

Invacare® Platinum® Oxygen Concentrator

IRC9LXO2AWQ

en HomeFill® System Compatible
User Manual



CE 1639

This manual **MUST** be given to the user of the product.
BEFORE using this product, this manual **MUST** be read and saved for
future reference.



Yes, you can.®

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1 General

1.1 Symbols

Signal words are used in this manual and apply to hazards or unsafe practices which could result in personal injury or property damage. See the information below for definitions of the signal words.



DANGER!

– Danger indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



WARNING!

– Warning indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION!

– Caution indicates a potentially hazardous situation which, if not avoided, may result in property damage or minor injury or both.



Gives useful tips, recommendations and information for efficient, trouble-free use.

Symbols in Documentation



General Warning Sign



The background color inside the triangle is yellow on product labels.



Read Manual



The color of the symbol background is blue on product labels.



No Smoking



The color of the circle with diagonal bar is red on product labels.



No Open Flame



The color of the circle with diagonal bar is red on product labels.



Class II, Double Insulated

IP21

Protected against solid foreign objects of 12.5 mm diameter and greater.

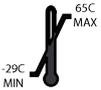
Protected against vertically falling water drops.



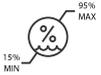
Indoor Use ONLY



Keep Dry



Transport and Storage Temperature



Transport and Storage Humidity



Alternating Current



Type BF equipment



Recycle



DO NOT dispose of in household waste



Electrical Hazard



Manufacturer



Call supplier



**This product complies with Directive 93/42/EEC concerning medical devices.

The launch date of this product is stated in the CE declaration of conformity.



EC Representative



Reference Number



Serial Number

Symbols on Product



Unit running



Unit not running

O₂ Indicators

Symbol	O ₂ Purity	Indicator Lights (LED)
O ₂	SYSTEM OKAY	GREEN Indicator Light
	O ₂ over 85%	

	<p>O₂ between 73% to 85%</p>	<p>YELLOW Indicator Light</p> <p>A. YELLOW Solid</p> <p>B. YELLOW Flashing Sensor</p> <p>Failure. Call a qualified technician.</p>
	<p>SYSTEM FAILURE</p> <p>O₂ Below 73%</p>	<p>RED Indicator Light</p> <p>Refer to Troubleshooting.</p>

1.2 Intended Use

The intended function and use of the Invacare Platinum Oxygen Concentrator is to provide supplemental oxygen to patients with respiratory disorders, by separating nitrogen from room air, by way of a molecular sieve. It is not intended to sustain or support life.



DANGER! **Risk of Injury or Death**

This product is to be used as an oxygen supplement and is not intended to be life-supporting or life-sustaining. **ONLY** use this product if the patient is capable of spontaneous breath, able to inhale and exhale without the use of a machine.

- DO NOT use in parallel or series with other oxygen concentrators or oxygen therapy devices.



DANGER! **Risk of Injury or Death**

Depending on their medical condition, patients on flowrates greater than 5 L/min may be at an increased risk for serious injury or death in the event of failure.

- ALWAYS discuss this increased risk with your health care supplier **BEFORE** using this product if you are prescribed a flowrate greater than 5 L/min.



WARNING! **Risk of Injury or Damage**

Use of this product outside of the intended use and specifications has not been tested and may lead to product damage, loss of product function, or personal injury.

- DO NOT use this product in any way other than described in the Specifications and Intended Use sections of this manual.

**DANGER!****Risk of Injury or Death**

While Invacare strives to produce the best oxygen concentrator in the market today, this oxygen concentrator can fail to produce oxygen due to power failure or device malfunction.

- ALWAYS have a backup source of oxygen readily available.
- In the event the concentrator fails to produce oxygen, the concentrator will briefly alarm signaling the patient to switch to their backup source of oxygen. Refer to Troubleshooting for more detail.

1.3 Indications For Use

To provide supplemental oxygen to patients with respiratory disorders, by separating nitrogen from room air, by way of a molecular sieve.

1.4 Description

The Invacare Platinum concentrator is used by patients with respiratory disorders who require supplemental oxygen. The device is not intended to sustain or support life.

The oxygen concentration level of the output gas ranges from 87% to 95.6%. The oxygen is delivered to the patient through the use of a nasal cannula.

The Invacare Platinum concentrator uses a molecular sieve and pressure swing adsorption methodology to produce the oxygen gas output. Ambient air enters the device, is filtered and then compressed. This compressed air is then directed toward one of two nitrogen adsorbing sieve beds.

Concentrated oxygen exits the opposite end of the active sieve bed and is directed into an oxygen reservoir where it is delivered to the patient.

The Invacare Platinum concentrator is capable of operation by the patient in a home environment or in an institutional environment. Device operates at a nominal 230 VAC/50 Hertz supply.

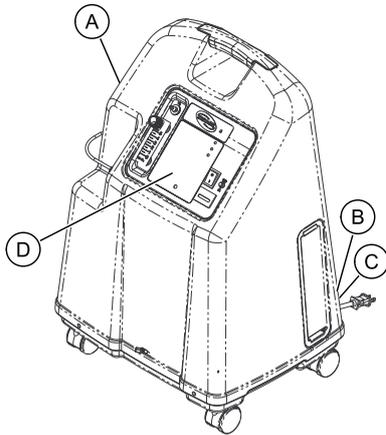
Service information will be available upon request to qualified technical personnel only.

1.5 Contraindications

There are no known contraindications.

2 Safety

2.1 Label Locations



A	Serial number label is located on the resonator intake assembly.
B	Specification label is located on the back of the concentrator at the base.

C	Double insulation label is located on the back of the concentrator at the base.
D	<p style="text-align: center;">IRC9LX02AWQ</p> <div style="border: 1px solid black; padding: 10px;"> <p style="text-align: center;">HomeFill® Compatible with Senso₂™</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p> SEE USER MANUAL OR CONTACT YOUR HOME EQUIPMENT PROVIDER FOR SAFE OPERATING INSTRUCTIONS, ALARMS, AUDIBLE ALERTS AND USE OF ACCESSORIES.</p> </div> <div style="width: 35%;"> <p> </p> <p> </p> </div> </div> <p>⚠ DANGER RISK OF FIRE - NO SMOKING, OPEN FLAME OR IGNITION SOURCES</p> <p> </p> <p>Keep ALL sources of ignition out of the room in which this product is located and away from areas where oxygen is being delivered. Textiles, oil and other combustibles are easily ignited and burn with great intensity in oxygen enriched air.</p> <p>⚠ DANGER RISK OF ELECTRIC SHOCK </p> <p>DO NOT remove cover. Refer servicing to qualified service personnel.</p> </div>

2.2 General Guidelines

In order to ensure the safe installation, assembly and operation of the concentrator, these instructions **MUST** be followed.

