

Q4 2018 Med Tips

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 CAIRE liquid oxygen reservoirs and portables fall under these requirements.

Chart 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.

CAIRE liquid oxygen reservoirs and portables manufactured since **September 2013 and September/October/November/December 2008** are due for inspections. The manufacture date of your equipment can be identified on the vessel's data plate.

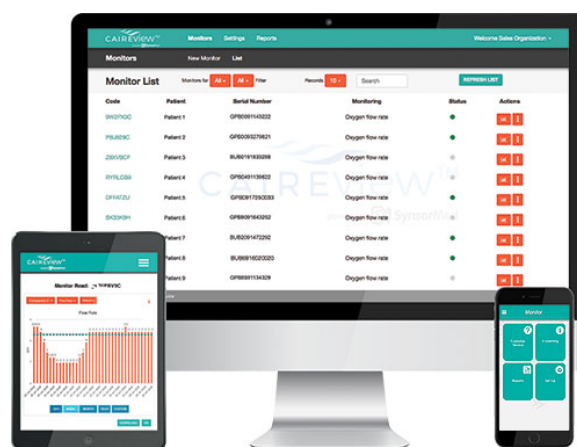
All CAIRE liquid oxygen reservoirs and portables **located within the European Union** fall under these requirements.

CAIREview™ powered by SynsorMed telehealth solution and launch of associated wireless-enabled concentrators

CAIRE is proud to announce the addition of new wireless-enabled oxygen concentrators for remote connectivity to the CAIREview™ powered by SynsorMed telehealth software application. Wireless enabled devices will be available in August 2018 to the US markets and offered in the following models:

FreeStyle® Comfort® portable concentrator, Companion 5™ stationary concentrator, and Eclipse 5® transportable concentrator. Wireless-enabled CAIRE concentrators allow connectivity to the newly launched CAIREview™ telehealth software application, this innovative solution is equipped with periodic remote user monitoring technology. CAIREview™ allows communication from the concentrator to the user and provider, which monitors and tracks operational metrics related to the concentrator functionality, in addition to prescription compliance and asset tracking.

The wireless enabled units match their non-wireless predecessor units in oxygen output, oxygen purity, and other performance characteristics. In the case of the Eclipse 5® unit, the alarm scheme and button panel has changed from the non-wireless to the wireless models. See the User Manual, PN 21182453, and Tech Manual, PN 20631679, for details on those changes.



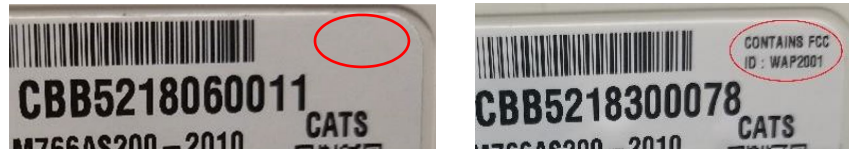
Contact your local CAIRE sales representative or CAIRE customer service for purchasing information for wireless-enabled concentrators and information on using the CAIREview™ system.

CAIRE will offer two Companion 5™ options, PN 21225813 which is the wireless-enabled device and the non-wireless-enabled Companion 5™, PN 15067005. Both models of the Companion 5™ are now available. The non-wireless Eclipse 5®, PN 6900-SEQ, unit will be available until inventory is depleted. Afterwards, the Eclipse 5® will only be equipped standard with the wireless connectivity, PN 6900BT-SEQ. As of July 1, 2018, all FreeStyle® Comfort® products will come standard with wireless connectivity.

Wireless-enabled units can be visually distinguished from the non-wireless-enabled units. For the FreeStyle® Comfort®, Companion 5™, and Eclipse 5® there will be a FCC symbol located on the UDI label. Units without the FCC symbol do not have wireless capability, while units with the FCC symbol on the label do have wireless capability.

UDI Label Without FCC Symbol

UDI Label With FCC Symbol



Additionally, for the Eclipse 5®, the wireless-enabled model will have 2 LEDs on the control panel while the non-wireless-enabled model will have 3 LEDs on the control panel. Please reference Service Bulletin 21220048 for more details on the changes between these two models.

