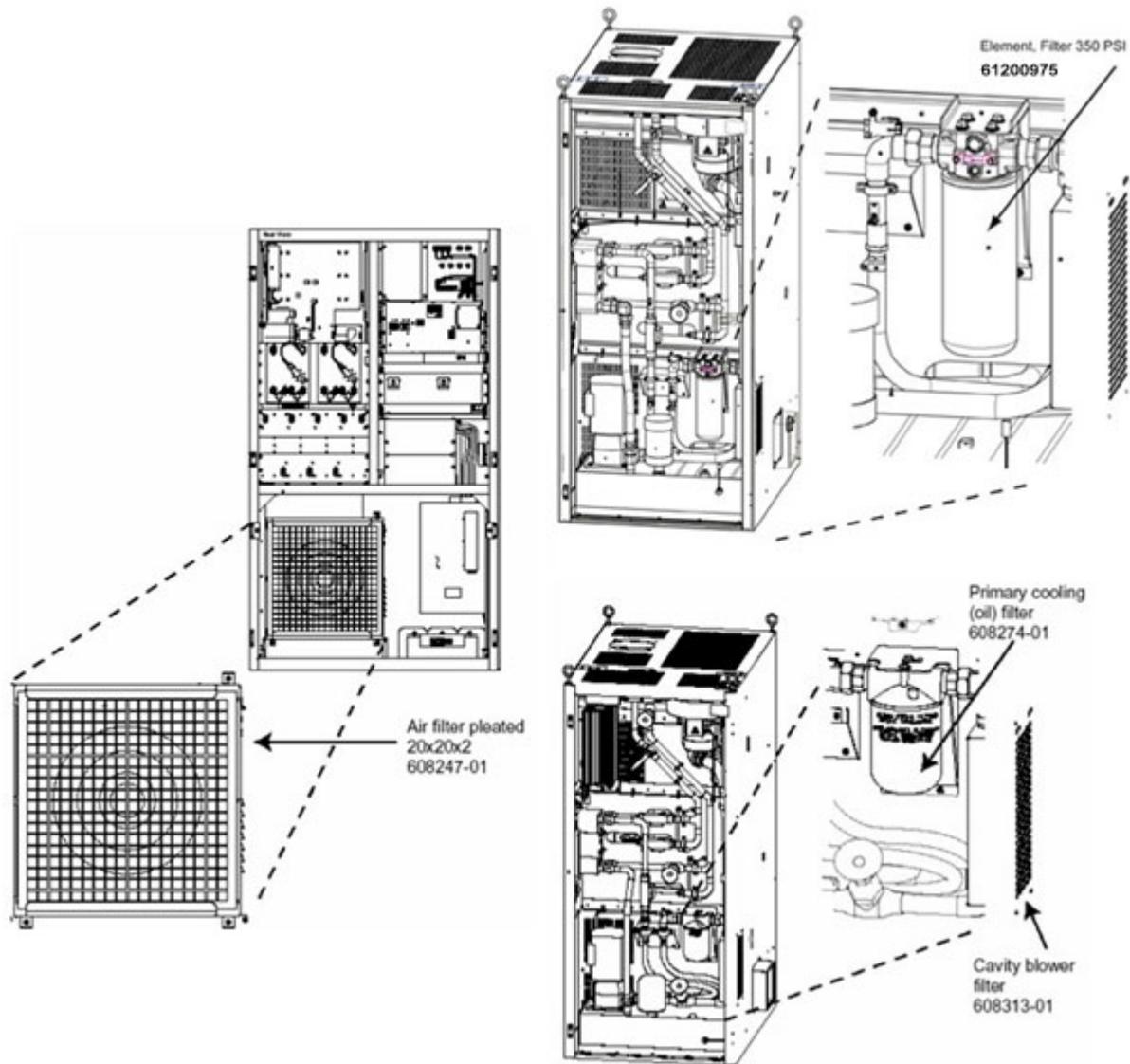


Technical Service Bulletin 040122

Cooling System Maintenance, Oil Filter Change, and Air Filter Changes: DCX Paragon



This service bulletin contains two procedures addressing periodic maintenance of the cooling system in the DCX Paragon HPA cabinet. More specifically, procedures are provided for the periodic replacement of the air filter elements and the primary cooling loop oil filter, for those HPA cabinets with an oil-cooled IOT. The assemblies discussed in this bulletin are identified in the illustration above.

