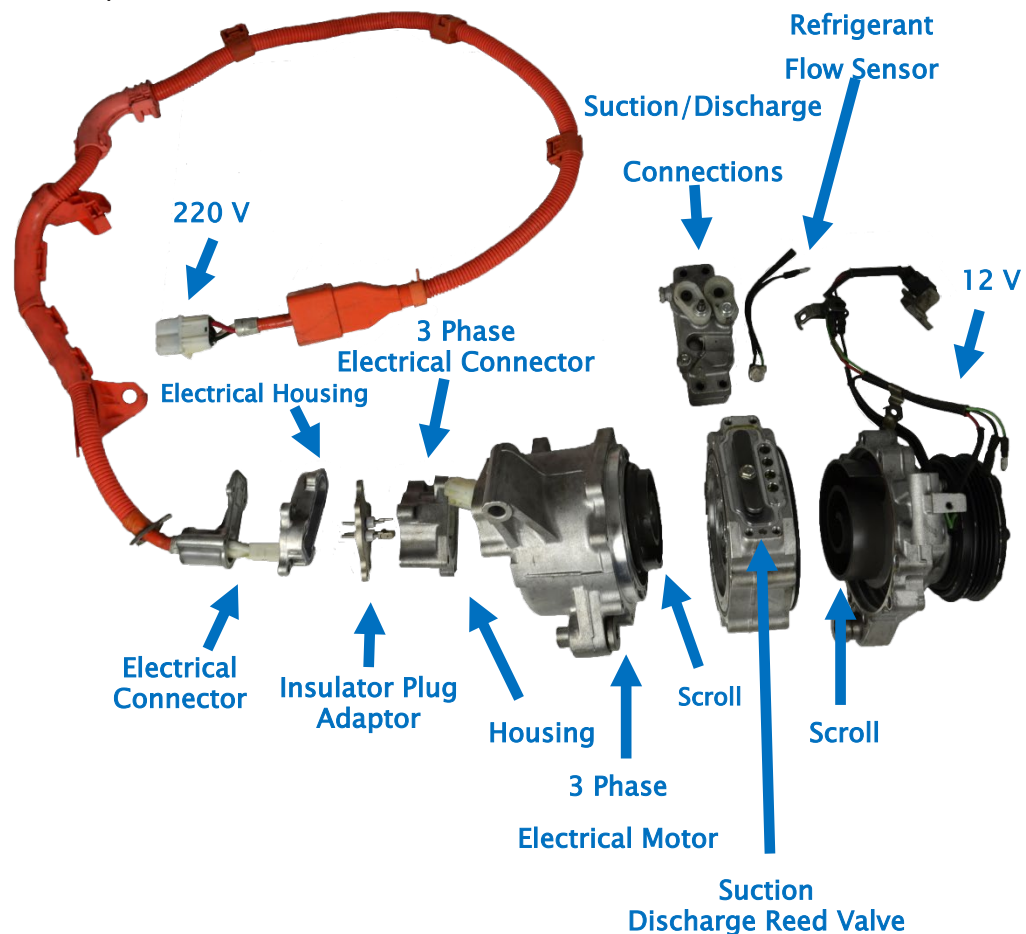


Hybrid Scroll Style Compressors

As hybrid vehicles become more common in the market, manufacturers have had to adapt scroll compressors to work with the hybrid vehicle design. Hybrid scroll compressors are unique because they are made up of two separate compressors, a 220V and 12V. The 12V compressor operates like a typical scroll compressor using a belt driven by a 12V clutch. The 220V compressor runs from the electricity generated from the vehicle and operates the scroll through a 3-phase motor. Refrigerant is introduced and expelled between the two compressors.



CAUTION!

When working on a hybrid compressor or any part of a hybrid vehicle, use the correct safety equipment and follow proper procedures. Hybrid compressors require a specific oil with high dielectric properties. Using pag oil may cause failures in the hybrid compressor (refer to gpd Tech Tip #90 and #132). Caution must also be used with leak detection to ensure it is compatible with the system.

Manufacturer names, logos and part numbers are for reference only. All prices, taxes and availability are subject to change without notice. This document and any files transmitted with it are confidential and intended solely for the use of the individual or entity to which they are addressed. If you have received this document in error, please delete it immediately. Note that any views or opinions presented in this document are solely those of the author. Any unauthorized review, use, disclosure, or distribution is prohibited. Global Parts Distributors, LLC (gpd) accepts no liability for any damage caused by any virus or other means transmitted by this document. © Global Parts Distributors, LLC (gpd)