



# Med Tips



March, 2010

## Filling and Saturation for CAIRE Reservoirs

For maximum performance, it is required that our reservoirs are properly saturated and filled at the appropriate pressure. As a rule of thumb, all reservoirs are optimally filled if the source tank has a pressure of 50 psi. The pressure at which to throttle the vent valve varies and is listed below.



Unit	Supply Pressure	Throttle Pressure
Liberator	50 (3.4)	20 (1.4)
Companion	50 (3.4)	20 (1.4)
Helios Universal	50 (3.4)	20 (1.4)
Helios Standard	50 (3.4)	24 (1.65)



*Note: The pressures are listed in psi (bar) format*

Please note the tank will not be properly saturated immediately after filling because the temperature of oxygen must stabilize. For increased performance and accurate flow rates, recommend allowing the base to stand 15-30 minutes before filling portables, breathing from the reservoir, or performing a flow test.

## New Material for Portable Plastic Cases

Soon, the portable plastic cases will be made from the same blend as the shrouds on the Liberators which features improved impact resistance.

## CAIRE Medical Training

We are pleased to announce our first CAIRE Respiratory Service School of the year is scheduled for March 30-31, 2010. We will review all of our traditional products as well as our newly acquired lines. Please use the form at the end of this newsletter to register.

If you cannot attend this time, we have 3 more schools tentatively scheduled throughout the year.

June 23 -24

September 14-15

December 7-8

## Customer & Technical Info

For ordering information contact

Customer Service:

**Europe:** +44 1344 403100  
**Australia/New Zealand:** +61 2 9749 4333  
**US Toll Free:** 800.482.2473  
**Asia/ Pac Rim:** 770.721.7759  
**The Americas:** 770.721.7759

For technical information contact

Technical Service:

**Europe:**  
Phone: +44.1344.403100  
Email: [technicalservice.europe@chart-ind.com](mailto:technicalservice.europe@chart-ind.com)  
**US Toll Free**  
Phone: 800.482.2473  
Email: [techservice.usa@chart-ind.com](mailto:techservice.usa@chart-ind.com)  
**Asia/Pac Rim**  
Phone: 770.721.7759  
Email: [techservice.usa@chart-ind.com](mailto:techservice.usa@chart-ind.com)

[www.cairemedical.com](http://www.cairemedical.com)



## ***CAIRE Inc.'s Liquid Oxygen System 2010 Technical Training Seminar***

*CAIRE Inc.'s Liquid Oxygen System Technical Training Seminar* is a comprehensive program that focuses on the technical and service aspects of the CAIRE family liquid oxygen systems. Class time is divided between lecture and hands-on workshops. This seminar will help the student develop a better understanding of how liquid oxygen equipment works, how to identify the symptoms and causes of potential problems and how to use the technical information that is available in the Technical Manuals.

Seminar 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
- 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

A tour of the state of the art CAIRE Inc. cryogenics manufacturing facility and certificates of attendance are also included in the program.



## **CAIRE Inc.'s Liquid Oxygen System 2010 Technical Training Seminar**

CAIRE Inc. is offering a factory-based technical training seminar on the array of liquid oxygen system in the CAIRE Family, including HELiOS, Spirit Family, Liberator, and others. The information presented in this two-day seminar is designed to make your technician comfortable with how the Liquid Oxygen system works, how to identify and resolve equipment problems, and how to keep your equipment in top operating condition. Certificates of attendance will be presented at the conclusion of the seminar.

### **SEMINAR DATES**

**March 30 & 31**  
**June 22 & 23**  
**September 14 & 15**  
**December 7 & 8**

To determine seating availability in these seminars please call CAIRE Inc.'s Technical Service Department at 800.482.2473 or e-mail us at [techservice.usa@chart-ind.com](mailto:techservice.usa@chart-ind.com). Thank you.

### **SEMINAR LOCATION AND HOURS**

The technical training seminars will be held in our training center located at:

**CAIRE Inc.**  
**2200 Airport Industrial Drive**  
**Suite 500.**  
**Ball Ground, Georgia 30107**  
**Local Phone: 770.721.7700**

The class sessions will begin promptly at 8:00 AM and end at approximately 4:45 PM. Attire for the seminar is casual. However, since we will be working with liquid oxygen (-297° F) and will be taking a tour of the manufacturing facility, shorts and sandals should *not* be worn during class.

### **NO SEMINAR FEE**

There will be no Seminar Fee for CAIRE Inc.'s Technical Trainings. Seminar participants are responsible for transportation to and from the airport and the training location. Participants are also responsible for their hotel rooms and any charges that are related to their stay. CAIRE Inc. will provide all meals throughout the two-day training.

(Please note any special needs or food allergies on the registration form)



## **CAIRE Inc.'s Liquid Oxygen System 2010 Technical Training Seminar**

### **SEMINAR REGISTRATION INFORMATION**

To register for a seminar, please complete the attached seminar registration form and fax to CAIRE Inc. LOX Training at 770.721.7701. **You will be notified if the seminar is full. Class size is limited and registration is on a first come, first served basis. Please do not finalize travel arrangements until your enrollment is confirmed. Note: A seminar may be cancelled due to insufficient enrollment.** If your plans change and you need to cancel your reservation, please do so by calling 800.482.2473 at *least 14 days* prior to the seminar date.

### **LODGING AND TRANSPORTATION**

Hotel reservations for participants in the CAIRE Inc.'s technical training seminars may be made at the following hotels:

Hampton Inn  
710 Transit Ave.  
Canton, GA 30114  
Phone: 770.345.7400

Best Western  
705 Transit Ave.  
Canton, GA 30114  
Phone: 770.345.6800

When making reservations for the seminar at these hotels, you may ask for the Chart corporate room rate. Our corporate rate is available only when you make reservations through the local hotel's reservation desk and you mention that you are attending a CAIRE/ Chart seminar.



CAIRE Inc.'s Liquid Oxygen System
2010 Technical Training Seminar
Registration Form

Please fax completed form to 770.721.7701
Attn: Elizabeth Hofstetter
\* denotes required field

\*Seminar Date:
\*Attendee Name:
\*Company:
\*Company Address:
\*City:
\*State:
\*Postal Code:
\*Phone Number:
\*Fax Number:
\*Email Address:
\*Date:

Table with 3 columns: Hotel you are staying at (circle), Hampton Inn, Best Western. Includes addresses and phone numbers for each hotel.

NOTE: We will not be providing transportation to and from these hotels.

Registration Deadline: The deadline for submission of this registration form is one week prior to the start of the LOX Training Seminar.

Additional Notes: