Sprint Stroller

Hi Flow Stroller



User Manual (US)

CAIRE®

Symbols Glossary

ISO 7000	
	Keep away from rain, keep dry. Reg. # 0626
	Stacking limit by number. Reg. # 2403
	Name and address of manufacturer. Reg. # 3082
	The country and date of manufacture. The “CC” identifies the two letter country code of the country of manufacture. The date of manufacture is in YYYY-MM-DD format. Reg. # 6049
	Caution, consult accompanying documents. Reg. # 0434A
	Catalog Number. Reg. # 2493
	Serial Number. Reg. # 2498
	Storage or operating temperature range. Reg. # 0632
	Storage humidity range Reg. # 2620
	Atmospheric pressure limitation. Reg. # 2621
	This way up. Reg. # 0623
	Fragile, handle with care. Reg. # 0621
	Importer. Reg. # 3725
ISO 7010	
	Frostbite may occur on contact with cold liquid or gaseous oxygen, or frosted parts. Warning low temperature. To warn of low temperature or freezing conditions. Reg. # W010
	The instruction manual must be read. Reg. # M002
	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
	Warning. Reg. # W001
Council Directive 93/42/EEC	
EC REP	Authorized representative in the European Community
CE ####	If the product unique device identifier (UDI) label has the CE#### symbol on it, the device complies with the requirements of Directive 93/42/EEC concerning medical devices. The CE#### symbol indicates notified body number.
0029	This device complies with the requirements of Directive 2010/35/EU concerning medical devices. It bears the pi marking as shown.
ADR	
	Non-toxic gas.
	Hazard Oxidizing substances: fire intensifying risk. Oxidizing agents cause fires to burn more vigorously.
UN1073 OXYGEN, REFRIGERATED LIQUID	Refrigerated Liquid, USP; Produced by Air Liquefaction
Additional Symbols	
	Keep unit well ventilated at all times
	Keep away from flammable materials, oil and grease.
CH REP	Authorized representative in Switzerland.
UK CA ####	If the device bears the UKCA mark as shown with UKCA#### indicating the notified body number, this device complies with UKCA regulations.
ρ 8516	Rho Mark: Transportable pressure equipment. This device complies with the requirements of UK Statutory Instruments No. 1348 concerning medical devices. It bears the rho marking as shown, accompanied by the UK approved body identification number.

IEC 60417	
	Do not cover unit or carry portable unit under your clothing. These units normally vent oxygen. No. 5641
21 CFR 801.15	
RX ONLY	Federal law restricts this device to sale by or on the order of a physician.
IEC 60601-1	
IP22	Drip Proof
	ETL: Certified for both the U.S. and Canadian markets, to the applicable U.S. and Canadian standards.

Council Directive 2012/19/EU	
	WEEE 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.
ISO 15223-1	
MD	Medical Device. Reg. # 5.7.7
UDI	Unique device identifier Reg. # 5.7.10

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.: www.caireinc.com/corporate/patents/.

Introduction

Notice: Refer to this manual for operating instructions, troubleshooting, warnings, cautions, and specifications for Sprint/Stroller.

This manual may refer to Sprint/Stroller as the device or unit interchangeably. Patient and user may be used interchangeably. The Sprint, Stroller, and Hi Flow Stroller are intended for the administration of supplemental oxygen to the patient in the end user's home and can also be used in institutions such as nursing homes or sub-acute care facilities. The Sprint/Stroller/Hi Flow Stroller provide an ambulatory source of oxygen for an extended period of time.

The device is used by COPD patients or those with diminished breathing capacity. The device is prescribed to the patient. The device is sold to a provider that is trained to operate and service the Sprint/Stroller/Hi Flow Stroller. The provider trains the user.

The device is not intended for life support nor does it provide any patient monitoring capabilities. It is recommended to have an alternate source of supplemental oxygen in the event of mechanical failure. These portable devices also have a quick disconnect valve that can be coupled with a reservoir lox device for transfilling the portable device. The reservoir unit is filled by your health care provider. Refer to the user manual supplied with the reservoir unit for its operation.

The Stroller/Sprint indicator panel and flow control knob are considered applied parts that come into contact with the patient.

Note: The service provider will assist with the initial setup and instruct proper handling and usage of the unit.

