



DeVilbiss® iFill® Personal Oxygen Station



en DeVilbiss iFill® Personal Oxygen Station Instruction Guide (Model 535D)

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

WARNING– Read and understand this instruction guide before operating this equipment.

ASSEMBLED IN USA



DANGER–NO SMOKING

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IEC SYMBOLS

	It is mandatory to read and understand the operating instructions prior to use. i This symbol has a blue background on the product label.		Electric Shock Hazard. Do Not Open	I/O	Start/Stop Press Button to start or stop cylinder filling		Service Required
	DANGER - NO SMOKING near patient or device. i This symbol has a red circle and diagonal bar on the product label.		Type B Applied Part		Standby Unit is in Standby Mode		Cylinder Filling
	Use no Oil, Grease or Lubricants i This symbol has a red circle and diagonal bar on the product label.		Class II Double Insulated	CB1	Circuit Breaker		Cylinder Full
	Do not use near heat or open flames i This symbol has a red circle and diagonal bar on the product label.		Alternating Current		Replaceable Fuse		Manufacturer
	Do Not push, tip over hazard i This symbol has a red circle and diagonal bar on the product label		Operating Temperature Range +5 to +35°C (+41 to +95°F)	REF	Catalog Number		TVU Rheinland Approval Mark
	General Warning i This symbol is used throughout this manual to indicate hazardous situations to avoid.		Atmospheric Pressure Range 780 to 1013 hPa (Approximate sea level to 6500 ft)	SN	Serial Number		No MR (MR Unsafe) Unsafe for Magnetic Resonance Environment
	Important Information i This symbol is used throughout this manual to indicate important information you should know.		Federal (U.S.A.) law restricts this device to sale by or on the order of a physician.		Ingress Protection - Protected against finger access to hazardous parts; protected against vertically falling water drops.		
	Note and Information Symbol i This symbol is used throughout this manual to indicate notes, useful tips, recommendations and information.		The 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

The information contained in this guide is intended to assist in the safe operation of the equipment and to ensure maximum benefit is achieved.

Oxygen supplied by this equipment is not to be considered life supporting and must not supply anything other than 93% +/- 3% oxygen. When using electrical products, basic safety precautions should always be followed. Read all instructions before using. Important 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-NO SMOKING



GENERAL DANGERS & WARNINGS

In order to ensure the safe installation, assembly, and operation of the personal oxygen station, these instructions **MUST** be followed:



DANGER

1. Electric Shock Hazard. Do not disassemble. The DeVilbiss iFill Personal Oxygen Station contains no user serviceable parts. If service is required, contact your DeVilbiss provider or authorized service center.
2. Fire Hazard. Do not lubricate. Do not allow grease or oil from your hands or other source to come into contact with the regulator or cylinder valve connection. These contaminants may be flammable and cause injury.
3. The DeVilbiss iFill Personal Oxygen Station should be at least 6 inches (15 cm) from walls, draperies, or any other object that might prevent the proper flow of air in and out of your oxygen station. The oxygen station should be located so as to avoid pollutants or fumes.
4. Fire Hazard. Oxygen causes rapid burning. Do not smoke while your personal oxygen station is operating, or when you are near a person utilizing oxygen therapy. Keep the oxygen station at least 5 feet (1.6 m) from hot, sparking objects or naked sources of flame.
5. Fire Hazard. Do not lay the cannula down while the cylinder is delivering oxygen. High concentrations of oxygen can cause rapid burning.
6. Tip Over Hazard. Do push, lean or rest upon the device, it may tip over causing injury.



