



drive

DeVilbiss
HEALTHCARE

1025 Series
Serie de 1025
Série 1025



CE 0044

EN Drive DeVilbiss® 10-Liter Oxygen Concentrator Instruction Guide

WARNING—Read instruction guide before operating this equipment.

ASSEMBLED IN USA



NO SMOKING

R_x ONLY



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WARNING

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

Physician Information

Physician Name: _____

Telephone: _____

Address: _____

Prescription Information

Name: _____

Oxygen liters per minute

at rest: _____ during activity: _____ other: _____

Oxygen use per day

Hours: _____ Minutes: _____

Comments: _____

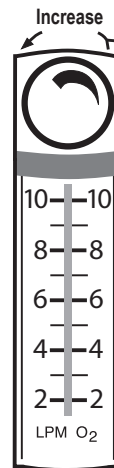
Drive DeVilbiss 10-Liter Oxygen Concentrator w/OSD Serial Number: _____

Drive DeVilbiss Equipment Provider Information

Set-Up Person: _____

This instruction guide was reviewed with me, and I have been instructed on the safe use and care of the Drive DeVilbiss Oxygen Concentrator.




















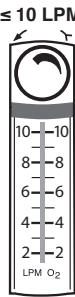











Signature: _____ Date: _____



DeVilbiss 10-Liter Series





SYMBOL DEFINITIONS


	It is mandatory to read and understand the operating instructions prior to use. i This symbol has a blue background on the product label.		Off On		LOT Number		Federal (U.S.A.) law restricts this device to sale by or on the order of a physician.
	Electric Shock Hazard. Cabinet to be removed by authorized personnel only. i This symbol has a yellow background on the product label.		Reset		Catalog Number		Manufacturer
	Danger - No smoking near patient or device. i This symbol has a red circle and diagonal bar on the product label.		Alternating Current		Serial Number		European Representative
	Use no Oil, Grease or Lubricants i This symbol has a red circle and diagonal bar on the product label.		Type B applied part		Normal Oxygen		European Rep CE mark
	Do not use near heat or open flames i This symbol has a red circle and diagonal bar on the product label.		Double Insulated		Low Oxygen		Maximum recommended flow rate: 10 LPM
	General Warning i This symbol is used throughout this manual to indicate hazardous situations to avoid.		Hour Meter		Service Required		
	Important Information i This symbol is used throughout this manual to indicate important information you should know.		Operating Temperature Range +5 to +35°C (+41 to +95°F)		TUV Rheinland C-US approval mark		
	Note and Information Symbol i This symbol is used throughout this manual to indicate notes, useful tips, recommendations and information.		Atmospheric Pressure Range 840 to 1010 hPa (Approximate sea level to 5000 ft)		TUV Rheinland Certified approval mark		
	Ingress Protection - Protected against finger access to hazardous parts; protected against vertically falling water drops.						
	This device contains electrical and/or electronic equipment that must be recycled per EU Directive 2012/19/EU- Waste Electrical and Electronic Equipment (WEEE)						

IMPORTANT SAFEGUARDS


Read this entire guide before using your DeVilbiss 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.

 **NOTE**
Indicates notes, useful tips, recommendations, and information.

READ ALL INSTRUCTIONS BEFORE USING.



DANGER

- Oxygen causes rapid burning. Do not smoke while your oxygen concentrator is operating, or when you are near a person utilizing oxygen therapy.
- 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.
 - 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.
- 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.
- Keep the oxygen concentrator and cannula at least 2 m (6.5 feet) from hot, sparking objects or naked sources of flame.
- Open flames during oxygen therapy are dangerous and are likely to result in fire or death. Do not allow open flames within 2 m (6.5 feet) of the oxygen concentrator or any oxygen carrying accessories.
- Drive DeVilbiss oxygen concentrators are equipped with a fire mitigating outlet fitting that prevents propagation of fire into the unit.