Intended Use, Indications for Use, Contraindications, and Clinical Benefit

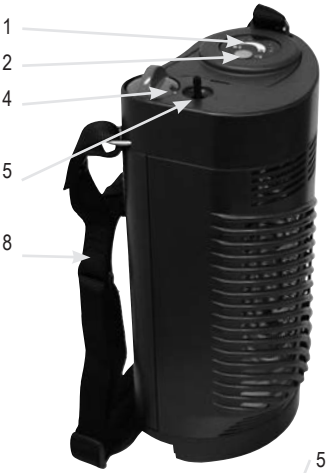
CAIRE Sprint, Stroller, and Hi Flow Stroller are intended for the administration of supplemental oxygen to increase blood oxygen saturation. The devices are not intended for life support nor do they provide any patient monitoring capabilities. It is recommended to have an alternate source of supplemental oxygen in the event of mechanical failure. This equipment is not intended for use by patients who would suffer immediate, permanent, or serious health consequences as a result of an interruption in the oxygen supply.



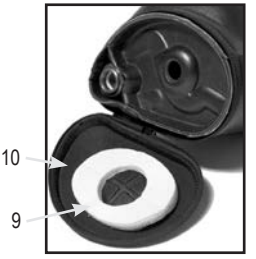
Sprint, Stroller and Hi Flow Stroller units

Controls

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







Warning Information

Important: Read this manual thoroughly before operating the Sprint/Stroller/Hi Flow Stroller. RX Only.

Safety Instructions

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 Sprint/Stroller/Hi Flow Stroller.
• Note: Information needing special attention.


WARNING

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

• Warning: If continuity of oxygen supply is required, ensure that an adequate supply of oxygen and/or a secondary oxygen supply is available at all times during therapy.

• Warning: If you feel the equipment is not operating properly, call your healthcare provider. Do not attempt to repair or adjust the unit yourself.

• Warning: Do not modify this equipment without authorization from the manufacturer.

• Warning: Do not allow smoking, candles, or open flames within 10 feet (3 meters) of the device, or closer than 8 inches (20 cm) from any source of ignition.

• Warning: Keep your unit in a well-ventilated area.

• Warning: Do not store liquid oxygen equipment in a closet, car trunk, or other confined area. Do not place blankets, draperies, or other fabrics over equipment.

• Warning: the connection must be dry, because moisture can cause the equipment to freeze together and may cause leakage in the fill connectors.

• Warning: Clean the fill connections on the liquid oxygen reservoir and portable unit with a clean, dry, lint free cloth before filling the portable unit. Clean other parts of the unit only after the unit is empty.

• Warning: Do not depress or disturb the metal poppet on the fill connector when drying it. This can cause leakage of liquid oxygen. If a leak occurs, leave the room and call your health care provider.

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

• Warning: If large amounts of vapor are issuing from the units during filling, stop filling, leave the room and call your health care provider.

• Warning: If the portable does not separate easily, do not use force. The units may be frozen together. Leave the units connected and wait until they warm up – then they will separate easily. Do not touch any frosted parts.

• Warning: Patient or others may be entangled in cannula or other tubing causing asphyxiation.

• Warning: In the event there is a serious incident occurring with this device, the user should immediately report the incident to the provider and/or the manufacturer. A serious incident is defined as an injury, death, or potential to cause injury/death should there be a reoccurrence of the incident. The user can also report the incident to the competent authority in the country where the incident occurred.

• Warning: This product can expose you to chemicals including nickel, which is known to the state of California to cause cancer. For more information, go to www.P65warnings.ca.gov.

• Warning: Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the Sprint/Stroller/Hi Flow Stroller, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

• Warning: Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.

• Warning: Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.


CAUTION

• Caution: Use the Sprint / Stroller / Hi Flow Stroller only as directed by your doctor.

• Caution: Federal law restricts this device to sale or on the order of a physician.

• Caution: The unit contains liquid oxygen which is extremely cold, almost 300°f (-184°c). Exposure to such a low temperature can cause severe frostbite.

• Caution: 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.

• Caution: Keep flammable materials away from this equipment. Aerosol sprays, oils and grease, including facial creams and petroleum jelly, ignite easily and may burn rapidly in the presence of oxygen.

