



Supplier of Specialized HVAC & Refrigeration Products and Service

Instructions on Performing Oil and Filter Changes

ON FUSHENG SR * SCREW COMPRESSORS

- 1. Lock out compressor.**
- 2. Isolate compressor using Mammoth provided ball valves.**
- 3. Recover refrigerant from compressor while keeping sump oil heater energized.**
- 4. Drain oil from sump from oil drain valve if accessible. In most cases it is not accessible and it will require you to slowly back off oil filter plate. You will need to fabricate a low profile drain pan or use another type of pan to slide under the oil filter plate.**
- 5. Disconnect power from sump oil heater and remove if necessary to perform work.**
- 6. Measure amount of oil removed as this will be the amount of new oil added back into the compressor.**
- 7. Remove the oil filter plate and carefully examine it. Make note if it is a female plate with a male filter or**

visa versa. The female style plate will not accommodate the new female filter and therefore will need to be upgraded to the new male filter plate. It is best to order the new oil filter plate to have on hand just in case. The older compressors prior to 2000 have the greatest chance of having an old style plate.

8. Remove the magnet(s) that sit at the bottom of the sump and clean thoroughly.
9. Using a lint free rag (very important) and a piece of 3/8 threaded rod to swab out the muddy oil in the bottom of the sump.
10. Continue the cleaning process using solvent until oil sump is clean.
11. Place removed sump magnets back into compressor sump.
12. At this time consider adding any access or drain valves to the compressor that may help in future oil maintenance and or compressor service. Review the 3 options for oil access pictures on the FuSheng Compressor Service Page.
13. Clean all gasket surfaces and replace internal o-ring or gasket.
14. Solvent wash plate clean and screw on oil filter to plate.
15. Install external gasket using a coating of oil.
16. Install plate and tighten bolts.
17. Pressurize compressor and leak check all work.

18. Reinstall removed sump oil heater and re-energize.
19. Pump new oil into the compressor replacing the amount that was removed. **MAKE SURE THE CORRECT OIL TYPE IS USED FOR THE REFRIGERANT IN YOUR SYSTEM** .Use the Fusheng SR Compressor Instruction Manual to determine what lubricant used in the system.(Down loadable from the AVA HVAC Products website)The only approved lubricants are the ones listed in the manual **DO NOT ATTEMPT TO USE OTHER MANUFACTURES OIL!!** Some oils like the R-22 system oil (POE) should be preheated before pumping to help ease in the transfer.(Always follow the oil preservation procedure for POE oil located on the AVA HVAC Products site) We find a dedicated hand pump unit is best used to control the pressure and the amount entering the compressor. A gear pump can be used with care. In both delivery methods it is mandatory to use an oil strainer if the refill method utilizes the clean point of refill (after the oil filter).
20. Triple evacuate compressor then re-introduce recovered refrigerant using an in line liquid line filter drier.
21. Re-open the compressor ball valves and place compressor back into service.

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