

April 2016 Med Tips

Helpful Hints and FAQs

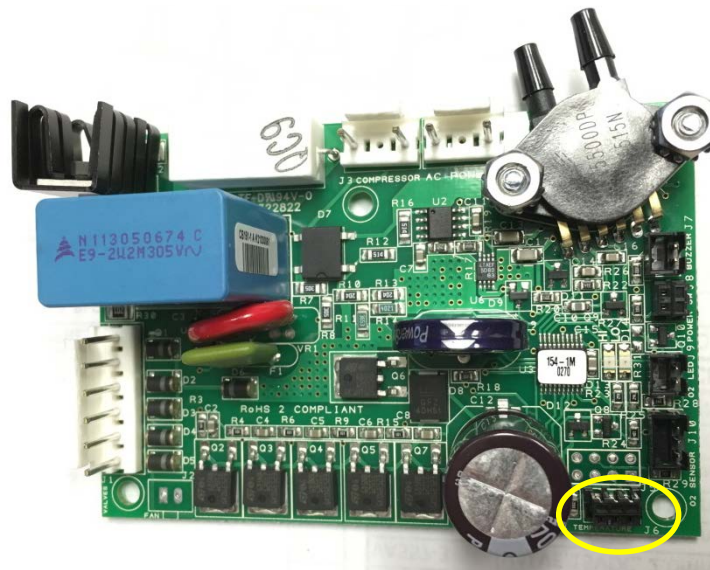
Replacing AirSep® VisionAire™ Circuit Boards:

When changing circuit boards in AirSep® VisionAire™ units verify the PN of the original board. This information can be found on the label which is applied to the circuit board. It is always recommended to replace circuit boards with the same model to avoid any issues.

Please note AirSep® VisionAire™ 5 model concentrators have been manufactured with the following circuit boards: CB102-1, CB151-1, CB078-1 (115V only) and CB078-2 (230V only).

CB102 boards should not be used in VA units manufactured with CB078 boards. If this were to occur, the unit will shut down due to high temp alarm. If the faulty circuit board originally had a temperature probe connection, the circuit board needed for replacement would be CB102-1 or CB151-1 as they are interchangeable.

See below for pictures of the boards for visual comparison.



CB102-1 or CB151-1 (all voltages)
Manufactured w/Temperature Probe connection



CB078-1 (115V) CB078-2 (230V)
Manufactured without temperature probe

The main circuit board of the AirSep® VisionAire™ was redesigned. This new design eliminated the temperature probe; there is still a thermal cutoff switch installed in the compressor to shut down unit in the event of elevated temperatures.

What are the preventive maintenance requirements for AirSep® NewLife® Intensity/Elite units?

These units are manufactured with either one or two filters or a 9-volt battery that require scheduled maintenance and replacement.

Air Intake Gross Particle Filter/GPF

The external air intake gross particle filter is located on the back of the unit. You can easily remove it by hand. Instruct the patient to clean this filter weekly.



Replacement Air Intake Filter PN: FI002-1

Felt Filter Replacement:

(Note: Optional part included in AirSep® NewLife® Elite units)

The internal felt filter requires changing every 5,000 hours of use.

See below on instructions for changing the filter:

1. Set the unit's I/O power switch to the "0" position and disconnect the power cord.
2. Remove right side panel to locate the felt intake filter.
3. Remove filter in the unit and replace with a new filter.



AirSep® NewLife® Intensity 10L



AirSep® NewLife® Elite (if equipped)

4. Remove left side panel and record information about the filter replacement on the History Record Label.
5. Reconnect both side panels.



AirSep® NewLife® Intensity 8L and NewLife® Intensity 10L Felt Filter Replacement:

Part Number: MI161-2

AirSep® NewLife® Elite units Felt Filter Replacement:

Part Number: MI161-1

Product Filter

The product filter is designed to last for the life of the unit.