• Caution: Smoking while wearing an oxygen cannula can cause facial burns and possibly result in death.

• Caution: Removing the cannula and placing it on clothing, bedding, sofas, or other cushion material will cause a flash fire when exposed to a cigarette, heat source, spark or flame.

• Caution: If you smoke please: (1) turn off the portable, (2) take off the cannula, and (3) leave the room where the device is located.

• Caution: In the event of an accidental tip-over, immediately but cautiously return the unit into an upright position if possible. If any liquid oxygen is escaping, leave the area immediately and call your healthcare provider. Do not attempt to move the unit or stop the liquid oxygen from escaping.

NOTE

• Note: Do not touch frosted parts of any unit.

• Note: Do not store or operate the portable coupled to the Sprint/Stroller/Hi Flow Stroller.

• Note: Do not allow untrained personnel to handle or operate this device.

• Note: Use of this device is prohibited on commercial passenger and cargo air flights by the Federal Aviation Administration.

Quick Disconnect Valve (QDV) Identification

Portable Connector	Stationary Connector	QDV Style	
		CAIRE Side Fill	SF Locking
		LIFE-OX	TF Locking
		PENOX	
		TAEMA	TF Push-On
		PB	

Operating Instructions

To Fill the Top Fill Sprint/Stroller/ Hi Flow Stroller

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

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

2. Make sure the flow control knobs on both the Sprint/Stroller/Hi Flow Stroller and reservoir are in the off (0) position.

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



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



b. If the connector is a Penox or Life-Ox:
Rotate Sprint/Stroller/Hi Flow Stroller until you feel the connector engage. Then, carefully and firmly, rotate the Sprint/Stroller/Hi Flow Stroller clockwise (↻) while pressing downward.



Note: Continued on step 6 in To Fill the Side Fill Sprint/ Stroller/Hi Flow Stroller.

To Fill the Side Fill Sprint/Stroller/Hi Flow Stroller

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

Warning: the fill connectors must be dry, because moisture can cause your Sprint/ Stroller/Hi Flow Stroller and stationary unit to freeze together.

2. Make sure the flow control knobs on both the Sprint/Stroller/Hi Flow Stroller and reservoir are in the off (0) position
3. Make the Sprint/Stroller/Hi Flow Stroller fill connector is in the upright position to the stationary connector.



4. Rotate the Sprint/Stroller/Hi Flow Stroller counterclockwise (↺) until you feel the pin and slot engage.



5. Carefully and firmly rotate the Sprint/Stroller/Hi Flow Stroller back to the upright position. Now the units are locked together.



Note: Continued on step 6.

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

6. Open the vent valve to begin filling your Sprint/Stroller/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 Sprint/Stroller/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 Sprint/Stroller/Hi Flow Stroller most completely, but wastes some liquid oxygen.

Note: Closing the valve at the first sign of liquid discharge does not fill the Sprint/Stroller/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.



Portable Release Button (push-on style only)

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

Caution: If the Sprint/Stroller/Hi Flow Stroller is being refilled immediately after a period of use, fill it, and then wait 10 minutes after filling with the FCV set at zero for the pressure to stabilize. Then operate as normal.

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

WARNING: IF the Sprint/Stroller/Hi Flow Stroller does not separate easily, do not use force. The units may be frozen together. Leave the units connected and wait until the units warm up — then they will separate easily. Do not touch any frosted parts. 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.

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

Caution: Should there be any liquid leakage from the stationary unit or Sprint/ Stroller/Hi Flow Stroller separating the units, set the Sprint/Stroller/Hi Flow Stroller aside, ensuring it remains vertical, leave the room, and call your health care provider immediately.

Note: To Equipment Provider: The following oxygen administration accessories are recommended for use with the Sprint / Stroller / Hi Flow Stroller:

• Nasal Cannula: CAIRE Part Number 5408-SEQ

• Firebreak: CAIRE Part Number 21126636

A firebreak is recommended for use with any cannula.

• CAIRE offers a firebreak intended to be used in conjunction with the oxygen portable. The firebreak 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 firebreak. It is placed in-line with the nasal cannula or oxygen tubing between the patient and the oxygen outlet of the Sprint / Stroller / Hi Flow Stroller. For proper use of the firebreak, always refer to the manufacturer's instructions (included with each firebreak kit).

