

# May 2016 Med Tips

---

## Helpful Hints and FAQs

### Replacing AirSep® VisionAire™ Mixing Tank

CAIRE offers a kit designed to allow the replacement of any mixing tank originally installed in the AirSep® VisionAire™ 5 or VisionAire™ 3 model units. There may be some items included in this kit which are not required for certain installations.

#### **Part Number: KI373-1 Universal Mixing Tank Kit**

##### Includes:

- 1 each TA205-1 Mixing Tank
- 2 each TU055-011 Green Tubing (1/8" ID, 1.12" LG & 28.6000 MM)
- 2 each F0516-1 Reducer Fittings
- 4 each TW001-4 Tie Wrap, 4" LG
- 2 each TW011-1 Tie Wrap 2.83" LG

##### Recommended Tools:

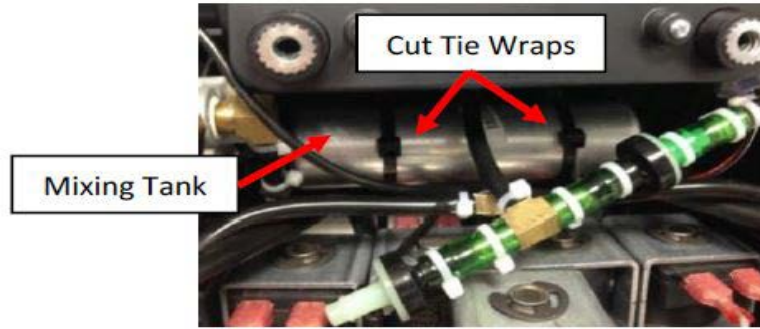
- Slotted Screwdriver
- Wire Cutter
- Needle-nose Pliers

**NOTE 1:** 2 LPM and 1 LPM VisionAire™ models utilize a different mixing tank (p/n TA201-1S) than 3 LPM and 5 LPM models. There is not a plastic version mixing tank available for these models. Steps #2 and #3 in these instructions should be omitted when reviewing for these models.

**NOTE 2:** Metal version mixing tank TA196 and plastic version mixing tank TA205 are interchangeable. Refer to step 4.2 in this procedure for proper positioning during installation.

#### Step 1 - Mixing Tank Removal

- 1.1. Unplug unit and remove both front and back panels.
- 1.2. Viewing unit from the back, locate mixing tank and cut tie-wraps securing the mixing tank to the center section. Prior to removing tie wraps from unit, review locations of each for easier installation later. **Figure 1**

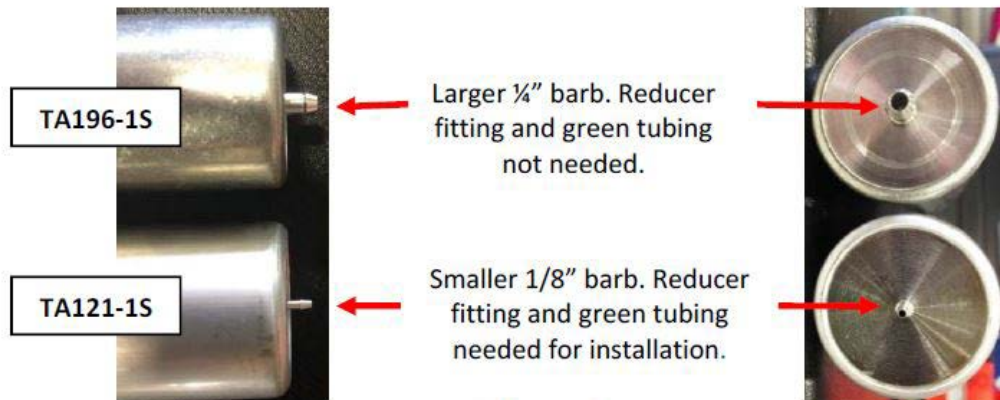


**Figure 1**

- 1.3. Disconnect tubing connections from both sides of mixing tank and remove 1/8" (.32cm) of material from each end of tubing. Remove tank from unit.