WARNING

1. Do not install, assemble, or operate this equipment without first reading and understanding this instruction manual and the oxygen cylinder warning label. If you are unable to understand the warnings, cautions and instructions, contact your provider or technical personnel if applicable before attempting to install or use this equipment - otherwise, injury or damage may occur.
2. The use of this device is limited to an oxygen patient. Cylinders **MUST** be used **ONLY** by an oxygen patient and are not to be distributed to any other individual for any purpose.
3. NEVER block the air openings of the product or place it on a soft surface, such as a bed or couch, where the air opening may be blocked. Keep the openings free from lint, hair and the like, this may block airflow through the unit and cause overheating or malfunction.
4. Avoid placing the oxygen station next to heaters, radiators, or hot air registers. It should be kept at least 5 feet (1.6m) away from hot, sparking objects or naked sources of flame.
5. Do not use in a closet.
6. Do not use in an area where the air may be contaminated with carbon monoxide as this may shorten the life of the unit (i.e. near running gasoline engines, furnace, or heater).
7. If any leakage of the oxygen cylinder is detected, do not attempt to use the cylinder. Turn the rotary selector on the regulator to "OFF" and close the cylinder valve. If leakage persists, place the cylinder outdoors and notify your Home Health Care Provider or Service Representative of this condition.
8. The personal oxygen station is equipped with a High Pressure Relief Valve to ensure the user's safety. When activated, this safety feature will make an extremely loud noise. If this noise occurs, turn the unit off and contact your Home Health Care Provider or Service Representative.
9. The device is not a life support device and may stop operating with certain device faults or with a power failure. You should have a back-up source of oxygen available.
10. There is a risk of fire associated with oxygen enrichment during oxygen therapy. Do not use the iFill cylinder filling station or accessories near sparks or open flames.
11. Do not lubricate fittings, connections, tubing, or other accessories of the iFill cylinder filling station to avoid the risk of fire and burns.
12. Use only spare parts recommended by the manufacturer to ensure proper function and to avoid the risk of fire and burns.
13. **ONLY** use cylinders that have the DeVilbiss iFill Personal Oxygen Station fill connection. All cylinders must be inspected before attempting to fill - otherwise, injury or damage may occur.
14. Use of this device at an altitude greater than 2000 meters (6500 ft) altitude or outside a temperature of +5°C to +35°C (+41°F to +95°F) or a relative humidity above 90% relative humidity, non-condensing, is expected to adversely affect the percentage of oxygen and consequently the quality of the therapy.
15. 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 iFill cylinder filling station or any oxygen cylinders are located.
16. If you intend to smoke, you must always turn the iFill cylinder filling station off and leave the room where the iFill cylinder filling station is located. If unable to leave the room, you must wait 10 minutes after you have turned the iFill cylinder filling station off before smoking.
17. Open flames during oxygen therapy are dangerous and are likely to result in fire or death. Do not allow open flames within 5 feet (1.6m) of the iFill cylinder filling station or any oxygen cylinders.
18. Do not modify any connections on the personal oxygen station. Never lubricate the connections. Never use tools of any kind to connect/disconnect the oxygen cylinder and the oxygen station. Otherwise, severe injury and/or damage may occur.
19. Before moving or repositioning the personal oxygen station, always disconnect the AC power cord. Failure to do so may result in damage to the unit or personal injury.
20. Do not drop oxygen cylinders. Use two (2) hands when handling/transporting oxygen cylinders. Otherwise, injury or damage may occur.
21. Children should always be supervised around the personal oxygen station. Failure to do so may result in damage to the unit or personal injury.
22. For your safety, the oxygen cylinder must be used according to the prescription determined by your physician.
23. Under certain circumstances, oxygen therapy can be hazardous. Seeking medical advice before using oxygen is advisable.



WARNING

1. Electric Shock Hazard: Unplug the DeVilbiss iFill Personal Oxygen Station when cleaning. To avoid electric shock hazard, do not remove the cabinet. The cabinet should only be removed by a qualified homecare technician.
2. Electric Shock Hazard: Do not plug in or use product if cabinet is broken.
3. Electric Shock Hazard: Do not use a damaged line cord.
4. Auditory alarm signal sound pressure levels that are less than ambient levels can impede operator recognition of alarm conditions.
5. The surface temperature of the exhaust vents on the bottom of the unit may exceed 105.8°F (41°C) under certain conditions.
6. When the device is used under extreme operating conditions, the temperature near the exhaust vents on the bottom of the unit may reach 131°F (55°C). Keep body parts a minimum of 32" (81.2 cm) away from this area.



