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## Med Tips

October 2012

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**NEW!!**  
 Patient Spotlight

### AirSep Products Now Available Through CAIRE

### PDF Version

To view Med Tips in PDF, [click here.](#)

AirSep, a privately held company based in Amherst, New York, is a leading manufacturer of oxygen generating systems for medical and industrial applications. The company designs and manufactures stationary and portable oxygen concentrators for medical use, such as the ultra lightweight Focus™, FreeStyle™, and VisionAire™. Additionally AirSep is a leader in on-site air separation oxygen generation systems for industrial applications. On-site generation products range from standard generators to custom-built large-scale industrial Pressure Swing Absorption ("PSA") or Vacuum Pressure Swing Absorption ("VPSA") systems that can produce 100 tons of oxygen per day.

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Steve Shaw, President of Chart's BioMedical Group, commented, "The AirSep product lines and distribution network bring new technology to our customers and extend our non-delivery modalities across the globe. We are very pleased to add a talented and proven management team and staff to our BioMedical Group, and we look forward to offering a broader set of solutions to our customers."

Ravi Bansal, Chairman and Chief Executive Officer of AirSep, commented, "Our merger into Chart BioMedical will allow us to grow our business on a broader scale and continue to provide high quality and innovative products."

We are excited to take our capabilities to current and new customers across the globe, leveraging Chart's experience and relationships."

We at CAIRE are excited about this opportunity to provide our valued customers with additional options for their patients and their business and believe that the quality products from AirSep are a wonderful complement to the quality our customers have experienced through CAIRE and SeQual.

For more information on AirSep visit: <http://www.airsep.com>.

## PRODUCT INFORMATION

### Product Cutsheets Available Online

Updated specification sheets for all products are now available for download on the CAIRE website. All product brochures are available in Italian, French, German, Spanish, and English. Please use the [following link](#) to access the specification sheets and click on the tab labeled "Product Cutsheets".

The screenshot shows the CAIRE website interface. The navigation menu includes 'Home', 'Products', 'Support', 'SeQual', 'About CAIRE', and 'Contact CAIRE'. The 'Product Cutsheets' tab is highlighted in red. The main content area displays a table of product specifications for various CAIRE products.

PN Number	Description	Language
<b>Companion 1000 &amp; 1000T</b>		
ML120004	Companion 1000 1000T Portables	French
ML120004	Companion 1000 1000T Portables	German
ML120005	Companion 1000 1000T Portables	Italian
ML120006	Companion 1000 1000T Portables	Spanish
ML120052	Companion 1000 1000T Portables	English
<b>Companion 21, 31 &amp; 41 Reservoirs</b>		
PN Number	Description	Language
ML120013	Companion 21 41 Reservoirs US	English
<b>Eclipse 3 Concentrator</b>		
PN Number	Description	Language
ML121024	Eclipse Cutsheet	English
ML121026	Eclipse Patient Trifold	English
ML121027	Eclipse Accessories Trifold	English
ML121039	Eclipse Cutsheet	Italian
ML121040	Eclipse Cutsheet	German
ML121041	Eclipse Cutsheet	French
ML121042	Eclipse Cutsheet	Spanish
<b>HELIOS Portables</b>		
PN Number	Description	Language
ML120000	HELIOS Portables	German
ML120025	HELIOS Portables Informational Sheet	English
ML120025	HELIOS Portables	English
ML120054	HELIOS Portables	Spanish
ML120056	HELIOS Portables	French
ML120058	HELIOS Portables	Italian
ML121029	HELIOS Portables Trifold	English
<b>HELIOS Reservoirs</b>		
PN Number	Description	Language
ML120024	HELIOS Reservoirs	English
ML120024	HELIOS Reservoirs	German
ML120052	HELIOS Reservoirs	Spanish

### HELIOS Reservoir Contents Indicator

Use part number **#R-702207-00** to order a replacement contents indicator

Use part number **B-702207-00** to order a replacement contents indicator for a HELiOS Reservoir.



All previous part numbers for the contents gauge, including B-494788-00, are no longer active part numbers. B-494788-00 was a contents gauge that was made obsolete in 2004. It had an RJ-44 connection on the side to support the Televue remote monitoring system. The HELiOS contents gauges no longer support this monitoring system, and the current meters do not contain the RJ-44 port.