WARNING

- To avoid electric shock, do not plug the concentrator into an AC outlet if the concentrator cabinet is broken. Do not remove the concentrator cabinet. The cabinet should only be removed by a qualified Drive DeVilbiss technician. Do not apply liquid directly to the cabinet or utilize any petroleum-based solvents or cleaning agents.
- 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.
- Ensure the mains power cord is fully inserted into the concentrator connector (230 volt units) and the power cord plug is completely inserted into a fully functioning AC wall outlet. Failure to do so may cause an electrical safety hazard.
- The use of a fire stop device as part of the oxygen accessories is optional, and is not contraindicated for use with this device. If used with the oxygen accessories, the fire stop device should be located as close to the patient as practicable.
- Locate oxygen tubing and power supply cords to prevent tripping hazards and reduce the possibility of entanglement or strangulation.
- Do not lubricate fittings, connections, tubing or other accessories of the oxygen concentrator to avoid the risk of fire and burns.
- Do NOT use lubricants, oils or grease.
- Before attempting any cleaning procedures, turn the unit "Off."
- 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.
- Use only spare parts recommended by the manufacturer to ensure proper function and to avoid the risk of fire and burns.
- When using the Transfiller Caddy with a Transfill device, always keep the system on a flat surface. Disassemble the system prior to moving.
- 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 5000 feet (1524 meters) or above a temperature of 95°F (35°C) or greater than 93% relative humidity may affect the flow rate and the percentage of oxygen and consequently the quality of the therapy. Refer to specifications for details regarding parameters tested.
- To ensure you receive the therapeutic amount of oxygen delivery according to your medical condition, the 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.
- Your delivery settings of the oxygen concentrator should be periodically reassessed for the effectiveness of therapy.
- For your safety, the oxygen concentrator must be used according to the prescription determined by your physician.
- Under certain circumstances, oxygen therapy can be hazardous. Seek medical advice before using an oxygen concentrator.



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 oxygen concentrator 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 oxygen concentrator. 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.
- 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 oxygen concentrator, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.



CAUTION

- It is very important to follow your oxygen prescription. Do not increase or decrease the flow of oxygen – consult your physician.
- To prevent product damage, do not attempt to operate the unit without the air filter, or while the filter is still damp.
- The surface temperature of the exhaust vents on the bottom of the unit may exceed 105.8°F (41°C) under certain conditions.
- When device is used under extreme operating conditions, the temperature near the exhaust vents on the bottom of the unit may reach 138.2°F (59°C). Keep body parts a minimum of 30" (76.2 cm) away from this area.
- 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.



IMPORTANT

- It is recommended that the homecare provider lock the flow control knob to prevent inadvertent adjustment. A flow setting other than prescribed may affect the patient therapy.
- Do not service or clean this device while in use with a Patient.
- Do not use a low-output flow meter with this concentrator.
- The Device is classified as IP21 which means it is protected against finger access to hazardous parts and protected against vertically falling water drops.
- Equipment not suitable for use in the presence of a flammable anesthetic mixture with air or with oxygen or nitrous oxide.
- This device contains electrical and/or electronic equipment. Follow local governing ordinances and recycling plans regarding disposal of device components.

SAVE THESE INSTRUCTIONS.

INTRODUCTION

This instruction guide will acquaint you with your Drive DeVilbiss 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 your Drive DeVilbiss equipment provider should you have any questions.

Intended Use

The Drive DeVilbiss 10 Liter Oxygen Concentrator intended use is to provide supplemental low flow oxygen therapy for patients suffering from COPD, cardiovascular disease, and lung disorders. The oxygen concentrator is used in home type environments, homes, nursing homes, patient care facilities, etc.

Indications For Use

The Drive DeVilbiss 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.

Contraindications

The device is not intended to be life supporting or life sustaining.

Essential Performance

Essential Performance of the Oxygen Concentrator is to deliver a continuous flow of oxygen enriched gas. Visual and audible alarms indicate if the device is not meeting specification or a failure has been detected.

Service Life

The expected service life of the 1025 is 5 years of operation, when used in accordance with all manufacturer guidance for safe use, maintenance, storage, handling and general operation. 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.

Why Your Physician Prescribed Supplemental Oxygen

Today, many people suffer from heart, lung and other respiratory diseases. Many of these people can benefit from supplemental oxygen therapy. Your body requires a steady supply of oxygen to function properly. Your physician prescribed supplemental oxygen for you, because you are not getting enough oxygen from room air alone. Supplemental oxygen will increase the amount of oxygen that your body receives.

Supplemental oxygen is not addictive. Your physician prescribed a specific oxygen flow to improve symptoms such as headaches, drowsiness, confusion, fatigue or increased irritability. If these symptoms persist after you begin your supplemental oxygen program, consult your physician.

The oxygen delivery setting has to be determined for each patient individually with the configuration of the equipment to be used, including accessories.

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.

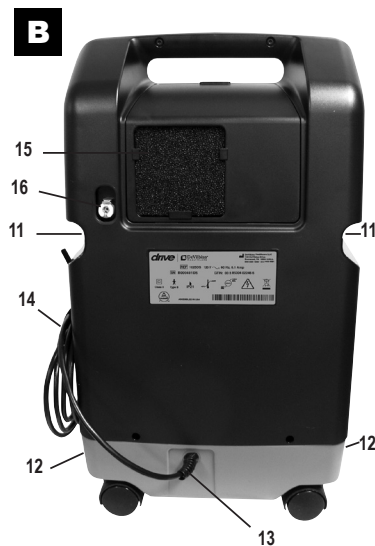
Your Delivery settings of the oxygen concentrator should be periodically reassessed for the effectiveness of therapy.

