Drive DeVilbiss iGo®2 Portable Oxygen Concentrator
Service Manual

Approved for air travel!

MODEL 125D
MODEL 125K
MODEL 125A

DANGER-NO SMOKING

CAUTION
Federal (U.S.A.) law restricts this device to sale by or on the order of a physician.

Assembled in USA

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SYMBOL DEFINITIONS

	Danger - No smoking near patient or device. ℹ This symbol has a red circle and diagonal bar on the product label.		Power Button	⎓	Direct Current (DC Power)		Alarm Silenced
	It is mandatory to read and understand the operating instructions prior to use. ℹ This symbol has a blue background on the product label.		Increase Prescription Setting Button		Class II electrical protection – double insulated		TUV Rheinland
	Do not use near heat or open flames. ℹ This symbol has a red circle and diagonal bar on the product label.		Decrease Prescription Setting Button		Type BF applied part		Manufacturer
	Do Not Disassemble ℹ This symbol has a red circle and diagonal bar on the product label.		Battery Status Indicator Symbol	REF	Catalog Number	EC REP	European Representative
	Use no Oil, Grease or Lubricants ℹ This symbol has a red circle and diagonal bar on the product label.		Normal Oxygen (Green)	SN	Serial Number	CE 0044	European Rep CE Mark
	RTCA / DO-160G Section 21 Category M and Section 20 Category T - The manufacturer of this POC has determined this device conforms to all applicable FAA acceptance criteria for POC carriage and use on board aircraft. ℹ Text shown with this symbol is red on the product label.		Low Oxygen (Yellow)	MR	No MR (MR Unsafe) Unsafe for Magnetic Resonance Environment		
	General Warning ℹ This symbol is used throughout this manual to indicate hazardous situations to avoid.		Service Required (Red)	Rx ONLY	Federal (U.S.A.) law restricts this device to sale by or on the order of a physician		
	Important Information ℹ This symbol is used throughout this manual to indicate important information you should know.	IP22	IP22 Ingress Protection - Protected against finger access to hazardous parts; protected against vertically falling water drops when enclosure is tilted up to 15°				
	Note and Information Symbol ℹ This symbol is used throughout this manual to indicate notes, useful tips, recommendations and information.		This device contains electrical and/or electronic equipment that must be recycled per EU Directive 2012/19/EU- Waste Electrical and Electronic Equipment (WEEE)				

Battery Pack Markings

	Attention, Consult Instruction Guide	c UL us	UL Recognized for Canadian and US market		Dispose of this product according to local regulations.
	Refer to Operating Instructions		Recycling Symbol Taiwan		For Canada & USA: Please call 1-800-822-8837 for information on how to recycle this battery
CE	Mark of conformity to applicable European Directives	un	UN Transportation Test	10	China RoHS
	Regulatory Compliance Mark of Australia and New Zealand.	Li-ion	Recycling Symbol	PS E	Regulatory Compliance Mark of Japan
	Battery Charge Status Gauge				

IMPORTANT SAFEGUARDS

Read this entire guide before using your Drive DeVilbiss iGo2 portable oxygen concentrator. Important safeguards are indicated throughout this guide; pay special attention to all safety information. Imminently and potentially hazardous information is highlighted by these terms:

DANGER
Indicates an imminently hazardous situation which could result in death or serious injury to the user or operator if not avoided.

WARNING
Indicates a potentially hazardous situation which could result in death or serious injury to the user or operator if not avoided.

CAUTION
Indicates a potentially hazardous situation which could result in property damage, injury, or device damage if not avoided.

IMPORTANT
Indicates important information you should know.

NOTES
Indicates notes, useful tips, recommendations, and information.

Read All instructions before Using.

IMPORTANT
The device is to be used only on the instruction of a licensed physician. It is intended for the administration of supplemental oxygen to oxygen patients > 10 kg as indicated by the physician. It is a transit-operable and body-worn device, and is not intended to be used with other medical devices. The device is not intended for life support, nor does it provide any patient monitoring capabilities.

WARNING
- Electric Shock Hazard – Do not use while bathing.
- Electric Shock Hazard – Do not immerse this device into water or any other liquid.
- Electric Shock Hazard – Do not attempt to open or remove the cover; there are no user-serviceable internal components. If service is required, contact your equipment provider for instructions on obtaining service. Opening or attempting to service your device will void the warranty.

DANGER
- **DANGER-NO SMOKING**
- Oxygen causes rapid burning. Smoking during oxygen therapy is dangerous and is likely to result in facial burns or death. Do not allow smoking within the same room where the oxygen concentrator or any oxygen carrying accessories are located. Do not smoke while your oxygen concentrator is operating, or when you are near a person utilizing oxygen therapy.
- If you intend to smoke, you must always turn the oxygen concentrator off, remove the cannula and leave the room where either the cannula or mask or the oxygen concentrator is located. If unable to leave the room, you must wait 10 minutes after you have turned off the oxygen concentrator before smoking.
- There is a risk of fire associated with oxygen enrichment during oxygen therapy. Do not use the oxygen concentrator or accessories near sparks or open flames.
- Open flames during oxygen therapy are dangerous and are likely to result in fire or death. Do not allow open flames or hot, sparking objects within 2 m (6.5 feet) of the oxygen concentrator, cannula, or any oxygen carrying accessories.
- Oxygen makes it easier for a fire to start and spread. Do not leave the nasal cannula or mask on bed coverings or chair cushions if the oxygen concentrator is turned on but not in use; the oxygen will make the materials flammable. Turn the oxygen concentrator off when not in use to prevent oxygen enrichment.
- To prevent high concentrations of oxygen:
  - Do not leave device running when not in use. Do not leave cannula unattended while unit is delivering oxygen. High concentrations of oxygen can cause rapid burning.
  - Keep the equipment in a well-ventilated area.

CAUTION
- Drive DeVilbiss recommends for optimal service life that the iGo2 Portable Oxygen Concentrator be operated for at least 30 minutes after it is powered on. Shorter periods of operation, operating in extreme temperature/humidity conditions or in the presence of contaminates, and/or handling and storage conditions outside those specified, may affect the long term reliable operation of the product.

GENERAL INFORMATION

WARNING

- Position your unit near an electrical outlet 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 device. The iGo2 concentrator should be located so as to avoid pollutants or fumes, and placed in a well-ventilated place so that the air inlet and exhaust are not blocked. Do not cover unit with a blanket, towel, quilt, or other covering, as the unit may overheat.
- Do not lubricate fittings, connections, tubing, or other accessories of the oxygen concentrator to avoid the risk of fire and burns. No lubricants are recommended for use on this device.
- Use only water-based lotions or salves that are oxygen-compatible before and during oxygen therapy. Never use petroleum or oil-based lotions or salves to avoid the risk of fire and burns.
- The Drive DeVilbiss iGo2 portable oxygen concentrators are equipped with a fire mitigating outlet fitting that prevents propagation of fire into the unit.
- See instructions for use regarding fire propagation prevention.
- 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.
- Locate oxygen tubing and power supply cords to prevent tripping hazards and reduce the possibility of entanglement or strangulation.
- Use only spare parts recommended by the manufacturer to ensure proper function and to avoid the risk of fire and burns.
- Equipment not suitable for use in the presence of a flammable anesthetic mixture with air or with oxygen or nitrous oxide.
- When device is used under extreme operating conditions, the temperature near the exhaust vents on the bottom of the unit may reach 57˚C (134.6˚F). Keep bare skin away from this area.
- The following surface temperatures may exceed 41˚C (105.8˚F) under extreme conditions:
  - External surface of POC..... 52˚C (125.6˚F)
  - Exhaust gas at discharge port..... 53˚C (127.4˚F)
  - External power supply .....43˚C (109.4˚F)
  - Battery Pack .....49˚C (120.2˚F)

  Keep bare skin away from this area.