WARNING



MR Unsafe

1. 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 DeVilbiss iFill Personal Oxygen Station or MR medical devices. The device and accessories have not been evaluated for safety in an MR environment.
2. 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 DeVilbiss iFill Personal Oxygen Station. 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.
3. 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.
4. 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.
5. 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.
6. 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 DeVilbiss iFill Personal Oxygen Station, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.



WARNING - HANDLING WARNINGS

1. Use extreme care when handling and filling an oxygen cylinder. Full oxygen cylinders are under pressure and can become a projectile if dropped or mishandled.
2. NEVER transport the iFill Personal Oxygen Station with a cylinder connected to or stored on it, otherwise injury or damage can occur.



CAUTION

1. Federal law restricts this device to sale by or on order of a physician.
2. Do not operate the personal oxygen station without the filters installed.
3. No lubricants other than those recommended by the manufacturer are to be used.



CAUTION

1. Do not place this unit near other equipment or devices that create or attract electromagnetic fields. Placing the unit in electromagnetic fields greater than 10V/m can affect its operation. Examples of such equipment are defibrillators, diathermy equipment, cellular telephones, CB radios, radio-controlled toys, microwave ovens, etc.
2. When transporting the DeVilbiss iFill Personal Oxygen Station, be careful not to bump the unit or the connectors into obstacles. Otherwise damage to the oxygen station may occur.

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

NOTE – The plug on the DeVilbiss iFill Personal Oxygen Station 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 – DeVilbiss recommends leaving a full cylinder of oxygen with the patient AFTER setting up the personal oxygen station.

SAVE THESE INSTRUCTIONS.

Provider Checklist

Before leaving a DeVilbiss iFill Personal Oxygen Station with a user, the following checklist **MUST** be completed:

1. Check all parts for shipping damage. In case of damage, do not use. Contact DeVilbiss for further instructions.
2. Make sure the hydrostatic test on the oxygen cylinder has not expired.
3. Instruct the user on the safe operation of the personal oxygen station and review ALL warnings.
4. Leave a copy of this instruction guide with the user.

NOTE – DeVilbiss recommends leaving a full cylinder of oxygen with the patient **AFTER** setting up the personal oxygen station, and instructing the patient to always keep a filled cylinder on hand.

INTRODUCTION

This instruction guide will acquaint you with the DeVilbiss iFill Personal Oxygen Station. Make sure that you read and understand this guide before operating your oxygen station. Important safeguards are indicated throughout this guide; pay special attention to all safety information. Contact your DeVilbiss equipment provider should you have any questions.

NOTE – All references to cylinder throughout the guide represent an oxygen cylinder.

Intended Use

The Model 535D Oxygen Cylinder Filling System is intended for use in supplying pressurized oxygen to fill oxygen cylinders for patients' ambulatory use. The device is intended to provide 93% ($\pm 3\%$) oxygen. This device can be used in homes, nursing homes, patient care facilities, etc.

Medical Application

The Model 535 Series DeVilbiss iFill Personal Oxygen Station product provides for in-home patient filling of Oxygen Cylinders. The intended market for the product is the Homecare and Institutional markets for those dealers/institutions offering ambulatory Oxygen Therapy devices. The Model 535 Series DeVilbiss iFill Personal Oxygen Station does not provide oxygen directly to a patient, it is used to only fill oxygen cylinders.

Product Description

The DeVilbiss iFill Personal Oxygen Station uses a dual-pressure head compressor to simultaneously power a pressure swing adsorption oxygen generation system and a pneumatic pressure intensifier. It is designed to provide supplemental oxygen to fill portable cylinders for ambulatory use.

Oxygen cylinders are attached to the iFill unit with a coupler and cylinder nipple set. The application-specific coupler helps to ensure that other cylinders cannot inadvertently be connected to the iFill system.

