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# CAIRE®

*A Chart Industries Company*

AirSep®  SeQual®

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

## Med Tips

### In This Issue

[Product Information](#)  
[Helpful Hints / FAQs](#)  
[Service Schools & Tradeshow](#)  
[Contact Us](#)

### PDF Version

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September 2013

### NEW SeQual Eclipse 5

#### NEW SeQual Eclipse 5

Chart is pleased to announce the release of the new SeQual Eclipse 5. This new generation of SeQual Eclipse raises the bar for POC performance. The Eclipse 5 features the same benefits that you love about the Eclipse 3, but with next generation internal components that enhance the reliability of the POC. The Eclipse 5 goes where you go, with improved DC power operation that allows for full functionality of the Eclipse 5 when running from DC outlets. All continuous flow settings, up to 3 LPM, as well as all pulse flow settings, including the largest super setting of 192 mL, are now available while operating on both AC and DC power. The Eclipse 5 battery will also charge when the unit is connected to DC power, while operating at all flow settings up to 2.0 LPM.

Improvements to the Eclipse 5 include:

- All continuous flow and pulse dose volumes available while operating on DC power
- Battery cartridge will re-charge when unit is connected to DC power for all continuous flow settings up to 2.0 LPM and all pulse flow settings up to 192 mL
- Next generation internal components enhance unit reliability

*Note: Due to the variation in power output that vehicles produce, some vehicles may limit the features of the Eclipse 5. See "Eclipse 5 Operation on DC power" in the "Helpful Hints" section below for further information.*



## PRODUCT INFORMATION

### New Condensate Pad on Strollers

Chart has transitioned to a new color of condensate pad for Stroller units, due to a change in supplier. The new pads were fully tested for functionality and there is no change in performance. The appearance of the new pads will be gray in color. The older pads were off-white.



**New Condensate Pad**



**Old Condensate Pad**

## HELPFUL HINTS / FAQs

### **Eclipse 5 Operation on DC Power**

All continuous flow and pulse dose volumes are available while operating the new Eclipse 5 on DC power. When additional power is available, the Eclipse 5 battery cartridge will also re-charge on DC power while the Eclipse 5 is being used at any setting up to 2.0 LPM continuous. Due to the variation in power output that vehicles produce, some vehicles may limit the features of the Eclipse 5. CAIRE recommends that patients test the Eclipse 5 in their vehicle prior to use. Below is the recommended procedure to test DC operation in a vehicle prior to use:

- 1. Start the vehicle.**
- 2. Remove the battery from the unit.**
- 3. Plug the Eclipse 5 into the DC Accessory Outlet.**  
(Avoid using splitters or other accessories.) The

- outlet closest to the vehicle's battery is recommended as this produces the most power.
4. Ensure that the green status LED is illuminated on the DC power supply. This ensures that it is receiving power from the accessory outlet.
  5. Set the Eclipse 5 facing outward so that the air intake filter is not obstructed and there is sufficient air flow around the device.
  6. Set the Eclipse to 0.5 LPM continuous flow and allow it to run for 1-2 minutes at this flow rate.
  7. Increase the continuous liter flow incrementally, testing each setting as described in Step 4 to ensure that the Eclipse does not alarm or shut off.
  8. Insert the battery and ensure that the battery indicator is cascading, indicating that it is charging.

*Note: Removing other accessories that are plugged into the vehicle's other DC outlets such as GPS, cell phone, etc may free up more power to run the unit.*

## Hour Meter Kit for AirSep Focus & FreeStyle 5

The AirSep Focus and Freestyle 5 log the hours of use on the internal circuit board. An interface kit can be purchased that allows you to retrieve this hour reading. The kit includes a cable that can be connected to a USB port on a computer as well as an instructional CD that contains instructions and the necessary software. The Hour Meter Kit can be ordered through the AirSep Customer Service (1-800-874-0202) by using PN KI406-1.

The Hour Meter Kit software allows you to read the total number of hours for the unit as well as the ability to access a resettable hour counter for service purposes. This can be used to keep records as to when a component, such as the compressor, was last replaced. The software also allows you to easily reset the second hour meter by selecting the "Clear" button, as shown below.