WARNING

- If you feel discomfort or are experiencing a medical emergency while undergoing oxygen therapy, seek medical assistance immediately to avoid harm.
- Geriatric, pediatric or any other patient unable to communicate discomfort can require additional monitoring and/or a distributed alarm system to convey the information about the discomfort and/or the medical urgency to the responsible caregiver to avoid harm.
- Use of this device at an altitude above 3000 meters (9843 feet) or above a temperature of 35˚C (95˚F) or greater than 93% relative humidity is expected to adversely affect the flow rate and the percentage of oxygen and consequently the quality of the therapy. Refer to specifications for details regarding parameters tested.
- The oxygen delivery setting has to be determined for each patient individually with the configuration of the equipment to be used, including accessories. It is very important to follow the prescription determined by your physician.
- Your delivery settings of the oxygen concentrator should be periodically reassessed for the effectiveness of therapy.
- To ensure you receive the therapeutic amount of oxygen delivery according to your medical condition, the iGo2 oxygen concentrator must:
  - be used only after one or more settings have been individually determined or prescribed for you at your specific activity levels.
  - be used with the specific combination of parts and accessories that are in line with the specification of the concentrator manufacturer and that were used while your settings were determined.
- The settings of this iGo2 portable oxygen concentrator do not correspond with continuous flow oxygen device settings.
- The setting of other models or brands of oxygen therapy equipment do not correspond with the settings of this iGo2 portable oxygen concentrator.

WARNING

- The proper placement and positioning of the prongs of the nasal cannula in the nose is critical to the amount of oxygen delivered to the respiratory system of the patient.
- Some respiratory efforts of the patient might not trigger the conserving equipment.
- Wind or strong draughts can adversely affect accurate delivery of oxygen therapy.
- This device is not intended for use with a tracheotomised patient.

WARNING

- To avoid electric shock, do not remove the concentrator cover. The cover should only be removed by a qualified Drive DeVilbiss technician. Do not apply liquid directly to the cover or utilize any petroleum-based solvents or cleaning agents.
- Before attempting any cleaning procedures, turn the unit “Off” and disconnect from AC or DC power.
- Do not service or clean this device while in use with a Patient.
- Use no lubricants, oils or grease.
- Use of harsh chemicals (including alcohol) is not recommended. If bactericidal cleaning is required, a non-alcohol based product should be used to avoid inadvertent damage.

WARNING

- This device contains electrical and/or electronic equipment. Follow local governing ordinances and recycling plans regarding disposal of device components.

MR Unsafe

- Do not bring the device or accessories into a Magnetic Resonance (MR) environment as it may cause unacceptable risk to the patient or damage to the iGo2 or MR medical devices. The device and accessories have not been evaluated for safety in an MR environment.
- Do not use the device or accessories in an environment with electromagnetic equipment such as CT scanners, Diathermy, RFID and electromagnetic security systems (metal detectors) as it may cause unacceptable risk to the patient or damage to the iGo2. Some electromagnetic sources may not be apparent, if you notice any unexplained changes in the performance of this device, if it is making unusual or harsh sounds, disconnect the power cord and discontinue use. Contact your home care provider.
- This device is suitable for use in home and healthcare environments except for near active HF SURGICAL EQUIPMENT and the RF shielded room of an ME SYSTEM for magnetic resonance imaging, where the intensity of Electromagnetic DISTURBANCES is high.
- Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.
- Use of accessories and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.
- Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the iGo2, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

WARNING

THE FOLLOWING BATTERY SAFETY WARNINGS MUST BE OBSERVED AT ALL TIMES:

- Do not drop, hit, crush, or otherwise abuse the battery as this may result in the exposure of the cell contents, which are corrosive.
- Do not subject battery to mechanical shock.
- In the event of a battery leaking, do not allow the liquid to come in contact with the skin or eyes. If contact has been made, wash the affected area with copious amounts of water and seek medical advice.
- Do not expose the battery to fire or extreme heat. Do not incinerate. Exposure of the battery to extreme heat may result in an explosion. Avoid storage in direct sunlight.
- Do not expose the battery to water, rain or moisture of any type.
- Do not expose to water, fire or excessive heat.
- Do not crush, disassemble, puncture or short circuit the connector terminals.
- Do not open, disassemble, or attempt to repair the battery; there are no user-serviceable parts inside.
- Do not short-circuit battery.
- Do not store batteries haphazardly in a box or drawer where they may short circuit each other or be short-circuited by other metal objects.
- Keep batteries out of the reach of children.
- Keep batteries clean and dry.
- Use only the battery in the application for which it was intended.
- Periodically inspect connection cords, connector tips and the power supply for damage or signs of wear. Discontinue use if damaged.
- Charge the battery before initial use.
- Recommended maximum time between charges = 1 year
- Recommendation: Store the battery below 25°C (77°F), low humidity, no dust and no corrosive gas atmosphere. Store fully charged if possible.
- This device contains electrical and/or electronic equipment. Follow local governing ordinances and recycling plans regarding disposal of device components.
- The battery must be recycled or disposed of properly.

Operating Principle

The Oxygen Concentrator uses molecular sieve to remove the nitrogen from ambient air and allow oxygen to remain in the air delivered to the patient. The device is a pulse only oxygen concentrator which only delivers oxygen when a patient breath is detected.

Technical Description

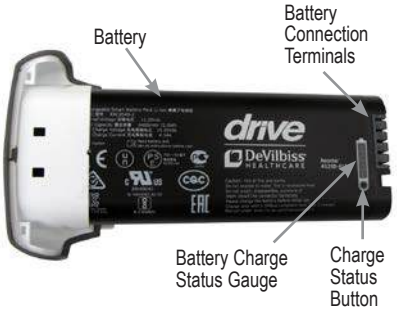
Pulse Only Pressure Vacuum Swing Adsorption (PVSA), oxygen concentrator based on molecular sieve technology. Beds are evacuated and drawn down by a compressor to a vacuum level, which is dependent on setting. Ambient air is then pumped into the concentrator through a series of filters that remove dust and other particulate. A valve directs air into one of two sieve beds. Nitrogen is adsorbed in the bed as the pressure increases while oxygen flows through, thereby producing a highly enriched oxygen product. Air is processed in the second bed out of phase in the cycle with the first bed. This allows processed oxygen to be used in the cycle and to be delivered to the patient. Oxygen is provided to the patient only with pulse-dose basis.

Healthcare Provider Instructions

- The healthcare provider is responsible to determine oxygen delivery setting for each patient individually with the configuration of the equipment to be used, including accessories.
- The healthcare provider is responsible to periodically reassess the delivery settings of the oxygen concentrator for the effectiveness of therapy.
- The healthcare provider is responsible to ensure the compatibility of the portable oxygen concentrator and all of the parts used to connect to the patient before use.

IMPORTANT PARTS

Important Parts of Your Concentrator



Control Panel Overview

Initial Startup Screen

Prescription Setting

Standard Mode:
(1 digit field). The device has 5 oxygen settings of 1 through 5.

SmartDose Mode:
(2 digit field). The device has 4 oxygen settings of 1d through 4d where the d indicates SmartDose is enabled

NOTE– *Press and hold either "+" or "-" to see battery charge remaining; display will return to prescription setting in a few seconds.*

Set Up and Operating Instructions

Refer to the instruction guide for set up and operating instructions.

POWER OPTIONS

Your iGo2 POC can be used on the 3 following power sources:

1. Battery Power – Your device must always have a battery installed to operate. The iGo2 POC will use battery power if no other power source is present. However, if AC or DC power is connected, the device will run on that power source thus conserving battery charge level. If the other power source is disconnected, the device will automatically switch to battery power. The device will operate for a minimum of 3.5 hours at a setting of 2 at 20 BPM (breaths per minute) using a new fully charged battery.

2. AC Power (for use at home or where standard AC power is available) – Attach the universal AC Power Supply to the concentrator and an AC power outlet using the AC Power Cord.

3. DC (car charger) Power.

   a. **START YOUR VEHICLE.**

   NOTE– *DO NOT leave the iGo2 or Power Supply plugged into the vehicle without the engine running or attempt to start the vehicle while either is connected to the vehicle. This may drain the vehicle's battery.*

   b. Attach Power Supply to the device and to the vehicle accessory power port using the DC power cord.

   c. Secure the iGo2 POC and Power Supply in your vehicle and make sure the air inlet and exhaust vents are not blocked.

NOTE– *Battery will not charge if plugged into power source less than 13.8V but the device will function correctly.*

BATTERY OPERATION AND CHARGING

Battery

To check the battery charge level percent, press and hold either the"+" or "-" button, and the percent of battery remaining display will be shown. The display will revert back to prescription setting in a few seconds, but the battery status indicator is always shown.

The iGo2 concentrator will operate for a minimum of 3.5 hours at a setting of 2 at 20 BPM (breaths per minute) using a new fully charged battery.