• Additional recommended accessories information is available online at www.caireinc.com.

Operating Instructions



(Cannula is not included.)

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 Sprint/ Stroller/Hi Flow Stroller clockwise until the prescribed flow rate (numeral) is visible in the knob "window" and a positive detent is felt.

Caution: 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.



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

FCV Setting			
Model	Sprint	Stroller	Hi Flow Stroller
	Nominal	Nominal	
FCV Pos.	Sprint	Stroller	Hi Flow Stroller
Off	30:00	60:00	71:00
0.25	18:00	30:00	NA
0.5	12:12	23:00	32:00
0.75	9:18	17:24	NA
1	7:30	14:06	16:00
1.5	5:30	10:12	NA
2	4:18	8:00	8:00
2.5	3:36	6:36	6:20
3	3:06	5:36	5:20
4	2:24	4:24	4:00
5	2:00	3:36	NA
6	1:42	3:00	2:40
8	N/A	N/A	2:00
10	N/A	N/A	1:40
12	N/A	N/A	1:20
15	N/A	N/A	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.

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

- **Gen 3 Gauge:** Depress the push button (liquid level switch) on top of the unit for two seconds minimum. Read across the top of the light bar to indicate contents level.



- **Gen 4 Gauge:** Press the green operate button on the face of the gauge. Read the arc of LEDs, which indicates content level.



Caution: The Sprint/Stroller/Hi Flow Stroller is empty if only the last segment of the light bar is lit.

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

Note: The Sprint/Stroller/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.

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

- Support the unit, by the fabric strap, directly above the black contents indicator spring scale chamber.
- Allow the unit to stabilize (i.e. not bounce up and down), then read the exposed colored scale for approximate liquid oxygen contents.





Note: If the unit is empty, only the red colored band of the scale will be exposed. If this is the case, the unit must be filled prior to use.

7. 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.

Condensate Pad Maintenance

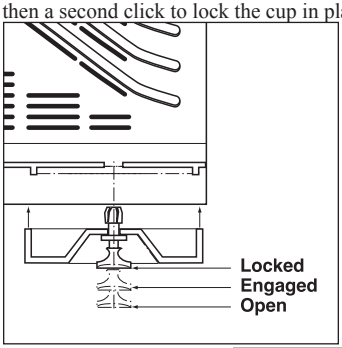
After the unit is empty and has warmed up to room temperature, remove any moisture from the condensation cup:

For hard case

- Tilt the unit to one side. Grasp the knob at the center of the condensation cup (at the bottom of the unit) and pull straight out. This will release the cup.

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

- To replace the cup, center it over the round opening at the bottom of the unit and press the knob in one click to engage the cup and then a second click to lock the cup in place.





Knob Cup



Note: If the knob will not push in and engage the cup, hold the cup and pull the knob out until it clicks into the open position. Now replace the cup as previously described.

For soft case

- Unzip the bottom zipper and pull back the bottom cover.
- Remove the pad from the cup and wring out any absorbed moisture. Allow the pad to dry completely before replacing it in the cup.

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

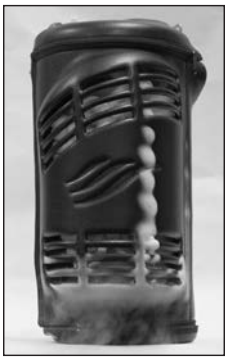
- To replace, simply insert pad into bottom cover and rezip the bottom zipper.

Note: If the knob will not push in and engage the cup, hold the cup and pull the knob out until it clicks into the open position. Now replace the cup as previously described.

Frost Reduction

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.

Troubleshooting

The following information is intended to help you troubleshoot and solve simple operational problems that you may experience when using your Sprint/Stroller/Hi Flow Stroller.

