



Companion 5™



User Controls & System Status Indicators

Internal Symbols	
	Oxygen Output
	On/Off Switch
	No serviceable parts inside. Do not open cover.
ISO 7000: Graphical symbols for use on equipment—Index and synopsis	
	Storage temperature limitation range is -4°F to 140°F (-20°C to 60°C). Reg. # 0632
	Portable humidity range is 15 to 95%. Base humidity range is 30 to 75%. Reg. # 2620
	Name and address of manufacturer. Reg. # 3082
	Date of manufacturer. Reg. # 2497
	Catalog Number. Reg. # 2493
	Serial Number. Reg. # 2498
	This way up. Reg. # 0623
	Fragile, handle with care. Reg. # 0621
	Keep away from rain, keep dry. Reg. # 0626
	Read user's manual before operation. Reg. # 1641
ISO 7010: Graphical symbols—Safety colors and safety signs—Registered safety signs	
	The instruction manual must be read. Reg. # M002
	Warning. Reg. # W001
	Keep away from open flame, fire, sparks. Open ignition source and smoking prohibited. Reg. # P003
	Do not smoke near unit or while operating unit. Reg. # P002
	Type BF applied part (degree of protection against electric shock). Reg. # 5333

Council Directive 93/42/EEC; concerning medical devices	
	Authorized representative in the European Community
IEC 60417	
	Class II Equipment, Double Insulated Reg. # 5172
ETL Certification	
	Safety agency for CAN/CSA C22.2 No. 601.1 M90 for medical electrical equipment
Contains FCC ID: WAP2001 FCC Notice	
21 CFR 801.15: Code of Federal Regulations Title 21	
	Federal law restricts this device to sale by or on the order of a physician.
Council Directive 2012/19/EU: waste electrical and electronic equipment (WEEE)	
	WEEE
IEC 60601-1: Medical electrical equipment Part 1 General requirements for basic safety and essential performance	
	Drip Proof Equipment-IPX1: The Companion 5 provides protection against the harmful effects of the ingress of liquids. (IPX1, per IEC 60529)

FCC NOTICE:

This device may contain CYBLE-022001-00, including the antenna 2450AT18B100 from Johnson Technology, complies with par 15 of the FCC rules. The device meets the requirements for modular transmitter approval as detailed in FCC public Notice DA00-1407. Transmitter operation is subject to the following two conditions (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

This product may be covered by one or more patents, US and international. Please visit our website below for the listing of applicable patents. Pat.: patents.gtls.io.

Quick Start Guide

1 Unpack Your Companion 5

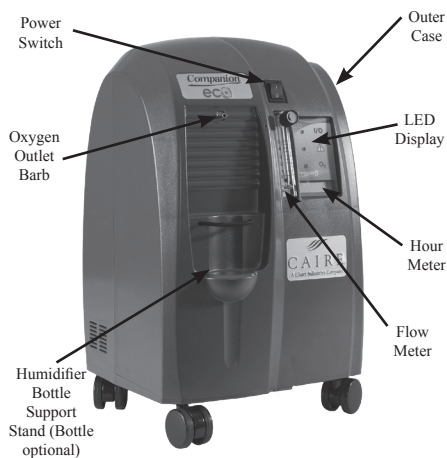
Companion 5



2 Getting to Know Your Companion 5

Review all Warnings, Cautions and additional device information in the rest of this manual. Become familiar with the key features of the Companion 5 and the User Control Panel.

FRONT



BACK



Companion 5

The Companion 5 Components

Outer Case	Durable plastic case that encloses and protects the inner components of the CAIRE Companion 5.
Power Switch	ON/OFF power switch used to initiate or stop power supply to the unit. The ON position is indicated by the "I" symbol, and the OFF position is indicated by the "O" symbol.
Outlet Barb	Oxygen exits the Companion 5 here after it has been filtered and concentrated. Either a single lumen nasal cannula or standard oxygen tubing is attached to deliver to the patient. The maximum length of oxygen tubing attached to the concentrator is 50 ft. (15.2 m).
LED Display	Contains a green, red and yellow* LED light. The green light indicates normal operation, and the yellow* and red lights indicate alarms conditions. (See the Alarm Conditions section of the instruction for more information.)
Hour Meter	Digital display of the elapsed operation time of the concentrator. Displays to the nearest tenth of an hour and cannot be reset. Displays diagnostic alarm codes when the concentrator experiences an alarm condition.
Flow Meter	Used to adjust and display the flow rate of oxygen that is delivered. Flow rates range from 0.5 - 5 liters per minute (LPM) and can be adjusted by turning the knob.
Humidifier Bottle Support Stand (Bottle optional)	Location to attach a humidifier bottle. The stand contains an elastic band used to secure the bottle on the stand. A humidifier bottle provides additional moisture to the oxygen flow. The bottle is filled with distilled water, and the moisture is used to prevent drying of the nasal tissues.

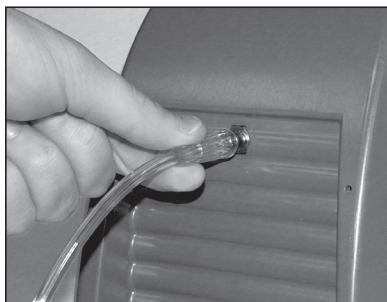
*Oxygen Concentrator Status Indicator (OCSI) models only

3 Attaching Humidifier Bottle and Cannula

If using a humidifier bottle, first fill the bottle with distilled water to the manufacturer's specified level. Place bottle in designated support stand and secure with the elastic band. Connect the threaded end of the humidifier tube to the bottle, and the other to the Companion 5 outlet barb. Connect oxygen tubing and/or a nasal cannula to the outlet barb on the humidifier bottle.