**DANGER!****Risk of Death, Injury or Damage**

Improper use of the product may cause death, injury or damage. This section contains important information for the safe operation and use of this product.

- DO NOT use this product or any available optional equipment without first completely reading and understanding these instructions and any additional instructional material such as user manuals, service manuals or instruction sheets supplied with this product or optional equipment.
- If you are unable to understand the warnings, cautions or instructions, contact a healthcare professional, dealer or technical personnel before attempting to use this equipment.
- Check ALL external components and carton for damage. In case of damage, or if the product is not working correctly, contact a technician or Invacare for repair.
- THE INFORMATION IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE.

**DANGER!****Risk of Death, Injury or Damage from Fire**

Textiles, oil or petroleum substances, grease, greasy substances and other combustibles are easily ignited and burn with great intensity in oxygen enriched air and when in contact with oxygen under pressure. Smoking during oxygen therapy is dangerous and is likely to result in burns or death. To avoid fire, death, injury or damage:

- DO NOT SMOKE while using this device.
- DO NOT use near OPEN FLAME or IGNITION SOURCES.
- NO SMOKING signs should be prominently displayed.
- Keep all open flames, matches, lighted cigarettes, electronic cigarettes or other sources of ignition at least 10 ft (3 m) away from this concentrator or any oxygen carrying accessories such as cannulas or tanks.
- DO NOT allow smoking within the same room where the oxygen concentrator or any oxygen carrying accessories are located.
- If you disregard these warnings about the severe hazard of oxygen use while you continue to smoke, you must always turn off the concentrator, remove the cannula and then wait ten minutes before smoking or leave the room where either the concentrator or any oxygen carrying accessories such as cannulas or tanks are located.



DANGER!

Risk of Death, Injury or Damage from Fire

Textiles, oil or petroleum substances, grease, greasy substances and other combustibles are easily ignited and burn with great intensity in oxygen enriched air and when in contact with oxygen under pressure. Smoking during oxygen therapy is dangerous and is likely to result in burns or death. To avoid fire, death, injury or damage:

- Use only oxygen compatible water-based lotions or salves before and during oxygen therapy. To verify, refer to the lotion/salve container for the oxygen compatible water-based statement. If necessary, contact the manufacturer. DO NOT use any lubricants on concentrator unless recommended by Invacare.
- Avoid creation of any spark near oxygen equipment. This includes sparks from static electricity created by any type of friction.
- Keep the oxygen tubing, cord, and concentrator out from under such items as blankets, bed coverings, chair cushions, clothing, and away from heated or hot surfaces including space heaters, stoves, and similar electrical appliances.
- Turn the concentrator off when not in use to prevent oxygen enrichment.



DANGER!

Risk of Death or Injury from Electric Shock

To reduce the risk of burns, electrocution, death or injury to persons:

- DO NOT disassemble. Refer servicing to qualified service personnel. There are no user serviceable parts.
- Avoid using while bathing. If continuous usage is required by the physician's prescription, the concentrator must be located in another room at least 2.1 m (7 ft) from the bath.
- DO NOT come in contact with the concentrator while wet.
- DO NOT place or store concentrator where it can drop into water or other liquid.
- DO NOT reach for concentrator that has fallen into water. Unplug IMMEDIATELY.
- DO NOT use frayed or damaged AC power cords.

**WARNING!****Risk of Injury or Damage**

- Invacare products are specifically designed and manufactured for use in conjunction with Invacare accessories. Accessories designed by other manufacturers have not been tested by Invacare and are not recommended for use with Invacare products.
- No modification of this equipment is allowed.
- There are many different types of humidifiers, oxygen tubing, cannulas and masks that can be used with this device. You should contact your local home care supplier for recommendations on which of these devices will be best for you. They should also give you advice on the proper usage, maintenance, and cleaning.

**WARNING!****Risk of Injury or Death**

- To prevent injury or death from product misuse:
 - Closely supervise when this concentrator is used by or near children or impaired individuals.
 - Monitor patients using this device who are unable to hear or see alarms or communicate discomfort.

**WARNING!****Risk of Injury or Damage**

- To prevent injury or damage during use:
 - If you feel ill or uncomfortable, or if you are unable to feel the oxygen flow, consult your equipment provider and/or your physician IMMEDIATELY.

**DANGER!****Risk of Injury or Death**

- To avoid choking or ingestion of chemicals from airway contamination:
- DO NOT use the concentrator in the presence of pollutants, smoke, fumes, flammable anesthetics, cleaning agents, or chemical vapors.

**WARNING!****Risk of Injury**

- A change in altitude may affect total oxygen available to you. To prevent oxygen deprivation:
 - Consult your physician before traveling to higher or lower altitudes to determine if your flow settings should be changed.



WARNING!

Risk of Injury or Damage

To prevent injury or damage from cord misuse:

- DO NOT move or relocate concentrator by pulling on the cord.
- DO NOT use extension cords with AC power cord provided.
- Properly store and position electrical cords and/or tubing to prevent a tripping hazard.



WARNING!

Risk of Injury or Damage

To prevent injury or damage from misuse:

- NEVER leave concentrator unattended when plugged in.
- Make sure concentrator is off when not in use.



CAUTION!

Risk of Minor Injury, Discomfort or Damage

- Use of this device at an altitude above 4,000 ft (1230 m) or outside a temperature of 50° F to 95° F (10° C to 35° C) or a relative humidity above 60% is expected to adversely affect the flowrate and the percentage of oxygen and consequently the quality of therapy.



WARNING!

Risk of Injury or Damage

Invacare oxygen concentrators are specifically designed to minimize routine preventive maintenance. To prevent injury or damage:

- Only professionals of the healthcare field or persons fully conversant with this process such as factory trained personnel should perform preventive maintenance or performance adjustments on the oxygen concentrator, except for tasks described in this manual.
- Users should contact your dealer or Invacare for service.



CAUTION!

Risk of Damage

To prevent damage from liquid ingress:

- If the concentrator is not working properly, if it has been dropped or damaged, or dropped into water, call equipment supplier/qualified technician for examination and repair.
- NEVER drop or insert any object or liquid into any opening.
- For Indoor Use ONLY.

