

Installing a Piston Replacement Compressor

For more information on gpd Piston Replacement Compressors for High Failure Rate Scroll Applications refer to gpd Tech Tip # 36. For more information on gpd Piston Replacement Compressors for High Failure Rate Rotary Vane Applications, refer to gpd Tech Tip #8.

Before replacing the compressor, it is important to find out why the old compressor failed. There are two main reasons why the A/C system typically fails:

1. A refrigerant leak and/or low air flow usually due to a faulty cooling fan.
2. System is not charged correctly by manufacturer's specifications. If the A/C system is low on refrigerant, find the leak and replace leaking parts. Check the cooling fans. Make sure they are working correctly and that there is adequate airflow across the condenser.

Before replacing the compressor, prepare all the tools and products to "Do the Job Right the First Time":

- Compressor
- Condenser (It is necessary to replace parallel flow condensers because they cannot be flushed. Failure to replace the condenser at time of replacing compressor will lead to repeat compressor failure due).
- Expansion Device
- Rapid Seal O-Ring Kit

****READ INSERT INCLUDED IN COMPRESSOR BOX BEFORE INSTALLATION****

(Compressor Installation Insert • gpdtechtips.com • #10)

The following statements will vary by compressor. Please refer to the insert included with compressor for specific oil levels and other instructions.

- Always refer to OE specifications for refrigerant charge and service protocols.
- All gpd 65 series compressors (part no. begins with 65), including piston replacement compressors are prefilled with the right amount of oil for the system. The oil amount in the piston replacement compressor will vary from the OE scroll design
- Do not flush the AC system.
- Replace the condenser and expansion device. 90% of contaminants will be removed from the system by replacing the condenser. (Remember, parallel flow condensers CANNOT be flushed). Remove the drier bag in the old condenser to note the amount of contaminants collected.
- After installing a gpd Piston Replacement Compressor, place enclosed sticker under the hood so future technicians are aware the system has been modified with a piston replacement compressor.