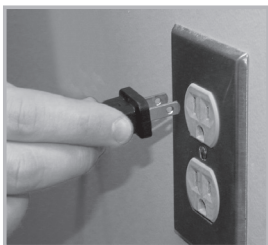


If not using a humidifier bottle, connect the oxygen tubing and/or a nasal cannula directly to the Companion 5 outlet barb.



4 Power On and Warm Up

Plug the AC power cord into an AC outlet.



Toggle the Power Switch to the On position.

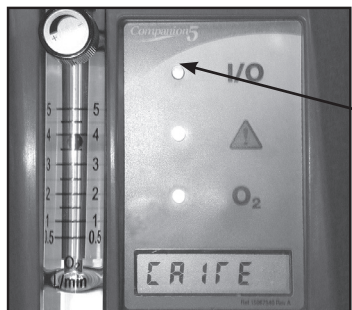


Power Switch

When the Companion 5 is powered on properly, the green power indicator on the LED Display will light up. All LED lights will illuminate upon start-up. After the concentrator completes the warm-up cycle, only the green light will remain on.

Note: After initially powering ON the device, please allow up to ten (10) minutes for the device to reach its performance specifications.

For OCSI Models: The O₂ Light will illuminate for four (4) seconds upon start-up. After this initial start-up, this light is disabled for approximately five (5) minutes while the concentration rises to specifications.



Power Indicator LED

6 Adjust Flow Setting to Prescribed Level

Use the Flow Control Knob to select the flow prescribed by your physician.

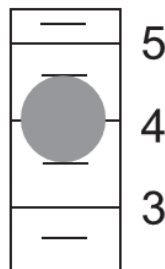


WARNING: IT IS VERY IMPORTANT TO SELECT ONLY THE PRESCRIBED LEVEL OF OXYGEN. DO NOT CHANGE THE FLOW SELECTION UNLESS YOU HAVE BEEN DIRECTED TO DO SO BY A LICENSED CLINICIAN. THE OXYGEN CONCENTRATOR MAY BE USED DURING SLEEP UNDER THE RECOMMENDATION OF A QUALIFIED CLINICIAN.

Breathe normally through the nasal cannula.

To adjust flow rate:
Turn counter-clockwise to increase flow.
Turn clockwise to decrease flow.

The middle of the ball indicates flow rate. See picture below.



Correct

Companion 5

Important!

Safety Instructions are defined as follows:



WARNING: IMPORTANT SAFETY INFORMATION FOR HAZARDS THAT MIGHT CAUSE SERIOUS INJURY.



CAUTION: Important information for preventing damage to the Companion 5.

Note: Information needing special attention.

Indications for Use

The Companion 5 is intended for the administration of supplemental oxygen. The device is not intended for life support, nor does it provide any patient monitoring capabilities.



WARNING: IT IS VERY IMPORTANT TO SELECT ONLY THE PRESCRIBED LEVEL OF OXYGEN. DO NOT CHANGE THE FLOW SELECTION UNLESS YOU HAVE BEEN DIRECTED TO DO SO BY A LICENSED CLINICIAN. THE PORTABLE OXYGEN CONCENTRATOR MAY BE USED DURING SLEEP UNDER THE RECOMMENDATION OF A QUALIFIED CLINICIAN.

WARNING: TO ENSURE RECEIVING THE THERAPEUTIC AMOUNT OF OXYGEN DELIVERY ACCORDING TO YOUR MEDICAL CONDITION, COMPANION 5 MUST BE USED ONLY AFTER ONE OR MORE SETTINGS HAVE BEEN INDIVIDUALLY DETERMINED OR PRESCRIBED FOR YOU AT YOUR SPECIFIC ACTIVITY LEVELS. COMPANION 5 MUST BE USED WITH THE SPECIFIC COMBINATION OR PARTS AND ACCESSORIES THAT ARE IN LINE WITH THE SPECIFICATION OF THE CONCENTRATOR MANUFACTURER AND THAT WERE USED WHILE YOUR SETTINGS WERE DETERMINED.

WARNING: THIS UNIT IS NOT TO BE USED FOR LIFE SUPPORT. 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 CARE GIVER TO AVOID HARM. PATIENTS WITH HEARING AND/OR SIGHT IMPAIRMENT(S) MAY NEED ASSISTANCE WITH MONITORING ALARMS.

WARNING: PREGNANT OR NURSING WOMEN SHOULD NOT USE ACCESSORIES RECOMMENDED IN THIS MANUAL, THEY MAY CONTAIN PHTHALATES.

WARNING: FEDERAL (USA) LAW RESTRICTS THIS DEVICE TO SALE OR RENTAL BY ORDER OF A PHYSICIAN OR OTHER LICENSED HEALTH CARE PROVIDER.

Contraindications for Use



WARNING: IN CERTAIN CIRCUMSTANCES, THE USE OF NON-PRESCRIBED OXYGEN CAN BE HAZARDOUS. THIS DEVICE SHOULD ONLY BE USED WHEN PRESCRIBED BY A PHYSICIAN.

WARNING: NOT FOR USE IN THE PRESENCE OF FLAMMABLE ANESTHETICS.

WARNING: AS WITH ANY ELECTRICALLY POWERED DEVICE, THE USER MAY EXPERIENCE PERIODS OF NON-OPERATION AS A RESULT OF ELECTRICAL POWER INTERRUPTION, OR THE NEED TO HAVE THE Companion 5 SERVICED BY A QUALIFIED TECHNICIAN. THE Companion 5 IS NOT APPROPRIATE FOR ANY PATIENT WHO WOULD EXPERIENCE ADVERSE HEALTH CONSEQUENCES AS THE RESULT OF SUCH TEMPORARY INTERRUPTION.