B-702207-00 can be ordered for all HELiOS reservoirs. It is a direct replacement of the older gauges that might have contained the telemetry port.

### LOX Reservoir Dust Covers

Below is a table to be used as a guideline for ordering replacement QDV dust covers. Dust covers are only necessary on CAIRE reservoirs that have top-fill male QDV's. The dust cover assembly includes the QDV cover, along with the chain for attaching it to the shroud.

Reservoir	Plastic Dust Cover
Companion	15075347
HELiOS	15075347
Liberator (CAIRE TF)	15075347
Liberator (CryoPal TF)	15075347
Liberator (Taema TF)	15075355



### C1000 Vent Valve Assembly

European models of the Companion C1000 & C1000T utilize an auto-closing vent valve. Unique part numbers are used to order a vent valve assembly and vent valve lever as replacement parts on European units. Use the table below as a guideline for ordering these parts. The vent valve assembly does include the lever.

	Auto-Closing (European Only)	Non Auto-Closing
Vent Valve Assembly	B-776438-00	B-775243-00
Vent Valve Lever	B-776439-00	B-775004-00

### OxySafe Now Available For Concentrators

CAIRE will now be offering the OxySafe™ as an optional accessory. This is intended to be used in conjunction with the Eclipse and Integra concentrators. For customers in regions requiring compliance to EN ISO 8359:1996-Amendment 1:2012, this accessory will meet this need.

The 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 the OxySafe.



It is placed in-line with the nasal cannula or oxygen tubing between the patient and the oxygen outlet of the Eclipse or Integra. CAIRE will offer two different OxySafe™ kits that are shown below.

**#20628668**

OxySafe™ Kit With DISS Tubing Adaptor



**#20628667**

OxySafe™ Kit With Cannula & 7 ft Tubing (2.13 m)



**#20628667** will be the kit designed to be used with the Eclipse POC. It will contain a cannula headpiece, OxySafe™, and 7' tubing.

**#20628668** is the kit designed to be connected to the oxygen outlet of the Integra stationary concentrators. It will contain a DISS hose barb, a tubing adaptor, and an OxySafe™.

The shelf life of the OxySafe™ is 4 years from the manufacture date stamped on the unit. It is also recommended that the OxySafe™ be replaced between patients.

When used in line with the Eclipse or Integra, the OxySafe™ will not restrict flow or affect the performance of the concentrator.

#### HELPFUL HINTS / FAQs

##### Liberator FCV Extension O-Ring

Q: Can the O-ring on the Gen 4 Liberator Flow Control Valve extension be ordered as a replacement part?

A: Yes. The O-ring is available as an orderable part. It is orderable using part number **#13646945**.



PN: 13646945

##### Eclipse Maintenance Schedule

Below are the manufacturers recommended maintenance schedule for the SeQual Eclipse. These are the minimum recommendations for maintaining the Eclipse.

- Weekly Maintenance:
  - Clean the Air Intake Filter
- Monthly Maintenance:
  - Power Cartridge Calibration

- Power Cartridge Calibration
  - o 2 Hours of Continuous Run Time
- Annual Maintenance:
  - o Replace the Air Inlet Filter
  - o Replace the Compressor Intake Filter
  - o Replace the HEPA Filter
  - o Replace the 9-Volt Battery

Weekly and monthly maintenance can be performed by the patient while the unit is in service. The annual maintenance must be performed by a service technician.

Please contact technical support with any questions, or reference the Eclipse technical manual for specific procedures.

### **Integra Maintenance Schedule**

Below are the manufacturers recommended maintenance schedule for the SeQual Integra. These are the minimum recommendations for maintaining the Integra.

- Weekly Maintenance:
  - o Clean the Air Intake Filter
- Monthly Maintenance:
  - o 2 Hours of Continuous Run Time
- Annual Maintenance:
  - o Replace Air Inlet Filter
  - o Replace Compressor Intake Filter
  - o Replace HEPA Filter
  - o Replace the 9-Volt Battery (N/A on Analog Units)

Weekly and monthly maintenance can be performed by the patient while the unit is in service. The annual maintenance must be performed by a service technician.

Please contact technical support with any questions, or reference the Integra technical manual for specific procedures.

### **Eclipse O-Rings**

**Q:** I just received an Eclipse Preventative Maintenance Kit (5022-SEQ) and noticed that there are 2 O-rings in the kit. Where are these o-rings installed and should they be replaced?