How Your Drive DeVilbiss 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.

IMPORTANT PARTS OF YOUR CONCENTRATOR

Please take time to familiarize yourself with your Drive DeVilbiss oxygen concentrator before operating.



Front View (Figure A)

1. Operating instructions
2. Power Switch
| = ON
O = OFF
3. Flow meter knob
4. Flow meter
5. Circuit breaker – resets the unit after electrical overload shutdown
6. Oxygen outlet – oxygen is dispersed through this port
7. Normal Oxygen (green) light (see page 8)
8. Low Oxygen (yellow) light (see page 8)
9. Red Service Required (red) light – when illuminated contact your DeVilbiss provider
10. Hour meter

Back View (Figure B)

11. Handgrip
12. Exhaust



CAUTION

When device is used under extreme operating conditions, the temperature near the exhaust vents on the bottom of the unit may reach 138.2°F (59°C). Keep body parts a minimum of 30" (76.2 cm) away from this area.

13. Power cord and/or IEC power connector.
14. Line cord strap
15. Air filter – prevents dirt, dust and lint from entering your unit.
16. Auxiliary Oxygen Port: Your concentrator is equipped with an auxiliary oxygen port that can be used to fill oxygen cylinders with an FDA-cleared cylinder filling device that is designed to use oxygen from a concentrator to fill a cylinder. The port is only for use with FDA-cleared filling devices with compatible oxygen input specifications. Refer to the cylinder filling device instruction guide for the oxygen input/output specifications, connection and operating instructions.

Accessories

Transfiller Caddy	DeVilbiss 525DD-650
High Flow (6-15 LPM) Bubble Humidifier.....	Salter Labs 7900 or equivalent
Low Flow (up to 6 LPM) Bubble Humidifier	Salter Labs 7600 or equivalent
High Flow Nasal Cannula.....	Salter Labs 1600HF or equivalent

There are many types of humidifiers, oxygen tubing and cannulas/masks that can be used with this device. Certain humidifiers and accessories may impair the device's performance. A mask or any nasal cannula can be used with continuous flow delivery and may be sized according to your prescription as recommended by your homecare provider who should also give you advice on the proper usage, maintenance and cleaning.



WARNING

When using the Transfiller Caddy with a Transfill device, always keep the system on a flat surface. Disassemble the system prior to moving.

- NOTE**– The device should only be used with bubble humidifiers that are designed for use with flows up to 10 liters per minute and 20 psi pressure.
- NOTE**– A maximum of 50 feet (15 meters) of crush-proof oxygen tubing, plus 7 feet (2.1 meters) of cannula, plus a bubble humidifier is allowed between the concentrator and the patient.
- NOTE**– Your healthcare provider should verify the compatibility of the oxygen concentrator and all of the parts used to connect to the patient before use.

SETTING UP YOUR OXYGEN CONCENTRATOR

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

NOTE– Do not connect to an electrical outlet controlled by a wall switch.



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 and cannula at least 2 m (6.5 feet) from hot, sparking objects or naked sources of flame.

2. Position your unit on a flat surface 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 in a well-ventilated area to avoid pollutants or fumes.
NOTE– To move the unit, firmly grasp the handle located on the top of the unit, rolling and/or lifting the unit over pathway obstacles.
3. Before operating your unit, always check to be sure the air filter (located on the back of your unit) is clean. Proper cleaning of this filter is discussed in the Caring For Your Concentrator section on page 8.
4. Attach the appropriate oxygen accessories to the oxygen outlet.

Oxygen Tubing Connection:

- a. Thread the supplied oxygen outlet connector onto the oxygen outlet.
- b. Attach the oxygen tubing directly to the connector (Figure 1).

Oxygen Tubing Connection With Humidification:

If your physician has prescribed an oxygen humidifier as part of your therapy, follow these steps (If using a prefill, go to step b.):

- a. Fill the humidifier bottle as per manufacturer's instructions.
- b. Thread the wing nut located on the top of the humidifier bottle to the oxygen outlet so that it is suspended (Figure 2). Make sure it is securely tightened.
- c. Attach the oxygen tubing directly to the humidifier bottle outlet fitting (Figure 3).