Safety Guidelines



WARNING: NO MODIFICATION OF THIS EQUIPMENT IS PERMITTED

WARNING: THE MANUFACTURER RECOMMENDS AN ALTERNATE SOURCE OF SUPPLEMENTAL OXYGEN IN THE EVENT OF A POWER OUTAGE, ALARM CONDITION, OR MECHANICAL FAILURE. CONSULT YOUR PHYSICIAN OR EQUIPMENT PROVIDER FOR THE TYPE OF RESERVE SYSTEM REQUIRED.

WARNING: THIS DEVICE SUPPLIES HIGH-CONCENTRATION OXYGEN THAT PROMOTES RAPID BURNING. DO NOT ALLOW SMOKING OR OPEN FLAMES WITHIN TWO (2) METERS OF (1) THIS DEVICE, OR (2) ANY OXYGEN-CARRYING ACCESSORY. FAILURE TO OBSERVE THIS WARNING CAN RESULT IN SEVERE FIRE, PROPERTY DAMAGE, AND/OR CAUSE PHYSICAL INJURY OR DEATH.

WARNING: DO NOT OPERATE UNIT IN A RESTRICTED OR CONFINED SPACE (I.E., A SMALL CASE OR HANDBAG) WHERE VENTILATION CAN BE LIMITED. THIS CAN CAUSE THE OXYGEN CONCENTRATOR TO OVERHEAT AND IMPAIR PERFORMANCE.



WARNING: THE CONCENTRATOR SHOULD BE LOCATED AS TO AVOID SMOKE, POLLUTANTS OR FUMES.

WARNING: THE USE OF SOME OXYGEN ADMINISTERING ACCESSORIES NOT SPECIFIED FOR THIS OXYGEN CONCENTRATOR MAY IMPAIR ITS PERFORMANCE. RECOMMENDED ACCESSORIES ARE REFERENCED WITHIN THIS MANUAL.

WARNING: IF THE OXYGEN CONCENTRATOR HAS BEEN DROPPED, DAMAGED OR EXPOSED TO WATER PLEASE CONTACT YOUR HOME CARE PROVIDER FOR INSPECTION OR POSSIBLE REPAIR OF THE DEVICE. DO NOT USE THE OXYGEN CONCENTRATOR IF IT HAS A DAMAGED POWER CORD OR PLUG.

WARNING: DO NOT ALLOW EITHER THE AIR INTAKE OR THE AIR OUTLET VENTS TO BECOME BLOCKED. DO NOT DROP OR INSERT ANY OBJECTS INTO ANY OPENINGS ON THE DEVICE. THIS CAN CAUSE THE OXYGEN CONCENTRATOR TO OVERHEAT AND IMPAIR PERFORMANCE.

WARNING: DO NOT OVERFILL THE OPTIONAL HUMIDIFIER. FILL THE OPTIONAL HUMIDIFIER WITH WATER ONLY TO THE LEVEL SHOWN BY THE MANUFACTURER OF THE HUMIDIFIER.

WARNING: DO NOT OPERATE THIS EQUIPMENT WITHOUT FIRST READING AND UNDERSTANDING THIS MANUAL. IF YOU ARE UNABLE TO UNDERSTAND THE WARNINGS AND INSTRUCTIONS, CONTACT YOUR EQUIPMENT PROVIDER BEFORE ATTEMPTING TO USE THIS EQUIPMENT; OTHERWISE, INJURY OR DAMAGE MAY RESULT.

WARNING: IF YOU FEEL DISCOMFORT OR ARE EXPERIENCING A MEDICAL EMERGENCY, SEEK MEDICAL ASSISTANCE IMMEDIATELY.

WARNING: OPERATING THE OXYGEN CONCENTRATOR OUTSIDE OF THE OPERATIONAL TEMPERATURE SPECIFICATIONS CAN LIMIT THE CONCENTRATOR'S ABILITY TO MEET OXYGEN CONCENTRATION SPECIFICATION. REFER TO THE SPECIFICATION SECTION OF THIS MANUAL FOR TEMPERATURE LIMITS.

WARNING: USE NO OIL, GREASE, OR PETROLEUM-BASED OR OTHER FLAMMABLE PRODUCTS WITH THE OXYGEN-CARRYING ACCESSORIES OR THE OXYGEN CONCENTRATOR. ONLY WATER BASED, OXYGEN COMPATIBLE LOTIONS OR SALVES SHOULD BE USED. OXYGEN ACCELERATES THE COMBUSTION OF FLAMMABLE SUBSTANCES.

WARNING: THE OXYGEN CONCENTRATOR SHOULD NOT BE USED ADJACENT TO OR STACKED WITH OTHER EQUIPMENT. IF ADJACENT OR STACKED USE IS UNAVOIDABLE, THE DEVICE SHOULD BE OBSERVED TO VERIFY NORMAL OPERATION.



WARNING: THE MANUFACTURER RECOMMENDS AN ALTERNATE SOURCE OF SUPPLEMENTAL OXYGEN IN THE EVENT OF A POWER OUTAGE, ALARM CONDITION, OR MECHANICAL FAILURE. CONSULT YOUR PHYSICIAN OR EQUIPMENT PROVIDER FOR THE TYPE OF RESERVE SYSTEM REQUIRED.