**Step 2 - Mixing Tank Review:**

- 2.1 If inventory exists of same mixing tank removed from unit, **proceed to step 4.**
- 2.2. Review the barb connections located on each end of the removed metal mixing tank. This will determine if F0516-1 reducer fitting, TU055-011 1.1" (2.79cm) green tubing, and TU055-034 3.5" (8.89cm) green tubing are also required for installation. **Figure 2**
  - 2.2.1. If original mixing tank was equipped with larger 1/4" (.64cm) barbs, reducer fitting and green tubing will not be needed for installation of new mixing tank. **proceed to step 4.**
  - 2.2.2. If original mixing tank was equipped with smaller 1/8" (.32cm) barbs, reducer fitting and green tubing will be necessary for installation. **proceed to step 3.**



**Figure 2**

**Step 3 - Installation of Reducer Fitting and Tubing:**

- 3.1. Remove entire tubing assembly currently installed on bottom elbow fitting of regulator.

- 3.1.1. If fitting installed on regulator is not an elbow fitting, remove fitting and install brass elbow fitting F0001-2 or plastic elbow fitting F0674-2 using Teflon tape to seal.
- 3.1.2. Reducer fitting of removed tubing assembly can be reused in step 3.5 after inspecting for any defects.
- 3.2. Locate mixing tank TA205-1, (1)F0516-1 reducer fitting, (1) TU055-011 green tubing, and (1) TU055-034. **Figure3**



**Figure 3**

- 3.3. Install TU055-034 green tubing onto left side of new mixing tank, secure with tie wrap.
- 3.4. Install TU055-011 green tubing onto right side of new mixing tank, secure with tie wrap.
- 3.5. Insert large end of reducer fitting F0516-1 into open end of TU055-011 green tubing, secure with tie wrap.

#### **Step 4 - Mixing Tank Installation:**

- 4.1. Install two tie-wraps TW017-1 to secure mixing tank to center section of unit. Do not engage ends together.
- 4.2. Position new mixing tank into place.
  - 4.2.1. Metal mixing tanks should have the end cap marked with a 'ring' positioned and installed facing towards the unit flowmeter (right side when viewing unit from the back.) **Figure 4**

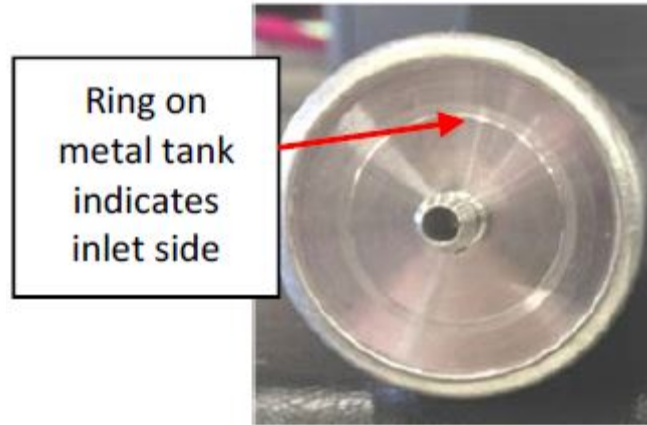


Figure 4

- 4.2.2. Plastic mixing tanks should have the larger cap end positioned and installed facing towards the unit regulator (left side when viewing the unit from the back.) **Figure 5**