Again, once inventory is depleted of the non-wireless Eclipse 5® units, all Eclipse 5® models sold will be wireless-enabled. Wireless-enabled Eclipse 5® units can have the wireless transmission feature disabled and enabled by the equipment provider as needed. If wireless is not needed by a customer please refer to the Technical Manual, PN 20631679, for details on this procedure.

[Click the link to read Service Bulletin 21307250](#)

Important reminder on proper use of the Eclipse 5® AC power supply

With the introduction of the new two-prong power supply for the Eclipse 5®. Read the link below to avoid damage to the unit.

[Click the link to read Service Bulletin 21336031](#)

AirSep® NewLife® Intensity 10 L and AirSep® NewLife® Elite 5 L concentrators

Manufacturing of select models of AirSep® NewLife® Intensity 10 L and AirSep® New Life® Elite 5 L concentrators documented in the tables below will cease globally on December 31, 2018, to simplify the CAIRE product offerings and provide a more streamlined order and delivery process for our customers. CAIRE will continue to provide service and parts through 2021 to support warranty obligations.

The last day CAIRE will take orders for the models below is November 1, 2018. All orders are final and will be shipped per order instructions.

Table 1: AirSep® New Life® Elite 5 L Concentrators

AirSep® New Life® Elite 5L SKUs Obsolete		
Model Type	Item	Description
120V/60HZ Models	AS005-87	Standard, Non O2 Monitor, Air Outlet, English Man, US Cord
	AS005-84	Standard, O2 Monitor, English Man, US Cord
	AS005-1U	Re- MFG, Standard, Non O2 Monitor, English Man, US Cord
	AS005-4U	Re- MFG, Standard, O2 Monitor, English Man, US Cord
230V/50HZ Models	AS005-508	Standard, Non O2 Monitor, Air Outlet, Multi Lang. Man, EUR Cord
	AS005-225	Standard, O2 Monitor, Multi Lang. Man, EUR Cord
	AS005-255	Standard, O2 Monitor, Multi Lang. Man, UK Cord
	AS005-300	Standard, O2 Monitor, Chinese Manual, China Cord
	AS005-227	Standard, O2 Monitor, Multi Lang. Man, AUS Cord
	AS005-230	Standard, O2 Monitor, Multi Lang. Man, UK Cord
	AS005-511	Standard, O2 Monitor, Air Outlet, Multi Lang. Man, EUR Cord
	230V/60HZ Models	AS005-3
AS005-261		Standard, Non O2 Monitor, Air Outlet, Port Manual, EUR Cord
AS005-6		Standard, O2 Monitor, English Man, EUR Cord

Table 2: AirSep® NewLife® Intensity 10L

AirSep® NewLife® Intensity 10L SKUs obsolete		
Model Type	Item	Description
120V/60HZ Models	AS099-100	Standard, Non O2 Monitor, English Manual, US Cord
	AS099-205	Standard, Non O2 Monitor, English Manual, US Cord, Mask Kit
	AS099-206	Standard, O2 Monitor, English Manual, Brazilian/EUR Cord, Brazilian Labels
	AS099-1	Dual Flow, Non O2 Monitor, English Manual, US Cord
	AS099-100U	Re-MFG Standard, Non O2 Monitor, English Manual, US Cord
	AS099-101U	Re-MFG Standard, O2 Monitor, English Manual, US Cord
	AS099-1U	Re-MFG Dual Flow, Non O2 Monitor, English Manual, US Cord
	AS099-4U	Re-MFG Dual Flow, O2 Monitor, English Manual, US Cord
	230V/50HZ Models	AS099-102
AS099-207		Standard, Non O2 Monitor, Multi Lang Manual, UK Cord
AS099-208		Standard, Non O2 Monitor, Multi Lang Manual, AUS Cord
AS099-212		Standard, O2 Monitor, Multi Lang Manual, ARG Cord
AS099-209		Standard, Non O2 Monitor, Multi Lang Manual, EUR Cord, Humidifier Kit
AS099-20		Standard, O2 Monitor, Chinese Manual, Chinese Cord
AS099-203		Standard, O2 Monitor, Multi Lang Manual, EUR Cord
AS099-202		Standard, O2 Monitor, Multi Lang Manual, EUR Cord, Humidifier Kit
AS099-204		Standard, O2 Monitor, Humidifier Bottle Kit, Multi Lang Man, EUR Cord