WARNING: THIS DEVICE SUPPLIES HIGH-CONCENTRATION OXYGEN THAT PROMOTES RAPID BURNING. DO NOT ALLOW SMOKING OR OPEN FLAMES WITHIN THE SAME ROOM OF (1) THIS DEVICE, OR (2) ANY OXYGEN-CARRYING ACCESSORY. FAILURE TO OBSERVE THIS WARNING CAN RESULT IN SEVERE FIRE, PROPERTY DAMAGE, AND/OR CAUSE PHYSICAL INJURY OR DEATH.

WARNING: THE USE OF SOME OXYGEN ADMINISTERING ACCESSORIES NOT SPECIFIED FOR THIS OXYGEN CONCENTRATOR MAY IMPAIR ITS PERFORMANCE. RECOMMENDED ACCESSORIES ARE REFERENCED WITHIN THIS MANUAL.

WARNING: IF THE OXYGEN CONCENTRATOR HAS BEEN DROPPED, DAMAGED OR EXPOSED TO WATER PLEASE CONTACT YOUR HOME CARE PROVIDER FOR INSPECTION OR POSSIBLE REPAIR OF THE DEVICE. DO NOT USE THE OXYGEN CONCENTRATOR IF IT HAS A DAMAGED POWER CORD OR PLUG.

WARNING: USE ONLY SPARE PARTS RECOMMENDED BY THE MANUFACTURER TO ENSURE PROPER FUNCTION AND TO AVOID THE RISK OF FIRE AND BURNS.

WARNING: DO NOT LUBRICATE FITTINGS, CONNECTIONS, TUBING OR OTHER ACCESSORIES OF THE OXYGEN CONCENTRATOR TO AVOID THE RISK OF FIRE AND BURNS.

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WARNING: SMOKING WHILE USING OXYGEN IS THE NUMBER ONE CAUSE OF FIRE INJURIES AND RELATED DEATHS. YOU MUST FOLLOW THESE SAFETY WARNINGS:

WARNING: DO NOT ALLOW SMOKING, CANDLES, OR OPEN FLAMES IN THE SAME ROOM WITH THE DEVICE OR THE OXYGEN-CARRYING ACCESSORIES.

WARNING: SMOKING WHILE WEARING AN OXYGEN CANNULA MAY CAUSE FACIAL BURNS AND POSSIBLY DEATH.

WARNING: IF YOU SMOKE, THESE 3 STEPS MAY SAVE YOUR LIFE: TURN OFF THE OXYGEN CONCENTRATOR, TAKE OFF THE CANNULA, AND LEAVE THE ROOM WHERE THIS DEVICE IS LOCATED.

WARNING: "NO SMOKING – OXYGEN IN USE" SIGNS MUST BE PROMINENTLY DISPLAYED IN THE HOME, OR WHERE OXYGEN IS IN USE. PATIENTS AND THEIR CAREGIVERS MUST BE INFORMED ABOUT THE DANGERS OF SMOKING IN THE PRESENCE OF, OR WHILE USING, MEDICAL OXYGEN.

WARNING: DO NOT USE YOUR OXYGEN CONCENTRATOR IN THE PRESENCE OF FLAMMABLE GASES. THIS CAN RESULT IN RAPID BURNING CAUSING PROPERTY DAMAGE, BODILY INJURIES OR DEATH.

WARNING: REMOVING THE CANNULA AND PUTTING IT ON CLOTHING, BEDDING, SOFAS, OR OTHER CUSHION MATERIAL WILL CAUSE A FLASH FIRE WHEN EXPOSED TO A CIGARETTE, HEAT SOURCE, OR FLAME.

WARNING: DO NOT LEAVE A NASAL CANNULA ON OR UNDER CLOTHING, BED COVERINGS OR CHAIR CUSHIONS. IF THE UNIT IS TURNED ON BUT NOT IN USE, THE OXYGEN WILL MAKE THE MATERIAL FLAMMABLE. SET THE I/O POWER SWITCH TO THE 0 (OFF) POSITION WHEN THE OXYGEN CONCENTRATOR IS NOT IN USE.

WARNING: ONLY ACCESSORIES RECOMMENDED BY THE MANUFACTURER. USE OF ANY OTHER MAY BE HAZARDOUS, CAUSE SERIOUS DAMAGE TO YOUR OXYGEN CONCENTRATOR AND WILL VOID THE WARRANTY.



CAUTION: Always disconnect AC power supply from the wall before disconnection the AC power supply from the oxygen concentrator.

CAUTION: Always place oxygen supply tubing and power cords in a manner that prevents a trip hazard.



CAUTION: To prevent a void warranty, follow all manufacturers' instructions.

Note: Portable and mobile RF communications equipment can effect medical electrical equipment.



WARNING: DO NOT ATTEMPT ANY MAINTENANCE OTHER THAN THE POSSIBLE SOLUTIONS LISTED WITHIN THIS MANUAL. DO NOT REMOVE COVERS, ONLY YOUR EQUIPMENT PROVIDER OR A QUALIFIED SERVICE TECHNICIAN SHOULD REMOVE THE COVERS OR SERVICE THIS DEVICE.

Specifications

For proper use of the device, the following chart provides important information concerning the recommended operating environments, or operating conditions.

Specifications

Flow Rates	0.5–5.0 LPM
O₂ Concentration	90% (+5.5%/-3%)
Dimensions	21.5x12.5x13.5" (54.6x31.8x34.2 cm)
Weight	36 lbs (16.3 kg)
Sound Pressure Level	50 dB(A) at 2.0 LPM
Power Consumption	285 W @ 2 LPM, 350 W Maximum
Operating Temperature	41° F to 104° F (5° to 40°C)
Operating Humidity	up to 95% at an 82.4° F (28° C) dew point
Storage Temperature	-40° F to 158° F (-40° C to 70° C)
Storage Humidity	up to 95% Non-Condensing
Electrical	Use no extension cords. Use no electrical outlets controlled by a switch.
Operating Altitude	-1253–9879 feet (-382–3011 meters)
Operating Time	up to 24-hours a day

The expected service life of the equipment is a minimum of five years.