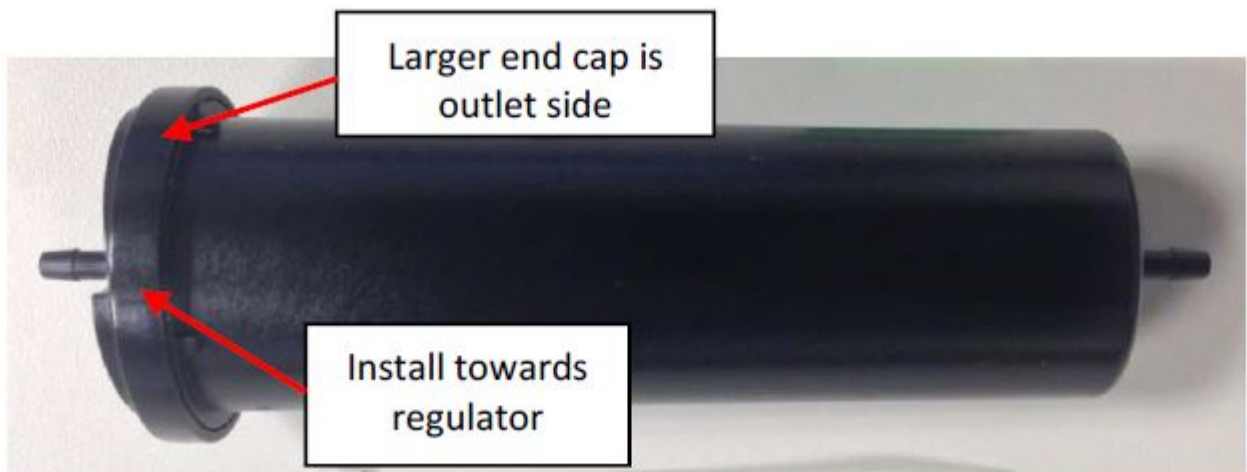
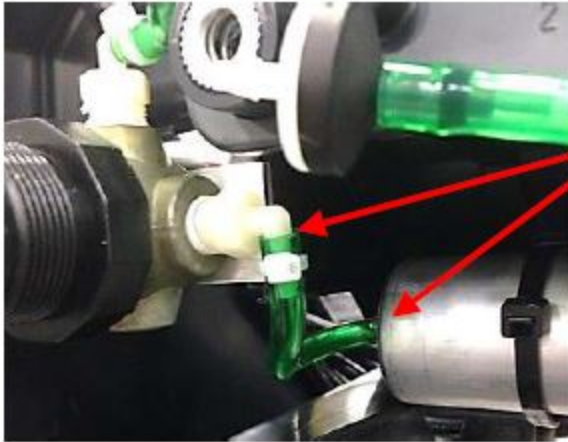


Figure 5

- 4.3 Reconnect tubing removed in step 1.3 onto new mixing tank, or attach green tubing installed onto mixing tank to regulator fitting **Figure 6**. Secure all tubing connections with tie wraps.



TU055-034 connected  
from mixing tank to  
elbow fitting of  
regulator  
(Tank TA196-1S shown)

Figure 6

- 4.4 With mixing tank in proper position, tighten tie-wraps to secure mixing tank to center section of unit.

*Note: Before final installation, care should be taken to avoid pinching tubing or wires under mixing tank or tie wraps. Inspection for this should be thoroughly made before final installation and tie wraps secured.*

- 4.5 Start concentrator and check for leaks. Check operation and O2 concentration.

Q. What is the flashing symbol on the AirSep® VisionAire™/NewLife® Hour Meter?

A. During operation the hour glass flashes and records the hours.

Note: When hours hit 9999.9 the decimal will disappear and the hours will read full hours with no more decimal.

Q. Is there a way to track the hours when patients use the units?

A. The hour meter on the AirSep® VisionAire™ and NewLife® units are equipped (units manufactured from 2011-present) with a dual function meter.



The hour meter can display total elapsed hours which cannot be reset.



The accumulated hours (TMR1), can be reset between patients or service intervals.



