



PATIENT
OPERATING
INSTRUCTIONS

HI FLOW STROLLER

Hi Flow Stroller

Warning Information

Read this page carefully before using your unit.

-  • The unit contains liquid oxygen which is extremely cold; almost 300 degrees below zero Fahrenheit. Exposure to such a low temperature can cause severe frostbite.
-  • Liquid and gaseous oxygen, though nonflammable, cause other materials to burn faster than normal. This hazard, along with the low temperature of liquid oxygen, warrants certain safety precautions.
- Do not use or store your unit in an area where combustible materials such as oils, greases, aerosol sprays, lotions or solvents are present.
-  • **Do not smoke while operating unit.**
- Do not use or store your unit within five feet of electrical appliances, especially stoves, heaters, toasters, and hair dryers.



- Keep your unit in a well-ventilated area.
- In the event of an accidental tip-over, immediately but cautiously return unit into an upright position.
If any liquid oxygen is escaping, leave the area immediately and call your health care provider.



- **Do not touch the frosted parts of any unit.**
- Do not store or operate the portable coupled to the Liberator/Low Loss.
- Applicable EMC information can be found in the Hi Flow Stroller Service Manual at www.cairemedical.com.

Explanation of Other Symbols



Name and address of manufacturer



Authorized representative in the European Community



Caution, consult accompanying documents



Non-flammable gas



Oxidizing substances



Type B Applied Part (degree of protection against electric shock)

Patient's Records

Patient's Name

Prescribed Oxygen Flow Setting

Doctor's Telephone Number

Distributor's Name

Person to Contact

Distributor's Emergency Telephone Number

Special Instructions

Hi Flow Stroller

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Specifications:

- Mode of Operation: Continuous
- Type of Protection Against Electric Shock: Internally Powered Equipment
- Degree of Protection Against Electric Shock: Type B Applied Part
- Classification according to the degree of protection against ingress of water: IPX0 - Ordinary Equipment
- Equipment is not suitable for use in the presence of flammable mixtures

Important: *Read this manual thoroughly before operating the Hi Flow Stroller.*

Rx only.

Warning: *This device is not intended for life sustaining use.*

Caution: *Use the Hi Flow Stroller only as directed by your doctor.*

Warning: *If you feel the equipment is not working properly, call your health care provider. Do not attempt to repair or adjust the units yourself.*

Hi Flow Stroller

Introduction

The liquid oxygen system includes a stationary unit and the Hi Flow Stroller, which provides supplementary oxygen as prescribed by your physician. This POI contains the instructions for using the Hi Flow Stroller. Refer to the POI supplied with the stationary unit for its operation.

The Liberator is the larger container and is intended for stationary use. You may take oxygen directly from the Liberator. The unit is filled by your health care provider.

The Hi Flow Stroller provides an ambulatory source of oxygen for an extended period of time. They are filled from the Liberator.



Hi Flow Stroller

Controls

1. Electronic Liquid Level Gauge
2. Flow Control Knob
3. Oxygen Tube Connector
4. Vent Valve
5. Fill Connections (see next page for QDV Identification)
6. Carrying Strap with Shoulder Pad
7. Condensation Pad



Hi Flow Stroller

Quick Disconnect Valve (QDV) Identification

Portable Connector:							
Stationary Connector:							
QDV Style:	CAIRE Side Fill	LINCARE (UC)	CRYO2	LIFE-OX	PENOX	TAEMA	PB
	SF Locking	TF Locking			TF Push-on		

Hi Flow Stroller

To Fill the Top Fill Hi Flow Stroller

1. Clean the fill connectors on both the stationary and the Hi Flow Stroller with a clean, dry, lint-free cloth.

Caution: *The fill connectors must be dry, because moisture can cause your Hi Flow Stroller and stationary unit to freeze together.*

2. Make sure the flow control is in the off (0) position.

3. Position the fill connector in the upright position over the stationary unit's connector.



Step 3

4. a. If your connector is a push-on:
Lower the Hi Flow Stroller unit on to the stationary until you feel the connector engage.



Step 4a



Step 4b



Step 4c

- b. If your connector is Cryo2:
Rotate Hi Flow Stroller until you feel the connectors engage. Then, carefully and firmly, rotate the Hi Flow Stroller counterclockwise (↺) while pressing downward.
- c. If the connector is a Penox, Life-Ox, or Lincare:
Rotate Hi Flow Stroller until you feel the connector engage. Then, carefully and firmly, rotate the Hi Flow Stroller clockwise (↻) while pressing downward.

Note: *Continued on step 6 (page 9).*

Hi Flow Stroller

To Fill the Side Fill Hi Flow Stroller

1. Clean the fill connectors on both the stationary and the Hi Flow Stroller with a clean, dry, lint-free cloth.

Caution: *The fill connectors must be dry, because moisture can cause your Hi Flow Stroller and stationary unit to freeze together.*

2. Make sure the flow control is in the off (0) position
3. Make the Hi Flow Stroller fill connector in the upright position to the stationary connector.
4. Rotate the Hi Flow Stroller counterclockwise (↺) until you feel the pin and slot engage.
5. Carefully and firmly rotate the Hi Flow Stroller back to the upright position. Now the units are locked together.

Note: *Continued on step 6.*



Step 3



Step 4



Step 5

Hi Flow Stroller

Note: **For push-on style connector, hold the unit in place throughout the fill.**

6. Open the vent valve to begin filling your Hi Flow Stroller. You should hear some oxygen escaping; do not worry. The hissing sound you hear is perfectly normal.