NOTE– Your physician has prescribed either a nasal cannula or face mask. In most cases, they are already attached to the oxygen tubing. If not, follow the manufacturer's instructions for attachment.

NOTE– Your healthcare provider should verify the compatibility of the oxygen concentrator and all of the parts used to connect to the patient before use.

5. 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

Ensure the mains power cord is fully inserted into the concentrator connector (230 volt units) and the power cord plug is completely inserted into a fully functioning AC wall outlet. Failure to do so may cause an electrical safety hazard.

NOTE– (only 120 volt units) The plug on the Drive DeVilbiss oxygen concentrator has one blade wider than the other. To reduce the risk of electric shock, this plug is intended to fit in a wall outlet only one way. Do not attempt to defeat this safety feature.

NOTE– To check your oxygen concentrator and accessories for proper operation; 1. Check the output flow by placing the end of the nasal cannula under the surface of a half-full cup of water and look for the bubbles. 2. Check the system for leaks by bending the nasal prongs over and squeeze tight to stop the flow of oxygen. Look at the flow meter to see that the indicator ball on the flow meter drops to zero. If the indicator ball does not drop to zero, check all connections for possible leaks. Parts to check for leaks are: tubing connections, humidifier bottle and other accessories like firebreaks. Repeat these steps until the flow meter ball drops to zero. Contact your provider or service supplier immediately if you encounter any problems.



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.

OPERATING YOUR DEVILBISS 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 and cannula at least 2 m (6.5 feet) from hot, sparking objects or naked sources of flame.

Drive DeVilbiss oxygen concentrators are equipped with a fire mitigating outlet fitting that prevents propagation of fire into the unit.

1. Press the power switch to the "On" position. When the unit is turned "On," all three lights (Service Required, Low Oxygen and Normal Oxygen) on the front panel will illuminate briefly and an audible signal will briefly alarm confirming that the LEDs and audible signal are functioning properly. The unit will then operate in "start up" mode with the Low Oxygen light lit until a normal oxygen level is achieved, at which time the Normal Oxygen light will remain lit. The "start up" may take up to 15 minutes.

NOTE– DeVilbiss recommends for optimal service life that the Drive DeVilbiss 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 contaminants, and/or handling and storage conditions outside those specified, may affect the long term reliable operation of the product.



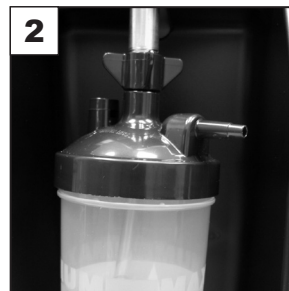
DANGER

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.

NOTE– If 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 9 and contact your Drive DeVilbiss provider if necessary.



**NO
SMOKING**



NOTE– If an audible low-frequency vibration sound is detected, the unit is not operating properly. Refer to the Minor Troubleshooting chart on page 9, and contact your Drive DeVilbiss provider if necessary.

- 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– Your Drive DeVilbiss provider may have preset the flow meter so that it cannot be adjusted.

NOTE– 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.

NOTE– For prescriptions of 10 LPM, be sure the ball is centered on the 10 liter line. The ball should not touch the red line. Setting the flow higher than 10 may cause the oxygen purity level to drop.

NOTE– The low-flow alarm may activate if the flow meter ball is set below 2 lpm. The unit will continue to run; however, the Service Required light will come on accompanied by an audible alarm. Adjust the flow meter to your prescribed flow.



IMPORTANT

Do not use a low-output flow meter with this concentrator.

- Your Drive DeVilbiss concentrator is now ready for use, properly position the cannula with the nasal prongs facing upward, insert the prongs into nose. Wrap the cannula tubing over the ears and position in front of body (Figure 4). Allow 15 minutes for the oxygen concentrator to reach stated performance.



DeVilbiss OSD® Operation

The OSD (Oxygen Sensing Device) is a device within your concentrator that monitors the oxygen produced by your unit.

The OSD lights on the top panel are defined as follows:

- Green Normal Oxygen light–acceptable oxygen level.
- Yellow Low Oxygen light– below an acceptable oxygen level.

If the oxygen purity falls below the acceptable level, the green Normal Oxygen light will shut off, and the yellow Low Oxygen light will illuminate. Switch to your reserve oxygen system. Refer to the Minor Troubleshooting section in this guide on page 9 and contact your Drive DeVilbiss provider.

As an added safety feature, should the oxygen purity continue to drop, an intermittent audible signal will sound. Contact your Drive DeVilbiss provider immediately. Do not attempt any other maintenance.

RESERVE OXYGEN SYSTEM

As a precaution, your Drive DeVilbiss provider 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 your Drive DeVilbiss provider.