2.3 Radio Frequency Interference



WARNING!

Risk of Injury or Damage

To reduce the risk of injury or product damage from interference with wireless equipment:

- Keep concentrator at least 3.0 m (9.8 ft) away from wireless communication equipment such as wireless home network devices, mobile phones, cordless phones and base stations, walkie-talkies, etc.



WARNING!

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

This equipment has been tested and found to comply with EMC limits specified by IEC/EN 60601-1-2 for Type BF equipment. These limits are determined to provide reasonable protection against electromagnetic interference in a typical home healthcare environment. Use of this equipment in an environment with higher levels of interference could affect the accuracy of the oxygen concentration being delivered. This equipment is not intended for use in a professional healthcare environment.

Other devices may experience interference from even the low levels of electromagnetic emissions permitted by the above standards. To determine if the emissions from the concentrator are causing the interference, turn the

concentrator Off. If the interference with the other device(s) stops, then the concentrator is causing the interference. In such rare cases, interference may be reduced or corrected by one of the following measures:

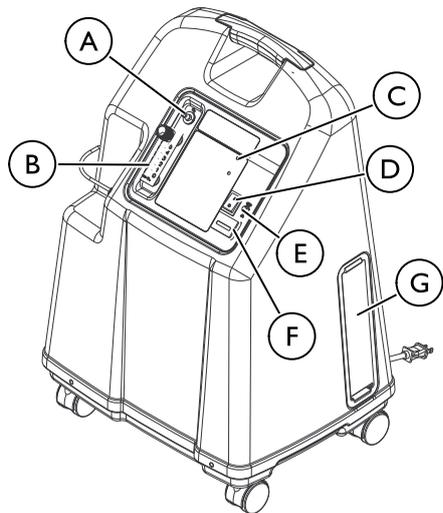
- Reposition, relocate, or increase the separation between the equipment.
- Connect the equipment into an outlet on a circuit different from that to which the other device(s) is connected.



For additional information, refer to *10.2 Electromagnetic Compliance (EMC)*, page 39.

3 Components

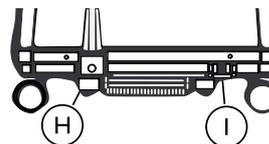
3.1 Component Identification



(A)	Oxygen Outlet
(B)	Flowmeter
(C)	Oxygen Purity Indicator Lights/Fault and Power Indicator Lights
(D)	Power Switch
(E)	Circuit Breaker

(F)	Elapsed Time Meter
(G)	Cabinet Filter

Rear View



(H)	Power Cord
(I)	HomeFill Outlet Fitting

 Accessories (Not Shown): HomeFill Home Oxygen Compressor — IOH200AW

The HomeFill outlet fitting (I) is to be used only for filling oxygen cylinders with the HomeFill Home Oxygen Compressor. The outlet fitting does not affect concentrator performance. Refer to the HomeFill System user manual for connection and operating instructions. When not in use, the plug provided with the concentrator should be inserted into the outlet fitting. For more information about the HomeFill System, contact your Invacare dealer.

3.2 Pneumatic Diagram



Fig. 3-1 Concentrator without Humidifier



Fig. 3-2 Concentrator with Humidifier

4 Accessories

4.1 Optional Accessories

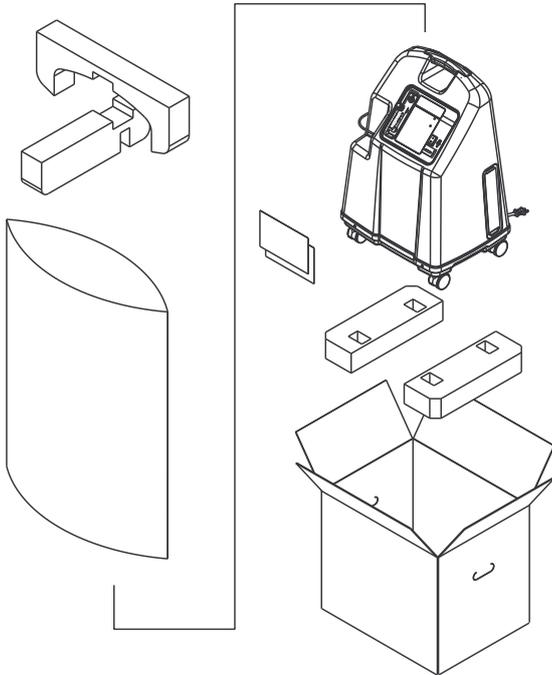
There are many different types of humidifiers, oxygen tubing, cannulas and masks that can be used with this device. You should contact your local home care supplier for recommendations on which of these devices will be best for you. They should also give you advice on the proper usage, maintenance and cleaning.

The supply accessories (nasal cannula, mask, tubing, humidifier, etc.) used to deliver oxygen to the patient need to include a means to reduce the propagation of fire in the accessories for the safety of the patient and others. If a commercially available, fire-activated flow stop device is used in the accessories setup, it should be placed as close to the patient as possible.

- High Flow Adult Nasal Cannula 2.1 m (7 ft) - 1524236
- High Flow Humidifier - 1509582
- HomeFill Home Oxygen Compressor - IOH200AW
- Oxygen Supply Tubing 4.5 m (15 ft) - M4150
- Oxygen Supply Tubing 7.6 m (25 ft) - M4250
- Oxygen Tubing Connector - M4650
- Power Cord Assembly - 1156533

5 Setup

5.1 Unpacking



1. Check for any obvious damage to the carton or its contents. If damage is evident, notify the carrier, or your local dealer.
2. Remove all loose packing from the carton.
3. Carefully remove all the components from the carton.



Unless the oxygen concentrator is to be used IMMEDIATELY, leave concentrator in its packaging for storage until use is required.

5.2 Inspection

1. Inspect/examine exterior of the concentrator for nicks, dents, cracks, scratches or other damage.
2. Inspect all components.

5.3 Storage

1. Store the repackaged oxygen concentrator in a dry area. Refer to *10.1 Specifications, page 36* for storage temperature parameters.
2. DO NOT place objects on top of repackaged concentrator.

6 Usage

6.1 Introduction

Your oxygen concentrator is intended for individual use indoors. It is an electronically operated device that separates oxygen from room air. It provides high concentration of oxygen directly to you through a nasal cannula. Clinical studies have documented that oxygen concentrators are therapeutically equivalent to other types of oxygen delivery systems.