#### Re-Set Switch

Toggles between elapsed and TMR1  
Hold for 3 seconds to re-set TMR1 meter

Q. What is the battery durations for the AirSep® Freestyle™ and AirSep® Freestyle™ 5?

A. See chart below for durations

SETTING	INTERNAL BATTERY DURATIONS		DURATION OF FULLY CHARGED INTERNAL BATTERY + AIRBELT		DURATION OF FULLY CHARGED INTERNAL BATTERY + EXTERNAL BATTERY CARTRIDGE	
	FREESTYLE™	FREESTYLE™ 5	FREESTYLE™	FREESTYLE™ 5	FREESTYLE™	FREESTYLE™ 5
1	3.5	3	10	7	10	7
2	2.5	2	6	4.5	6	4
3	2	1.5	5	3.5	5	3
4	N/A	1.25	N/A	3	N/A	2.5
5	N/A	1	N/A	2.5	N/A	2

## Accessories and Parts

### Universal Liquid Oxygen Portable Cart



Part Number: 20773616

Two-wheeled pull behind cart with a Velcro strap to secure portables. Compatible with CAIRE® Stroller®, CAIRE® Hi Flow Stroller®, CAIRE® HELIOS™ Marathon (H850), and CAIRE® Companion™ 1000/1000T portables.



## AIRSEP®FREESTYLE™ 3 AND 5 CARRYING BAG



### Features and Improvements:

- ① **NEW** robust material and construction for increased durability
- ② Allows for attachment of backpack harness
- ③ **NEW** side pocket designed specifically to hold the AirSep POC External Power Cartridge for longer battery life
- ④ **NEW** Integrated Carry Handle gives added mobility options
- ⑤ **NEW** zipper top cover is more reliable and protective than the previous flap design
- ⑥ Allows for attachment of shoulder strap for carrying
- ⑦ **NEW** Additional pocket on the back of the bag to hold accessories, personal items, or additional Power Cartridges

### ORDERING INFORMATION:

FreeStyle 3 Carrying Bag:

**#MI406-1**

FreeStyle 5 Carrying Bag:

**#MI407-1**



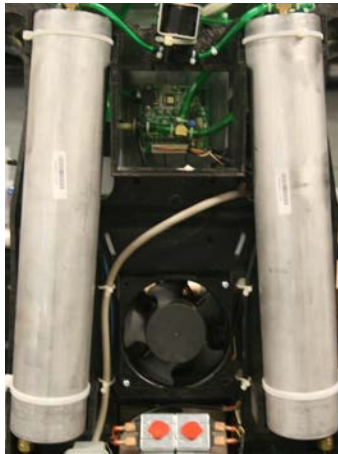
## SEIVE BEDS FOR VISIONAIRE™ AND NEW LIFE UNITS

### AIRSEP® VISIONAIRE™ 2, 3 & 5



VISIONAIRE™ 5 SIEVE BED SET, ASSY	Part Number BE187-2S
VISIONAIRE™ 3 SIEVE BED SET, ASSY	Part Number BE187-2S
VISIONAIRE™ 2 SIEVE BED SET, ASSY	Part Number BE187-4S

### AIRSEP® NEWLIFE® ELITE AND INTENSITY



NEWLIFE® ELITE	Part Number BE001-1S
NEWLIFE® INTENSITY 8 L	Part Number BE157-1S
NEWLIFE® INTENSITY 10 L	Part Number BE186-1S

# Product Information

## CAIRE® HELiOS™ Plus and Marathon Liquid Oxygen Portables



### Longer-lasting Freedom

Although tiny, the CAIRE® HELiOS™ Plus is powerful, lasting up to 9 hours but weighing only 3.6 pounds fully filled. The HELiOS™ Marathon portable oxygen unit gives oxygen therapy patients unprecedented freedom: It lasts up to 22 hours between refills yet weighs only 5.6 pounds fully filled! The HELiOS™ Marathon portable unit lets patients stay out all day. Whether they want to visit friends and family, shop, fish or golf—patients have long lasting freedom without needing to refill their portable or bring along extra oxygen cylinders.

### Continuous Flow/Demand Flow Versatility

While other portable oxygen units have limited continuous flow operation, the HELiOS™ portable units feature multiple settings for continuous and demand flow modes. Now continuous flow patients can enjoy the “no spill” design and portability the HELiOS™ system is known for.