WARNING: USE OF THIS DEVICE AT AN ALTITUDE ABOVE 9879 FEET (3011 METERS) OR OUTSIDE TEMPERATURE OF 41° F TO 104° F (5° TO 40°C) OR A RELATIVE HUMIDITY ABOVE 95% IS EXPECTED TO ADVERSELY AFFECT THE FLOWRATE AND THE PERCENTAGE OF OXYGEN AND CONSEQUENTLY THE QUALITY OF THE THERAPY.

Note: If the Oxygen Concentrator has been stored for an extended period of time outside its normal operating temperature range, the unit should be allowed to return to normal operating temperature before being turned on. (Refer to the Specifications section in this manual.)

Proper Placement of the Companion 5

Select a location for the device that avoids the intake of smoke, fumes and pollutants. Correct placement of the device should allow intake of air through the three air intake locations at the top rear and underneath the cabinet, and also allow for exhaust air to freely leave the exhaust vent at the bottom left of the device.

Air intakes are located on the upper back and bottom of the concentrator. Locate the unit so that there is at least 12 inches (30 cm) of space between the concentrator and any walls, furniture, curtains, or other obstructions.

Place the device such that the alarms can be heard.

Position the oxygen supply tubing in such a way that it does not kink or occlude.



WARNING: DO NOT USE YOUR OXYGEN CONCENTRATOR IN THE PRESENCE OF FLAMMABLE GASES. THIS CAN RESULT IN RAPID BURNING CAUSING PROPERTY DAMAGE, BODILY INJURIES OR DEATH. USE NO OIL, GREASE, OR PETROLEUM-BASED OR OTHER FLAMMABLE PRODUCTS WITH THE OXYGEN-CARRYING ACCESSORIES OR THE OXYGEN CONCENTRATOR. ONLY WATER BASED, OXYGEN COMPATIBLE LOTIONS OR SALVES SHOULD BE USED. OXYGEN ACCELERATES THE COMBUSTION OF FLAMMABLE SUBSTANCES.

WARNING: THIS DEVICE SUPPLIES HIGH-CONCENTRATION OXYGEN THAT PROMOTES RAPID BURNING. DO NOT ALLOW SMOKING OR OPEN FLAMES WITHIN THE SAME ROOM OF (1) THIS DEVICE, OR (2) ANY OXYGEN-CARRYING ACCESSORY. FAILURE TO OBSERVE THIS WARNING CAN RESULT IN SEVERE FIRE, PROPERTY DAMAGE, AND/OR CAUSE PHYSICAL INJURY OR DEATH.

Operating Instructions

Before Operating

This user manual serves as your reference to help you operate and maintain the device. If you have any questions or concerns please call your home care provider.

Important! DO NOT attempt to operate the Companion 5 without first reading the Safety Guidelines section of this manual. Please follow all of the operating instructions. Please observe all Warnings on the device and in the Users Manual. In order to reduce the risk of fire, personal injury and serious damage to the Companion 5, please observe all of the safety precautions.

The CAIRE Companion 5 does not create its own oxygen. It produces highly concentrated oxygen from surrounding room air and delivers it to you. As it naturally exists, room air contains approximately only 21% oxygen by volume.

Room air is drawn into the concentrator by a compressor. The air then travels through a series of filters and a molecular sieve bed that chemically adsorbs nitrogen molecules. As a result, the oxygen-enriched air that exits the concentrator is delivered at 87–95% oxygen by volume.



WARNING: CLEAN THE CABINET, CONTROL PANEL, AND POWER CORD ONLY WITH A MILD HOUSEHOLD CLEANER APPLIED WITH A DAMP (NOT WET) CLOTH OR SPONGE, AND THEN WIPE ALL SURFACES DRY. DO NOT ALLOW ANY LIQUID TO GET INSIDE THE DEVICE. PAY SPECIAL ATTENTION TO THE OXYGEN OUTLET FOR THE CANNULA CONNECTION TO MAKE SURE IT REMAINS FREE OF DUST, WATER, AND PARTICLES.



CAUTION: Do not allow either the air intake or the air outlet vents to become blocked. This can cause the Oxygen Concentrator to overheat and impair performance. Do not operate the Oxygen Concentrator without the air intake filter in place. If a second filter is provided, insert the "replacement" filter before you clean the dirty filter. Clean the dirty filter in a warm soap and water solution then dry thoroughly prior to use.

Step 1: Positioning Your Companion 5 for Use

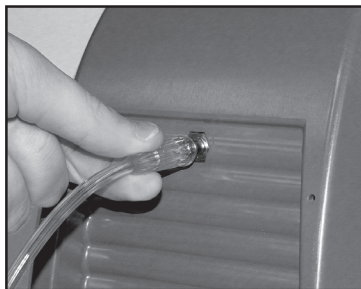
Place the Companion 5 in a well-ventilated, well lit area. Be sure the air inlet and exhaust vents are not obstructed. Position the Companion 5 so that all audible and visual indicators or alarms can be easily seen and heard.

Plug the device into an AC Power outlet.

Step 2: If the Humidifier Bottle WILL NOT be Used



- Connect a nasal cannula or oxygen tubing directly to the oxygen outlet barb.



- Proceed to step 4.

Step 3: If the Humidifier Bottle WILL be Used

- Unscrew the lid from the humidifier bottle.
- Fill the bottle using distilled water. Make sure the water level is between the manufacturer's specified maximum and minimum levels shown on the bottle.
- Secure the lid of the humidifier bottle. Ensure that there are no leaks.
- Connect a nasal cannula or standard oxygen tubing to the outlet barb on the humidifier bottle.