Part Number: TA132-1S



Part Number: FI001-1

Whether inside the product tank or an external component to this tank, there is no required or scheduled replacement needed for this part.

Battery Replacement

Each time the AirSep® NewLife® Intensity 10 unit is turned on, the alarm must sound for approximately five seconds to indicate a good battery. An alarm that does anything other than sound for five seconds indicates a weak battery and requires battery replacement.

To replace the battery, take the following steps:

1. Set the unit's I/O power switch to the "0" position, and disconnect the power cord.
2. Remove the left side panel.



Part Number: BT002-1

3. Lift the battery out of the battery holder.
4. Install the new battery, maintaining proper polarity.
5. Set the I/O power switch to the "1" position to test the alarm.
6. Record the battery replacement information on the History Record Label.
7. Reconnect the side panel.

Accessories and Parts

Replacement Power Supply for AirSep® Freestyle™ 3:

Universal Power Supply for AirSep® FreeStyle™ 3

A complete kit which includes everything needed to operate and recharge the AirSep® FreeStyle™ 3 on either AC or DC power. Includes items CD034-1 and CD023-2.



Part Number PW022-1 (US)

Universal Power Supply (Brick Only) For AirSep® FreeStyle™:
Does not include any cords or cables.



Part Number PW025-1

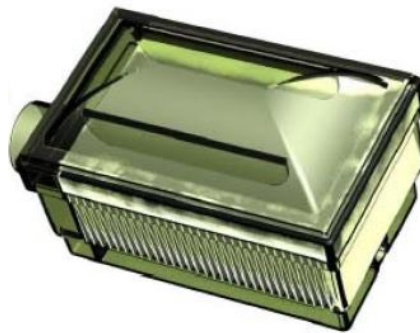
Integra/Regalia Replacement Filters

Preventive Maintenance Kit, Part Number 4542-SEQ

Kit includes the following:



Cabinet Inlet Filter (Part Number: SP2185-SEQ)



Compressor Inlet Filter (Part Number: 4405-SEQ)



Replacement Velcro Strap (Part Number B-776202-00)

NOTE: Part Number 4405-SEQ replaces the filter shown in picture above

HEPA Filter (Part Number 2033-SEQ)

Replacement 9V battery (Part Number: 8098-SEQ)

Replacement Zip Tie (Part Number: 6968-SEQ)



AirSep® Test Pressure Gauge

Gauge used to test the outlet and operating pressures of all AirSep® stationary concentrators. Compatible with the tubing and fittings listed in this section.



Part Number: KI036-1

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 **April 2011** and **April 2006** are due for inspections. The manufacture date of your equipment can be identified on the vessels data plate.

Chart's 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.

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France +33 (0) 561 429 411

Germany +49 (0) 202 739 55420

Italy +39 049 879 9601

Email: customerservice.europe@chartindustries.com

New IATA 2016 Lithium Battery Cargo Requirements Effective 1 April 2016

Changes to the Provisions for Lithium Batteries Effective 1 April 2016

1. UN 3480, PI 965, Section IA and IB. Lithium ion cells and batteries must be offered for transport at a state of charge (SoC) not to exceed 30% of their rated design capacity. Cells and/or batteries at a SoC of greater than 30% of their rated capacity may only be shipped with the approval of the State of Origin and the State of the Operator under the written conditions established by those authorities.

Note:

Guidance and methodology for determining the rated capacity can be found in the UN Manual of Tests and Criteria, 5th Revised Edition, Amend. 1 and Amend. 2, Section 38.3.2.3.

2. UN 3480, PI 965, Section II. Lithium ion cells and batteries must be offered for transport at a state of charge (SoC) not to exceed 30% of their rated design capacity.

A shipper is not permitted to present for transport more than one (1) package prepared according to Section II in any single consignment.