Your supplier will show you how to use your oxygen concentrator. He/She should be contacted with any questions or problems regarding your oxygen concentrator. This user manual will tell you about your concentrator and will serve as a reference as you use your concentrator.

6.2 Select a Location

**WARNING!****Risk of Injury**

To avoid injury during therapy:

- The oxygen concentrator **MUST** be placed on a level surface for use.
- **DO NOT** relocate the oxygen concentrator while in use.

**WARNING!****Risk of Injury or Damage**

To avoid injury or damage from airborne pollutants and/or fumes and for optimal performance:

- Locate and position the concentrator in a well ventilated space so that the air intake and the air exhausts are not obstructed.
- **NEVER** block the air openings of the concentrator 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 similar foreign items.
- Keep concentrator at least 30.5 cm (12 in) away from walls, draperies and furniture.
- Avoid use in presence of pollutants, smoke or fumes, flammable anesthetics, cleaning agents or chemical vapors.
- Place concentrator in a well ventilated area to avoid airborne pollutants and/or fumes.
- **DO NOT** use in a closet.

You may select a room in your house where using your oxygen concentrator would be most convenient. Your concentrator can be easily rolled from room to room on its casters.

Your oxygen concentrator will perform best when operated under the conditions outlined in *10.1 Specifications, page 36*.

Usage in environments other than those described may result in the need for increased equipment maintenance. The air intake of the unit should be located in a well ventilated area to avoid airborne pollutants and/or fumes.

6.3 Setting Up the Concentrator

1. Plug in power cord to an electrical outlet.
2. Connect Humidifier (if so prescribed).

6.3.1 Setting Up the Humidifier (If Prescribed)



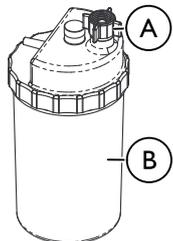
WARNING!

Risk of Injury or Damage

To avoid burns from steam or hot water, inhalation of water and/or water damage to the concentrator:

- DO NOT fill humidifier bottle with hot water. Allow boiled water to cool to room temperature before filling.
- DO NOT overfill humidifier.
- Replace the humidifier cap and securely tighten. Confirm that the cap is not cross-threaded on the humidifier bottle.
- DO NOT reverse the oxygen input and output connections. Water from the humidifier bottle will travel through the cannula back to the patient if input and output connections are reversed.
- When using tubing connections longer than 2.1 m (7 ft) in length, position the humidifier as close to the patient as possible to allow for maximum humidification output.

Humidifier Bottle with Cap



Humidifier Bottle without Cap

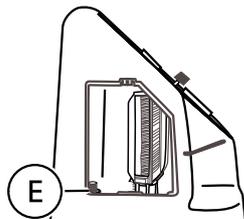
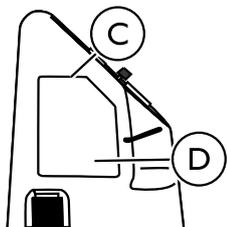


1. Remove cap **A** from bottle **B**.
2. Fill humidifier bottle with boiled tap water or bottled water to the level indicated by the manufacturer. Boil tap water for approximately ten minutes and cool to room temperature prior to use.

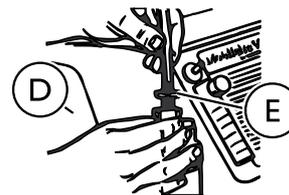


CAUTION! Risk of Damage

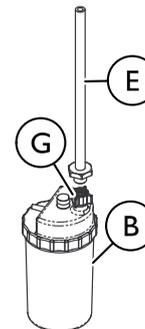
- Confirm the humidifier cap is not cross-threaded on the humidifier bottle.



3. Insert a flathead screwdriver in the plate groove **C** on the top edge of the filter access door **D** and gently pry the filter access door off.



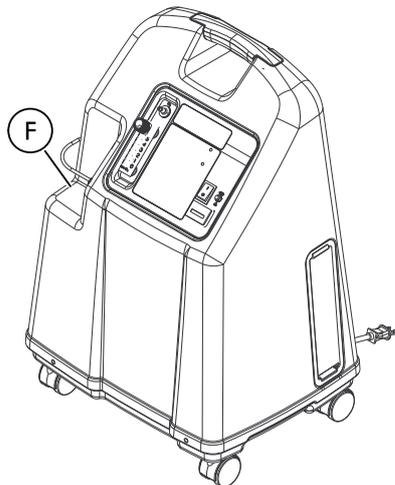
4. Pull up and remove the humidifier bottle adapter **E** (next to inlet filter).



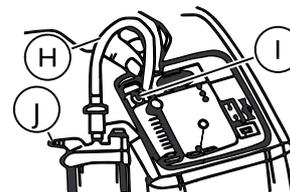
WARNING! Risk of Injury

- To avoid impacting the flow of oxygen:
- Install the humidifier bottle and/or other accessories properly.

- Attach the humidifier bottle adapter ⑤ to the humidifier bottle ⑥ by turning the wing nut ④ on the humidifier bottle counterclockwise until it is securely fastened.



- When placing the humidifier bottle in the compartment ⑥ on the concentrator, attach the humidifier bottle/adaptor tube ⑧ to the oxygen outlet connector ① on the concentrator.



i When using tubing connections longer than 2.1 m (7 ft) in length, position the humidifier as close to the patient as possible to allow for maximum humidification output.

- Connect the nasal cannula. Refer to 6.3.2 *Connecting/Positioning the Nasal Cannula*, page 22.
- Replace the filter access door on the side of concentrator by snapping it back into the plate groove.

6.3.2 Connecting/Positioning the Nasal Cannula



DANGER!

Risk of Injury or Death

The cannula can cause tripping, falling, or other injury if improperly positioned and secured. To avoid injury or death:

- The cannula **MUST** be routed and secured properly.
- **DO NOT** position the cannula around the neck. Ensure the patient can move freely while wearing the cannula.
- Avoid positioning cannulas across areas of high foot traffic (i.e. aisles, doorways, hallways, etc.)



WARNING!

Risk of Injury or Death

To avoid choking and/or strangulation from tubing entanglement:

- Keep children and pets away from nasal cannula and tubing.
- Close supervision is necessary when the nasal cannula is used by impaired individuals or near children and/or impaired individuals.



WARNING!

Risk of Injury or Death

To reduce the risk of injury or death from illness:

- Replace the nasal cannula on a regular basis. Check with your equipment provider or physician to determine how often the cannula should be replaced.
- **DO NOT** share cannulas between patients. Cannulas are for single patient use only.