NOTE– *The battery may have 75% of its initial capacity after 300 charge/discharge cycles; in this case, you can expect up to 2.5 hours of runtime at a setting of 2 and 20 BPM.*

Initial Battery Charge

Before using the device on battery power for the first time, the battery needs to be fully charged. Optional spare batteries purchased should also be fully charged before first use.

1. To charge iGo2 portable concentrator battery, simply attach the power supply to the device and an AC or DC power source using the appropriate power cord.
2. The battery status indicator blinks to show charge level while the battery is charging, and stays on once battery is fully charged (99%).

NOTE– *If you purchased spare batteries for backup, insert into the concentrator one at a time and charge as above.*

Battery Charging

During charge, the battery status indicator blinks while the battery is charging; it stays on solid when battery is not charging.

To charge iGo2 portable concentrator battery:

1. Using AC Power - Attach the power supply to the concentrator and an AC power source using the appropriate power cord.
2. Using DC Power - Your iGo2 includes a DC Cord that allows the concentrator to operate from DC accessory power port outlets such as those found in motor vehicles.
   a. **START YOUR VEHICLE.**
      NOTE– *DO NOT leave the iGo2 or Power Supply plugged into the vehicle without the engine running or attempt to start the vehicle while either is connected to the vehicle. This may drain the vehicle's battery.*
   b. Attach Power Supply to the concentrator and to the vehicle accessory power port using the DC power cord.
   c. Secure the iGo2 POC and Power Supply in your vehicle and make sure the air inlet and exhaust vents are not blocked.

NOTE– *Battery will not charge if plugged into power source less than 13.8V but the device will function correctly.*

NOTE– *A separate battery charging station is also available for purchase.*

Typical Battery Recharge Time

The typical time to recharge your battery from a fully discharged condition is less than 5 hours dependent upon the setting.

NOTE– *Battery will charge in less than 3 hours from fully discharged state with device off and plugged into AC power; or less than 4 hours when using DC power. While using the concentrator, charge time will be less than 5 hours from fully discharged state using either AC or DC power.*

NOTE– *Battery will not charge if plugged into power source less than 13.8V but the device will function correctly.*

BATTERY CHARGING / TRAVEL

Battery Charge Level

Display (installed battery)	Spare Battery (not installed)
To check the battery charge level percent, press and hold either the "+" or "-" button, and the percent of battery remaining display will be shown. The display will revert back to prescription setting in a few seconds, but the battery status indicator is always shown.  Flashing = 10% remaining Audible Alert = 5% remaining Device Shutdown = within 2 minutes of reporting 5% charge remaining. Plug in device or change battery to continue use. **NOTE**– *Each segment of the battery charge status gauge indicates a percent of the total charge capacity*	To check the charge level on a spare battery, simply press the Charge Status Button on the individual battery.  Flashing = 10% remaining **NOTE**– *Each segment of the battery charge status gauge indicates 25% of total charge capacity.*

Discharging Battery Bar Table (unplugged)

Battery Charge Status	Displayed Charge	Battery Bar Display # of Bars Lit
90 - 100%	90 - 99	5 bars steady
70 - 89%	70 - 89	4 bars steady
50 - 69%	50 - 69	3 bars steady
30 - 49%	30 - 49	2 bars steady
11 - 29%	11 - 29	1 bar steady
6 - 10%	06 - 10	1 bar blinking at 1 Hz (slow flash)
1 - 5%	01 - 05 *Device will shutdown within 2 minutes of reporting 5% charge remaining	1 bar blinking at 3.3 Hz (fast flash)

TRAVELING WITH THE IGO2 POC

Refer to the instruction guide for information and recommendations on traveling with the iGo2 POC.

MAINTENANCE

There is no routine or scheduled maintenance required for the iGo2 POC.

Alarm System Function Check

The alarm system function is checked automatically each time the unit is turned on. Therefore there is no monitoring system or method required to check the function of the alarm system. At power on, the audible alarm sounds for 1 second and all LCD (liquid crystal display) segments light for 3 seconds to verify that all LCD segments are operating.

Expected Service Life

- Oxygen Concentrator - 5 years
- Carrying Case - 5 years
- Compressor - 3 years
- Sieve Beds - 1 year
- Battery - 1 year

Expected service life of the unit, and in particular the sieve beds and compressor, may vary based on the operating environment, storage, handling, and the frequency and intensity of use.

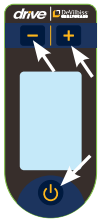
There is no portion of the gas pathways through the concentrator that could be contaminated with body fluids under normal or single fault.

The device patient connection may unintentionally become contaminated with expired gasses if a hose internal to the device, between the dispense valve and patient outlet port, becomes disconnected. This would allow open flow from the patient to the device. A bacteria filter is used in the patient connection, and this will prevent contamination of the system. The design of the concentrator allows removal of the patient connection for cleaning and/or replacement of the filter

INFORMATION MODE

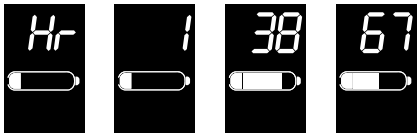
Information mode allows you to view the Hour Meter and Serial Number.

Entering Information Mode



With the device plugged in and OFF:

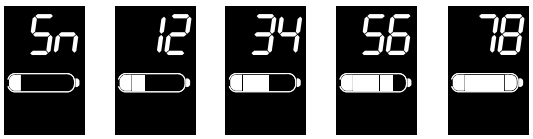
- Press and hold all 3 buttons for 2 seconds until display shows Hour Meter.



Hr (Hour Meter)

Hr (Hour Meter) is displayed; it contains 5 digits shown across 3 segments. Display auto scrolls through segments.

Press Power button for 1 second and release for Serial Number.



Sn (Serial Number)

Sn (Serial Number) is next item displayed; it contains 8 digits shown across 4 segments. Display auto scrolls through segments.

Exiting Information Mode

To Exit information Mode:

Press Power button for 2 seconds and release to exit Information Mode and turn off device.

NOTE– *Information Mode times out after 2 minutes without user interaction.*

IGO2 POC CARE AND CLEANING

WARNING

To avoid electric shock, do not remove the concentrator cover. The cover should only be removed by a qualified Drive DeVilbiss technician. Do not apply liquid directly to the cover or utilize any petroleum-based solvents or cleaning agents.

Use of harsh chemicals (including alcohol) is not recommended. If bactericidal cleaning is required, a non-alcohol based product should be used to avoid inadvertent damage.

Use no lubricants, oils or grease.

Before attempting any cleaning procedures, turn the unit "Off" and disconnect from AC or DC power.

Do not service or clean this device while in use with a Patient.

Exterior Cover & Battery

Clean the concentrator exterior cover and battery as needed:

1. Ensure battery is installed while cleaning the cover.
2. Use a damp cloth or sponge with a mild household cleaner on the exterior cover, and wipe it dry. If battery is removed, wipe battery bay with a Dry Cloth only.

CAUTION

Do not apply liquid directly to the cover.

3. Wipe battery with a Dry Cloth as needed.

Carrying Case

The carrying case should be cleaned as needed. To clean, follow these steps:

1. Remove the device from the carrying case before cleaning.
2. As needed, clean the case by using a damp cloth with a mild household cleaner and wipe dry.

Power Supply, AC Power Cord, DC Power Cord

1. Disconnect cords from the device and power source before cleaning.
2. Clean the cords as needed by using a damp cloth with a mild household cleaner, and wipe dry.

Cannula and Tubing

Clean and replace the cannula and tubing according to the manufacturer's instructions.

Cleaning

	Suggested cleaning interval	Number of cleaning cycles *	Compatible cleaning method
Outer Cabinet and Battery	7 days	260	Mild dish soap (2 tbsp) and warm water (2 cups)
Power Supply and Cords	7 days	260	Mild dish soap (2 tbsp) and warm water (2 cups)
Carrying Case	7 days	260	Mild dish soap (2 tbsp) and warm water (2 cups)

* number of cleaning cycles determined by suggested cleaning interval and expected service life

Cleaning & Disinfection When There Is A Change Of Patient

The iGo2 POC should be cleaned and disinfected between patients as follows:

1. Dispose of all accessories that are not suitable for reuse, particularly the oxygen tubing and nasal cannula.

2. Clean the device, battery, and components as described in the Care and Cleaning section.
3. Disinfect the surfaces of the device, battery, and components using DisCide Ultra Towelettes by Palmero or equivalent and follow the disinfectant manufacturer's instructions. Avoid wiping the battery terminals.
4. Remove the outlet port and filter under it, and discard. Replace with a new filter and outlet port (part number 125D-610).