Not more than one (1) package prepared in accordance with Section II of PI 965 may be placed into an overpack. When the package is placed in an overpack, the lithium battery handling label required by this packing instruction must either be clearly visible or the label must be affixed on the outside of the overpack and the overpack must be marked with the word "Overpack".

3. UN 3090, PI 968, Section II. A shipper is not permitted to present for transport more than one (1) package prepared according to Section II in any single consignment.

Not more than one (1) package prepared in accordance with Section II of PI 968 may be placed into an overpack. When the package is placed in an overpack, the lithium battery handling label required by this packing instruction must either be clearly visible or the label must be affixed on the outside of the overpack and the overpack must be marked with the word "Overpack".

4. Packages prepared according to Section II of PI 965 and PI 968 must be offered to the operator separately from other cargo and must not be loaded into a unit load device (ULD) before being offered to the operator.

The changes identified above will be detailed in an addendum to the 57th edition of the IATA Dangerous Goods Regulations and to the 3rd edition of the IATA Lithium Battery Shipping Guidelines. It is anticipated that these addenda will be issued in by mid-January.

The full report of DGP/25, when available, along with the working papers of DGP/25, is available on the on the ICAO Website here:

<http://www.icao.int/safety/DangerousGoods/Pages/DGP25.aspx>

You can contact the IATA Dangerous Goods Support team if you have questions or concerns that may not have been addressed in this document at: dangood@iata.org.

www.iata.org/lithiumbatteries

Product Information

AirSep® Focus™

Portable Oxygen Concentrator with UltraSense™ Easy-to-Use, Lightest-Weight Portable Oxygen Concentrator (POC)



With the AirSep® Focus™ oxygen patients can be more mobile without having to carry burdensome extra system weight. The pulse flow setting of 2 gives oxygen patients the ability to ambulate like never before. The AirSep® Focus™ is equipped with UltraSense™ technology, which provides a more sensitive pulse-dose delivery than competitor devices, even those that include a “sleep mode” setting. The advanced intelligence built into the microprocessor of the AirSep® Focus™ ensures fast, reliable pulse-dose delivery in the first phase of inhalation, when the highest levels of gas exchange are occurring in the lungs. This gives providers and patients alike the peace-of-mind that with UltraSense™, patients are reliably receiving the oxygen they need, when they need it most. Also, unlike any other POC on the market, UltraSense™ technology delivers a reliable pulse dose even when operated with up to 25 ft (7.62 m) of tubing, allowing patients to go the distance with AirSep® Focus™. The FAA-approved AirSep® Focus™ makes its own oxygen on demand and provides an easy solution when searching for an oxygen device that a patient can carry and even makes them feel good about carrying it.

Features

- World's lightest POC – 1.75 lb (0.8 kg)
- Unique UltraSense™ technology
- Most wearable POC
- FAA-approved for on-board, in-flight use
- Operate on rechargeable battery or AC/DC power supply
- Optional AirBelt or External Battery Cartridge available for advanced battery durations

Don't Miss Out on our Upcoming Service Schools and 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 guarantee 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
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- Day 1 covers these topics for AirSep® Portable and Stationary units. Product overview is offered for the AirSep® Focus™, AirSep® FreeStyle™, AirSep® FreeStyle™ 5, AirSep® NewLife®, and AirSep® VisionAire™.
 - Day 2 covers these topics for the AirSep® NewLife®, AirSep® VisionAire™ and SeQual® Eclipse™.
 - Day 3 covers these topics for the SeQual® Eclipse™ and plant tour.

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
- Day 1 covers these topics for liquid oxygen reservoirs.
 - Day 2 covers these topics for liquid oxygen portables.

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

September 14-15, 2016 and 28-29, 2016

LOX Training: September 14-15 in Wuppertal, Germany

LOX Training: September 28-29 in Padova, Italy

To register for Service School, please email:

techservice.usa@chartindustries.com for USA Training

jim.gibson@chartindustries.com for European Training

2016 Trade Shows

Shows	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