CAIRE®

A Chart Industries Company

AirSep® SeQual®

www.CAIREmedical.com

Med Tips

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PRODUCT INFORMATION

Cannula Headpiece for OxySafe

CAIRE now sells a Cannula Headpiece designed primarily for use with OxySafe (see OxySafe in the "Accessories" section below). With only 2 inches (50.8 mm) of tubing, OxySafe can be placed at a safer location, closer to the patient. Tubing extension can then be attached to OxySafe in the desired length.

The Cannula Headpiece can be ordered for patients that use OxySafe and want to change tubing without replacing OxySafe. The Cannula Headpiece can be ordered through CAIRE using **PN 20747586**.

Cannula Headpiece for
OxySafe

LOX Portable NER Rates

Inside of all CAIRE portable liquid oxygen units, liquid oxygen is continuously evaporating into a gas at a slow rate. The rate of generation of this gas (called head gas) is the Normal Evaporation Rate (NER) of the portable. NER is calculated in weight of LOX lost per day. When the unit is in the "off" position, this gas will build up pressure inside of the tank. When the pressure reaches the setting of the relief valve, the head gas is released through the relief valve into the atmosphere. The recommended procedure for testing the NER of a CAIRE portable unit is listed below:

1. Ensure the unit has been thoroughly leak tested and that its relief valves are operating to specification. Refer to the current Technical Manual for your unit for these appropriate procedures.
2. Fill the CAIRE portable from a properly saturated liquid oxygen reservoir.
3. Allow the unit to sit undisturbed with its flow control valve in the "off" position for 1-2 hours after filling. This time will allow the unit to stabilize at primary relief valve pressure.
4. Record the initial weight (W1) of the unit and the time (T1) that this weight is measured.
5. Allow the unit to sit undisturbed for a minimum of 5-6 hours with its flow control valve in the "off" position. Note: Larger units like the C1000T and Stroller can be left undisturbed for 15-18 hours.
6. Record the final weight (W2) of the unit and the time (T2) that this weight was measured.
7. Calculate the NER in unit of weight per day using the formula below. The result will be an NER in either kg/day or lbs/day.
8. Refer to the current Technical Manual for your portable unit and verify that the NER calculated is within the acceptable range.

NER= {24 x (W1-W2)}/(T2-T1)

W1= Initial Weight in kg or lbs
W2= Second Weight in kg or lbs
T2 - T1= Time elapsed between weight measurements in hours

HELPFUL HINTS / FAQS

AirSep Portable Battery Duration

The AirSep portables have the option to run on AC power or battery to provide mobility. The optional AirBelt™ allows for greater battery durations, which gives the patient even greater freedom. The battery durations that can be expected are outlined below.

AirSep Focus™:

Unit	External Battery	Optional AirBelt
Focus	1.5 hrs	4 hrs

AirSep FreeStyle™ & FreeStyle™ 5:

Unit	Flow Setting	Internal Battery	Optional AirBelt and Internal Battery
FreeStyle 3	1	3.5 hrs	10 hrs
	2	2.5 hrs	6 hrs
	3	2 hrs	5 hrs
FreeStyle 5	1	3 hrs	7 hrs
	2	2 hrs	4.5 hrs
	3	1.5 hrs	3.5 hrs
	4	1.25 hrs	3 hrs
	5	1 hrs	2.5 hrs

Note: Battery times will decrease with changes in ambient temperature, battery age, and use over time.

LOX Portable Filling Procedure

CAIRE recommends that the vent valve should be toggled at least once during the first 30 seconds of filling for all HELiOS and Companion portable units (H300, H850, C500, C550, C1000, C1000T).

To toggle the vent valve, the valve should be closed and reopened one or more times approximately 30 seconds after the fill has begun. This will help to prevent the vent valves from freezing in the open position. The FCV on portable units should always be in the closed position when they are being filled.

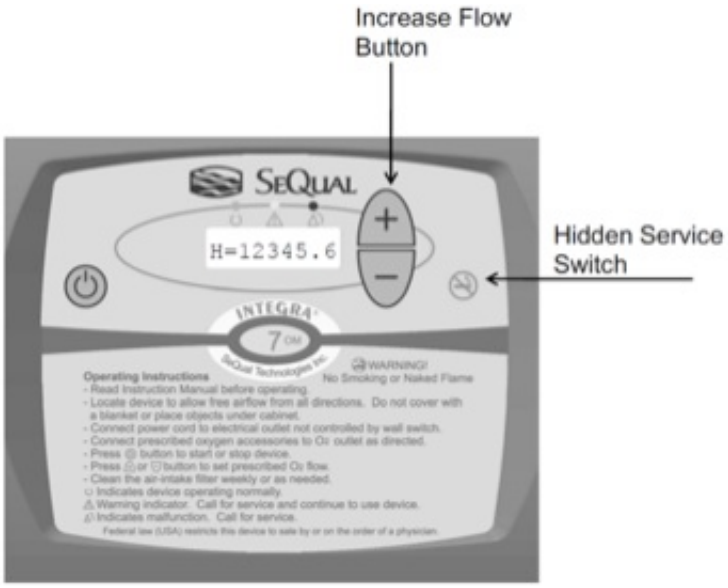
To view our "Filling a Portable" instructional video, please click **here**.