CARING FOR YOUR DEVILBISS OXYGEN CONCENTRATOR

Drive DeVilbiss recommends using only original DeVilbiss parts and filters in order to guarantee reliable operation of the product.



WARNING

Do NOT use lubricants, oils or grease.
Before attempting any cleaning procedures, turn the unit “Off.”

Cannula/Mask, Tubing and Humidifier Bottle

Clean and replace the cannula/mask, tubing and humidifier bottle according to the manufacturer’s instructions.

Air Filter

The air filter should be inspected periodically and cleaned as needed by the user or caregiver. Replace if torn or damaged. To clean, these steps should be followed:

NOTE – Frequency of inspection and cleaning of filter may be dependent upon environmental conditions like dust and lint.

1. Remove the air filter, located on the back of the unit.
2. Wash in a solution of warm water and dishwashing detergent (Figure 5).
3. Rinse thoroughly with warm tap water and towel dry. The filter should be completely dry before reinstalling.



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

Clean the concentrator exterior cabinet weekly by using a damp cloth and wiping dry.

Cleaning

	Recommended cleaning interval	Number of cleaning cycles *	Compatible cleaning method
Outer Cabinet	7 days	260	Water, use only a damp cloth
Air Filter	7 days	104	Mild dish soap (2 tbsp) and warm water (2 cups)
Oxygen Outlet Connector	7 days	104	Mild dish soap (2 tbsp) and warm water (2 cups)

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



**WARNING**

To avoid electric shock, do not plug the concentrator into an AC outlet if the concentrator cabinet is broken. Do not remove the concentrator cabinet. The cabinet should only be removed by a qualified Drive DeVilbiss technician. Do not apply liquid directly to the cabinet or utilize any petroleum-based solvents or cleaning agents.

**CAUTION**

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.

TROUBLESHOOTING

The following troubleshooting chart will help you analyze and correct minor oxygen concentrator 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, do not plug the concentrator into an AC outlet if the concentrator cabinet is broken. Do not remove the concentrator cabinet. The cabinet should only be removed by a qualified Drive DeVilbiss technician.


Minor Troubleshooting Chart

SYMPTOM	POSSIBLE CAUSE	REMEDY
A. Unit does not operate. All lights are off when the power switch is "On." Audible alert is pulsing.	1. Power cord not properly inserted into wall outlet.	1. Check power cord connection at the wall outlet. On 230 volt units, also check the mains connection on the back of the unit.
	2. No power at wall outlet.	2. Check your home circuit breaker and reset if necessary. Use a different wall outlet if the situation occurs again.
	3. Oxygen concentrator circuit breaker activated.	3. Press the concentrator circuit breaker reset button located below the power switch. Use a different wall outlet if the situation occurs again. If the above remedies do not work, contact your Drive DeVilbiss provider.
B. Unit operates. Red Service Required light is illuminated. Audible alert may be sounding.	1. Air filter is blocked.	1. Check the air filter. If the filter is dirty, wash it following the cleaning instructions on page 8.
	2. Exhaust is blocked.	2. Check the exhaust area and make sure there is nothing restricting the unit exhaust.
	3. Blocked or defective cannula, face mask, or oxygen tubing.	3. Detach cannula 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.
	4. Blocked or defective humidifier bottle.	4. Detach the humidifier from the oxygen outlet. If proper flow is obtained, clean or replace humidifier.
	5. Flow meter set too low.	5. Set flow meter to prescribed flow rate. If the above remedies do not work, contact your Drive DeVilbiss provider.
C. Unit operates. Audible low-frequency vibration sound is detected.	1. Electronic Assembly Malfunction.	1. Turn your unit "Off." Switch to your reserve oxygen system and contact your Drive DeVilbiss provider immediately.
D. Yellow Low Oxygen light is on.	1. Unit in "start up" mode.	1. Allow unit up to 15 minutes to complete start up period.
E. The yellow Low Oxygen light is on and the intermittent audible signal is sounding.	1. Flow meter is not properly set.	1. Ensure the flow meter is properly set to the prescribed number. (The maximum flow meter setting is 6 LPM when an oxygen bottle is being filled with oxygen from the auxiliary port.)
	2. Air filter is blocked.	2. Check the air filter. If the filter is dirty, wash it following the cleaning instructions on page 8.
	3. Exhaust is blocked.	3. Check the exhaust area and make sure there is nothing restricting the unit exhaust. If the above remedies do not work, contact your Drive DeVilbiss provider.
F. Red Service Required light is on and an intermittent audible signal is sounding.	1. Flow meter is not properly set.	1. Ensure the flow meter is properly set to the prescribed number. (The maximum flow meter setting is 6 LPM when an oxygen bottle is being filled with oxygen from the auxiliary port.)
	2. Air filter is blocked.	2. Check the air filter. If the filter is dirty, wash it following the cleaning instructions on page 8.
	3. Exhaust is blocked.	3. Check the exhaust area and make sure there is nothing restricting the unit exhaust. If the above remedies do not work, contact your Drive DeVilbiss provider.
	4. Electronic Assembly Malfunction.	4. Contact your Drive DeVilbiss provider.
G. If any other problems occur with your oxygen concentrator.		1. Turn your unit "Off." Switch to your reserve oxygen system and contact your Drive DeVilbiss provider immediately.