### Features

- No batteries or electricity required
- Unit can operate flat on its back, upright or in any position in between
- Versatile, dual-mode pneumatic demand device (PDD) delivers:
  - Up to 5 LPM demand flow and up to 6 LPM continuous flow for the Marathon
  - UP to 4 LPM demand flow and up to .75 LPM continuous flow for the Plus
- Does not emit heat or noise
- Easy, minimal maintenance
- Efficient — ultra-low normal evaporation rate (NER)
- Durable, reliable design engineered to prevent leaks
- Comfortable padded, slip-resistant shoulder strap
- Wear with a shoulder strap or backpack for hands-free convenience

# Periodic Inspections for European CAIRE Liquid Oxygen Reservoirs and Portables

The ADR (European Agreement Concerning the International Carriage of Dangerous Goods by Road) and regulation EN1251-3 (Cryogenic vessels – Transportable vacuum insulated vessels of not more than 1000 litres) require that periodic inspections are performed on closed cryogenic vessels every 5 and 10 years. All European CAIRE Liquid Oxygen Reservoirs and Portables fall under these requirements.

This month CAIRE Liquid Oxygen Reservoirs and Portables manufactured in **May 2011** and **May 2006** are due for inspections. The manufacture date of your equipment can be identified on the vessels data plate.

Charts European facilities in UK, Germany and Italy are fully accredited to perform the required inspections and also offer a further TPED accreditation service.

Please contact customer service for further information.

United Kingdom +44 (0) 1189 367060

France +33 (0) 561 429 411

Germany +49 (0) 202 739 55420

Italy +39 049 879 9601

Email: [customerservice.europe@chartindustries.com](mailto:customerservice.europe@chartindustries.com)

**Don't Miss Out on our Upcoming Service Schools or Trade Shows!**

## **CAIRE Service School Training Seminar August 22 - 26, 2016 at Ball Ground, GA, United States**

**CAIRE offers Service Schools covering both LOX and Concentrator lines.**

Each class is a comprehensive program that focuses on the technical and service aspects of the CAIRE family products. Class time is divided between lecture and hands-on workshops. The seminars will help the student develop a better understanding of how liquid oxygen equipment or concentrators work, how to identify the symptoms and causes of potential problems and how to use the technical information that is available in the Technical Manuals. Attendance at CAIRE's Service Schools is free, but registration is mandatory. Registration forms must be received one week prior to the start of the class in order to ensure availability and materials.

### **Concentrator Service School topics include:**

- Concentrator hazards and safety precautions
- Principles of pressure, flow and saturation

- Functions of the major components of a portable/stationary concentrator
- Theory of operation
- Hands-on experience with the concentrators
- Set up and use of test equipment
- Troubleshooting, repair and performance verification/testing procedures with hands-on experience

**LOX Service School topics include:**

- Liquid oxygen (LOX) hazards and safety precautions
- Principles of pressure, flow and liquid oxygen saturation
- Functions of the major components of a liquid oxygen system
- HELiOS system theory of operation
- Reservoir and portable filling procedures with hands-on experience
- Set up and use of test equipment
- Troubleshooting, repair and performance verification/testing procedures with hands-on experience

**2016 Training Dates**

August 22 - 26, 2016

Concentrator Training: August 22, 23 & 24 in Ball Ground, GA

LOX Training: August 25 & 26 in Ball Ground, GA

November 14 -18, 2016

Concentrator Training: November 14, 15 & 16 in Ball Ground, GA

LOX Training: November 17 & 18 in Ball Ground, GA

To register for the Service School please:

Complete: [This form](#)

Email: [techservice.usa@chartindustries.com](mailto:techservice.usa@chartindustries.com)

**2016 Trade Shows**

Show's Name	Date	Location
Pulmonary Horizons	August 12-14, 2016	New York City, NY
European Respiratory Society	September 3-7, 2016	London, UK
Medtrade Fall	November 1-3, 2016	Atlanta, GA