



# Service and Maintenance Log for All DeVilbiss Oxygen Concentrators

Catalog Number \_\_\_\_\_

Serial Number \_\_\_\_\_

### Initial Inspection

1. Upon receiving, examine the unit for external damage.
2. Check to be sure the intake filter and the air filter are in place.
3. Plug the unit into an electrical outlet, turn the unit 'On,' and check the audible/visual alarms.
4. Set the flow meter at the maximum recommended flow rate and allow the unit to run for 20 minutes.
5. Using an oxygen analyzer, check the concentration.

### Between-Patient Maintenance

- A. Discard oxygen tubing, cannula, & humidifier bottle.
- B. Wash or replace the cabinet air filter.
- C. Wash the concentrator cabinet
- D. Check oxygen concentration. If the unit falls within specification, the intake bacteria filter does not need to be replaced between patients.

### Patient/Caregiver Maintenance

- A. Oxygen tubing, cannula, and humidifier bottle - clean daily.
- B. Cabinet air filter - clean weekly

### Preventative Maintenance Schedule\*

- A. Change intake filter as follows:
  - If using extended life intake filter, change once a year or within 8760 hours usage with:

515 model	Beginning S/N	Part number
515DS	H60178DS	515DZ-605
515DZ	H44814DZ	515DZ-605
515KS	H44079KS	515DS-605
515KZ	H12860KZ	515DS-605
515UK	H29083US	515DS-605

For prior 515 model units & all other concentrators (except PV5LD series), use filter part number MC44D-605. For PV5LD series, use filter part number PV5LD-605.

- If using intake bacteria filter (p/n 444-504), change every six months, **AND**
  - Change round felt pre-filter (p/n 444-503) once a month - **OR** -
  - Change rectangular felt pre-filter (p/n MC44D-722) every 3 months.

### Preventative Maintenance Schedule (continued)\*

- B. Check oxygen concentration with an oxygen analyzer (p/n O2ANA) - every 3 months on non-OSD units or every two years on OSD® units.
- C. Check audible alarm and indicator lights - every two years.
- D. Check system (see concentrator specs for unit type)
  - 1) For pressure cycle units—check cycle times every two years.
  - 2) For time cycle units—check accumulator pressure or sieve bed pressures every two years.

Note the following display conditions when a Smart Track® system is used in conjunction with the 515 series concentrators:

515DS / 515KS	CT1	9.4 seconds ± 0.1 seconds
	CT2	11.8 seconds ± 0.1 seconds
515UK	CT1	9.8 seconds ± 0.1 seconds
	CT2	12.2 seconds ± 0.1 seconds

(CT1 = Cycle Time Bed 1 / CT2 = Cycle Time Bed 2)

- These values are fixed in the concentrator software and represent the on and off times for each of the valve solenoids during a complete cycle.
  - In addition, the status conditions will not be indicated on the display. The status will always be indicated as "Unit Status: Operating Normal".
- E. Change final bacteria filter - every two years or 10,000 hours.
  - F. Change compressor HEPA filter - every five years or 25,000 hours.

#### **\*NOTE**—This PM Schedule reflects:

- 5000 hour usage equal to one year
- a normal, clean operating environment.

The homecare provider is responsible for:

- determining the condition of the concentrator operating environment
- determining a preventative maintenance interval frequency (not to exceed the schedule stated above) which takes into consideration the specific operating environment.

**For service and maintenance log chart, see other side.**

**For a service manual or technical assistance, call:**

USA/Puerto Rico (800) 333-4000    Canada (905) 660-2459    International (814) 443-4881