NOTE– *The disinfection process can only be completed by the manufacturer or by an appropriately trained individual.*

Disinfection

	Recommended disinfection interval	Number of disinfection cycles	Compatible disinfection method
Cabinet, power cords, carrying case	Between patients	60	DisCide Ultra
Oxygen tubing, nasal cannula, outlet port and filter	Do not clean, replace between patients	N/A	N/A

RETURN AND DISPOSAL

This device may not be disposed of with household waste. After use of the device, please return the device to the provider for disposal. This device contains electrical and/ or electronic components that must be recycled per EU Directive 2012/19/EU-Waste Electrical and Electronic Equipment (WEEE). Non-infectious used accessories (e g nasal cannula) can be disposed of as residential waste. The disposal of infectious accessories (e g nasal cannula from an infected user) must be made via an approved waste disposal company. Names and addresses can be obtained from the local municipality.

Disposal of Lithium-ion Batteries

Lithium-ion batteries should be recycled. Some states have specific laws regarding the disposal of lithium-ion batteries. You should contact your local Government Household Hazardous Waste Agency for information on state battery disposal regulations. For information on where you can recycle your batteries at no cost, visit www.call2recycle.org or call 1-877-723-1297.

Recycle batteries according to national and local regulations. Contact your local representative for assistance. The batteries must be disposed only in a discharged state at the collection center. In case of not fully discharged batteries, provide for a risk against short circuits. Short circuits can be prevented by isolating the terminals with tape.

TROUBLESHOOTING & ALARM SYSTEM

Troubleshooting

The following troubleshooting chart will help you analyze and correct minor malfunctions. If the suggested procedures do not help, switch to your reserve oxygen system and call your Drive DeVilbiss homecare provider. Do not attempt any other maintenance.

WARNING

To avoid electric shock hazard, do not remove the covers. There are no user serviceable internal components. The covers should only be removed by a qualified Drive DeVilbiss provider/Drive DeVilbiss homecare technician.

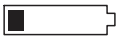
SYMPTOM	POSSIBLE CAUSE	REMEDY
Unit does not operate. Display is not illuminated and nothing happens when Power button is pressed and held.	1. Power button was not held.	1. Press Power button and hold for 2 seconds.
	2. No battery installed	2. Battery must be installed for device to operate regardless of power source.
	3. Battery depleted or defective battery.	3. Install charged battery or contact provider for replacement
	4. External power not attached and battery is depleted.	4. Check cord connections to device, power supply, and power source.
	5. No power at wall outlet.	5. Check your home circuit breaker and reset if necessary. Use a different wall outlet if the situation occurs again.
	6. Faulty Power Supply, AC Power Cord or DC Power Cord	6. Contact your Drive DeVilbiss provider
	7. Faulty DC accessory power port outlet.	7. Check automotive fuse.
	8. Unit malfunction	8. Contact your Drive DeVilbiss provider.
Unit is On; Audible Alert is sounding; No Visual Alarm	1. No breathing detected	1. Apply cannula and breathe on device.
	2. Cannula is not adjusted properly.	2. Check all cannula connections to make sure they are tight, and adjust the cannula to fit comfortably in your nose. Ensure tubing is not kinked.
	3. Tubing/cannula too long.	3. Replace with shorter tubing/cannula. Cannula and tubing length cannot exceed 25'.
	4. Low flow cannula being used.	4. Replace with standard cannula.
Cannot adjust/change the Oxygen Prescription setting.	1. Unit malfunction.	1. Contact your Drive DeVilbiss provider.
Unit not triggering properly	1. Sensor needs recalibrated	1. Turn unit ON, but do not use it for 5 minutes to auto-calibrate the sensor.
Battery Fuel Gauge symbol is flashing with or without Audible Alert	1. Battery is nearing depletion. * Symbol flashes at <10% battery life. * Audible Alert sounds at <5% battery life.	1a. Charge Battery by connecting device to AC or DC power source. 1b. Install optional backup battery. Device will automatically shut down within 2 minutes of reporting 5% charge remaining.
Yellow Low O_2 symbol is flashing	1. Start Up period	1. Wait until startup period is done (about 10 minutes)
Yellow Low O_2 symbol is On with or without Audible Alert	1. The concentration of the unit is falling. * Symbol flashes below 86% * Audible Alert sounds below 85%	1. Contact your provider and switch to your reserve oxygen system.
Red Service Required symbol flashes with Audible Alert	1. Unit Overheated	1. Ensure vent holes are not blocked. Allow unit to cool and try again.
	2. Unit malfunction	2. Contact your provider and switch to your reserve oxygen system.
Battery Status Lights Never Indicate Fully Charged	1. Using the DC auto adapter but there is not enough power to fully charge battery.	1. Battery will not charge if plugged into power source less than 13.8V but the device will function correctly.
Yellow Low O_2 symbol is On and/or Red Service Required light is On	1. Contaminated Sieve Beds	1. Run the unit for at least 15 minutes to recover sieve beds to full potential.
		2. Replace sieve beds.
If any other problems occur with your iGo2 POC.		1. Turn your unit Off and switch to your reserve oxygen system. Contact your Drive DeVilbiss provider immediately.

TROUBLESHOOTING AND ALARM SYSTEM

Overview of Alarms

This device contains an alarm system which monitors the state of the device and alerts of abnormal operation, loss of essential performance or failures. Alarm conditions are shown on the LCD display. The alarm system functions are tested at power up by lighting all visual alarm indicators and sounding the audible alarm (beep). All alarms are Low Priority Technical Alarms.

To mute the Audible Alarm, press and release power button. The Alarm Silenced symbol will appear on the display until the alarm condition is corrected.

Alarm Condition	Display Shows	Visual Alarm Signal Meaning	Audible Alarm Signal	Visual Alarm Signal Cleared by	Action to take
Battery nears depletion	 Flashing	Battery is <10%	Yes, when battery is < 5%	Turn off device or switch to alternate power source	Charge battery, change battery, or switch to alternate power source
Low Oxygen Concentration		Oxygen concentration is <86%	Yes, if oxygen drops below 85%	Turn unit off unless the device is still in startup period	Call provider and switch to reserve oxygen.
Start-up period		Device and systems are tested at power up	No	Once oxygen reaches at least 86%	Wait until startup is finished (up to 10 minutes)
Malfunction		RED Service Required symbol flashes indicating malfunction	Yes	Turn unit off	Call provider and switch to reserve oxygen.
No Breathing Detected	None	More than 60 seconds between requested dispense cycles.	Yes	Turn unit off or breathe on device.	Resume breathing. If no breathing is detected, device will go into AutoBreath™ mode and dispense oxygen at regular intervals until breathing is detected again.

COMPONENT DESCRIPTION AND FUNCTION

Accumulator Manifold

The accumulator manifold is mounted beneath the sieve beds and accumulator tank. It includes two check valves that are located between the outlet of each sieve bed and the accumulator tank. These check valves allow oxygen to pass from the sieve beds to the accumulator tank, but prevent the reverse flow of oxygen from the accumulator to the sieve beds.

Accumulator Tank

The accumulator tank holds the concentrated oxygen and releases it to the patient at a specified liter flow.

Battery

The iGo2 uses a rechargeable lithium ion battery of 11.25 nominal volts, 6.4 amp-hours of total capacity and allows the iGo2 to operate free of connection to an external power source. The iGo2 concentrator will operate for a minimum of 3.5 hours at a setting of 2 at 20 BPM (breaths per minute) using a new fully charged battery. However, a variety of factors such as age of battery and flow rate, can impact the duration of operating time.

After 300 charge/discharge cycles, the battery's capacity may drop to about 75% of the original capacity; in this case, you can expect up to 2.5 hours of runtime at a setting of 2 and 20 BPM.

Battery will charge in less than 3 hours from fully discharged state with device off and plugged into AC power; or less than 4 hours when using DC power. While using the concentrator, charge time will be less than 5 hours from fully discharged state using either AC or DC power.

Compressor

A dual-head compressor creates pressure and vacuum simultaneously and is driven from a single brushless DC motor. The motor speed is regulated by the printed circuit board.

Cooling Fan

The cooling fan provides a constant air flow to cool the compressor. A defective cooling fan may cause the compressor's internal thermo-protective (thermal cut off) device to activate and shut the compressor off. Should this condition occur the compressor will require several minutes for the thermo-protective device to reset.