The iFill station is designed to fill various sizes of portable oxygen cylinders. Cylinders are available with an integrated oxygen conserving device, continuous flow regulator, or 870 post valve mounted on top.

An onboard Oxygen Sensing Device (DeVilbiss OSD®) monitors the oxygen concentration level to ensure that it remains within specification ($93\% \pm 3\%$).

IMPORTANT PARTS

DeVilbiss iFill Personal Oxygen Station (Figures A & B)

1. Oxygen Fill Connector (referred to as Fill Connector throughout guide)
2. Oxygen Fill Connector Cover/Cylinder Adapter (referred to as Fill Connector Cover and/or Cylinder Adapter throughout guide)
3. Oxygen Fill Port Collar (referred to as Fill Port Collar throughout guide)
4. Instruction Label (Figure C)
5. Indicator Panel Label (Figure C)
6. Start/Stop button
7. Cradle
8. Fused Mains Inlet or Inlet with resettable circuit breaker
9. Front Handle
10. Rear Handle
11. Carry Handle Recess
12. Air Filter(s) (2 - one on each side)
13. Hour Meter - behind filter on Indicator Panel label side (right side)



Figure A



Figure B

iFill Instruction and Indicator Panel Labels (Figure C)

Instruction Label

1. Set cylinder regulator to "Off"
2. Remove cap from iFill unit
3. Dock oxygen cylinder into oxygen fill connector, click in place
4. Push Start/Stop button
5. Depress port collar, lift cylinder. Replace cap

Indicator Panel Label

6. Service Required (Red) LED
7. Standby (Green) LED
8. Full (Green) LED
9. Filling (Green) LED



Figure C

iFill Oxygen Cylinder (Figure D)

- 1. Cylinder Post Valve
- 2. Oxygen Fill Connector
- 3. Rotary Selector
- 4. Oxygen Fill Connector
- 5. Cannula Fitting (on rear)
- 6. Hydrostatic Test Date - Contact your homecare provider or the cylinder manufacturer for details.
- 7. Oxygen Contents Guage

Accessory/Replacement Parts

- 1. Air Filter(s)
535D-605 (6 filters)
- 2. iFill Oxygen Cylinder w/870 Post Valve (US)
535D-M6-870 535D-C-870 535D-D-870 535D-E-870
iFill Oxygen Cylinder w/870 Post Valve (CAN)
535C-M6-870 535C-C-870 535C-D-870
- 3. iFill Oxygen Cylinder w/Continuous Flow Regulator (US)
535D-D-CF 535D-E-CF
iFill Oxygen Cylinder w/Continuous Flow Regulator (CAN)
535C-C-CF 535C-D-CF 535C-E-CF



SET-UP

NOTE – Before operating the DeVilbiss iFill Personal Oxygen Station for the first time, locate the device where desired.

Choosing A Location



WARNING

- 1. The DeVilbiss iFill Personal Oxygen Station should be at least 6 inches (15 cm) away from walls, draperies, or furniture to ensure sufficient airflow. The oxygen station should be located so as to avoid pollutants or fumes.
- 2. Avoid placing the oxygen station next to heaters, radiators, or hot air registers. It should be kept at least 5 feet (1.6m) away from hot, sparking objects or naked sources of flame.
- 3. Do not use in a closet.
- 4. Do not use in an area where the air may be contaminated with carbon monoxide as this may shorten the life of the unit (i.e. near running gasoline engine, furnace, or heater).

Transporting The DeVilbiss iFill Personal Oxygen Station



WARNING

NEVER transport the Personal Oxygen Station with a cylinder connected to or stored on it, otherwise injury or damage can occur.



CAUTION

When transporting the DeVilbiss iFill Personal Oxygen Station, be careful not to bump the unit or the connectors into obstacles. Otherwise damage to the oxygen station may occur.