## Eclipse Battery Calibration

**CAIRE recommends that the Eclipse power cartridge (battery) be calibrated once monthly.**

Calibration consists of completely draining and recharging the battery cartridge. This procedure is part of proper care for the lithium ion battery. Battery calibration will not only help to maximize the life of the battery cartridge, but will also ensure that a full charge lasts as long as it should when the patient is using the Eclipse.

Patients can perform this procedure once monthly as part of their regular use of the Eclipse. The best recommendation for providers is to perform this procedure every time the Eclipse returns to their shop (between patients, maintenance, etc.). Please see the battery calibration procedure below:

1. Install the power cartridge in the Eclipse.
2. Remove external power cords and operate the Eclipse from the power cartridge.
3. Allow the Eclipse to completely discharge the power cartridge. Do not connect to AC power or turn off the Eclipse when it begins to alarm for low battery. Allow the Eclipse to run until it shuts off and no battery power is remaining.
4. Re-attach the external AC power source. Verify that the external power indicator is lit on the front panel of the Eclipse. Leave the power cartridge installed. Charging should begin automatically when the battery reaches proper temperature.
5. Allow the power cartridge to completely charge, as indicated by the meter on the front display panel.

## ACCESSORIES

### **AirSep & SeQual POC Wheelchair Straps**

CAIRE sells wheelchair straps for the easy attachment of the AirSep and SeQual POC's to wheelchairs. These are versatile straps that can be used to attach Eclipse units as well as any of the AirSep FreeStyle POC's.





AirSep Wheelchair Strap



SeQual Wheelchair Strap

### Liquid Oxygen Reservoir Rollerbases

CAIRE offers a rollerbase to fit all liquid oxygen reservoirs. These rollerbases have five casters that are 3 inches (76.2 mm) in diameter. Please use the table below to determine which rollerbase and associated part number is correct for each unit.

- All CE marked rollerbases have brakes on two of their casters.
- All Non-CE marked rollerbases do not have any brakes on their casters.

Reservoir Model	CE Marked Rollerbase	Non CE Marked Rollerbase
Companion C21, C31, C41	10855678	10585866
HELiOS H36, H46, U36, U46	14880387	14880803
Liberator 10	11682262	10585858
Liberator 20, 30, 37, 45	10855678	10585866
Liberator 60	11363069	11194074
Low Loss 32	10855678	10585866
Low Loss 41	11363069	11194074

## SERVICE SCHOOLS & TRADESHOWS

**Mark Your Calendars for our Upcoming 2013 Service Schools!**

### USA

**Concentrator Training: September 10, 11, 12 in Buffalo, NY**

**LOX Training: September 17 & 18 in Buffalo NY**

**\*\*Buffalo trainings include a tour of the manufacturing facility for AirSep products.**

**Concentrator Training: November 5, 6, 7 in Ball Ground, GA**

**LOX Training: November 12 & 13 in Ball Ground, GA**

**\*\*Ball Ground trainings include a tour of our CAIRE and SeQual manufacturing facility.**

For additional details and registration information about these trainings, please visit the ["Events & Service Schools"](#) tab of our website.

### Europe

**French LOX Product Training: September 11 & 12 in Fonsorbes, France**

**French Concentrator Training: September 24, 25, 26 in Fonsorbes, France**

**German Concentrator Training: October 8, 9, 10 in Wuppertal, Germany**

**Italian LOX Product Training: October 9 & 10 in Padova, Italy**

To register or request more information on the 2013 European trainings, please contact [Jim Gibson](#).

### Tradeshows

This month we will be attending the following tradeshows. We would love for you to stop by our booth!

#### ERS

September 7-11  
Barcelona, Spain  
Stand D.22

**TABLES**

September 16-18  
Wisconsin Dells, WI  
Booth #9

**South Dakota Society for Respiratory Care (SDSRC) Annual Meeting**

September 17-18  
Sioux Falls, SD  
CAIRE Booth

**Western Regional Conference for Pennsylvania Society of Respiratory Care**

September 26-27  
Mars, PA  
CAIRE Booth

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