Dispense Valve

The dispense valve ensures that the selected flow rate is delivered (pulsed) to the patient at each inhalation. When the PC board detects breathing it activates or briefly opens the dispense valve to deliver the correct bolus of oxygen for the selected flow rate at the beginning of inhalation.

Final Bacteria Filter

The final bacteria filter is located inside the oxygen outlet port. It prevents contaminants from reaching the patient through the oxygen supply.

Intake Filter (compressor silencer)

The intake filter/silencer filters the air drawn into the compressor removing particulate matter and also reduces the sound of the intake.

Molecular Sieve Beds

Molecular sieve beds contain a synthetic alumino-silicate that attracts and holds nitrogen in a magnetic bond. Two molecular sieve beds work in tandem: one bed removes nitrogen from the air passing through it while the other bed releases the removed nitrogen back into the room air.

Moisture or hydrocarbons contaminate molecular sieve material causing it to lose its nitrogen adsorbing properties, which in turn decreases the oxygen concentration. To allow the iGo2 to exhaust these possible contaminants and for optimal service life it is recommended that the unit is operated for a minimum of 30 minutes after it is powered on.

Shorter periods of operation, operating in extreme temperature/humidity conditions or in the presence of contaminates, and/or handling and storage conditions outside those specified, may affect the long term reliable operation of the product.

Printed Circuit Board

The printed circuit (PC) board monitors and controls the operation of the iGo2. It cycles pressure and vacuum between the two sieve beds and initiates visible and audible alerts if abnormal operation is detected. The oxygen sensing device (OSD®) is located on, and controlled by, the PC board.

Purge Valve

Before the switching manifold cycles pressure and vacuum to alternate sieve beds, the PC board activates the purge valve briefly. During this time, the purge valve sends oxygen from the pressurizing bed to the evacuating bed breaking any remaining nitrogen bonds and cleaning the bed in preparation for its upcoming pressure cycle.

Switching Manifold

The switching manifold directs the pressure and vacuum created in the compressor to the two sieve beds in alternating cycles. The cycle shift is controlled by the PC board and occurs when a predetermined pressure is reached in the accumulator tank.

POC SERVICING AND COMPONENT REPLACEMENT

The 125 series POC requires no routine maintenance or servicing and there is no specific testing required. However oxygen concentration and inspiratory trigger sensitivity can be checked if necessary. See page 19 for instructions on testing O_2% and trigger sensitivity.

There are a limited number of components that are serviceable or replaceable in the field. This section includes step-by-step instructions for removal and replacement of these components.

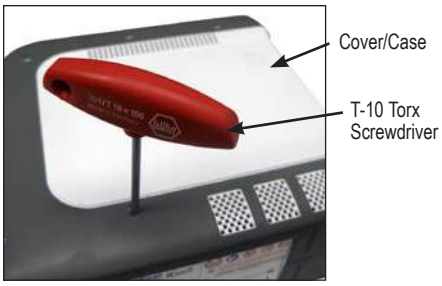
Tools and Equipment Needed:

- T-10 Torx driver
- 5/16" Hollow core socket
- Oxygen analyzer
- Narrow bladed flat head screwdriver

Cover

To remove and replace cover:

1. Ensure that all power is removed from the unit including battery.
2. Lay the POC on its side with the battery cavity to the right side and the USB port facing upward.
3. Using a T-10 torx screwdriver remove the 6 screws securing the cover.

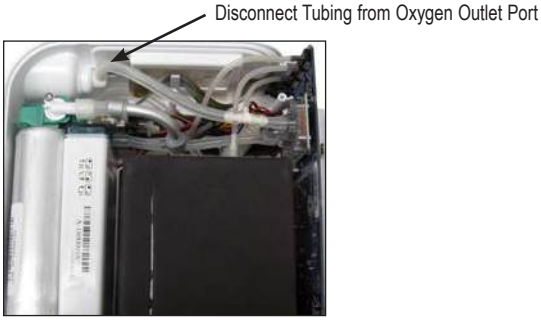


4. Carefully lift the cover off the unit and place it aside.
5. Replace the cover by placing it on top of the unit and secure with 6 screws (torque to 7 in-lbs).

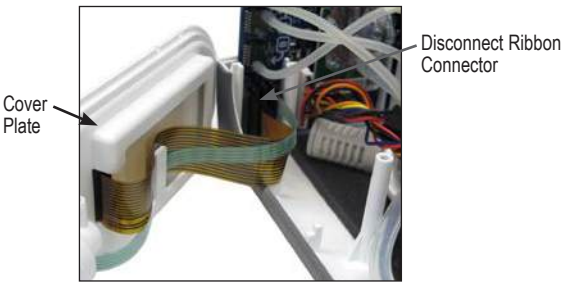
Control Panel Label

To remove and replace control panel label:

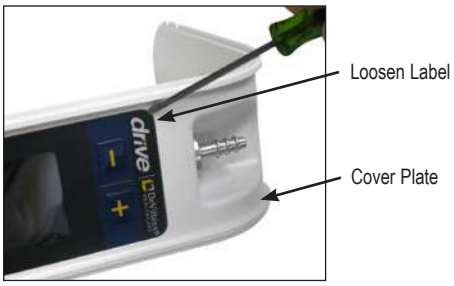
1. Ensure that all power is removed from the unit including battery.
2. Remove cover from unit.
3. Disconnect the silicone oxygen tubing from the back of the oxygen outlet port.



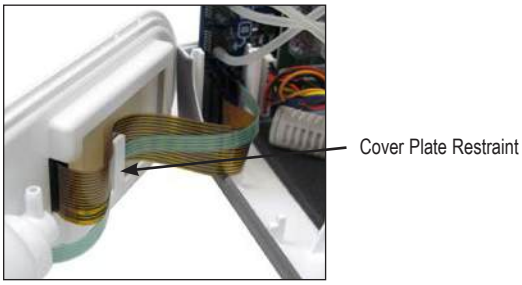
4. Lift cover plate up and out of case. Place it beside unit.
5. Disconnect both the keypad (green) and LCD display (gold) ribbon connectors from the pc board.



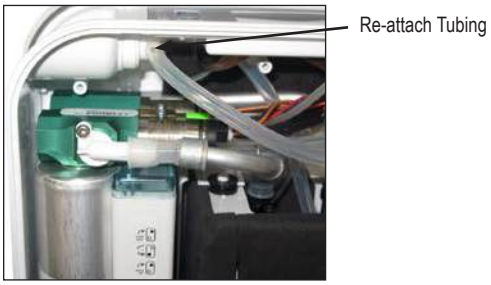
6. Loosen control panel label with a small instrument such as a narrow bladed flat head screwdriver and remove from cover plate.



7. Remove backing and any back film from the new control panel label.
8. Slide the end of the ribbon connector through the hole in the cover plate.
9. Align the label and seat it into place on the cover plate on top of the LCD display.
10. Attach both the keypad and LCD display ribbon connectors to the pc board.
11. Secure ribbons using plate restraint.



12. Position cover plate in case.
13. Re-attach the silicone oxygen tubing to the back of the oxygen port.



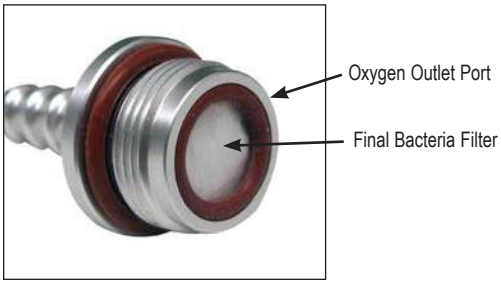
14. Replace cover.

Oxygen Outlet Port and Final Bacteria Filter

To remove and replace oxygen outlet port and final bacteria filter:

1. Ensure that all power is removed from the unit including battery.
2. Using a 5/16" hollow core socket unscrew the oxygen outlet port by turning counterclockwise and remove it from the unit.

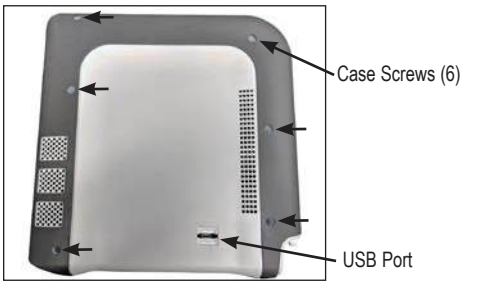
3. Install the new outlet port with final bacteria filter by turning clockwise (torque to 9-10 in-lbs).