Issue	Solution
The Portable makes a hissing sound.	• Hissing can occur to maintain the correct operating pressure within the Portable. It is most likely to hiss after filling or when the position of the Portable is changed. Hissing can last for approximately 10 minutes after filling. Additionally, it can occur when the flow control valve is at a low setting. • If the portable has been laid in an improper position return the portable to an upright position and allow several minutes for the unit to stabilize
The Portable flow stops during use.	• Ensure that the cannula is firmly attached to the Oxygen Outlet. • Ensure that the cannula is not kinked. • Check the contents indicator/level gauge and fill the portable if needed. • Ensure the flow control knob is not in the off (“0”) position.
The Portable does not fill.	• Verify that there is oxygen in the Reservoir. • Ensure that the Portable and Reservoir fill connectors are fully engaged throughout the filling process.
The Portable vent valve does not close properly at the end of the filling process.	• If the vent valve fails to close and the hissing sound and oxygen vapor cloud continue, carefully remove the Portable by depressing the release button on the Reservoir. Venting from the bottom of the Portable will stop in a few minutes. Allow the unit to warm until you can close the vent valve. The Portable may require as much as 60 minutes to restore adequate pressure for accurate oxygen flow. If needed, use an alternate source of oxygen such as a flow control valve attached to the Reservoir.
The Portable does not disengage easily from the Reservoir after filling.	• The Portable and Reservoir fill connectors may have become frozen. • DO NOT USE FORCE. Allow a few minutes for the frozen parts to warm, then disengage the Portable when the ice has melted. To prevent the units from freezing together, always wipe the male fill connector on the Reservoir and the female fill connector on the Portable with a clean, dry cloth before filling.

Cleaning Standard

WARNING: Clean only after the unit is empty.

- Clean using a solution of mild dish washing detergent and water.
- Apply cleaning solution directly to a lint-free cloth. Approved cleaners include HydroPure and HydroKlean. Do not spray cleaners directly on the Sprint/Stroller/Hi Flow Stroller.
- Wipe the outside surface with the lint-free cloth until the outside surface is clean.

Caution: Do not use high temperature and high pressure washing equipment to clean these units.

- Do not get cleaner on any internal components or valves.
- Allow the unit to dry thoroughly before using.

Note: Note to health care provider – for reprocessing procedures, 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) requirements.

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.

Disposal

Always return Sprint/Stroller/Hi Flow Stroller, including all components, to your homecare provider for proper disposal. You can also contact your local city or town offices for instructions on proper disposal of the battery.

Transport and Storage

The device should be stored in the upright position, and be well ventilated. Do not allow the device to lie on its side. Humidity up to 95% non-condensing. Temperatures range from -40°F to 158°F (-40°C to 70°C).

Operating temperature ranges from 14°F to 104°F (-10°C to 40°C). Relative humidity range from 30% to 75% non-condensing.

Note: The atmospheric pressure range is 700 hPa to 1060 hPa (elevation of 10,000 Ft. to -1,000 Ft.).

Maintenance

Your service provider is responsible for any maintenance that my be required per the technical manual of this device. Call your service provider for any maintenance requirements.

The condensate pad is the only user-serviceable part. No other parts are user-serviceable.

The expected service life is a minimum of five years.

Clean the fill connectors on both the stationary and portable units with a clean, dry, lint-free cloth between each fill to prevent freezing and possible equipment failure.

Note: Any additional maintenance needed must be done by a qualified service technician or service provider.

Accessories



Carrying Cart PN 20765565

Specifications

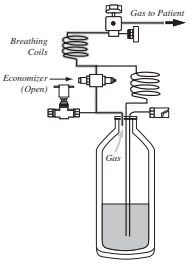
- Mode of Operation: Continuous Flow
- Type of Protection Against Electrical Shock: Internally Powered Equipment
- Degree of Protection Against Electrical Shock: Type BF Applied Part
- Classification According to the Degree of Protection Against Ingress of Water: IP22 – Ordinary Equipment
- Equipment not suitable for use in the presence of flammable mixtures