CAUTION!

Risk of Minor Injury or Discomfort

To ensure proper oxygen delivery:

- Ensure the cannula prongs are positioned properly in your nose. This is critical to the effectiveness of the oxygen therapy.
- **DO NOT** use tubing/cannula length exceeding 15 m (50 ft).
- Use crush-proof oxygen tubing.
- Check for gas flow at the outlet of the cannula.

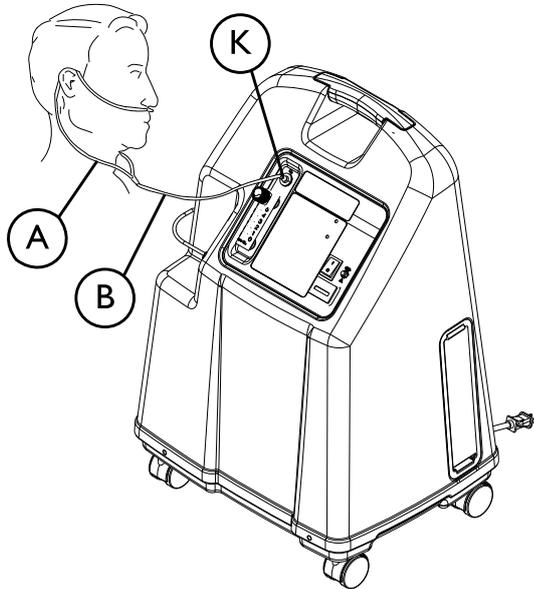


Fig. 6-1 Concentrator without Humidifier

1. Remove the cannula from its packaging.
2. Place the cannula (A) over your ears and position the prongs in your nose as instructed by your health care provider or cannula manufacturer.

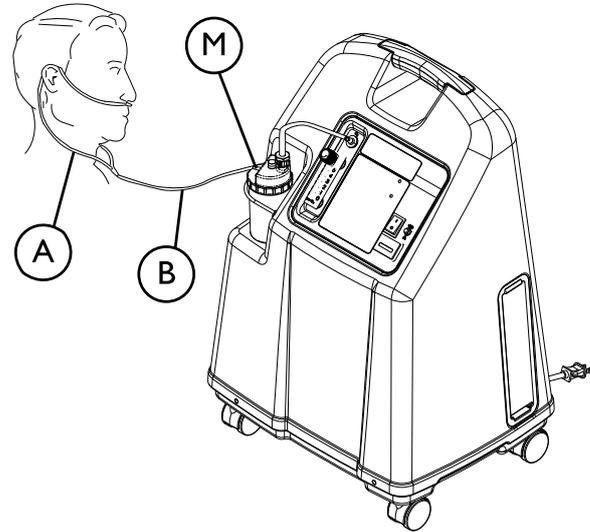


Fig. 6-2 Concentrator with Humidifier

3. Perform one of the following:
 - For use with a humidifier bottle—Attach the patient's nasal cannula supply tube (B) to the humidifier bottle outlet (M).
 - For use without a humidifier bottle—Attach the patient's nasal cannula supply tube (B) to the oxygen outlet connector (K) on the concentrator.
4. After assembly, ensure that oxygen is flowing through the nasal cannula. Refer to 6.3.3 *Turning the Concentrator On*, page 24 and 6.3.4 *Flowrate*, page 25.



Gas flow at the outlet of the cannula can be checked while the concentrator is warming up. Wave your hand in front of the nasal prongs. You should be able to hear and feel the flow of gas. If you do not feel the gas, check the cannula connection for leaks.

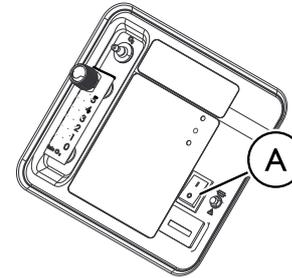


WARNING!
Risk of Injury or Damage

Failure to properly install the humidifier bottle or other accessories to the concentrator will impact the flow of oxygen.

- To check for proper operation of the oxygen concentrator and accessories, place the end of the nasal cannula under the surface of a half-full cup of water, only when the oxygen is flowing, and look for bubbles indicating proper operation. Wipe any excess water off the nasal prongs when finished before placing on the patient.
- If there are no bubbles, check all connections (including humidifier bottle and other accessories, if applicable) and repeat. Contact your dealer or service provider immediately if bubbles still do not appear.

6.3.3 Turning the Concentrator On



1. Press power switch **A** to On position.



All the panel lights and the audible alarm will come on for one second, confirming that the indicators are functioning properly.

6.3.4 Flowrate

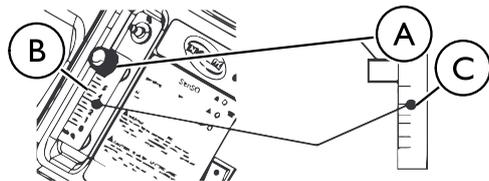


WARNING!

Risk of Minor Injury or Discomfort

It is very important to select the prescribed oxygen flow setting. This will ensure you will receive the therapeutic amount of oxygen according to your medical condition.

- DO NOT increase or decrease the L/min flow setting unless a change has been prescribed by your physician or therapist.
- The therapeutic effectiveness of the prescribed oxygen flow setting should be periodically reassessed.
- Use only the tubing and accessories that were used to determine the prescribed oxygen flow setting.



1. Turn the flowrate knob (A) to the setting prescribed by your physician or therapist.



To properly read the flowmeter (B), locate the prescribed flowrate line on the flowmeter. Next, turn the flow knob until the ball (C) rises to the line. Now, center the ball on the L/min line prescribed.

2. If the flowrate on the flowmeter ever falls below 0.5 L/min for more than about one minute, the Potential Obstruction Alert will be triggered. This is a rapid beeping of the audible alarm. Check your tubing or accessories for blocked or kinked tubing or a defective humidifier bottle. After rated flow is restored to between 0.5 L/min and 0.75 L/min, the Potential Obstruction Alert will turn off.



A Potential Obstruction Alert indicates a condition that may be associated with a partial or complete obstruction of oxygen output.

The use of some accessories and the HomeFill compressor will deactivate the Potential Obstruction Alert.

6.3.5 SensO₂ Oxygen Purity Indicator

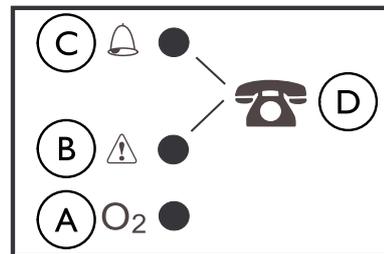
This feature monitors the purity of oxygen generated by the oxygen concentrator. If purity falls below factory preset standards, indicator lights on the control panel will illuminate.

