Med Tips

November 2010

MedTrade 2010

If you will be in the Atlanta area during November 16th - 18th, please do not forget to stop by our booth at Medtrade located in the World Georgia Congress Center Booth #**1624**. CAIRE is also a proud sponsor of the NextGen House, Booth #2865, stop in to see our prouducts in use in a fully functioning house.

Feel free to use the link below to print out a free expo pass. Use Pass Code **CAIRE10**

We look foward to see you!

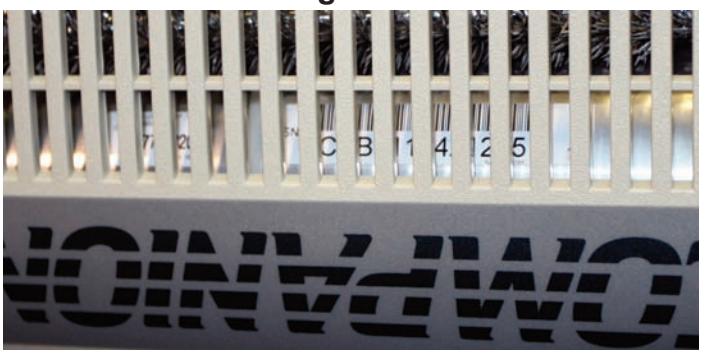
https://www.xpressreg.net/register/medt110/start.asp?sc=CAIRE10

NEW SERIAL NUMBER LOCATION FOR COMPANION PORTABLES

The location of the serial number for new Companion 1000 & Companion 1000T units is changing. It will now be located on a decal placed on the side of the tank as shown in Figure 1 below, with the upper edge aligned with the heat exchanger coil and the leading edge in alignment with the bottom circ weld seam. The serial number will remain visible through the slotted vents on the side of the casing as shown in Figure 2.

Figure 1

Figure 2



NEW PRODUCT ID FOR HELiOS & COMPANION UNITS

Throughout the coming year, you will notice the blue product ID label used on HELiOS and Companion product lines being replaced by a black, metallic data plate fixed to the side of the unit via tack welds. This data plate will include all pertinent information applicable to the specific unit to which it is attached.

VERIFICATION OF LOX SATURATION PRESSURE

The term saturation pressure, as it applies to CAIRE liquid oxygen systems, can be defined simply as the pressure at which the liquid oxygen (LOX) begins to evaporate, or boil, inside the unit. To ensure the correct operation of any CAIRE liquid oxygen system, it is imperative that the LOX inside the reservoir be saturated at the correct pressure. Below is a step-by-step procedure to verify that the saturation pressure of the liquid oxygen contained in the vessel is adequate for normal system operation. This procedure is universally applicable to all CAIRE Reservoirs.

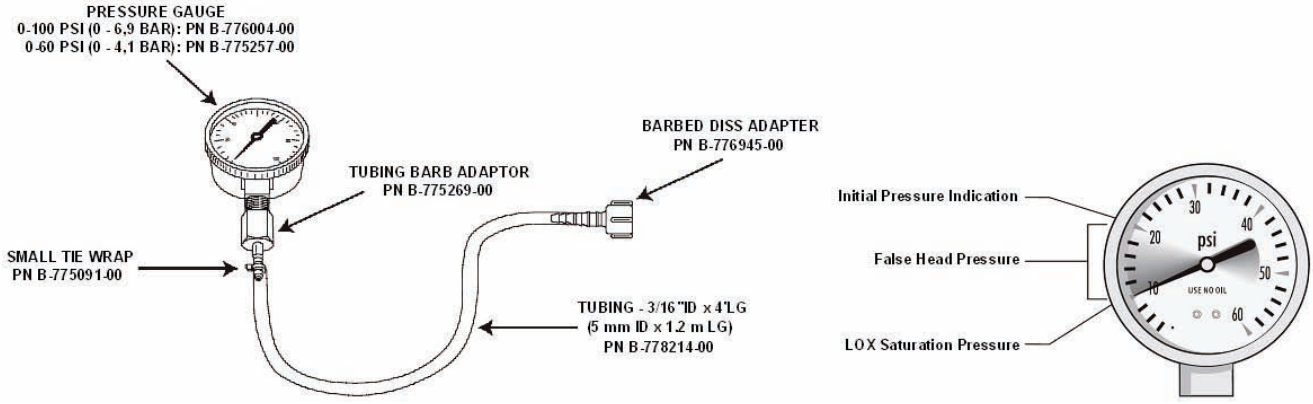
PROCEDURE

1. For Liberator and Companion Reservoirs without a built in pressure gauge, connect an external pressure gauge to the Flow Control Valve (FCV) outlet, and open the FCV to a setting of 2 lpm or higher. For HELiOS Reservoirs without a built in gauge, attach a pressure gauge equipped with a DISS adapter, as shown below, to the DISS connector on the side of the unit.
2. Note the initial pressure reading.
3. S-L-O-W-L-Y open the Vent Valve and observe the pressure gauge needle as it drops.
4. Note the pressure at which the needle begins to hover and seemingly "bounce" between two pressure readings, as indicated in the figure below.
5. Note the lower of the two pressures between which the needle oscillates. This is the saturation pressure of the liquid oxygen contained in the vessel. The acceptable saturation pressures for each CAIRE Reservoir are listed in the table below. The values shown are minimums. Saturation pressures up to the Primary Relief Valve setting can be expected, and do not indicate a problem with the unit.

Note: On a full reservoir, it may take as little as 5-10 seconds for the head pressure to bleed down and the needle oscillation to become apparent; a nearly empty reservoir will require significantly more time.

Minimum Saturation Pressures for CAIRE Reservoirs

Reservoir	Saturation Pressure
Liberator	20 PSI (1,38 BAR)
Companion	20 PSI (1,38 BAR)
HELiOS Universal	22 PSI (1,52 BAR)
HELiOS Standard	27 PSI (1,86 BAR)



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