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VTech-Talk

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RECOVERY OF HYDROCARBON REFRIGERANTS

What is required and why

The EPA's lifting of the ban on venting hydrocarbon refrigerants has opened the door to full-scale production of R290, R600 and R170-based refrigeration systems in both commercial and domestic refrigeration markets in North America.

Therefore, no recovery of these gases is required. The issue is making the unit safe for repair, understanding that a percentage of the refrigerant charge will be trapped in the compressor oil. To fulfill this need, VTech has introduced the **VRec-HC** exhaust and purging equipment for repair lines. After venting the hydrocarbon gas present in the sealed circuit through the exhaust ducts present in the repair area, VRec-HC performs Nitrogen flushing cycles, removing up to 99% of the total HC charge within ten minutes on average. Once the compressor oil is restored to its inert state, the sealed unit can be repaired and evacuated prior to being recharged with refrigerant.

Traditional recovery systems such as those currently used for R134a and other HFC refrigerants are unable to perform these oil purging and deep evacuation functions and cannot be safely used with hydrocarbon refrigerants.

Contact Us

To receive product literature on the VRec-HC please contact Gordon Purkis at (404) 432-1629 or g.purkis@vtechonline.com

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About VTech

VTech combines over 50 years of experience in equipment design and process engineering of HVAC&R assembly lines. Our equipment range includes Leak Detection, Refrigerant Charging and Recovery, Pre-Evacuation, and Electrical Safety/Performance Test. Our Process Software provides an integrated solution for data management and process control. Please visit our website at www.vtechonline.com to browse our catalog and of course, feel free to contact us with any questions.

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