	AS099-7	Dual Flow, Non O2 Monitor, Multi Lang Manual, EUR Cord
	AS099-215	Dual Flow, Non O2 Monitor, Multi Lang Manual, UK Cord
	AS099-214	Dual Flow, Non O2 Monitor, Multi Lang Manual, AUS Cord
	AS099-104	Dual Flow, O2 Monitor, Chinese Cord, Chinese Manual
	AS099-103U	Re-MFG Standard, O2 Monitor, Multi Lang Manual, EUR Cord
	AS099-10U	Re-MFG Dual Flow, O2 Monitor, Multi Lang Man, EUR Cord

CAIRE will continue to manufacture and stock a variety of AirSep® NewLife® Intensity 10 L and AirSep® New Life® Elite 5 L models and a CAIRE representative can help you select the right concentrator for your business needs.

[Click the link to read announcement](#)

Discontinuation and end of service life of 3-LED Eclipse 5®

CAIRE announces the discontinuation of the Eclipse 5® oxygen concentrator with the 3-LED control panel display as of October 1, 2018. Effective October 1, 2021, CAIRE will no longer offer service options for the Eclipse 5® that has the 3-LED display. The affected part numbers are as follows:

<u>Part Number</u>	<u>Description</u>
6900-SEQ	E5 SYS, ENG, 110, NA CORD
6900LN-SEQ	E5 SYS ENG, 110 NA CORD, 2 BATTERES
6900-C1-SEQ*	E5 SYS, C1, EN, FR, GE, SP, IT, PO, DU
6900-C2-SEQ	E5 SYS, C2, DA, NO, SW, FI
6900-08-SEQ	E5 SYS, UK

*Serial numbers \geq
GPB0918050186 is equipped
with wireless connectivity

The 3-LED Eclipse 5® is being replaced with the wireless-enabled, 2-LED Eclipse 5® oxygen concentrators. For countries that do not need the CE marked Eclipse 5® use PN 6900BT-SEQ, while countries that do need the CE marked Eclipse® will typically use 6900-C1-SEQ (depending on applicable languages). Reference Service Bulletin 21220048 for more details on the changes for the 3-LED model and 2-LED model Eclipse 5®.

[Click the link to read Service Bulletin 21307249](#)

Discontinuation of Companion® C31/C41 Oxygen Reservoirs and Companion® C1000/C1000T Portables

The Companion® C31/C41 Reservoirs and C1000/C1000T Portables are due to be made obsolete on 12/31/2018. These LOX Products will be made obsolete due to low sales volume and due to the redundancy with the newly enhanced Liberator® Reservoir product line. Until this discontinuation date, current service, sales and parts needs for all models will still be fulfilled.

For stationary oxygen reservoirs, customers can use the Liberator® Reservoirs, these are available in a wide variety of sizes and have the benefit of allowing flow rates up to 15 LPM. The C1000/C1000T portables will be replaced by the Stroller/High Flow Stroller® models giving customers the added option of being able to choose our side fill systems.

C31 / C41 Reservoir and C1000 / C1000T Portables will be available for sale during the rest of 2018 and will be effectively discontinued after December 31, 2018. CAIRE will provide parts and service for the Companion C31/C41 Oxygen Reservoirs and Companion® C1000/C1000T until 12/31/2023. After this date CAIRE may continue to provide parts and service at the company's discretion.

[Click the link to read letter](#)

Discontinuation SeQual® eQuinox™ portable oxygen concentrator

CAIRE Inc. ("CAIRE") announced today that it will discontinue manufacturing the SeQual® eQuinox™ portable oxygen concentrator on December 31, 2018.