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 LED 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.

Alarm Condition	LED Indicator	Visual Alarm Signal Meaning	Audible Alarm Signal	Visual Alarm Signal Cleared by	Action to take
Start-up Period	↓ O ₂	YELLOW Low O ₂ LED ON	No	After startup period, O ₂ reaches at least 86%	Wait for unit to finish startup period, up to 15 minutes
Low Oxygen Concentration	↓ O ₂	YELLOW Low O ₂ LED ON when O ₂ is <86%	Yes Before O ₂ drops below 82%	Turn unit off	See Troubleshooting table
Malfunction		RED Service Required LED ON	Yes	Turn unit off	Return unit to provider for service

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.

PROVIDER'S NOTES - Cleaning and Disinfection When There is a Patient Change

DeVilbiss Healthcare recommends that at least the following procedures be carried out by the manufacturer or a qualified third party between uses by different patients.

NOTE – If the following described complete processing of the concentrator by an appropriately trained individual is not possible, the device should not be used by another patient.

NOTE – If preventive maintenance is due at this time, these procedures should be carried out in addition to the servicing procedures.

- Use disinfectants safely. Always read the label and product information before use.
- Always wear personal protective equipment when performing this procedure. Use suitable gloves and safety glasses. Cover exposed skin on arms to prevent accidental contact with bleach solution that has been applied to the concentrator.
- Dispose of all accessories that are not suitable for reuse. This includes but may not be limited to the oxygen tubing, tubing connectors, nasal cannula and/or mask, oxygen outlet connector, and humidifier bottle.
- Clean the exterior of the concentrator with a clean lint-free cloth. Heavy soil should be removed with a clean lint-free cloth dampened with water. A soft bristled brush dampened with water can be used to remove stubborn soil. Dry the concentrator using a clean lint-free cloth if water was used to remove soil.
- Use 5.25% chlorine bleach (Clorox Regular Liquid Bleach or equivalent). Mix one (1) part bleach with four (4) parts water in an appropriate clean container. This ratio produces a one (1) part bleach to five (5) total parts solution (1:5). The total volume (amount) of solution required is determined by the number of concentrators in need of disinfection. **NOTE** – An alternate suitable disinfecting agent (e.g. Mikrobac® forte or Terralin® Protect) may also be used. Follow disinfectant manufacturer's instructions.
- Apply the bleach solution in an even manner to the cabinet and power cord using a clean lint-free cloth. The cloth should be dampened only and not dripping of solution. Do not use a spray bottle to apply the solution. Do not saturate the device with the solution. Take care that no solution enters the vent areas on the concentrator base or the Auxiliary O₂ fitting area on the back of the unit. Avoid over-saturating the cabinet seams so that no solution residue builds up in these areas. Avoid the caster wells located on the bottom of the unit.
- Exposure time of the disinfectant solution should be 10 minutes minimum to 15 minutes maximum.
- After the recommended exposure time, all surfaces of the concentrator should be wiped with a clean lint-free cloth dampened with drinking quality water no warmer than room temperature. Dry the unit with a dry, clean lint-free cloth. This is to remove residue that may stain or leave a film on the unit, especially after repeated disinfections.
- Check the cord, the plug on the back of the device, the power switch, the fuse holder, and the indicator lights for possible damage. Replace all damaged or worn components.
- Replace the cabinet air filter on the back of the device.
- Check the oxygen concentration. If the device is within specification, the extended life intake bacteria filter does not need to be replaced between patients. If the oxygen concentration is not within specification, the provider should refer to the service manual section on Troubleshooting.
- OPTIONAL INSIDE CLEANING: The concentrator must be disconnected from the power supply for this step: Open the concentrator and remove all dust deposits inside the cabinet with an appropriate vacuum cleaner. Close the concentrator.

NOTE – There is no portion of the gas pathways through the concentrator that could be contaminated with body fluids under normal conditions.