Note: Use of a humidifier not specified for use with this concentrator might affect its performance.



- e. Connect the threaded end of the humidifier tube to the lid of the humidifier bottle.



- f. Connect the other end of the humidifier tube to the outlet barbs of the CAIRE Companion 5.



- g. Place the bottle in its designated space on the Humidifier Bottle Support Stand.
- h. Secure the bottle on the stand using the elastic band.



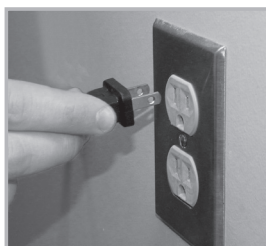
- i. Proceed to step 4.

Step 4: Power On and Warm Up

- a. Plug the electrical cord of the CAIRE Companion 5 into an AC outlet.



WARNING: INSPECT THE ELECTRICAL CORD FOR DAMAGE BEFORE USE. IF THE CORD IS DAMAGED, DO NOT PLUG IT INTO AN ELECTRICAL OUTLET OR ATTEMPT TO OPERATE THE CONCENTRATOR.



- b. Press the power switch in the “ON” (I) position. When the Companion 5 is powered on properly, the green indicator on the LED Display will light up. All LED lights will illuminate upon start-up. After the concentrator completes the warm-up cycle, only the green light will remain on.

Note: After initially powering ON the device, please allow up to ten (10) minutes for the device to reach its performance specifications.

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For OCSI Models: The O2 Light will illuminate for four (4) seconds upon start-up. After this initial start-up, this light is disabled for approximately five (5) minutes while the concentration rises to specifications.

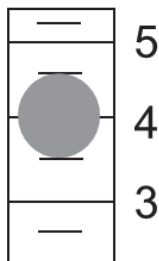
Step 5: Adjust Flow Control Rate

- Turn the flow control knob to the oxygen flow rate (LPM) prescribed by your physician.



To adjust flow rate:
Turn counter-clockwise to increase flow.
Turn clockwise to decrease flow.

The middle of the ball indicates flow rate. The image below indicates a flow rate of 4.0 LPM.



Correct



WARNING: IT IS VERY IMPORTANT TO SELECT ONLY THE PRESCRIBED LEVEL OF OXYGEN. DO NOT CHANGE THE FLOW SELECTION UNLESS YOU HAVE BEEN DIRECTED TO DO SO BY A LICENSED CLINICIAN. THE OXYGEN CONCENTRATOR MAY BE USED DURING SLEEP UNDER THE RECOMMENDATION OF A QUALIFIED CLINICIAN.

Step 6: Verify Flow and Breathe Normally

- Verify that oxygen is indeed flowing through the nasal cannula and that there are no kinks, bends, or blockages in the tubing.

Note: Ensure the cannula is fully inserted and secure. You should hear or feel oxygen flow to the prongs of the nasal cannula.

- Properly position your nasal cannula and breathe normally through the nasal cannula.

Step 7: Turn Off

- Press the power switch in the “OFF” (O) position when the CAIRE Companion 5 is no longer in use.



CAUTION: Use only accessories recommended by the manufacturer. Use of any other may be hazardous, cause serious damage to your oxygen concentrator and will void the warranty.

CAUTION: Do not use extension cords with this unit or connect too many plugs into the same electrical outlet. The use of extension cords could adversely affect the performance of the device. Too many plugs into one outlet can result in an overload to the electrical panel causing the breaker/fuse to activate or fire if the breaker or fuse fails to operate.

CAUTION: Use of cables and adapters other than those specified, with the exception of cables and adapters sold by the manufacturer of the medical electrical equipment as replacement parts for internal components, may result in increased emissions of decreased immunity of the Oxygen Concentrator.



WARNING: DO NOT ALLOW EITHER THE AIR INTAKE OR THE AIR OUTLET VENTS TO BECOME BLOCKED. THIS CAN CAUSE THE OXYGEN CONCENTRATOR TO OVERHEAT AND IMPAIR PERFORMANCE.

Note: To Equipment Provider: The following oxygen administration accessories are recommended for use with the Oxygen Concentrator:

- Nasal Cannula with 7 feet (2.1 m) of tubing (Maximum LPM: 6 LPM): CAIRE Part Number CU002-1
- Humidifier Adaptor Tubing: CAIRE Part number 20843882
- Humidifier Bottle: CAIRE Part Number HU003-1
- For a list of additional recommended accessories, please see the Accessories Catalog (PN ML-LOX0010) available on www.CAIREmedical.com.
- A firebreak is required for use with any cannula. CAIRE offers the OxySafe™ as an optional accessory. This is intended to be used in conjunction with the Companion 5 concentrator.

The OxySafe™ is a thermal fuse to stop the flow of gas in the event that the downstream cannula or oxygen tubing is ignited and burns to the OxySafe. It is placed in-line with the nasal cannula or oxygen tubing between the patient and the oxygen outlet of the Companion 5.

For proper use of the OxySafe, always refer to the manufacturer's instructions (included with each OxySafe kit).

CAIRE offers an OxySafe™ kit that includes a cannula headpiece, OxySafe™, and 7' tubing: PN 20628667

Companion 5

Alarm Conditions

Your CAIRE Companion 5 uses a combination of two or three (for models with OCSI) LED lights and an audible alarm to alert you when there is a malfunction with your concentrator.