There are three (3) methods to safely transport the DeVilbiss iFill Personal Oxygen Station (Figure 1):

- 1. Pull or push the unit on its casters using the front handle. Travel in a line oriented front to back to avoid tipping. Stop the unit to change direction.
- 2. Carry the unit using the front and rear handles simultaneously.
- 3. Carry the unit using the front handle and the recess located under the rear of the base.

DeVilbiss iFill Personal Oxygen Station Operation Checklist

NOTE – Each time the Oxygen Station is used to fill a cylinder, complete the following steps:

- 1. Check the Hydrostatic Test Date Figure D6 - Aluminum cylinders must undergo testing every five (5) years. Contact your homecare provider or the cylinder manufacturer for details.

NOTE – Do not fill oxygen cylinders that have not been tested in the past five (5) years. Contact your DeVilbiss provider for replacement.

- 2. Perform the prefill inspection on the cylinder by following iFill Oxygen Cylinder External Examination below.



Figure 1



WARNING

ONLY use cylinders that have the DeVilbiss iFill Personal Oxygen Station fill connection. All cylinders must be inspected before attempting to fill - otherwise injury or damage may occur.

iFill Oxygen Cylinder External Examination

- Examine the outside of the cylinder for the following conditions, and replace the cylinder if they exist:
 - Dents or dings
 - Arc Burns
 - Oil or Grease
 - Any other signs of damage that might cause a cylinder to be unacceptable or unsafe for use.
 - Examine the cylinder for evidence of fire or thermal damage. Evidence includes charring or blistering of the paint, or other protective coating or heat sensitive indicator. If fire or thermal damage is found, replace the cylinder.
 - Inspect the oxygen fill connector for the following:
 - Debris, oil or grease
 - Noticeable signs of damage
 - Signs of corrosion inside the valve
 - Signs of excessive heat or fire damage
- Do not use oxygen cylinder if found, call your homecare provider.

OPERATION

Connecting The iFill Oxygen Cylinder To The DeVilbiss iFill Personal Oxygen Station



DANGER

Fire Hazard. Do not lubricate. Do not allow grease or oil from your hands or other source to come into contact with the regulator or cylinder valve connection. These contaminants may be flammable and cause injury.



WARNING

- Do not modify ANY connections on the personal oxygen station. Never lubricate the connections. NEVER use tools of any kind to connect/disconnect the cylinder and the oxygen station. Severe injury and/or damage may occur.
- Do not drop oxygen cylinders. Use two (2) hands when handling/transporting oxygen cylinders. Otherwise, injury or damage may occur.
- Electric Shock Hazard: Do not use a damaged line cord.

NOTE – Refer to the General Dangers & Warnings and the Handling Warnings in this manual.

- Plug the power cord into the wall outlet.
- Set the rotary selector on the cylinder regulator to “OFF.” On 535-870 Series cylinders, close the post valve.
- Remove the oxygen fill connector cover from the fill connector. **NOTE** – On 535-870 cylinders, it may be necessary to remove your regulator or conserving device to attach the cylinder to the iFill Station.
- Position the cylinder over the cradle while aligning the nipple connector on the oxygen cylinder with the fill connector. Press until cylinder “Clicks” into place (Figure 2). **NOTE** – When using the smaller M4 or M6 size cylinders, it is necessary to place the oxygen fill connector cover/cylinder adapter in the cradle to help support the cylinder. When using the larger ML6, C, D, or E cylinders, the oxygen fill connector cover/cylinder adapter is not necessary and can be allowed to hang over the side.

Filling The iFill Oxygen Cylinder

NOTE – Do not use cylinder while filling.

NOTE – Refer to the General Dangers & Warnings and the Handling Warnings in this manual.

- Make sure the personal oxygen station is plugged in.
- Make sure the cylinder is securely connected to the oxygen station. Refer to Connecting The iFill Oxygen Cylinder To The DeVilbiss iFill Personal Oxygen Station.
- Push the start/stop button on the control panel (Figure 3).
- The following sequence of events should occur:
 - The FILLING (green) light will illuminate while the cylinder is filling (refer to iFill Oxygen Cylinder Fill Times).
 - The FULL (green) light will illuminate when the cylinder is full. Proceed to Removing the iFill Oxygen Cylinder.