6.3.6 Initial Startup of the Concentrator

 Concentrator may be used during the initial warm-up time (approximately 30 minutes) while waiting for the O₂ purity to reach maximum.

When the unit is turned on the yellow light will come on indicating the unit is operating and is in the initial warm-up period. When the green light comes on the unit is in normal operating mode (SYSTEM OK/O₂ greater than 85%). Once in normal operating mode the lights will be controlled depending on the oxygen concentration values.

6.3.7 Explanation of Oxygen Purity Indicator Lights



	Symbol	O ₂ Purity	Indicator Light (LED)	Explanation
Ⓐ	O ₂	SYSTEM OKAY O ₂ over 85%	GREEN light	No action is needed. Normal for operation.
Ⓑ		O ₂ between 73% and 85%	YELLOW light (Solid)	Immediately call supplier. You may continue to use the concentrator unless instructed otherwise by your supplier. Be certain that backup oxygen is nearby.

	Symbol	O ₂ Purity	Indicator Light (LED)	Explanation
(A)(B)		O ₂ unknown	GREEN light with YELLOW light flashing	Immediately call supplier. Oxygen sensor is malfunctioning. You may continue to use the concentrator.
(C)		SYSTEM FAILURE O ₂ below 73%	RED light (Solid)	Continuous Audible Alarm Sieve-GARD™ Compressor Shutdown SYSTEM FAILURE. Total unit shutdown. Immediately switch to backup oxygen supply and call supplier.
(D)		—	—	Call supplier.

6.3.8 Elapsed Time Meter (Hour Meter)

The hour meter displays the cumulative number of hours the unit has operated. Refer to *3.1 Component Identification, page 14* for specific location.

7 Maintenance

7.1 Service Life

The expected service life of this product is three years of operation when used in accordance with the safety instructions, maintenance intervals and correct use, stated in this manual. The effective service life can vary according to frequency and intensity of use. Refer to the procedures in the Maintenance section.

7.2 Cleaning the Cabinet



DANGER!
Risk of Injury or Damage

Invacare oxygen concentrators are specifically designed to minimize routine preventive maintenance. To prevent injury or damage:

- Only qualified personnel should perform preventive maintenance on the oxygen concentrator.
- DO NOT remove cabinet.



DANGER!
Risk of Injury or Damage

Liquid will damage the internal components of the concentrator. To avoid damage or injury from electrical shock:

- Turn Off the concentrator and unplug the power cord before cleaning.
- DO NOT allow any cleaning agent to drip inside the air inlet and outlet openings.
- DO NOT spray or apply any cleaning agent directly to the cabinet.
- DO NOT hose down the product.



CAUTION!
Risk of Damage

Harsh chemical agents can damage the concentrator. To avoid damage:

- DO NOT clean the cabinet or filter with alcohol and alcohol based products (isopropyl alcohol), concentrated chlorine-based products (ethylene chloride), and oil-based products (Pine-Sol®, Lestoil®) or any other harsh chemical agents. Only use mild liquid dish detergent (such as Dawn®).



At a minimum, preventive maintenance **MUST** be performed according to the maintenance record guidelines. In places with high dust or soot levels, maintenance may need to be performed more often. Refer to *7.6 Preventive Maintenance Checklist, page 32*.

Periodically clean the concentrator's cabinet as follows:

1. Use a damp cloth or sponge with a mild detergent, such as Dawn dish washing soap, to gently clean the exterior case.
2. Allow the concentrator to air dry or use a dry towel before operating the concentrator.

7.3 Cleaning the Cabinet Filter



CAUTION!

Risk of Damage

To avoid damage to the internal components of the unit:

- DO NOT operate the concentrator without the filter installed or with a dirty filter.



There are two cabinet filters located on each side of the cabinet.



1. Remove the filter (A) and clean as needed.



Environmental conditions that may require more frequent inspection and cleaning of the filter include, but are not limited to: high dust, air pollutants, etc.

2. Clean the cabinet filter with a vacuum cleaner or wash with a mild liquid dish detergent (such as Dawn) and water. Rinse thoroughly.
3. Thoroughly dry the filter and inspect for fraying, crumbling, tears and holes. Replace filter if any damage is found.
4. Reinstall the cabinet filter.

7.4 Humidifier Cleaning and Thermic Disinfection



Clean and disinfect the oxygen humidifier daily to reduce limestone deposits and eliminate possible bacterial contamination. Follow the instructions provided by the manufacturer. If none are provided, follow these steps:

1. Wash humidifier in soapy water and rinse with a solution of ten parts water and one part vinegar.
2. Rinse thoroughly with hot water.
3. Air dry thoroughly.



To limit bacterial growth, air dry the humidifier thoroughly after cleaning when not in use. Refer to *6.3 Setting Up the Concentrator, page 19* for use.

7.5 Cleaning and Disinfection Between Patients



WARNING!

Risk of Injury or Damage

To prevent injury from infection or damage to concentrator:

- Only qualified personnel should perform cleaning and disinfection of the oxygen concentrator and accessories between patients.



Follow these instructions to eliminate possible pathogen exchange between patients due to contamination of components or accessories. Preventive maintenance should also be performed at this time if necessary.

1. Dispose of and replace all patient side accessories not suitable for multiple patient use, including but not limited to:
 - Nasal Cannula and Tubing
 - Mask
 - Humidifier
2. Perform maintenance procedures described in this manual and items on the Preventive Maintenance Checklist.
3. Check concentrator for possible external damage or signs that it may require service or repair.
4. Ensure concentrator functions properly and all alarms are in working order.
5. Before repackaging and distribution to new patient, ensure packaging contents contain the concentrator, user manual, power cord, assembly instructions and labels.

7.6 Preventive Maintenance Checklist

REF

SN

ON EACH INSPECTION							
Record Date of Service							
Record Elapsed Hours on Hour Meter							
Clean Cabinet Filter(s) (Refer to Cleaning the Cabinet Filter.)							
Check Prescribed L/min Flowrate							
DURING PREVENTIVE MAINTENANCE SCHEDULE, OR BETWEEN PATIENTS							
Every 3 years of continuous use (Equivalent to 26,280 hours)							
Check Oxygen Concentration (green indicator light)							
Clean/Replace Cabinet Filter(s) (Refer to Cleaning the Cabinet Filter.)							
Check/Replace Outlet HEPA Filter*							
Check/Replace Compressor Inlet Filter*							
Check Power Loss Alarm*							
*To be conducted by supplier or qualified service technician. Refer to service manual.							