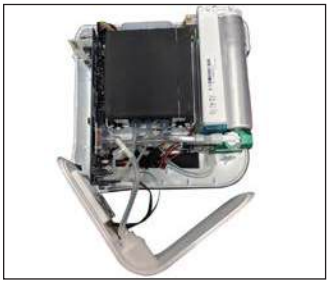
Sieve Beds

To remove and replace sieve beds:

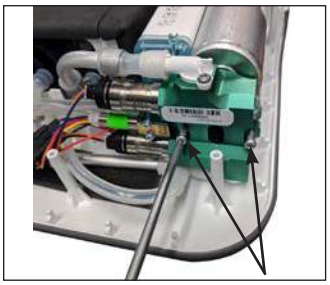
1. Ensure that all power is removed from the unit including battery.
2. Lay the unit on its side with the USB port facing upward.
3. Using a T-10 torx screwdriver, remove all 6 screws from the side case and remove the case cover from unit.



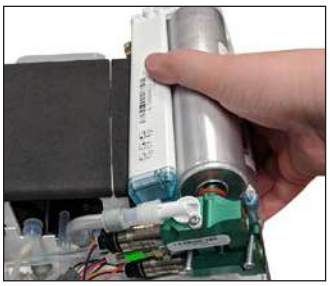
4. Carefully lift the front display cover plate up and out of case. Place it beside unit.



5. Using a T-10 torx screwdriver, loosen the 2 screws at the top of the valve manifold of the sieve bed module.



6. Lift sieve bed module up several inches out of the retaining catches and remove the valve manifold from the top of the sieve beds.

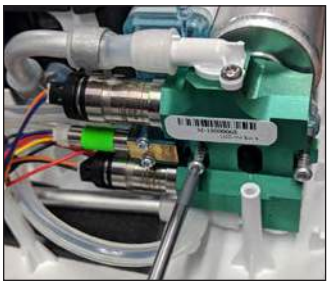


7. Remove and discard the original sieve beds and all four rubber O-Rings located at the top and bottom of each sieve bed.
   NOTE– *The O-Rings may remain on the valve manifold or in the recesses of the accumulator tank.*

8. Uncap two new sieve beds and seat the bottom O-Rings (larger O-Rings) on the bottom of each sieve bed, and the top O-Rings on the aluminum manifold (smaller O-Rings). **NOTE–** *4 O-Rings are included with each sieve bed package.*

9. Place sieve beds over accumulator tank assembly ports. Then rotate beds until the bed is fully seated into position and so the serial number is viewable. Be careful to prevent pinching the O-Rings during assembly.

10. Gently lift the sieve beds and accumulator tank upwards to re-insert the manifold onto the top of the sieve beds. Rotate the sieve beds slightly while inserting to prevent pinching of the O-Rings.
11. Re-install the 2 manifold screws (torque to 6-8 in-lbs).



12. Lift the front display cover plate back into the slots of the side case.

13. Ensure that no hoses or wiring harnesses are pinched and place the side cover back onto the unit.
14. Re-install the 6 case screws (torque to 7 in-lbs).
15. Re-install the battery into the unit.

Testing Oxygen Concentration

To test oxygen concentration:

1. Turn on the POC and adjust the oxygen delivery setting to 5.
2. Allow the unit to run approximately 60 seconds until it goes into the AutoBreath™ mode. This is indicated by a flashing oxygen symbol (low or normal) on the display every 3 seconds accompanied by an audible beep every 15 seconds.

NOTE– *Pressing the power button will silence the audible alarm.*

3. If the oxygen is low the yellow down arrow will flash and if the oxygen is normal the green check mark will flash. It may take 1 or 2 minutes for the oxygen concentration to reach specification.
4. When the normal oxygen symbol starts flashing the oxygen level has reached specification and may be tested.
5. Attach a calibrated oxygen analyzer to the outlet port. Allow the oxygen concentration to stabilize on the analyzer before taking a final reading.

Testing Inspiratory Trigger Sensitivity

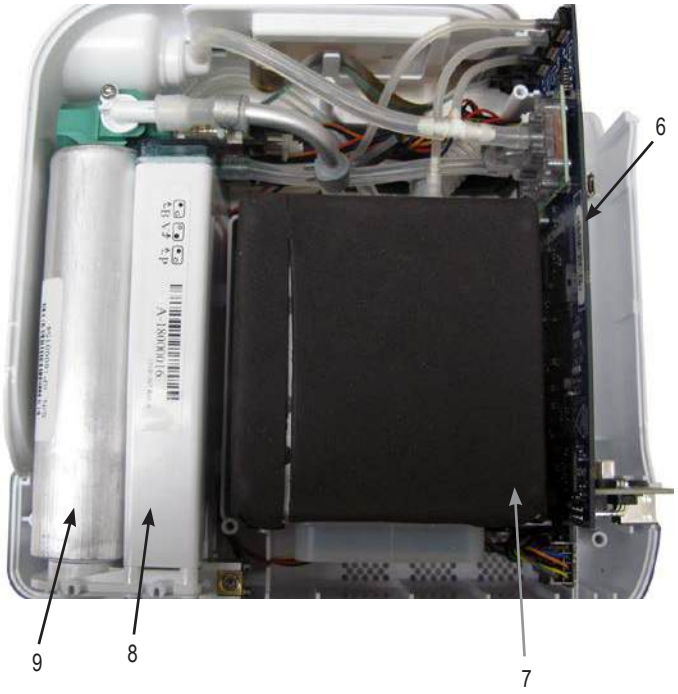
To test inspiratory trigger sensitivity:

1. Turn on the POC and adjust the oxygen delivery setting to 5.
2. Attach a standard oxygen cannula to the outlet port.
3. Pinch the tubing for 3 -4 seconds then release it and feel if a dose (oxygen bolus) is delivered at the cannula nasal prongs. The green normal oxygen symbol will also blink when a dose is delivered.
4. Testing may also be done at other flow settings if desired.
5. If the unit does not deliver a pulse of oxygen when the tubing is pinched and released or if you suspect an issue with the units' sensitivity, return the unit for servicing.