NOTE – If the Service (RED) light and audible alert are on, proceed to Troubleshooting in this instruction manual.

Indicator Light Explanation

Indicator Light Color	Oxygen Station Status	Effect
None	Oxygen station is unplugged.	None
Standby (green)	Oxygen station is ready to begin filling cylinders.	Cylinder filling not started
Filling (green)	Oxygen station is on and cylinder is filling.	Cylinder is filling
Full (green)	Cylinder is full.	Remove cylinder
Service (red) and Audible Alert	Oxygen station is on but cylinder is not filling due to internal failure.	Contact your DeVilbiss provider



Figure 2



Figure 3

Removing The iFill Oxygen Cylinder



WARNING

1. Do not modify any connections on the personal oxygen station. Never lubricate the connections. Never use tools of any kind to connect/disconnect the oxygen cylinder and the oxygen station. Otherwise, severe injury and/or damage may occur.
2. Use extreme care when handling and filling an oxygen cylinder. Full oxygen cylinders are under pressure and can become a projectile if dropped or mishandled.

NOTE – Refer to the General Dangers & Warnings and the Handling Warnings in this manual.

1. Remove the full oxygen cylinder by pushing down on the fill port collar located under the cylinder nipple connector while using your other hand to steady the cylinder (Figure 4).
2. Lift up on the cylinder to remove from the oxygen fill connector. The green Standby light will turn on after a short delay.
3. Oxygen will escape from the fill connector for a short time after the cylinder has been removed. This may be accompanied by a “pop” with a rush of air. This is normal.
4. Perform one (1) of the following steps:
 - a. If desired, fill another oxygen cylinder. Refer to the DeVilbiss iFill Personal Oxygen Station Operation Checklist.
 - b. Place the oxygen fill connector cover onto the fill connector.

NOTE – The oxygen fill connector cover should always be used whenever cylinders are not being filled.



Figure 4

Setting The iFill Oxygen Cylinder The Prescribed Setting

1. On 535-870 cylinders, attach a regulator or conserving device to the 870 post and open the 870 cylinder post valve.
2. Attach the nasal cannula to the cannula fitting of the oxygen regulator or oxygen conserving device.
3. Attach the cannula to your nose/face.
4. Turn the rotary selector to the setting prescribed by your physician.
5. Breathe normally.



WARNING

Changing the setting on the rotary selector will affect the dose of oxygen delivered, DO NOT readjust the setting unless directed by your physician.

6. To turn the flow of oxygen off, turn the rotary selector counterclockwise to the “OFF” position. On 535-870 cylinders, close the 870 post valve.

TROUBLESHOOTING

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



WARNING

To avoid electric shock hazard, do not remove the cabinet. The cabinet should only be removed by a qualified DeVilbiss homecare technician.

DeVilbiss iFill Personal Oxygen Station

Problem	Solution
No indicator lights on.	1. Check that the personal oxygen station power cord is properly plugged into the wall outlet. Ensure the circuit breaker near the power cord entry is pressed in. If there are still no indicator lights, contact your DeVilbiss provider.
Red light on.	1. Ensure the iFill oxygen cylinder is connected correctly. 2. Press the start/stop button. If the Red light remains on, contact your DeVilbiss provider for service. 3. If the Red light turns on during the filling process, check that the cylinder is connected properly. Remove the cylinder and reinstall. Ensure the cylinder rotary selector is in the OFF position. Press the start/stop button to turn off the Red light and then again to restart the cylinder filling process. If the Red light turns on again during the filling process, contact your DeVilbiss provider for service.
Excessive fill times OR Green filling light stays on.	1. Ensure the rotary selector on your regulator or conserving device is set to OFF. 2. Ensure the post valve is closed in 870 series cylinders. 3. Check the fill times shown in Typical Oxygen Cylinder Fill Times chart. 4. Check that the cylinder is connected properly: Press the start/stop button to return to Standby. Remove the cylinder and reinstall. Press the start/stop button to begin filling the cylinder. 5. If problem persists, contact your DeVilbiss provider for service.

