meters) above sea level without degradation of concentration levels. Efficiency of 90% from 5,997 to 13,123 feet (1,828 to 4,000 meters) above sea level.
- Sound Level: ≤ 55dB
- Power Supply: JB0160-010B, JB0160-010, JB0160-015B, JB0160-015: AC120V±10% (60Hz) (4.6amps).
 JB0160-010B-220, JB0160-010-220, JB0160-015B-220, JB0160-015-220: AC220V±10% (50Hz) (2.2amps)
- Input Power: 400 Watts Average
- Weight: 57lbs (26kg)
- Dimensions: H 27" x W 18" x D 15"
- Minimum Warm-Up Time Before Use: 30 minutes
- Electrical Classification: II Class B Type
- System: Continuous
- JB0160-015B, JB0160-015, JB0160-015B-220, JB0160-015-220 only: O2 sensor (electro-chemical device): Yellow fault light illuminates when O_2 concentration is greater than 71% and less than 82%; system works. Red warning light illuminates when O_2 concentration is less than 71%; system shuts off.

Normal Operation Conditions

- Temperature range: 41°F to 104°F (5°C to 40°C)
- Relative humidity: 20% to 60%
- Atmospheric pressure: 12.47 psi to 15.37 psi (86kPa to 106kPa)

9 LIMITED WARRANTY

This warranty is extended only to the original purchaser of our products. This warranty gives you specific legal rights and you may also have other legal rights which may vary from state to state. GF Health Products, Inc. warrants its John Bunn O2 Premier Oxygen Concentrator to be free from defects in materials and workmanship from the date of purchase for the following time period:

Compressor: six (6) years Balance of concentrator: five (5) years

Removal of the concentrator cover, unauthorized attempts to service the unit or unauthorized replacement of parts, other than routine maintenance, as described in this user manual, will void all warranties applicable to this concentrator device.

If within such warranty period any such product shall be proven to GF Health Products, Inc.'s satisfaction to be defective, such product shall be repaired or replaced, at GF Health Products, Inc.'s option. This warranty only applies to the labor for repairs performed by the authorized Equipment Providers. It does not apply to the labor performed by the purchaser or user. This warranty does not include normal wear and tear or shipping charges. GF Health Products, Inc.'s sole obligation and your exclusive remedy under this warranty shall be limited to such repair or replacement.

Routine maintenance items, such as filters, are excluded from this warranty. For warranty service, please contact GF Health Products, Inc.'s Customer Service. Upon receiving notice of an alleged defect in a product, GF Health Products, Inc. will issue a serialized return authorization. It shall then be the responsibility of the purchaser to return the entire unit or remove, at purchaser's cost, the defective component part(s) identified, pack the component part(s) in a manner to avoid shipping damage and to ship the component part(s) to either GF Health Products, Inc. or an Authorized Equipment Provider, as specified by GF Health Products, Inc. in advance.

Defective component part(s) must be returned for warranty inspection, using the serialized return authorization number

as identification, within thirty (30) days of the return authorization date. Do not return products to GF Health Products, Inc. or its Authorized Equipment Providers, without prior consent. C.O.D. shipments will be refused. All return shipments must prepay shipping charges, unless otherwise authorized by GF Health Products, Inc.

Concentrator warranty for the John Bunn O2 Premier Oxygen Concentrator (part numbers JB0160-010B, JB0160-010, JB0160-010B-220, JB0160-010-220, JB0160-015B, JB0160-015, JB0160-015B-220, JB0160-015-220) limitations and exclusions:

The foregoing warranty shall not apply to products subjected to negligence; accident; improper operation, maintenance or storage; soot or smoke-filled environments; other than normal application, use or service; modification without GF Health Products, Inc.'s express written consent (including, but not limited to, modification through the use of unauthorized parts or attachments); damage by reason of repairs made to any component without the specific consent of GF Health Products, Inc.; or to products damaged by circumstances beyond GF Health Products, Inc.'s control.

The foregoing express warranty is exclusive and in lieu of any other warranties whatsoever, whether express or implied, including the implied warranties of merchantability and fitness for a particular purpose; and the sole remedy for violations of any warranty whatsoever shall be limited to repair or replacement of the defective product pursuant to the terms contained herein. The application of any implied warranty whatsoever shall not extend beyond the duration of the express warranty provided herein. GF Health Products, Inc. shall not be liable for any consequential or incidental damages whatsoever. Some states do not allow the exclusion or limitation of incidental or consequential damage, or limitation of how long an implied warranty lasts, so the above exclusion and limitation may not apply to you. This warranty shall be extended to comply with state/provincial laws and requirements.

Note: The above warranty has been written to comply with Federal Law applicable to products manufactured after July 4, 1975.

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NOTES



The benefits of registering:

- Safeguard your investment.
- Ensure long-term maintenance and servicing of your purchase.
- Receive updates with product information, maintenance tips, and industry news.
- GF Health Products, Inc. can contact your or your provider, if servicing is needed on your product.
- It will enable GF Health Products, Inc. to improve product designs based on your input and needs.

To register your product:

- Complete the form and questionnaire on the next page.
- Cut out the page on the dotted line.
- Fold the page along the middle with the questionnaire on the inside, and the address on the outside.
- Fill out your return address.
- Affix first-class postage.
- Mail to Graham-Field Health Products. Thank you!

Y)		
1	Q	UESTIONNAIRE	
	1.	Method of purchase: (check all that apply) Medicare Insurance Medicaid Other	
	2.	This product was purchased for use by: (check one)	
	3.	This product was purchased for use at: Home Facility Other	
	4.	I purchased a Graham-Field product because: Price Features (list features) Other	
	5.	Who referred you to Graham-Field products? (check all that apply) Doctor Therapist Friend Relative Dealer/Provider Other Advertisement (circle one): TV, Radio, Magazine, Newspaper No Referral	
	6.	What additional features, if any, would you like to see on this product?	
	7.	Would you like to receive information about Graham-Field products that may be available for a particular medical condition?	
		If yes, please list any condition(s) here and we will send you information by email and/or regular mail about any available Graham-Field products that may help treat, care for or manage such condition(s):	
	8.	Would you like to receive updated information via email or regular mail about Graham-Field home medical products? Yes No	
	9.	What would you like to see on the Graham-Field website?	
	10	.Would you like to be part of future surveys for Graham-Field products? Yes No	
	11	.User's year of birth:	
	If at any time you wish not to receive future mailings from us, please contact us at GF Health Products, Inc., 2935 Northeast Parkway, Atlanta, GA 30360, 800-347-5678 To find more information about our products, visit www.grahamfield.com		

 Affix first-class postage here

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