"In making plans for the future we identified product redundancy with our Eclipse 5® portable oxygen concentrator, since both machines provide the same clinical features, flow settings, and functionality," said Dan Van Hise, Vice-President of Marketing for Chart's BioMedical Group. "CAIRE has chosen to focus our product development on the Eclipse 5® with a robust product roadmap for making it the centerpiece of our clinical strategy."

The Eclipse 5® is the premier portable oxygen concentrator in the CAIRE product portfolio with both homecare providers and oxygen users alike. This single-source oxygen therapy device offers continuous flow oxygen up to 3 LPM, and pulse dose settings 1-9 with industry-leading bolus sizes up to 192 mL. Offering advanced pulse delivery features including autoSAT® Technology, and adjustable bolus rise time and trigger sensitivity, the Eclipse 5® allows for customization of the dose to best meet the needs of the individual patient.

CAIRE will continue to provide service and parts for the SeQual® eQuinox™ through 2021 to support its warranty obligations for the existing fleet.

[Click the link to read Service Bulletin 213326625](#)

Obsoletes Fingertips Pulse Oximeter

Due to parts availability, CAIRE will no longer manufacture Fingertips Pulse Oximeter **7568-SEQ**. It has been made obsolete on June 5, 2018, with no replacement.



Obsolescence of the QDV Cryo-Pal

Due to lack of sales the following QDV will be made obsolete with no replacement:

10754084T QDV BASE TF F CR2 TPED

10743650T QDV PORT TF M CR2 TPED

Discontinuation of H300-50 and H850-50 model units

Due to lack of sales, the H300-50 and H850-50 model units were made obsolete on March 28, 2013. The standard H300 and H850 will stay active.

IEC 60601-1-2 Medical Electrical Equipment standard update

In anticipation of the IEC 60601-1-2 Medical Electrical Equipment standard going into effect, the concentrator models below currently being manufactured are compliant.

- VisionAire™ 5 (230 VAC models only)
- NewLife® Intensity 10 (230 VAC models only)
- Eclipse 5® (3-LED models only)
- FreeStyle® Comfort®

[Click the link to read Service Bulletin 21303735](#)

CAIRE LOX products IEC 60601-1-2 4th Edition

All currently manufactured CAIRE liquid oxygen products with electronic liquid level gauges are IEC 60601-1-2 3rd Edition compliant. Please see table below for complete list of current models. Note: products that do not have an electronic liquid level gauge are not required to be compliant with 60601-1-2.

Reservoirs				
Liberator® 20	Liberator® 30	Liberator® 37	Liberator® 45	Liberator® 60
HELiOST™ H36	HELiOST™ H46	HELiOST™ U36	HELiOST™ U46	
Portables				
Spirit™ 300	Spirit™ 600	Spirit™ 1200		
Sprint™	Stroller®	Hi Flow Stroller®		

The above mentioned CAIRE LOX products will be IEC 60601-1-2 4th Edition compliant in anticipation of the 4th Edition which will be required in Europe as of Jan 1, 2019, with the exception of the HELiOST™ Reservoir product lines will have already been or will be discontinued by that time (see bulletins 21267961 and 21285171 for details on those announcements).

[Click the link to read Service Bulletin 21297437](#)

FAA approval

As of August 22, 2016, the FAA requires portable oxygen concentrator manufacturers to perform a self-certification and any POCs released after that date will no longer get added to the oxygen concentrator list on the FAA website. This is applicable to all POC manufacturers and not just CAIRE. The new

FreeStyle® Comfort® portable oxygen concentrator meets FAA guidelines for commercial air flights and bears the symbol on the back label of the device.



AirSep® plastic case color changes

In April 2015 all VisionAire™ and NewLife® stationary oxygen concentrators started being manufactured with new plastic cases that altered the color of the plastic housing. The units went from a light grey to a dark grey color. All units manufactured after April 2015 were manufactured with the new dark grey case. The list below details the part changes from the light grey to dark grey replacement panels. The light grey part numbers are no longer stocked and cannot be ordered.