Fuse Replacement (models with fused AC inlet connector)

1. Disconnect AC power cord from AC inlet connector.
2. With a small screwdriver, gently open the fuse drawer on the AC inlet connector.
3. Remove the bad fuse from the exposed end of the fuse drawer, discard the bad fuse.
4. Remove the replacement fuse from the fuse drawer and slide it into the exposed end of the fuse drawer where the bad fuse was removed.
5. Insert the fuse drawer into the AC inlet connector until it is fully seated and flush with the AC inlet connector housing.



iFill Oxygen Cylinder/Regulator

Problem	Solution
Hissing sound from iFill oxygen cylinder	1. Turn rotary selector OFF. Close the cylinder valve if using 870 series. 2. If hissing sound continues, call your DeVilbiss provider.
iFill oxygen cylinder valve is open and rotary selector is at prescribed flow rate, but oxygen is not being delivered.	1. Check oxygen contents gauge. Refill cylinder if the gauge shows empty. 2. Check that cannula tubing is straight and not pinched. If damaged, replace. 3. Call your DeVilbiss provider for service.

TYPICAL QUESTIONS AND ANSWERS

Q. Why does my iFill make a “pop” sound when I remove the cylinder?

A. The “pop” sound is pressure being released from the system to make the next cylinder easier to install.

Q. Why is the coupler only to be cleaned with a clean, dry, lint-free cloth and only when necessary?

A. Cleaning solutions may be flammable and/or may contaminate the cylinder.

Q. Why can't I use my old cylinders with the iFill?

A. The iFill has a proprietary connection as required by the FDA and, therefore, other cylinders are not compatible.

CLEANING/MAINTENANCE

DeVilbiss iFill Personal Oxygen Station Filter



CAUTION

1. Do not operate the personal oxygen station without the filters installed.
2. No lubricants other than those recommended by the manufacturer are to be used.

NOTE – The DeVilbiss iFill Personal Oxygen Station has two (2) filters, one on each side of the cabinet (FIGURE A).

NOTE – Perform this procedure at least **ONCE A WEEK**.

1. Unplug the personal oxygen station from the wall outlet.
2. Remove the filters.
3. Clean the filters with a vacuum cleaner or wash in warm soapy water and rinse thoroughly.
4. Dry the filters thoroughly before reinstallation.

Exterior Cabinet



WARNING

Electric Shock Hazard: Unplug the DeVilbiss iFill Personal Oxygen Station when cleaning. Do not remove the oxygen station cabinet. The cabinet should only be removed by a qualified DeVilbiss technician. Do not apply liquid directly to the cabinet nor utilize any petroleum-based solvents or cleaning agents.

1. Clean the exterior cabinet by using a damp cloth or sponge with a mild household cleaner and wipe it dry.
2. Only if necessary, wipe the coupler with a clean, dry, lint-free cloth.

Cleaning

	Recommended cleaning interval	Number of cleaning cycles *	Compatible cleaning agents / max washing temperature
Air Intake Filters	Once per week	260	Clean with vacuum cleaner or wash in warm soapy water
Exterior Cabinet	Once per week	260	Clean with a damp cloth or sponge with a mild household cleaner and wipe it dry

* number of cleaning cycles determined by recommended cleaning interval and 5-year expected service life

Maintenance

	Inspection Interval	Replacement Interval	Specification
Air Intake Filters	Once per week	If torn or damaged	20 PPI; gross particle filter
Final Bacteria Filter	Inspect in conjunction with compressor service	Replace as necessary	> 0.3 micron particles
Oxygen Concentration	3 years	N/A	93% ±3% O ₂
Audible and Visual Indicators	3 years	N/A	Audible Alert and LED Indicators
Compressor	3 years	N/A	30 psi max output
Intensifier	3 years	N/A	2200 psi max output