125 PORTABLE OXYGEN CONCENTRATOR VIEWS

POC with Power Accessories

Final Bacteria Filter
(included with outlet port)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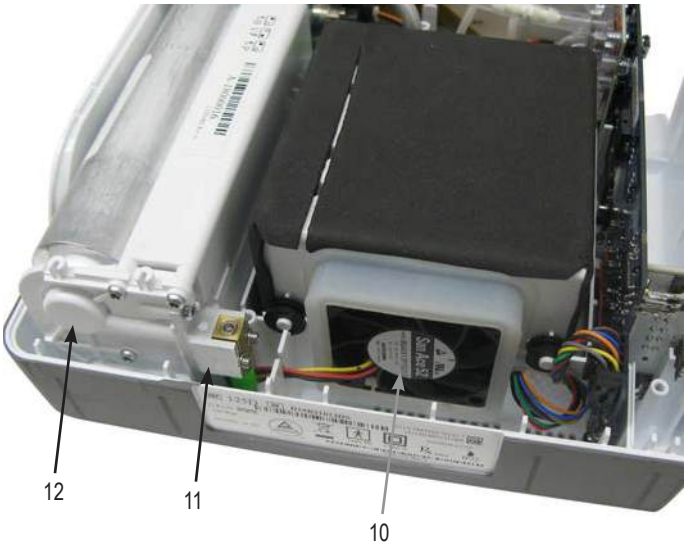
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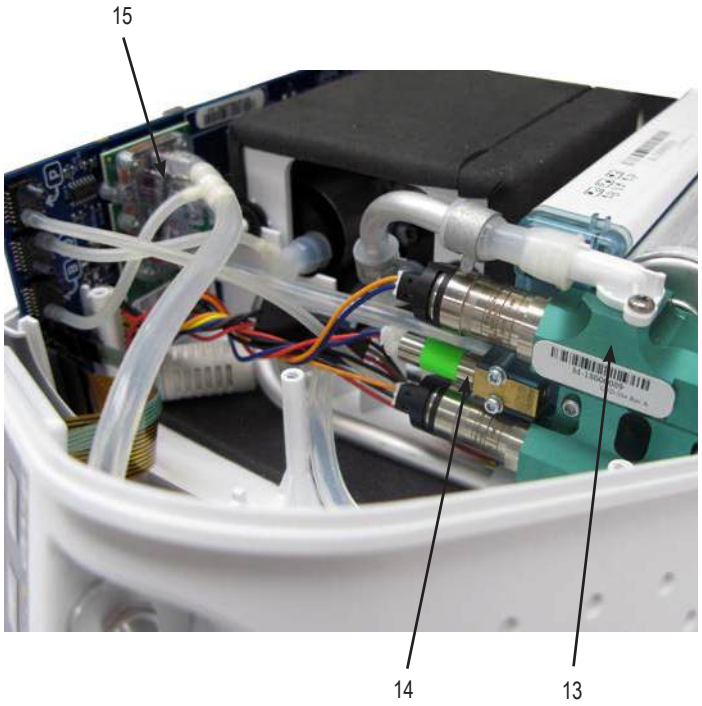
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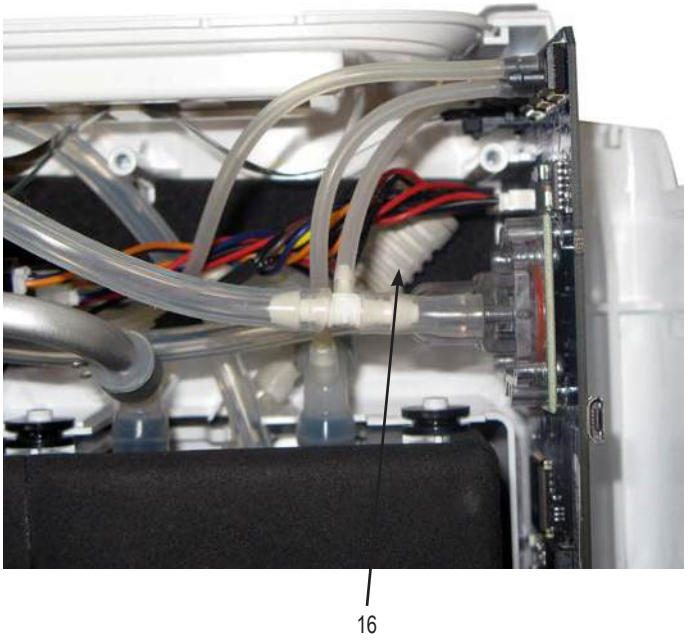
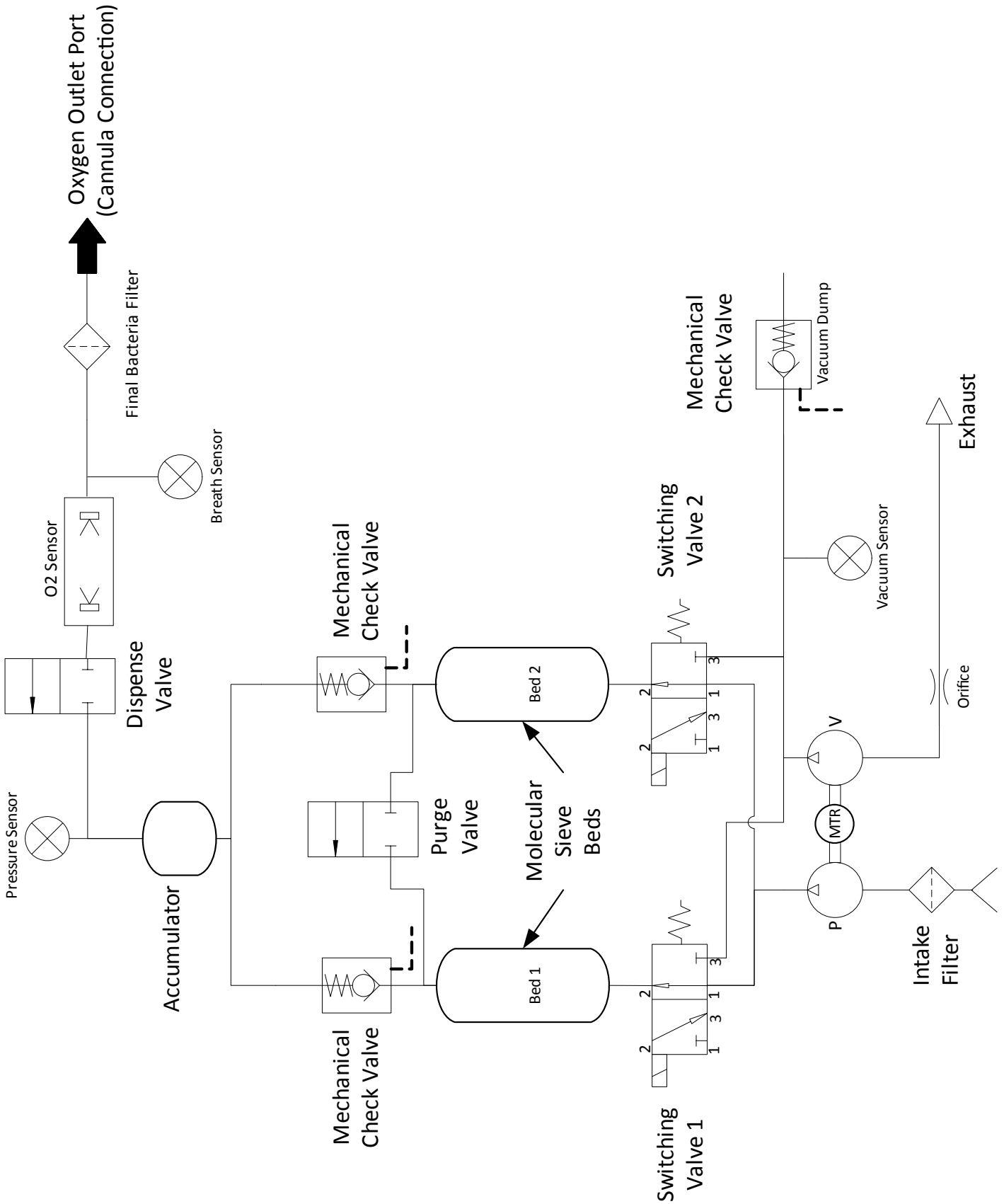

16

PARTS AND ACCESSORIES

125 POC		
	Part Description	**Part #**
1	Oxygen Outlet Port w/Bacteria Filter	125D-610
2	Control Panel Label	125D-623
3	Cover Plate	N/A
4	Case Screws (6)	125D-621
5	Cover/Case	N/A
6	Printed Circuit Board	N/A
7	Compressor	N/A
8	Accumulator Tank	N/A
9	Sieve Beds	125D-619
10	Cooling Fan	N/A
11	Purge Valve	N/A
12	Accumulator Manifold	N/A
13	Switching Manifold	N/A
14	Dispense Valve	N/A
15	OSD (oxygen sensing device)	N/A
16	Intake Filter (Compressor Silencer)	N/A
ACCESSORIES		
17	Battery	125D-613
18	Power Supply (120 Watt)	DV68-620
19	AC Power Cord - USA	DV51D-606
20	AC Power Cord – CE	DV51D-607
21	AC Power Cord - UK	DV51D-608
22	AC Power Cord – Australia	DV51D-609
23	AC Power Cord - China	DV51D-614
24	DC Power Cord	DV6X-619
	External Battery Charger – US	125CH-613
	External Battery Charger – CE	125CH-614
	External Battery Charger - UK	125CH-615
	Carrying Case	125D-670

There are many types of oxygen tubing and cannulas. Certain accessories may impair the device's performance. Use only standard nasal cannula with 25' or less of crush-proof oxygen tubing with this concentrator. Do not use pediatric (low-flow) nasal cannula or mask. Your homecare provider should also give you advice on the proper usage, maintenance, and cleaning.

PNEUMATIC DIAGRAM



ORDERING INFORMATION

When ordering components, instruction guides, or service manuals the following must be provided:

- Unit Catalog Number
- Unit Serial Number
- Part Number
- Quantity Required

Drive DeVilbiss iGo2 Portable Oxygen Concentrator Instruction Guide:

•	A-125	125D, 125K & 125A	English, Spanish, French
•	SE-125-1	125D, 125K & 125A	English, Spanish, French
•	SE-125-2	125D, 125K & 125A	German, Italian, Netherlands, Portuguese, Greek, Polish
•	SE-125-3	125D, 125K & 125A	Arabic, Hindi, Russian, Turkish
•	SE-125-4	125D, 125K & 125A	Danish, Finnish, Norwegian, Swedish
•	SE-125-5	125D, 125K & 125A	Japanese, Chinese (Simplified), Chinese (Traditional)

Drive DeVilbiss iGo Portable Oxygen Concentrator Service Manual:

•	LT-2334	125D, 125K & 125A	English

Orders may be placed by calling:

•	Customer Service	800-338-1988
•	International Department	814-443-4881
•	Europe	+49 (0) 621-178-98-0

Return of Units

Before returning units to the factory, call the Drive DeVilbiss Healthcare Customer Service Department (800-338-1988) or (814-443-4881) to obtain a return authorization number. Include in the package a note indicating the return authorization number along with your company name, address, phone number, and account number. The return authorization number should also be written on the outside of the package.