Plastic assemblies		
Light Gray	Dark Gray	Description
CA034-1	CA034-11	CABINET ASSY, BACK PANEL,
CA035-7S	CA035-17S	CABINET, ASSY, FRONT PANEL, ELITE
CA036-4	CA036-14	CABINET, ASSY, SIDE PANEL, SPARE
CA218-1S	CA218-11S	CABINET, 8L, ASSY, FRONT PANEL,
CA254-1S	CA254-11S	CABINET, 10L, ASSY, FRONT PANEL
CA265-2S	CA265-12S	CABINET, ASSEMBLY, BACK PANEL
CA266-1S	CA266-11S	CABINET, ASSY, ROLLER BASE, 115V
CA266-2S	CA266-12S	CABINET, ASSY, ROLLER BASE, 220V

CA280-1S	CA280-11S	CABINET, VA, ASSY, FRONT PANEL
CA280-2S	CA280-12S	CABINET, VA, ASSY, FRONT PANEL, O2
CA282-1	CA282-11	CABINET, ASSEMBLY, SHELL, VISIONAIRE
CA285-1S	CA285-11S	CABINET,3L, ASSY, FRONT PANEL, VISIONAIRE 3
CA285-2S	CA285-12S	CABINET,3L, ASSY, FRONT PANEL, O2, V3
CA285-3S	CA285-13S	CABINET, ASSY, FRONT PANEL, O2, VISIONAIRE 2

Helpful Hints and FAQs

Liquid oxygen portable carrying cases

Carrying cases are available for all CAIRE liquid oxygen portables. Please use the table below as a guideline for ordering the carrying accessory that is compatible with each model.

Portable	Carrying Accessory	Part Number
Companion® C1000 & C1000T	Back Pack	#10018138
HELiOS™ H300	Hip Pack	#B-701654-00
HELiOS™ H850	Back Pack	#069209
Spirit™ 300	Hip Pack	#11843361
Spirit™ 600 & 1200	Back Pack	#13214825
Sprint™/Stroller®/Hi-Flow	Back Pack	#13214825

Eclipse® annual preventative maintenance

Are you performing the annual preventative maintenance on your Eclipse® oxygen concentrators? If not, you should be. It's a very simple procedure that can extend the service life of Eclipse® units and increase a unit's reliability. Below you can see each step laid out in an easy to follow format that includes pictures. To make it even easier, CAIRE offers a preventative maintenance kit that has everything you need to perform the maintenance on any Eclipse® model. The part number for the kit is 5022-SEQ.



**Eclipse® Preventative Maintenance Kit
5022-SEQ**

Disconnect the Eclipse® from external power and remove the power cartridge.



1. Place the Eclipse® front side down on an approved ESD mat or work bench.



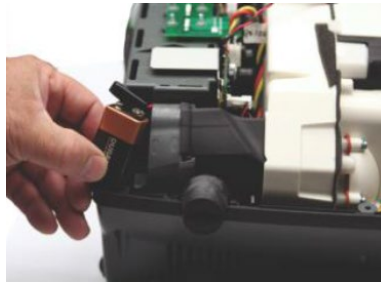
2. Remove the ten #1 Phillips screws that hold the front and rear covers together.



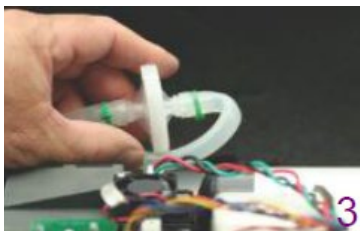
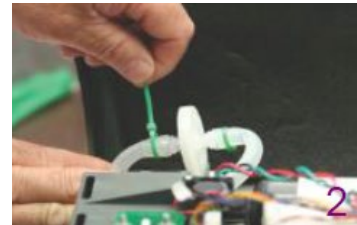
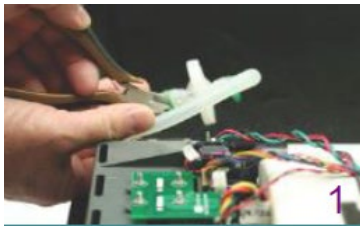
3. Turn the unit over onto its back and remove the front cover assembly. Be careful not to damage the control panel ribbon cable or the oxygen delivery tubing.