Proper Portable Filling

Integra Hour Meter

To display the hours of operation for Integra E-Z concentrators with digital LCD flow indicators, please follow the steps below:

1. Plug the Integra into a primary AC electrical source. The hour meter may be accessed with the power off, but the Integra should be plugged into an electrical outlet.
2. Hold the hidden service switch (beneath the "no-smoking" symbol) and the increase flow button ("+") down simultaneously for a minimum of 3 seconds.
3. The LCD flow indicator screen will display the hour meter in the format "H=xxxxx.x" as shown in the below figure.
4. Hold the hidden service switch and the increase flow button ("+") simultaneously again to exit the screen. Otherwise, the screen will disappear after 10 seconds.

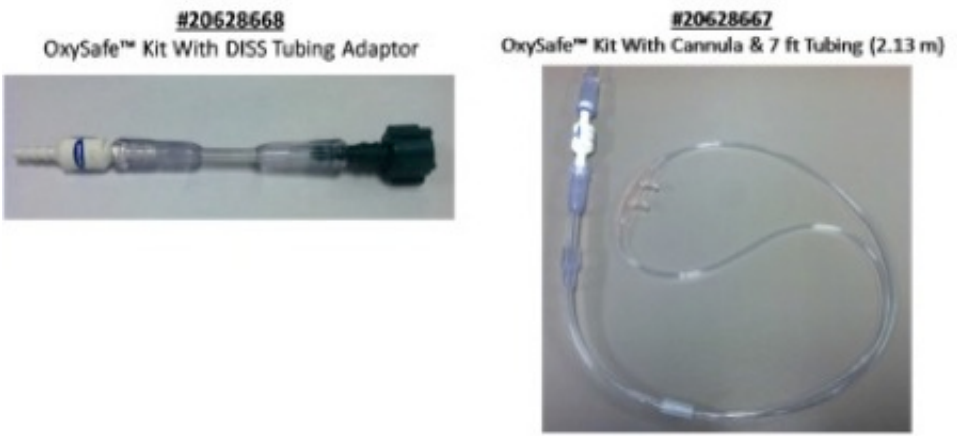


Checking the Integra Hour Meter

OxySafe Accessory

CAIRE offers OxySafe™ as an optional accessory. OxySafe is intended to be used in conjunction with all CAIRE concentrators. Customers in regions requiring compliance to EN ISO 8359:1996-Ammendement 1:2012, can meet this requirement with OxySafe.

OxySafe was designed as a thermal fuse to stop the flow of gas in the event that the downstream cannula or oxygen tubing is ignited and burns to OxySafe.



OxySafe Kits

OxySafe is placed in-line with the nasal cannula or oxygen tubing between the patient and the oxygen outlet of all CAIRE concentrators. CAIRE offers two different OxySafe kits as shown below:

PN 20628667 is designed to be used with portable and transportable oxygen concentrators. This kit contains a Cannula Headpiece, OxySafe, and 7 ft/2.13 m tubing.

PN 20628668 is designed to be connected to the oxygen outlet of stationary oxygen concentrators. This kit contains a DISS hose barb, a tubing adaptor, and OxySafe.

The shelf life of OxySafe is 4 years from the manufacture date stamped on the unit. It is also recommended that OxySafe be replaced between patients. When used with any CAIRE concentrator, OxySafe will not restrict flow or affect the performance of the concentrator.

Eclipse 5 Accessories

All accessories used with the Eclipse 3 are fully interchangeable with the new Eclipse 5. This includes the AC/DC power supplies, power cartridges, cart, accessory bag, carrying cases, and humidifier adaptor

cartridges, cart, accessory bag, carrying cases, and humidifier adaptor kit.

Power cartridges will now have a dark gray faceplate to match the new case color of the Eclipse 5. Only the faceplate color is different. The power cartridge itself is identical to all previous models. Regardless of the faceplate color, all SeQual Eclipse batteries are completely interchangeable and can be used in any model Eclipse. It is not necessary to purchase a new stock of additional batteries to accommodate the new Eclipse 5.

Other than the color of the power cartridge faceplate, no other changes have been made to the Eclipse accessories with the introduction of the Eclipse 5.

LOX Transfer Hose

Below is a list of the standard liquid oxygen transfer lines that are offered by CAIRE. All of these have 5/8 in (15.9 mm) swivel nuts on each end.

CAIRE recommends that all transfer lines be kept to the shortest length possible to minimize fill times and product losses.

Length	Part Number
4 feet (1.2 meters)	9713139
6 feet (1.8 meters)	9713119
8 feet (2.4 meters)	10546550
10 feet (3.0 meters)	10565161

LOX Portable Test Fixture

CAIRE offers a portable test fixture for use when testing and servicing liquid oxygen portables. This stand attaches to the female fill connector of the portable and keeps it in an upright position when its case is removed. The test fixture can be ordered using **PN B-778202-00**.

SERVICE SCHOOLS & TRADESHOWS

Mark Your Calendars for our Upcoming 2014 Service Schools!

USA

2014 Service School dates to be released soon!
For additional details and registration information about these trainings, please visit the "Events & Service Schools" tab of our website.

Europe

2014 Service School dates to be released soon!

To register or request more information on the 2013 European trainings, please contact Jim Gibson.

Tradeshows

We will be attending the following trade shows at the start of the year. We would love for you to stop by our booth!

Arab Health Show
January 27-30
Dubai, UAE
Chart BioMedical--CAIRE, AirSep, and MVE products
Stand 1F38

CPLF
January 31-February 2
Marseille, France
CAIRE
Stand #59

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