Product Specifications			
	Sprint	**Stroller**	**Hi Flow Stroller**
LOX Capacity	1.5 lb (0,68 kg)	3.0 lb (1,36 kg)	3.0 lb (1,36 kg)
Gaseous Equivalent Capacity	513 L	1026 L	1025 L
Weight, Empty	4.5 lb (2,04 kg)	5.0 lb (2,27 kg)	5.5 lb (2,49 kg)
Weight, Filled	6.0 lb (2,72 kg)	8.0 lb (3,63 kg)	8.5 lb (3,86 kg)
Height	11.75 in. (298 mm)	13.5 in. (343 mm)	13.5 in. (343 mm)
Dimensions	4.875" (123.83 mm) D X 7.5" (191 mm) W	5.875"(149.23 mm) D x 7.5" (191mm) W	5.875" (149 mm) D x 7.5" (191 mm) W
Typical use time at 2 LPM	4.3 hours	8.5 hours	8.5 hours
Operating Pressure	20 psi (137 kPa)	20 psi (137 kPa)	20 psi (137 kPa)
Normal Evaporation Rate	1.3 lb/ day (0,57 kg/ day)	1.3 lb/ day (0,57 kg/ day)	1.3 lb/ day (0,57 kg/ day)
Standard Flow Control Range	off, .25, .5, .75, 1, 1.5, 2, 2.5, 3, 4, 5, 6 LPM	off, .25, .5, .75, 1, 1.5, 2, 2.5, 3, 4, 5, 6 LPM	Off, .5, 1, 2, 2.5, 3, 4, 6, 8, 10, 12, 15 LPM
Flow Rate Accuracy*	+/- 10%	+/- 10%	+/- 10%

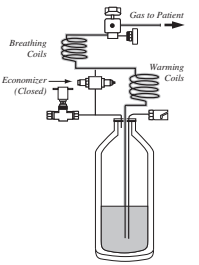
* This accuracy is only at 70F and 14.7 psig and with a calibrated accurate mass flow meter.

Essential Performance

Sprint/Stroller is a cryogenic liquid oxygen pressure vessel with associated plumbing, valves, and hardware necessary to deliver gaseous oxygen. Essential performance for this device is the correct function of the flow control valve, correct function of the heat exchanger, maintenance of the vacuum of the bottle and operation of the oxygen level gauge.



Operation above 20PSI



Operation below 20PSI

Safety

WARNING: Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the SPRINT/ STROLLER/HI FLOW STROLLER, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

WARNING: Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.

WARNING: Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.

Caution: Medical Electrical Equipment needs special precautions regarding Electromagnetic compatibility (EMC) and needs to be installed and put into service according to the EMC information provided in this manual.

Caution: Portable and mobile radio frequency (RF) communications equipment can affect Medical Electrical Equipment.

Table 1

Guidance and Manufacturer's declaration—electromagnetic emissions

The Sprint/Stroller/Hi Flow Stroller is intended for use in the electromagnetic environment specified below. The customer or the user of the Sprint/Stroller/Hi Flow Stroller should assure that it is used in such an environment.

Emissions test	Compliance	Electromagnetic environment—guidance
RF emission CISPR 11	Group 1	The Sprint/Stroller/Hi Flow Stroller uses RF energy only for 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 Harmonic emissions IEC 61000-3-2 Voltage fluctuations/ flicker emissions IEC 61000-3-3	Class B Not applicable Not applicable	The Sprint/Stroller/Hi Flow Stroller 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.

Table 2*: Recommended separation distances between portable and mobile RF communications equipment and the Sprint/Stroller/Hi Flow Stroller

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

Rated maximum output power of transmitter W	Separation distance according to frequency of transmitter m		
	from 150 kHz to 80 MHz d=1.2 √P	from 80 MHz to 800 MHz d=1.2 √P	from 800 MHz to 2,5 GHz d=2.3 √P
0,01	0.12 m	0.12 m	0.23 m
0,1	0.38 m	0.38 m	0.73 m
1	1.2 m	1.2 m	2.3 m
10	3.8 m	3.8 m	7.3 m
100	12 m	12 m	23 m

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.
NOTE 1 at 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.
NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

* This table is included as a standard requirement for equipment which has been tested to specific test levels and over specific frequency ranges and been found compliant with regulations.