Procedure 040122a: Oil Filter Change: DCX Paragon	
Applicability	DCX Paragon transmitters with oil cooled tubes.
Prerequisites	None.
Equipment Required	Filter Replacement Element (608274-01 or 61200975), Oil filter wrench.
Comments	Oil filters should be changed only if oil flow rate drops significantly. It is normal for the cooling system oil filter to last an extremely long time.

1. Place amplifier cabinet in **STOP** mode, let high voltage drop off, and place ground switch in ground position using key interlock system.
2. Open rear door of HPA cabinet and locate oil filter (608274-01 or 61200975).



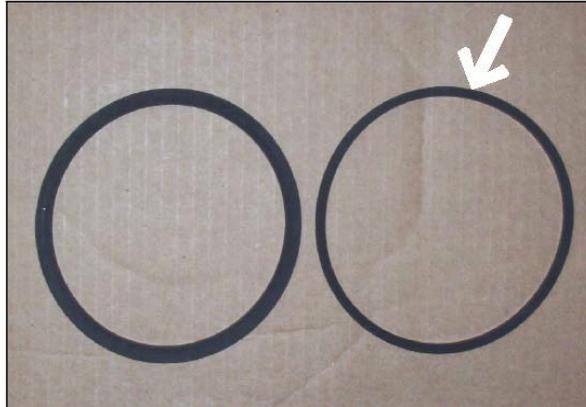
608274-01



61200975

4. Remove old filter by unscrewing in a counterclockwise direction. Be careful not to spill remaining oil in filter.
5. Carefully remove old filter gasket, if it did not come off with filter.
6. Remove any pieces of old gasket that remain, and clean groove (where old gasket was) with a clean towel.

NOTE: Two gaskets come with the 608274-01 oil filter kit: a narrower gasket with a red stripe and a wider gasket with blue and green stripes. The correct gasket is the narrower one with the red stripe. See photo below (white arrow indicates proper gasket). The 609491-01 filter has an attached gasket.



7. Moisten new gasket with oil and carefully install it in groove where old gasket was previously located.



8. Install new filter by turning it clockwise onto fitting. Be careful to not cross-thread the filter.
9. Tighten filter per directions printed on filter case, ensuring that gasket does become unseated during tightening process.
10. Procedure complete.

NOTE: Installation directions on the filter are as follows: "Screw in filter element by hand until it contacts the sealing surface. Then tighten by hand another 3/4 of a revolution. Check tightness. If necessary, fasten a little bit more. **WARNING:** Use tools only for unscrewing the filter element."

Procedure 040122b: Air Filter Changes: DCX Paragon	
Applicability	DCX Paragon transmitters.
Prerequisites	None.
Equipment Required	Replacement cabinet air filter (608247-01) Replacement cavity air filter (608313-01)
Comments	DCX Paragon transmitters have two air filters: the “cavity” and “cabinet” air filters. The <i>cavity</i> filter is smaller and located on the side of the HPA cabinet towards the rear. The <i>cabinet</i> filter is larger and located in the rear of the tube cabinet. These filters should be changed whenever a visual inspection reveals them to be significantly obstructed by dirt and debris. The service interval of either filter is largely dependent on the environmental conditions at the transmitter site.

1. Place amplifier cabinet in **STOP** mode, let high voltage drop off, and place ground switch in ground position using key interlock system.
2. **Cavity filter only.** Open rear door of HPA cabinet and locate cavity air filter. See illustration on cover page for filter location.
3. **Cabinet filter only.** To access cabinet filter, remove access panel on rear of tube cabinet by turning two screws counterclockwise ¼ turn and lifting retaining panel. See illustration on cover page for filter location.
4. Make note of flow direction and remove filter. (Cabinet filter slides out sideways; cavity filter is held in its housing by two nuts and two tabs.)
5. Replace filter, ensuring that flow direction is correct. (Cabinet filter slides in sideways; cavity filter must be placed in housing and re-attached to cabinet wall.)
6. Procedure complete.

At Comark, we are constantly striving to improve the satisfaction of both our new and existing customers. Please do not hesitate to contact Comark Customer Service with any questions you may have concerning the contents of this service bulletin.

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