Note: **Liquid level gauge readings are most accurate 30 seconds or more after the Hi Flow Stroller is filled.**

7. You may also see vapor around the connection. This is normal and is due to the great difference in temperature between the liquid oxygen and the warm air surrounding the units.
8. When the unit is full, close the vent valve. You can tell that the unit is full when the hissing sound changes in tone, and some liquid comes out of the vent line.

Note: **Closing the valve after a nearly continuous stream of liquid is discharging fills the Hi Flow Stroller most completely, but wastes some liquid oxygen.**



Step 6

Hi Flow Stroller

Closing the valve at the first sign of liquid discharge does not fill the Hi Flow Stroller as completely, but saves liquid oxygen.

9. For the push-on style connectors, push the release button down until the units separate. For all other connectors rotate the unit until it separates from the stationary unit.

Caution: Check liquid level gauge only after the vent valve is closed.

Caution: If the Hi Flow Stroller does not separate easily, do not use force. The units may be frozen together. Wait until the units warm up — then they'll separate easily. Do not touch any frosted parts. Should there be any liquid leakage from the stationary unit or Hi Flow Stroller after separation, reattach the Hi Flow Stroller immediately. Again separate the units. If the problem persists, leave units coupled and call your health care provider.

Warning: Do not operate Hi Flow Stroller while attached to the stationary unit.

Warning: Should the leakage be excessive to the point that a stream of liquid is present, leave the area and call your health care provider immediately.

Caution: If the Hi Flow Stroller is being refilled immediately after a period of use, fill unit, set FCV to zero, and then wait 10 minutes for pressure to stabilize before use.

Warning: Liquid or cold gaseous oxygen can frostbite the skin. Oxygen will result in increased fire hazard.

Portable Release Button (push-on style only)



Hi Flow Stroller

Operating Instructions

1. Push the cannula breathing tube firmly on to the oxygen tube connector.
2. Adjust your cannula breathing tube to the proper position so that you will be able to breathe the oxygen comfortably.
3. Turn the flow control knob on top of the Hi Flow Stroller clockwise until the prescribed flow rate (numeral) is visible in the knob “window” and a positive detent is felt.

Warning: *Out-of-specification oxygen flow will result if the flow control knob is set between flow rates.*

4. You should be receiving oxygen now. To stop flow of oxygen, turn the flow control knob counterclockwise to the off (0) position.

Caution: *Always turn the flow control knob off (0) when not in use.*



*Cannula is not included

Hi Flow Stroller

5. Use the following chart as a guideline to determine the length of time the Hi Flow Stroller will operate:

FCV Setting													
Model		Off	0.50	1.0	2.0	2.5	3.0	4.0	6.0	8.0	10.0	12.0	15.0
Hi Flow Stroller	Nominal	71:00	32:00	16:00	8:00	6:20	5:20	4:00	2:40	2:00	1:40	1:20	1:00

Note: Times are in hours and minutes (format 00:00).

Note: The “Nominal” times are for ideal conditions, i.e. maximum fill, exact flow rates, good loss rate, unit not being moved, etc. These times are the maximum expected.

Note: Your individual results will vary.

Hi Flow Stroller

6. To verify the level of liquid oxygen in the unit with the electronic liquid level gauge:

- Depress the push button on top of the unit for two seconds minimum. Read the arc of LEDs which indicate contents level.

Caution: *The Hi Flow Stroller is empty if only the first LED on the far left is lit.*

- If the Low Battery indicator lights up when the button is depressed, notify your health care provider.

Note: *The Hi Flow Stroller will continue to supply oxygen even if the Low Battery Indicator lights up, as long as there is liquid oxygen in the unit.*



Hi Flow Stroller

- Under certain environmental conditions, with continuous use, and especially with the portable not being moved, it may develop excessive frost around the vaporizer coil and on the case. You may reduce this frost by tapping the unit and/or wiping any accumulated frost off the case.

WARNING: *Due to the possibility of excessive moisture / ice build up it is recommended that the Hi Flow Stroller remain idle for 1 hour after use to decrease moisture buildup.*



Due to the higher flow rates associated with the Hi Flow Stroller, condensation and some frosting will occur on the unit, particularly on flow settings of 10 LPM and higher. It is recommended that the unit be allowed at least 1 hour of inactivity after use to decrease the possibility of excessive build up due to continuous usage.

Hi Flow Stroller

8. After the unit is empty and has warmed up to room temperature, remove any moisture from the condensation cup:
 - Unzip soft feature case access door at bottom of unit.



- Remove the pad and wring out any absorbed moisture. Allow the pad to dry completely before replacing it back in the unit.

Note: *If heavily soiled, the pad can be machine washed (with bleach to disinfect).*

- Place dry pad back in the unit. Make sure to completely re-zip the zipper.

Hi Flow Stroller

Cleaning Standard

Warning: *Clean only after unit is empty and vented.*

- Clean by applying household glass cleaner to a lint-free cloth and wipe external surfaces – do not get glass cleaner on any internal components or valves.
- Allow unit to dry thoroughly before using.

Note: *Note to health care provider – for reprocessing procedure, see applicable service manual.*

WEEE and RoHS



This symbol is to remind the equipment owners to return it to a recycling facility at the end of its life, per Waste Electrical and Electronic Equipment (WEEE) Directive.

Our products will comply with the Restriction of Hazardous Substances (RoHS) directive. They will not contain more than trace amounts of lead or other hazardous material content.

Accessories

The lightweight Stroller carrying cart weighs only 3-1/4 lbs. The cart accommodates both the Stroller or the Sprint.





2200 Airport Industrial Drive
Ste 500
Ball Ground, GA 30107
U.S.A.
www.cairemedical.com

M. D. D. Representative:

Medical Product Services
Borgasse 20
35619 Braunfels, Germany



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