To expedite your order for non-warranty parts, the following information should be given to the representative:

- Catalog number
- Serial number
- Hour meter reading for each concentrator
- Account number
- Company name and address
- Description of problem

SPECIFICATIONS

Dimensions (H x W x L) ..... 8.4"H x 3.5"W x 8.6"L (21.3 cm x 8.9 cm x 21.8 cm)
Weight ..... 4.95 ± 0.1 lb. (2.25 ± 0.05 kg)
Oxygen Output ..... 90% + 4/-3 over entire operating range
Oxygen Prescription Settings ..... 1 to 5
Operating Temperature Range ..... +5 °C to +35 °C (+41 °F to +95 °F)
Operating Humidity Range ..... 15 % to 93 %, non-condensing
Operating Atmospheric Pressure Range ..... 700 hPa to 1060 hPa (up to 10,000 feet)
Transport & Storage Temperature Range ..... - 20 °C (-4 °F) without relative humidity control to +60 °C (+140 °F) at a relative humidity up to 93%, non-condensing
Transport & Storage Humidity Range ..... 15% to 93% non-condensing
Transportation and Storage Atmospheric Pressure (at nominal temperature and humidity) ..... 640 hPA - 1060 hPA
Inspiratory Trigger Sensitivity ..... 0.05 cmH_20
Maximum Limited Pressure ..... 24 psi
Maximum Breathing Rate ..... 40 BPM
Sound Level ..... < 37 dBA at setting 2 and 20 BPM
(when measured at 1 m from front of device)
Measured Sound Pressure Level (ISO 80601-2-69:2014) ..... < 40 dBA
Measured Sound Power Level (ISO 80601-2-69:2014) ..... < 48 dBA
Measured Sound Pressure Level Range of Alarm (IEC 60601-1-8:2012) ..... > 59 dBA

Power Quality Requirements

AC Mains Input ..... 100-240 VAC, 50/60 Hz, 140 VA
DC Input ..... 13.8 to 17 VDC
The battery will charge as long as the DC input voltage is higher than the battery voltage. The device will charge the battery to full capacity if the DC input is at or above 13.8V DC.
OSD Set Points ..... ≥ 86% - Normal Oxygen Symbol (Green)
< 86% - Low Oxygen Symbol (Yellow)
< 85% - Service Required Symbol (red) and Audible Alert
Device Classification ..... Class 2, Type BF Applied Part, IP22

The Drive DeVilbiss iGo2 Portable Oxygen Concentrator meets RTCA DO-160G Section 21 Category M and Section 20 Category T Airline Use.
Patented Breath Sensing with SmartDose Technology – US 8061353
Patented PulseDose Technology – US 4519387 and US 4457303

CAUTION

When moving the iGo2 POC from an extreme environment, allow time for the device to acclimate to the recommended operating environment. Operating your concentrator outside the recommended operating environment may impact performance, cause damage, and will void the warranty.

Specifications subject to change without notice.

Audible Alerts:

- Low Battery
- Low Oxygen Output
- No Breath Detected
- Unit Malfunction

Table 1 – Standard and SmartDose® Mode PulseDose® Output

Standard and SmartDose Mode Oxygen Bolus Dispense Table				
Setting	Fixed Minute Volume per Setting (ml)	Bolus Volume @ 10 BPM (ml)	Bolus Volume @ 20 BPM (ml)	Bolus Volume @ 25 BPM (ml)
1	260	26.0	13.0	10.4
2	440	44.0	22.0	17.6
3	725	72.5	36.3	29.0
4	880	88.0	44.0	35.2
5	1014	101.4	50.7	40.6

Per ISO 80601-2-67

+/-15% at Standard Temperature and Pressure (tested @~933 hPa, 25 ˚C +/- 5 ˚C)

+/-25% over entire operating range

The above chart shows oxygen output delivered at each of the settings during normal use. When SmartDose technology senses the need for more oxygen, your oxygen setting will temporarily be increased by up to 1 setting to help keep you active and saturated.

ELECTROMAGNETIC COMPATIBILITY INFORMATION

If the device performance is lost or degraded due to electromagnetic disturbances, a visual and audible alarm indicates that the device is not meeting specification or a failure has been detected.

WARNING

MR Unsafe

Do not bring the device or accessories into a Magnetic Resonance (MR) environment as it may cause unacceptable risk to the patient or damage to the iGo2 or MR medical devices. The device and accessories have not been evaluated for safety in an MR environment.

Do not use the device or accessories in an environment with electromagnetic equipment such as CT scanners, Diathermy, RFID and electromagnetic security systems (metal detectors) as it may cause unacceptable risk to the patient or damage to the iGo2. Some electromagnetic sources may not be apparent, if you notice any unexplained changes in the performance of this device, if it is making unusual or harsh sounds, disconnect the power cord and discontinue use. Contact your home care provider.

This device is suitable for use in home and healthcare environments except for near active HF SURGICAL EQUIPMENT and the RF shielded room of an ME SYSTEM for magnetic resonance imaging, where the intensity of Electromagnetic DISTURBANCES is high.

WARNING

Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.

Cables and maximum lengths of cables

- DC power cord (cigarette lighter adapter) #DV6X-619 maximum length = 2.2 meter (7.2 ft)

WARNING

Use of accessories and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.

WARNING

Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the iGo2, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

ELECTROMAGNETIC COMPATIBILITY INFORMATION

Electromagnetic Compatibility Compliance Levels

TEST DESCRIPTION	SPECIFICATION	NOTES	RESULTS
IEC 60601-1-2:2014 (4th Edition) / CISPR 11 / FCC Part 15 / RTCA/DO-160G / EN 55011:2010			
Conducted Emissions	EN 55011:2009+A1:2010	Class B 150kHz – 30MHz	Complies
Conducted Emissions	FCC Part 15, Subpart B	Class B 150kHz – 30MHz	Complies
Radiated Emissions	CISPR 11 / EN 55011:2009+A1:2010	Class B 30MHz – 1GHz	Complies
Radiated Emissions	FCC Part 15, Subpart B	Class B 150kHz – 30MHz	Complies
Harmonic Current Emissions	EN 61000-3-2:2014	AC Input ≤16Amps	Complies
Voltage Fluctuations & Flicker	EN 61000-3-3:2013	AC Input ≤16Amps	Complies
Electrostatic Discharge Immunity	EN 61000-4-2:2008	±2kV, ±4kV, ±8kV, ±15kV (Air) 8kV (Contact)	Complies
Radiated Electromagnetic Field Immunity	EN 61000-4-3:2010	80MHz to 2.7GHz @ 10V/m; 80% AM at 1kHz	Complies
Proximity Fields from RF Wireless	EN 61000-4-3:2010	385 MHz – 5785 MHz Pulse Modulation @ 18Hz and 217 Hz Test Levels 9V/m and 28V/m	Complies
Fast Transient/Burst Immunity	EN 61000-4-4:2012	±2kV for Power Lines & ±1kV for I/O Lines	Complies
Surge Immunity	EN 61000-4-5:2014	±0.5kV, ±1kV & ±2kV (L-PE and N-PE) and ±0.5kV & ±1kV (L-N) @ 0°, 90° and 270°	Complies
Conducted RF Immunity	EN 61000-4-6:2013	150kHz to 80MHz @ 3Vrms 6V in ISM and Amateur Radio bands between 150kHz-80MHz 80% AM at 1kHz	Complies
Magnetic Field Immunity	EN 61000-4-8:2009	30A/m @ 50Hz & 60Hz	Complies
Voltage Dips, Short Interruptions & Variations	EN 61000-4-11:2010	>95%/0.5 cycle 60%/5 cycles 30%/25 cycles >95%/5 seconds	Complies
Radiated Susceptibility	RTCA/DO-160G	Category M	Complies

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LT-2334 Rev. A