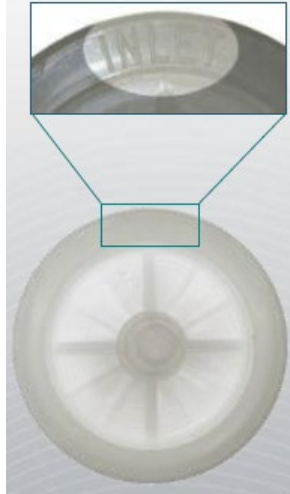


4. Remove the old 9VDC battery from the bottom of the unit and replace it with the new battery provided in the preventative maintenance kit. Use the foam adhesive tape, also provided in the kit, to secure the battery and prevent it from rattling inside the unit.



5. Eclipse® units manufactured prior to 2011 will have a HEPA filter that is external to the product tank. Remove the old filter while paying attention to the flow direction on the filter face. Install the new filter, provided in the preventative maintenance kit, and secure with the zip ties that are also provided. The inlet side of the filter should connect to the tubing coming from the lower product tank. The outlet side of the filter should connect to the tubing coming from the upper product tank.



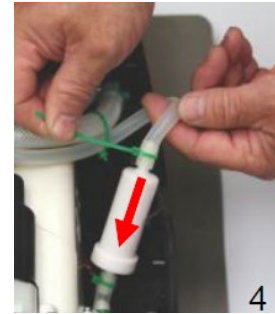
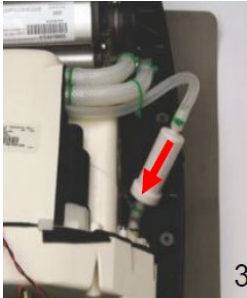


6. Eclipse® units manufactured from 2011 to present will have a HEPA filter that is installed inside the product tank. You can access this filter by unscrewing the outlet barb. The HEPA filter is attached to the barb and should lift out once the barb is removed. Unscrew the HEPA filter from the bottom side of the barb and replace it with the new one provided in the preventative maintenance kit. Make sure to also replace the O-rings on the HEPA filter and the barb with the new ones provided in the kit.



7. Remove the old compressor inlet filter and replace it with the new one provided in the preventative maintenance kit. Secure the filter with the zip ties provided in the kit. Be sure to pay attention to the direction of flow on the filter. The arrow on the filter should point down towards the bottom of the unit.





8. Reinstall the electrical connector while paying close attention to its orientation. The “7.2A Max” should always be towards the bottom of the unit. Proper orientation is shown in the picture below. Ensure that the O-ring is properly installed on the connector prior to placing it the case.



9. Before closing the unit we recommend cleaning the inside with a small vacuum or brush and operating the unit for 10 minutes. During this time you can verify there are no leaks, no kinked tubing, and no alarms.
10. Reassemble the case by installing the front cover, flipping the unit over, and securing the ten #1 Phillips screws. When installing the cover be sure not to kink the oxygen delivery tubing. Ensure that the gasket between the two case halves is installed correctly.



11. Replace the air inlet filter on the back of the unit with a new one provided in the preventative maintenance kit.



12. Clean the exterior of the unit with a damp cloth. It's recommended to use a mild solution of detergent and water when doing this. Do not expose the Eclipse to excess water. It may damage the unit.



13. Operate the Eclipse® for at least 10 minutes on continuous flow while monitoring the unit for alarms. Finish testing and certifying the unit for "Return to Service" based on your normal operating practices.



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Need more information about CAIRE's oxygen therapy portfolio of solutions, please visit:

www.cairemedical.com/provider

If you are in search of product information, manuals, cutsheet, or service bulletins, you can select the Knowledge Center tab above, or follow the direct link below:

<http://www.chartindustries.com/Respiratory-Healthcare/Respiratory-Healthcare-Knowledge-Center/Respiratory-Healthcare-Literature>