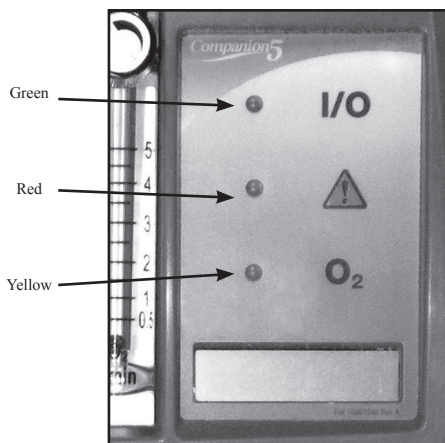
- 1) Green LED - Indicates normal operation.
- 2) Red LED - Indicates system malfunction. See Alarm Conditions Table below for more details.
- 3) Yellow LED (OCSI Models Only) - Indicates low oxygen concentration. See Alarm Conditions Table below for more details.

The Alarm Conditions Table on the following page shows the different alarm conditions that can be displayed by the concentrator. It outlines possible causes and the actions you should take if the alarm is experienced. In the case of any alarm, it is recommended that you contact your healthcare provider as soon as possible.

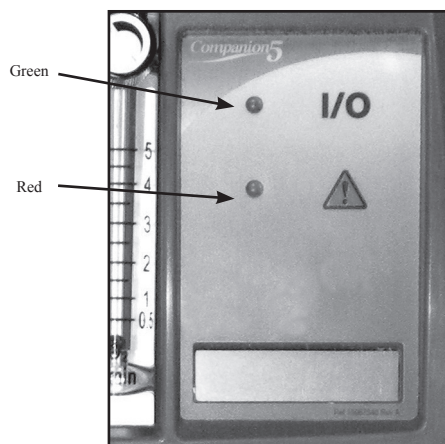


WARNING: DO NOT IGNORE ALARMS

WARNINGS: THE MANUFACTURER RECOMMENDS AN ALTERNATE SOURCE OF SUPPLEMENTAL OXYGEN IN THE EVENT OF A POWER OUTAGE, ALARM CONDITION, OR MECHANICAL FAILURE. CONSULT YOUR PHYSICIAN OR EQUIPMENT PROVIDER FOR THE TYPE OF RESERVE SYSTEM REQUIRED.



Above: Companion 5 with OCSI
Below: Companion 5 without OCSI



Alarm Conditions Table

Audible Alarm	Colored LED	Cause	Your Action
Off	Green Solid	The concentrator is working properly.	None
Continuous	RED Solid	The concentrator has lost power but the power switch is still in the "ON" position.	Verify that the concentrator's electrical cord is plugged into an outlet and that the outlet has power. Try a different outlet. If the problem continues, connect to a back-up oxygen supply and contact your healthcare provider.
Continuous	RED Solid	System Malfunction	Turn the power switch in the "OFF" position immediately. Disconnect the AC Power from the wall outlet. Wait 5 minutes. Connect the AC Power back into the wall outlet and turn the concentrator back on again. If the alarm continues, service is required. Connect to a backup oxygen supply and contact your healthcare provider immediately.
Beeping	RED Flashing	Product Flow Rate Too High or Too Low	<ol style="list-style-type: none"> 1. Ensure that the cannula is not kinked or blocked. If used with a humidifier bottle, ensure that it is filled properly and not creating a blockage. 2. Ensure that the Companion 5 has proper ventilation. It needs to be at least 12 inches (30 cm) from any surface to ensure the vents are not blocked. 3. If the problem persists, switch to an alternate source of oxygen and contact healthcare provider for assistance.
Continuous	Yellow Solid	The Companion 5 has detected low oxygen levels.	<ol style="list-style-type: none"> 1. Ensure the air intake filter and exhaust locations are not clogged or restricted. 2. Ensure the Companion 5 is in a well-ventilated area. Make sure there are at least 12 inches between the back and sides of the Companion and any obstructions (furniture, curtain, etc.). 3. If the condition persists, switch to an alternate source of oxygen and contact your healthcare provider immediately.
Beeping	Yellow Flashing	The Companion 5 has detected low oxygen levels.	

Companion 5

Troubleshooting

It is recommended that you contact your healthcare provider if your concentrator displays any alarms or if you feel that your concentrator is not working properly. You should not attempt to repair the concentrator yourself. Repair should only be performed by a trained service technician. However, there are

some troubleshooting steps that you can take if you experience problems with your CAIRE Companion 5. They are outlined in the following table. You can use this chart by following the checks for your problem in numerical order.

User Troubleshooting Table

Problem	Possible Cause	Your Action
The concentra- tor is turned on, but it is not running.	1. The electrical cord is not plugged in to an outlet.	1. Plug in the electrical cord.
	2. The electrical outlet is not providing power.	2. Check your household fuse and circuit. Try a different outlet.
	3. Internal failure.	3. Connect to a back-up oxygen supply. Contact your healthcare provider immediately.
You are experi- encing low or no oxygen flow.	1. The flow control setting has been changed.	1. Verify that the flow control knob is set on your appropriate Liter Per Minute (LPM) setting prescribed by your doctor.
	2. Tubing has been disconnected.	2. Verify that the tubing is tight at all connections (outlet barb, humidifier bottle, water trap, etc). Re-secure any connections if necessary.
	3. The oxygen tubing or cannula is kinked.	3. Check for kinks or blockages in your tubing. Repair if needed.
	4. There is a leak in your cannula or tubing.	4. Inspect all tubing and the cannula for leaks. You can do this by either listening or feeling for escaping air. Replace leaky tubing or cannula.
	5. Air flow into the concentrator is impeded.	5. Verify that nothing is blocking the inlets of the concentrator. Be sure it is at least 12 inches (30 cm) away from furniture, walls, or other obstructions.
	6. Internal failure.	6. Connect to a back-up oxygen supply. Contact your healthcare provider immediately.