Table 3: Guidance and Manufacturer's Declaration—Electromagnetic Immunity

The Sprint/Stroller/Hi Flow Stroller is intended for use in the electromagnetic environment specified below. The customer or the user of the Sprint/Stroller/Hi Flow Stroller 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	±8 kV Contact ±2 kV, ±4 kV, ±8 kV, ±15kV air	±8 kV Contact ±2 kV, ±4 kV, ±8 kV, ±15kV air	Floors should be wood, concrete or ceramic tile. If floors are synthetic, the relative humidity should be at least 30 %.**
Electrical fast transient/ burst IEC 61000-4-4	±2 kV for power supply lines ±1 kV for input/output lines	Not applicable DC powered device Not applicable No data input/output lines	Not applicable
Surge IEC 61000-4-5	±1 kV line(s) to line(s) ±2 kV line(s) to earth	Not applicable DC powered device	Not applicable
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	<5 % U_T (>95 % dip in U_T) for 0,5 cycle 40 % U_T (60 % dip in U_T) for 5 cycles 70 % U_T (30 % dip in U_T) 25 cycles <5 % U_T (>95 % dip in U_T) for 5 sec	Not applicable DC powered device	Not applicable
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A / m 50/60 Hz	3 A / m 50/60 Hz	Power frequency magnetic fields should be that of a typical commercial or hospital environment.

NOTE U_T is the A.C. mains voltage prior to application of the test level.

** This statement indicates that the required testing was performed in a controlled environment and the Sprint/Stroller/Hi Flow Stroller are found to be compliant with regulations.

Table 4: Guidance and Manufacturer's Declaration—Immunity ME Equipment and ME Systems

Guidance and Manufacturer's Declaration—Immunity			
The Sprint/Stroller/Hi Flow Stroller is intended for use in the electromagnetic environment specified below. The customer or user of the Sprint/Stroller/Hi Flow Stroller should ensure that it is used in such an environment.			
Immunity Test	IEC 60601 Test Level	Compliance Level	Electromagnetic Environment—Guidance
Conducted RF IEC 61000-4-6 Radiated RF IEC 61000-4-3	3 Vrms 6 Vrms (In ISM Bands) 150 kHz to 80 MHz 80 MHz to 2.7 GHz	Not applicable Battery powered device, No SIP/SOP 10 V/m 80 MHz—2,7 GHz 80 % AM at 1 kHz	Portable and mobile RF communications equipment should be used no closer to any part of the Sprint/Stroller/Hi Flow Stroller, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance $d = 1,2 \sqrt{P}$ $d = 1,2 \sqrt{P}$ $d = 2,3 \sqrt{P}$ 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 meters (m). 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]. Interference may occur in the vicinity of equipment marked with the following symbol:
Proximity magnetic fields IEC 61000-4-39	8 A/m at 30 kHz, CW 65 A/m at 134.2 kHz, 2.1 kHz Pulse Modulation 7.5 A/m at 13.56 MHz, 50kHz Pulse Modulation	8 A/m at 30 kHz, CW 65 A/m at 134.2 kHz, 2.1 kHz Pulse Modulation 7.5 A/m at 13.56 MHz, 50kHz Pulse Modulation	Proximity magnetic fields should be that of a typical commercial or hospital environment.

Test frequency (MHz)	Band[a)] (MHz)	Service[a)]	Modulation[b)]	Maximum power (W)	Distance (m)	Immunity Test Level (V/m)
385	380–390	TETRA 400	Pulse modulation[b)] 18 Hz	1.8	0.3	27
450	430–470	GMRS 460, FRS 460	FM[C)] ±5 kHz deviation 1 kHz sine	2	0.3	28
710	704–787	LTE Band 13, 17	Pulse modulation[b)] 217 Hz	0.2	0.3	9
745						
780						
810	800–960	GSM 800/900, TETRA 800, IDEN 820, CDMA 850, LTE Band 5	Pulse modulation[b)] 18 Hz	2	0.3	28
870						
930						
1720	1700–1900	GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1, 3, 4, 25; UMTS	Pulse modulation[b)] 217 Hz	2	0.3	28
1845						
1970						
2450	2400–2570	Bluetooth, WLAN, 802.11 b/g/n, RFID 2450, LTE Band 7	Pulse modulation[b)] 217 Hz	2	0.3	28
5240	5100–5800	WLAN 802.11 a/n	Pulse modulation[b)] 217 Hz	0.2	0.3	9
5500						
5785						

Note: If necessary to achieve the IMMUNITY TEST LEVEL, the distance between the transmitting antenna and the Sprint/Stroller/Hi Flow Stroller may be reduced to 1m. The 1m test distance is permitted by IEC 61000-4-3.