The device patient connection may unintentionally become contaminated with expired gases for a single fault condition i.e., a hose internal to the device becomes disconnected. This condition will cause no flow out of the device and/or an alarm condition. Should this occur, refer to the service manual for additional instructions.

Disinfection

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

	Recommended disinfection interval	Number of disinfection cycles	Compatible disinfection method
Cabinet, power cord	Between patients	20	1:5 chlorine bleach (5.25%) and water solution, Mikrobac forte, Terralin Protect
Oxygen tubing, tubing connectors, nasal cannula/mask, oxygen outlet connector, humidifier bottle, cabinet air filter	Do not clean, replace between patients	N/A	N/A
Optional - Inside cabinet	Between patients	N/A	Remove dust with a vacuum cleaner

SPECIFICATIONS

DEVILBISS 10-LITER SERIES			
Catalog Number	1025DS	1025KS	1025UK
Delivery Rate	2 to 10 LPM	2 to 10 LPM	2 to 10 LPM
Maximum Recommended Flow (@ nominal outlet pressures of zero and 7 kPa)**	10 LPM	10 LPM	10 LPM
Outlet Pressure	20.0 ± 1.0 psi (138 kPa +/- 7 kPa)	20.0 ± 1.0 psi (138 kPa +/- 7 kPa)	20.0 ± 1.0 psi (138 kPa +/- 7 kPa)
Auxiliary Oxygen Port **	Outlet Pressure: <15 psi Outlet Flow: 2 LPM	Outlet Pressure: <15 psi Outlet Flow: 2 LPM	Outlet Pressure: <15 psi Outlet Flow: 2 LPM
Electrical Rating	120 V, 60 Hz, 6.1 Amp	230 V~, 50 Hz, 3.2 Amp	240 V~, 50 Hz, 3.2 Amp
Operating Voltage Range	102-132 V~, 60 Hz	195-253 V~, 50 Hz	204-264 V~, 50 Hz
Oxygen Percentage	2-10 LPM=87%-96%	2-10 LPM=93% +3%/-6%	2-10 LPM=93% +3%/-6%
Operating Altitude			
(tested at 70°F {21°C} only) 0-1500 M (0-5000 ft)	Across the voltage range: No degradation of performance	Across the voltage range: No degradation of performance	Across the voltage range: No degradation of performance
Operating Environment Range*			
41°F (5°C) to 95°F (35°C), humidity range of 15% to 93% non-condensing	No degradation in performance across the operating voltage range.	No degradation in performance across the operating voltage range.	No degradation in performance across the operating voltage range.
Power Consumption	120 vac, 60HZ: 639 watts average	230 vac, 50Hz: 664 watts average	240 vac, 50Hz: 670 watts average
Weight	42 lbs. (19 Kilograms)	42 lbs. (19 Kilograms)	42 lbs. (19 Kilograms)
Safe Working Load	53 lbs. (24 Kilograms)	53 lbs. (24 Kilograms)	53 lbs. (24 Kilograms)
Sound Pressure Level at 3 and 10LPM	<59 dBA	<57 dBA	<57 dBA
Sound Power Level at 3 and 10 LPM	<69 dBA	<67 dBA	<67 dBA
Dimensions	24.5"H x 13.5"W x 12"D (62.2 x 34.2 x 30.4 cm)	24.5"H x 13.5"W x 12"D (62.2 x 34.2 x 30.4 cm)	24.5"H x 13.5"W x 12"D (62.2 x 34.2 x 30.4 cm)
Maximum Limited Pressure	35 PSIG (241 kPa)	35 PSIG (241 kPa)	35 PSIG (241 kPa)
Operating System	Time Cycle / Pressure Swing	Time Cycle / Pressure Swing	Time Cycle / Pressure Swing
The visible "low oxygen" indicator will activate at the following level	86% ± 3% (The audible alarm will alert before O ₂ drops below 82%. At less than 60%, the red "service required" light will activate.)	86% ± 3% (The audible alarm will alert before O ₂ drops below 82%. At less than 60%, the red "service required" light will activate.)	86% ± 3% (The audible alarm will alert before O ₂ drops below 82%. At less than 60%, the red "service required" light will activate.)
Storage Conditions	-13°F (-25°C) to 158°F (70°C), humidity range of 15% to 93% non-condensing, including condensation	-13°F (-25°C) to 158°F (70°C), humidity range of 15% to 93% non-condensing, including condensation	-13°F (-25°C) to 158°F (70°C), humidity range of 15% to 93% non-condensing, including condensation
Equipment Class and Type	<input type="checkbox"/> Class II Equipment Double Insulated; ⚡ Type B Applied Part Ordinary Equipment, IP21	<input type="checkbox"/> Class II Equipment Double Insulated; ⚡ Type B Applied Part IP21	<input type="checkbox"/> Class II Equipment Double Insulated; ⚡ Type B Applied Part IP21
Approval Body and Safety Standard	TUV ANSI/AAMI ES60601-1:2005+A2 (R2012) +A1 IEC 60601-1-6:2010 IEC 60601-1-11:2015 ISO 80601-2-69:2014 CAN/CSA-C22.2 No. 60601-1-14 CAN/CSA-C22.2 No. 60601-1-6:11 CAN/CSA-C22.2 No. 60601-1-11:15 CAN/CSA-C22.2 No. 80601-2-69:16	TUV IEC 60601-1:2012 IEC 60601-1-6:2010+A1 IEC 60601-1-11:2015 EN ISO 80601-2-69:2014	TUV IEC 60601-1:2012 IEC 60601-1-6:2010+A1 IEC 60601-1-11:2015 EN ISO 80601-2-69:2014
CE mark	No	Yes	Yes
EMC Compliance To	EN60601-1-2	EN60601-1-2	EN60601-1-2