 26,280 hours are equivalent to usage 24 hours per day, 7 days per week for 3 years.

8 After Use

8.1 Recycling Information

This product has been supplied from an environmentally aware manufacturer who complies with the Waste Electrical and Electronic Equipment (WEEE) Directive 2012/19/EU. This product may contain substances that could be harmful to the environment if disposed of in places (landfills) that are not appropriate according to legislation.

Follow local governing ordinances and recycling plans regarding disposal of the concentrator or components normally used in operation. The concentrator does not generate waste or residue in operation.

- DO NOT dispose of the concentrator in the normal waste stream.
- Any accessories not part of the concentrator MUST be handled in accordance with the individual product marking for disposal.

Invacare is continuously working towards ensuring that the company's impact on the environment, locally and globally, is reduced to a minimum. We comply with the current environmental legislation (e.g. WEEE and RoHS directives). We only use REACH compliant materials and components.

8.2 Wear and Tear

Invacare reserves the right to ask for any item back that has an alleged defect in workmanship. See Warranty that shipped with the product for specific warranty information.

Refer to this user manual for proper preventive maintenance schedule and use of the product.

This is just a general guideline and does not include items damaged due to abuse and misuse.

Normal wear and tear items and components for this product are listed below.

- All types of filters
- All types of tubing



Sieve is a porous filtering material and is considered a wear item. Some factors that could affect sieve material life include humidity, temperature, particulates, air contaminates, air intake, vibration and other environmental conditions.

9 Troubleshooting

9.1 Troubleshooting

SYMPTOM	PROBABLE CAUSE	SOLUTION
<p>Alarm:</p> <p>No lights illuminated or lights flashing intermittently.</p> <p>Short Beeps, long pause</p> <p>Concentrator not operating, power switch On.</p> <p>Beep...Beep...</p>	<p>Main Power Loss:</p> <ol style="list-style-type: none"> 1. Power cord not plugged in. 2. No power at outlet. 3. Tripped circuit breaker. 4. Unit overheated, tripping internal thermal protector. 	<ol style="list-style-type: none"> 1. Insert plug into outlet. 2. Inspect house circuit breakers or fuses. If problem recurs, use a different outlet. 3. Push/reset circuit breaker. If problem recurs, call service supplier. 4. Turn power switch off and allow unit to cool. Do one or both of the following: <ol style="list-style-type: none"> a. Remove and clean cabinet filters. b. Move oxygen concentrator at least 30.5 cm (12 in) away from walls, draperies or furniture. <p>Turn power switch on. If problem recurs, call service provider.</p>
<p>Alarm:</p> <p>RED light illuminated.</p> <p>Continuous</p> <p>Concentrator not operating, power switch On.</p> <p>Beep...</p>	<p>System Failure:</p> <ol style="list-style-type: none"> 1. Unit overheating due to blocked air intake. 2. Insufficient power at outlet. 3. Internal repairs required. 	<ol style="list-style-type: none"> 1. Do one or both of the following: <ol style="list-style-type: none"> a. Remove and clean cabinet filters. b. Move oxygen concentrator at least 30.5 cm (12 in) away from walls, draperies or furniture. 2. DO NOT use extension cords. Move to another electrical outlet or circuit. 3. Call service supplier.

SYMPTOM	PROBABLE CAUSE	SOLUTION
<p>Alarm: GREEN light illuminated. Rapid Beep...Beep... Beep...Beep</p>	<p>Potential Obstruction Alert</p> <ol style="list-style-type: none"> 1. Possible internal obstruction in the oxygen path. Kinked or blocked tubing, cannula or humidifier. 2. Flowmeter set at 0.5 L/min or less. 	<ol style="list-style-type: none"> 1. Inspect for kinks or blockages. Correct, clean or replace item. Once corrected, turn power Off for 60 seconds and then turn power back On. 2. Reset flowmeter to prescribed flowrate.
<p>Alarm: YELLOW light Illuminated. Short beeps, long pause Beep.....Beep.....</p>	<p>System Failure:</p> <ol style="list-style-type: none"> 1. Low oxygen purity. 2. Kinked or blocked tubing, cannula or humidifier. 3. Flowmeter set at 0.5 L/min or less. 	<ol style="list-style-type: none"> 1. Clean or Replace filters. 2. Inspect for kinks or blockages. Correct, clean or replace item. Once corrected, turn power Off for 60 seconds and then turn power back On. 3. Check flowmeter is set to 1.0 L/min or more. Refer to <i>10.1 Specifications, page 36.</i>
<p>GREEN light with YELLOW Light Flashing.</p>	<ol style="list-style-type: none"> 1. Internal repairs required. 	<ol style="list-style-type: none"> 1. Call service supplier.

10 Technical Data

10.1 Specifications

Electrical Requirements:	230 VAC +10, -15% (253 VAC/195.5 VAC), 50 Hz
Rated Current Input:	2.3 A
Sound Pressure Level:	<p>≤ 50 dBA weighted for 3 L/min flow</p> <p>≤ 50 dBA weighted for 9 L/min flow</p>
Sound Power Level:	≤ 50 dBA weighted for 9 L/min flow
Altitude:	<p>Up to 1230 m (4,000 ft) above sea level without degradation of concentration levels.</p> <p>Atmospheric Pressure Range: 101.33 kPa – 88.0 kPa</p>
Oxygen Output Concentration Levels:	<p>92% minimum at 1 to 2 L/min</p> <p>93% minimum at 3 to 7 L/min</p> <p>91% minimum at 8 L/min</p> <p>87% minimum at 9 L/min</p> <p> Concentration levels achieved after initial warm-up period (approximately 30 minutes)</p>
Maximum Outlet Pressure:	62.0 kPa ± 3.45 kPa (9 psi ± 0.5 psi)
Flow Range:	1 L to 9 L/min. Flowrates less than 1 L/min are not recommended.
Potential Obstruction Alert:	The concentrator detects a condition that may indicate a potential obstruction of the output oxygen. Rapid audible beeping alert (this alert is deactivated when accessories are connected) may be associated with flow setting of 0.5 L/min or less.
Power Consumption:	460 W Typical

