

Title: Companion 1000 / T	Date: February 2008
By: Puritan Bennett division of Covidian	DISCLAIMER: THIS PROCEDURE PROVIDED "AS IS" AND WITH POSSIBLE FAULTS. USER MUST VERIFY BEFORE USE. NEITHER PROVIDER NOR WEBSITE ASSUMES ANY RESPONSIBILITY FOR ITS USE.
File = Companion-T.doc	

1. General

Applies to Puritan Bennett Companion, models T and 1000. See Appendix for differences.

2. Reference Documents

Companion 1000 / Companion T Technical Manual (English)
P/N: B-701964-00 -or-
<http://rcsoxygen.com/Pub%20Docs/puritan1.pdf>

3. Tools / Fixtures

Oxygen Source Tank (The picture shows the Companion Stationary Unit – which is charged only with gaseous Oxygen for this testing.)
RT-200 Flow/Pressure Analyzer

Setup for the RT200:

- a) At E ____, enter 37, <Enter> (sets 20LPM oxygen flow)
- b) At 00000, enter 0 0, <Enter> which brings up STP settings; hit "0" sequentially to rotate thru choices.
- c) At StP, hit F2 (brings up P760 -- 760 is sea-level atmospheric pressure)
- d) Hit 6, 2, 0 <Enter> 620 mmHg is ATM at 5280 feet.
- e) Hit the zero-the- meter button.
- f) Assuming use of 100% O2, hit <F1>, enter C100, <Enter>.



4. Basic PM Procedure

4.1. Physical Inspection.

Replace strap and either or both case halves if necessary.
Note: Be sure to include/order labels if required.



4.2. Safety / Overpressure Valve Check. Connect unit to 22-25 lbs of compressed oxygen (or air). See photo for typical charging stand. As the unit's internal pressure approaches 20-22 lbs, this relief valve will be audible. Some other valve designs will actually allow pressure to overshoot to the charging pressure, but in about 10 – 20 seconds will bleed down to the 20 –22 lbs target.

4.3. Leak Check (Short Version) -- Connect unit to 22-25 lbs of compressed oxygen (or air). See photo for typical charging stand. With flow control = 0, connect output of unit to the pressure gage (0 - 20lb) input on the analyzer. Turn output to 0.5 (lowest selection). The pressure should not drop by more than 0.1 lb per minute.



4.4. Leak Check (Long Version). Charge unit to 20-22 lbs. After four hours, the pressure should still be above 10 lbs *. If fail, use the “bubble fluid” for a leak check of fittings. Caution: If opening the tube/fitting to the flow selector, be careful not to lose the very small screen.

* *This value the result of filling with gaseous, not liquid oxygen.*

4.5. Flow Check

Note: Easier to check all flows before reassembling, not after. At higher flows (> 5 LPM) it is usually necessary to place the D.U.T charging on the large oxygen source tank in order to maintain enough pressure to get acceptable flow readings on the RT200.

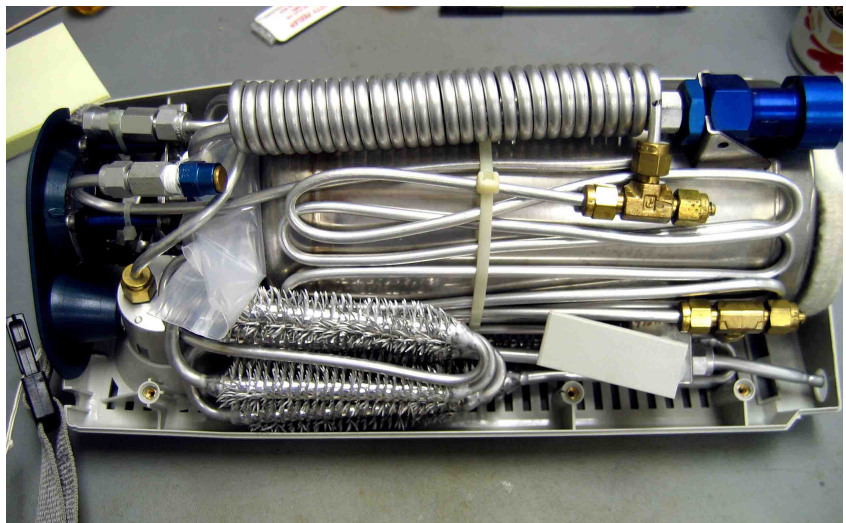
Connect unit to the flow input of the analyzer. Slowly and sequentially select flows starting at 0.5 LPM. The corresponding flow reading limits are in the PB tech manual.

4.6. Complete the work order form.

5. Extended PM/Repair Procedure

5.1. Be sure to include rubber feet and warning labels if a new case(s) is installed. Use a “transparent protector” over the inspection sticker. Normal PM schedule for this device is one year.

5.2. Internal Leak Troubleshooting. Spray a light soapy liquid onto all pneumatic fittings to check for bubbles and therefore leak identification.



APPENDIX

The Companion 1000 provides continuous oxygen flow at any one of 11 preset flow rates up to 6 L/min. The Companion T provides continuous oxygen flow at any one of 11 preset flow rates up to 15 L/min.