**A:** These O-rings will only be used on Eclipse units that contain the updated product tank with the internally threaded HEPA filter (first picture

shown below). Units with the 2-tiered product tank and external HEPA filter will not utilize these O-rings (second picture shown below).



The figure below shows the location of the 2 O-rings in the product tank, and also give the part number for ordering them individually as spare parts.



Top O-ring: PN #9251-SEQ  
Bottom O-ring: PN #4382-SEQ

CAIRE-SeQual does recommend that these O-rings be replaced as part of the annual preventative maintenance. They should also be replaced any time they are visually noticed to be missing or damaged.

## ACCESSORIES

### Capacitance Adaptor Kit

CAIRE offers a capacitance adaptor kit that is necessary to test the capacitance of the manifold on units that contain a G4 meter. This can be used on the Sprint, Stroller, Hi-Flow and Liberator units.

The adaptor kit contains probes that will connect to a standard volt meter. The black probe is an alligator clip that is used for grounding, and the red probe is a male JSD connector identical to the connection on the G4 meter itself. The kit can be ordered using part number **#13329091**.





The reservoir or portable must be warm and empty to test the capacitance of manifold. First, disconnect the G4 meter from the tank manifold at the JSD connector. Then insert the male connector on the red probe into the female connector of the main wire harness. Make sure that the negative wire is grounded properly. Attach both probes to a voltmeter and turn it to a setting of 200pF. This will give you the capacitance reading of the manifold.

Testing the capacitance in this manner is a critical part of troubleshooting issues with the G4 meter. When the meter gives a error message and will not calibrate properly, this can be caused by both a faulty meter, or by an issue with the wire harness or manifold. Testing the capacitance of the manifold will determine if the manifold or harness are potentially the faulty component causing the error messages. Acceptable manifold capacitance for all the CAIRE products is listed in the technical manual.

## SERVICE SCHOOLS & TRADESHOWS

### Mark Your Calendars for our Upcoming 2012 Service Schools!

#### USA

##### Concentrator Technical Training in English

November 5-6

Ball Ground, Georgia

##### LOX Technical Training in English

November 7-8

Ball Ground, Georgia

To register for 2012 US LOX Training, [download this form](#).  
To register for 2012 US Concentrator Training, [download this form](#).

#### Europe

##### LOX Technical Training in English

October 16 & 17



Wokingham, UK  
**LOX Technical Training in French**  
 October 17 & 18  
 Fonsorbes, France  
**LOX Technical Training in Italian**  
 November 14 & 15  
 Padova, Italy

For more information on the 2012 European trainings, please contact Jim Gibson at [jim.gibson@chart-ind.com](mailto:jim.gibson@chart-ind.com).

### Tradeshows

We'll also be present at the following tradeshows this month, so feel free to stop at our booth! To find out more about any of the following shows, please click on its title and you will be directed to the show site.

#### [Medtrade Atlanta](#)

**October 16-18**  
**Atlanta, GA**  
**Booth# 1045**

#### [OPIQ](#)

**October 28-31**  
**Quebec, Canada**  
**Booth #29**

### CONTACT US

#### **For ordering information contact Customer Service:**

United Kingdom	+44 (0) 1189 367060
France	+33 (0) 561 089 858
Germany	+49 (0) 202 739 55420
Italy	+39 049 879 9601
	<a href="mailto:customerservice.europe@chartindustries.com">customerservice.europe@chartindustries.com</a>
Australia/New Zealand	+61 2 9749 4333
Asia/Pac Rim	770.721.7759
The Americas	770.721.7759
US Toll Free	800.482.2473
	<a href="mailto:customerservice.usa@chartindustries.com">customerservice.usa@chartindustries.com</a>

#### **For technical information contact Technical Service:**

United Kingdom	+44 (0) 1189 367060
France	+33 (0) 561 089 858
Germany	+49 (0) 202 739 55420
Italy	+39 049 879 9601
	<a href="mailto:techservice.europe@chartindustries.com">techservice.europe@chartindustries.com</a>
Asia/Pac Rim	+61 2 9749 4333
	<a href="mailto:techservice.asia@chartindustries.com">techservice.asia@chartindustries.com</a>

The Americas 770.721.7759  
techservice.usa@chartindustries.com

US Toll Free 800.482.2473  
techservice.usa@chartindustries.com

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