* **NOTE**– The OSD performance at 41°F (5°C) to 95°F (35°C), 93% R.H. through voltage range on the 1025 verified at 670m.

**The maximum recommended flow is 6 LPM when an oxygen bottle is being filled with oxygen from the auxiliary oxygen port.

Specifications subject to change without notice.

Oxygen Concentration vs Flow Rate

Flow L/m	%O ₂
10	87% - 92%
9	87% - 93%
8	87% - 95%
7	87% - 96%
6	87% - 96%
5	87% - 96%
4	87% - 95%
3	87% - 95%
2	87% - 94%

ELECTROMAGNETIC COMPATIBILITY INFORMATION



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 oxygen concentrator 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 oxygen concentrator. 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.



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 oxygen concentrator, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

WARRANTY

Drive DeVilbiss Healthcare warrants the DeVilbiss 10 Liter Oxygen Concentrator under the conditions and limitations stated below. Drive DeVilbiss warrants this equipment to be free from defects in workmanship and materials for three (3) years from date of factory shipment to the original purchaser, (typically the healthcare provider) unless contractually specified otherwise. This warranty is limited to the Buyer of new equipment purchased directly from Drive DeVilbiss, or one of its Providers, Distributors, or Agents. Drive DeVilbiss' obligation under this warranty is limited to product repair (parts and labor) at its factory or at an Authorized Service Center. Routine maintenance items, such as filters, are not covered under this warranty, nor does it cover normal wear and tear.

Warranty Claims Submissions

The original purchaser must submit any warranty claim to Drive DeVilbiss or to an Authorized Service Center. Upon verification of the warranty status, instructions will be issued. For all returns, the original purchaser must (1) properly package the unit in a DeVilbiss approved shipping container, (2) properly identify the claim with the Return Authorization Number, and (3) send the shipment freight prepaid. Service under this warranty must be performed by Drive DeVilbiss and/or an Authorized Service Center.

NOTE– This warranty does not obligate Drive DeVilbiss to provide a loaner unit during the time that an oxygen concentrator is undergoing repair.

NOTE– Replacement components are warranted for the unexpired portion of the original Limited Warranty.

This warranty shall be voided, and Drive DeVilbiss shall be relieved of any obligation or liability if:

- The device has been misused, abused, tampered with, or used improperly during this period.
- Malfunction results from inadequate cleaning or failure to follow the instructions.
- The equipment is operated or maintained outside the parameters indicated in the Drive DeVilbiss operating and service instructions.
- Unqualified service personnel conduct routine maintenance or servicing.
- Unauthorized parts or components (i.e., regenerated sieve material) are used to repair or alter the equipment.
- Unapproved filters are used with the unit.

THERE IS NO OTHER EXPRESS WARRANTY. IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE DURATION OF THE EXPRESS LIMITED WARRANTY AND TO THE EXTENT PERMITTED BY LAW ANY AND ALL IMPLIED WARRANTIES ARE EXCLUDED. THIS IS THE EXCLUSIVE REMEDY AND LIABILITY FOR CONSEQUENTIAL AND INCIDENTAL DAMAGES UNDER ANY AND ALL WARRANTIES ARE EXCLUDED TO THE EXTENT EXCLUSION IS PERMITTED BY LAW. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, OR THE LIMITATION OR EXCLUSION OF CONSEQUENTIAL OR INCIDENTAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

NOTE – International warranties may vary.

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