[a] For some services, only the uplink frequencies are included.

[b] The carrier shall be modulated using a 50% duty cycle square wave signal.

[c] As an alternative to FM modulation, 50% pulse modulation at 18 Hz may be used because while it does not represent actual modulation, it would be worst case.

Warranty

Limited Warranty Statement and Liability Disclaimer for CAIRE Sprint/Stroller/Hi Flow Stroller ("Equipment")

CAIRE Inc. ("CAIRE") provides limited warranty coverage for its equipment. The specific terms, conditions, and duration of any applicable warranty are documented separately and may vary by product, region, or purchase agreement (the "Warranty Statement"). A copy of the Warranty Statement is provided with the user manual. For additional copies or questions, please contact CAIRE Customer Service by e-mail at customerservice.europe@caireinc.com

Except as expressly stated in the applicable Warranty Statement, CAIRE makes no other warranties, express or implied, including any implied warranties of merchantability or fitness for a particular purpose.

TO THE FULLEST EXTENT PERMITTED BY LAW, CAIRE SHALL NOT BE LIABLE FOR, AND PURCHASER SHALL INDEMNIFY, DEFEND AND HOLD CAIRE HARMLESS FROM ANY CLAIMS ARISING OUT OF THE USE, SALE, OR LEASE OF THE EQUIPMENT, CAIRE'S COMPLIANCE WITH PURCHASER'S DESIGNS, SPECIFICATIONS OR INSTRUCTIONS, OR MODIFICATION OF ANY EQUIPMENT BY PARTIES OTHER THAN CAIRE, PURCHASER'S FAILURE TO COMPLY WITH THE APPLICABLE WARRANTY STATEMENT, OR USE OF THE EQUIPMENT IN COMBINATION WITH OTHER EQUIPMENT.

PURCHASER'S RECOVERY FROM CAIRE FOR ANY CLAIM SHALL NOT EXCEED PURCHASER'S PURCHASE PRICE FOR THE EQUIPMENT GIVING RISE TO SUCH CLAIM, AND PURCHASER SHALL NOT IN ANY EVENT BE ENTITLED TO, AND PURCHASER SHALL INDEMNIFY, DEFEND AND HOLD CAIRE HARMLESS FROM, ANY CLAIMS FOR, INDIRECT, SPECIAL, PUNITIVE, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY NATURE.

THE FOREGOING SHALL APPLY IRRESPECTIVE OF THE NATURE OF THE CLAIM, WHETHER BASED ON CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE. THE REMEDIES AND WARRANTIES STATED IN THE WARRANTY STATEMENT ARE EXCLUSIVE AND IN LIEU OF ALL OTHER REMEDIES AND WARRANTIES GRANTED UNDER APPLICABLE LAW, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF QUALITY, PERFORMANCE AND DESIGNS, AND ALL OTHER WARRANTIES, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE OR ARISING FROM COURSE OF DEALING OR USAGE OF TRADE, ALL OF WHICH ARE HEREBY EXPRESSLY DISCLAIMED BY CAIRE.

Contact Information

Questions about Sprint, Stroller, or Hi Flow Stroller?	Please contact CAIRE at: customerservice@caireinc.com 800-482-2473 2200 Airport Industrial Drive, Suite 500 Ball Ground, GA 30107
Questions about your condition or prescription?	Please contact your prescribing physician or healthcare provider.
North America: Adverse Events Healthcare Professionals and Consumers:	To report an adverse event experienced while using your Sprint/Stroller/Hi Flow Stroller, please contact CAIRE customer service at customerservice@caireinc.com Or report directly to: • US: United States Food and Drug Administration (FDA) at MedWatch: www.fda.gov/safety/medwatch-fda-safety-information-and-adverse-event-reporting-program or 1-800-FDA-1088. • Canada: Visit Health Canada at www.canada.ca/en/health-canada to ***Report a medical device problem.*** • In an emergency, please dial 911.
Europe: Serious Incidents Healthcare Professionals and Consumers:	To report a serious incident experienced while using the Sprint/Stroller/Hi Flow Stroller, please report the serious incident to your service provider and CAIRE customer service at customerservice.europe@caireinc.com. The serious incident may also be reported directly to the Member State's national competent authority for medicinal products.

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