Note: If your Companion 5 is still alarming after using the Alarm Conditions and Troubleshooting tables, please contact Technical Service at 1-800-482-2473 with the alarm code displayed on the LCD Display.

Cleaning, Care & Routine Maintenance

Routine Maintenance

Routine maintenance consists of changing the handle gross particle filter once per week (if installed).

User Care and Cleaning of the Device Cannula Replacement

Replace your supply tubing and cannula on a regular basis as recommended by your home care provider. Your physician or home care provider will provide you with cleaning, disinfection and replacement information.

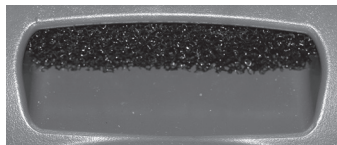
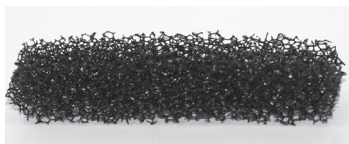
Note: Always follow the cannula manufacturer's instructions for proper use. Replace the disposable cannula as recommended by the cannula manufacturer or your Equipment Provider. Additional supplies are available from your Equipment Provider.

Air Intake Filter (Cartridge)

The Air Intake Filter should only be accessed or changed by your healthcare provider.

Gross Particle Filter (Optional):

Your equipment provider may choose to install a gross particle (foam) filter on your Companion 5. If so, this is located inside the device handle at the upper back of the Companion 5.



If this filter is installed, you should inspect and clean it once weekly. To clean the filters, use the following process:

- 1) Remove the gross particle filter.
- 2) Wash the filter in warm tap water using a mild soap detergent solution.
- 3) Rinse the filter thoroughly with clear tap water and squeeze out the excess water.

4) Allow the filter to air dry.

5) Reinsert the filter in the cabinet.

Note: The Manufacturer does not recommend the sterilization of this equipment.

Note: Do not operate the Oxygen Concentrator without the air intake filter in place.

Humidifier Bottle (if Applicable)

You should check your humidifier bottle daily to ensure that its water level is between the specified minimum and maximum levels. Refill the bottle as necessary using distilled water. Clean the humidifier bottle in accordance with the manufacturers' instructions.

Cleaning Procedure:

Turn OFF the Companion 5 and disconnect from AC power before any cleaning or disinfecting activity. DO NOT spray the outer case directly. Use a damp (not wet) cloth or sponge. Spray the cloth or sponge with a mild detergent solution to clean the cabinet and power cord. To disinfect the Companion 5, use Lysol® Brand II disinfectant (or equivalent). Dilute as directed by the manufacturer of the cleaning product, but do not spray liquid directly on the Companion 5.



WARNING: ELECTRICAL SHOCK HAZARD. TURN OFF THE UNIT AND DISCONNECT THE POWER CORD FROM THE ELECTRICAL OUTLET BEFORE YOU CLEAN THE UNIT TO PREVENT ACCIDENTAL ELECTRICAL SHOCK AND BURN HAZARD. ONLY YOUR EQUIPMENT PROVIDER OR A QUALIFIED SERVICE TECHNICIAN SHOULD REMOVE THE COVERS OR SERVICE THE UNIT.

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Companion 5

WARNING: ELECTRICAL SHOCK HAZARD. DISCONNECT THE POWER CORD FROM THE ELECTRICAL OUTLET BEFORE YOU CLEAN THE UNIT TO PREVENT ACCIDENTAL ELECTRICAL SHOCK AND BURN HAZARD. ONLY YOUR EQUIPMENT PROVIDER OR A QUALIFIED SERVICE TECHNICIAN SHOULD REMOVE THE COVERS OR SERVICE THE UNIT.

WARNING: CARE SHOULD BE TAKEN TO PREVENT THE OXYGEN CONCENTRATOR FROM GETTING WET OR ALLOWING FLUIDS TO ENTER THE UNIT. THIS CAN CAUSE A MALFUNCTION OR SHUT DOWN, AND CAUSE AN INCREASED RISK FOR ELECTRICAL SHOCK OR BURNS.

WARNING: CLEAN THE CABINET, CONTROL PANEL, AND POWER CORD ONLY WITH A MILD HOUSEHOLD CLEANER APPLIED WITH A DAMP (NOT WET) CLOTH OR SPONGE, AND THEN WIPE ALL SURFACES DRY. DO NOT ALLOW ANY LIQUID TO GET INSIDE THE DEVICE. PAY SPECIAL ATTENTION TO THE OXYGEN OUTLET FOR THE CANNULA CONNECTION TO MAKE SURE IT REMAINS FREE OF DUST, WATER, AND PARTICLES.

WARNING: DO NOT USE LIQUID DIRECTLY ON THE UNIT. A LIST OF UNDESIRABLE CHEMICAL AGENTS INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING: ALCOHOL AND ALCOHOL-BASED PRODUCTS, CONCENTRATED CHLORINE-BASED PRODUCTS (ETHYLENE CHLORIDE), AND OIL-BASED PRODUCTS (PINE-SOL®, LESTOIL®). THESE ARE NOT TO BE USED TO CLEAN THE PLASTIC HOUSING ON OXYGEN CONCENTRATOR, AS THEY CAN DAMAGE THE UNIT'S PLASTIC.

NOTES:

[illegible]



www.cairemedical.com



CAIRE Inc.
2200 Airport Industrial Dr., Ste. 500
Ball Ground, GA 30107 U.S.A.



Medical Product Service GmbH
Borngasse 20
35619 Braunfels, Germany



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