Pressure Relief Mechanism Operational at:	241 kPa \pm 34.5 kPa (35 psi \pm 5 psi)
Change in maximum recommended flow when back pressure of 7 kPa is applied:	0.7 L/min
Filters:	Cabinet (2), Outlet HEPA and Compressor Inlet
Safety System:	Current overload or line surge shutdown. High temperature compressor shutdown. Internal High Temperature shutdown. High Pressure Alarm with compressor shutdown. Low Pressure Alarm with compressor shutdown. Battery Free Power Loss Alarm. SensO ₂ Oxygen System. Possible Obstruction Alert.
Width:	46.7 cm \pm 1 cm (18 3/8 in \pm 3/8 in)
Height:	67.0 cm \pm 1 cm (26 3/8 in \pm 3/8 in)
Depth:	36.5 cm \pm 1 cm (14 3/8 in \pm 3/8 in)
Weight:	24.0 kg \pm 1 kg (53 lb \pm 2 lb)
Shipping Weight:	27.2 kg \pm 1 kg (60 lb \pm 2 lb)
Operating Ambient Temperature and Humidity:	10°C to 35°C (50°F to 95°F) at up to 60% relative humidity
Cabinet:	Impact Resistant flame-retardant plastic cabinet that conforms to UL 94 V-0
No AP/APG:	Not suitable for use in the presence of a flammable anaesthetic mixture.

Standards and Regulatory Listing:	Certified complying with: IEC/EN 60601-1 IEC/EN 60601-1-2 IEC/EN 60601-1-6 IEC/EN 60601-1-11 ISO 80601-2-69
CE marked model:	IRC9LXO2AWQ
Electrical:	No extension cords.
Placement:	No closer than 30.5 cm (12 in) from any wall, furniture, draperies or similar surfaces to assure sufficient air flow. Avoid deep pile carpets and heaters, radiators or hot air registers. Floor location only. No confined spaces (Example: No closets).
Environment:	Smoke and soot-free
Tubing:	Recommended use up to 15.2 m (50 ft) high flow tubing with high flow cannula at all flow rates.
Time of Operation:	Up to 24 hours per day
Recommended Storage and Shipping Temperature:	-29°C to 65°C (-20°F to 150°F) at up to 95% relative humidity



Measurement uncertainty is included in the device specification. All conditions at STPD (standard temperature and pressure dry).

10.2 Electromagnetic Compliance (EMC)

Guidance and manufacturer’s declaration—electromagnetic emission

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

Emissions test	Compliance	Electromagnetic environment - guidance
RF emissions CISPR 11	Group I	The Device uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class B	The Device is suitable for use in all establishments including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emissions IEC 61000-3-2	Class A	
Voltage fluctuations / flicker emissions IEC 61000-3-3	Complies	

Guidance and manufacturer’s declaration—electromagnetic immunity

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

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment – guidance
Electrostatic discharge (ESD) IEC 61000-4-2	± 2, 4, 8 kV contact ± 2, 4, 8, 15 kV air	± 2, 4, 8 kV contact ± 2, 4, 8, 15 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.

Electrical Fast transient / burst IEC 61000-4-4	± 2 kV mains, 100kHz	± 2 kV mains, 100kHz	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	± 1 kV line(s) to line(s) ± 2 kV line(s) to ground	± 1 kV line(s) to line(s) ± 2 kV line(s) to ground	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips IEC 61000-4-11	0% U_T ; 1/2 cycle @ 0, 45, 90, 135, 180, 225, 270, and 315 and 0% U_T ; 1 cycle and 70% U_T ; 25/30 cycles Single phase: at 0°	0% U_T ; 1/2 cycle @ 0, 45, 90, 135, 180, 225, 270, and 315 and 0% U_T ; 1 cycle and 70% U_T ; 25/30 cycles Single phase: at 0°	Mains power quality should be that of a typical commercial or hospital environment. If the user of the Device requires continued operation during power mains interruptions, it is recommended that the Device be powered from an un-interruptible power supply or a battery. U_T is the a. c. mains voltage prior to application of the test level.
Voltage Interruptions IEC 61000-4-11	0% U_T ; 250/300 cycle	0% U_T ; 250/300 cycle	Mains power quality should be that of a typical commercial or hospital environment. If the user of the Device requires continued operation during power mains interruptions, it is recommended that the Device be powered from an un-interruptible power supply or a battery. U_T is the a. c. mains voltage prior to application of the test level.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30 A/m, 50/60 Hz	30 A/m, 50/60 Hz	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

<p>Conducted RF IEC 61000-4-6</p>	<p>3 Vrms, 6 Vrms</p>	<p>3 Vrms, 6 Vrms</p>	<p>Portable and mobile RF communications equipment should be used no closer to any part of the Device including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.</p> <p>Recommended separation distance:</p> <p>$d = 1.2\sqrt{P}$ 150 kHz to 80 MHz</p>
<p>Radiated RF IEC 61000-4-3</p>	<p>10 V/m</p>	<p>10 V/m</p>	<p>$d = 0.35\sqrt{P}$ 80 MHz to 800 MHz $d = 0.7\sqrt{P}$ 800 MHz to 2,5 GHz</p> <p>where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in metres (m).</p> <p>Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey,^a should be less than the compliance level in each frequency range.^b</p> <p>Interference may occur in the vicinity of equipment marked with the following symbol:</p> 

^a Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the

measured field strength in the location in which the Device is used exceeds the applicable RF compliance level above, the Device should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the Device.

^b Over the frequency range 150 kHz to 80 MHz, field strengths should be less than [V1] V/m.

At 80 MHz and 800 MHz, the higher frequency range applies.

Recommended separation distances between portable and mobile RF communications equipment and the Device

The Device is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the Device can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the Device as recommended below, according to the maximum output power of the communications equipment

Rated maximum output of transmitter [W]	Separation distance according to frequency of transmitter [m]		
	150 kHz to 80 MHz $d = 1.2\sqrt{P}$	80 MHz to 800 MHz $d = 0.35\sqrt{P}$	800 MHz to 2,5 GHz $d = 0.7\sqrt{P}$
0.01	0.12	0.04	0.07
0.1	0.37	0.11	0.22
1	1.17	0.35	0.70
10	3.69	1.11	2.21
100	11.67	3.50	7.00

For transmitters rated at a maximum output power not listed above the recommended separation, distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.



These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

11 Warranty



11.1 Customer Service and Warranty Information

Terms and conditions of the warranty are part of the general terms and conditions particular to the individual countries in which this product is sold.

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