SPECIFICATIONS

DeVilbiss iFill Personal Oxygen Station

Operating Temperature:	41°F to 95°F (5°C to 35°C)
Operating Humidity Range:	15 to 90% R.H. non-condensing
Operating Atmospheric Pressure Range:	780 hPa to 1013 hPa (2000 meters, ~6500 ft, altitude to Sea level)
Storage Temperature Range:	-13°F to +158°F (-25°C to +70°C)
Storage Humidity Range:	5 to 90% non-condensing
Electrical Rating:	115V~ 60Hz 4.3 Amps
Operating Voltage Range:	97 – 127V~ 60HZ
Power Range:	400 Watts Average
Oxygen Purity:	93% O2 ± 3%
Dimensions: (including casters) without cylinder	12.25"W x 28.5"H x 22.5"D (31.1 cm x 72.4 cm x 57.4 cm)
Weight:	66 lbs (30kg)
Shipping Weight:	76 lbs (34.5kg)
Ingress Protection:	IP21
A-Weighted Sound Pressure Level Maximum	52 dBA
Sound Power Level Maximum	62 dBA
Maximum Limited Pressure normal and single fault conditions	3300 psi (22.75 MPa)
Refer to the iFill Service Manual (LT-1929) for Technical Description.	

Specifications subject to change without notice.

iFill Oxygen Cylinder Typical Fill Times

NOTE – All filling times are approximate and may vary depending on altitude and environmental conditions.

Typical cylinder fill time from empty to 2,000 ± 200 psig (138 ± 13.8 bar) are as follows:

M4 (0.7L)	60 Minutes	C (1.8L)	130 Minutes
M6 (1.0L)	75 Minutes	D (2.9L)	215 Minutes
ML6 (1.2L)	90 Minutes	E (4.7L)	350 Minutes

NOTE – Degradation of performance may occur if unit is operated outside of specified operating parameters.



WARNING

Auditory alarm signal sound pressure levels that are less than ambient levels can impede operator recognition of alarm conditions.

Description of all auditory alarm signals

- The DeVilbiss iFill Personal Oxygen Station includes one alarm condition which indicates Service Required.
- The service required alarm is a low priority technical alarm condition.
- The alarm is tested at power up, the audible alarm sounds for 0.5 seconds when the iFill is first connected to AC power, this verifies that the audible alert is working.
- The device alarms between 4 seconds and 70 seconds after a fault occurs.
- The OPERATOR’S POSITION during operation of the DeVilbiss iFill Personal Oxygen Station is normally at a distance or in another room, the iFill operates unattended while filling oxygen cylinders.

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 DeVilbiss iFill Personal Oxygen Station 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 DeVilbiss iFill Personal Oxygen Station. 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

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 DeVilbiss iFill Personal Oxygen Station, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

RETURN AND DISPOSAL

After use of the device, please return the device to the provider for disposal. The equipment, including accessories and internal components, does not belong in your regular household waste; such equipment is manufactured from high-grade materials and can be recycled and reused. The internal motor, PC boards and wiring should be removed from the unit and recycled as electronic waste. The metal components can be recycled as metals. Sieve beds can be disposed as household waste. The remaining plastic components should be recycled as plastics. The European Directive 2012/19/EU on Waste Electrical and Electronic Equipment (WEEE) requires that electrical and electronic equipment be collected and disposed of separately from other unsorted municipal waste, with the aim of recycling it. The crossed out waste bin symbol indicates that separate collection is required.

To minimize the ENVIRONMENTAL IMPACT of the 535 Series Oxygen Filling System during NORMAL USE, remove any oxygen cylinder from the 535 Series Oxygen Filling System and unplug the 535 Series Oxygen Filling System from AC power. Clean the cabinet air intake filters for the most efficient operation, as listed in the Maintenance section of this guide.



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