

Recovery Facts

The New High Pressure Gas R410A

There is a lot of concern about the new R410A gas entering the market today. The whole scope of recovery has changed due to the big difference in pressures and characteristics of this new refrigerant. We hope to clear up some of the questions with the following information.

R410A, What you should know:

- R410A is an HFC azeotropic mixture of HFC-32 and HFC-125. It is designed to replace R-22 in new air conditioning and refrigeration applications.
- As a rule of thumb R410A has about 1.6 to 1.8 times the pressure of R-22.
- R410A is more dense and carries a higher caloric heat load.
- R410A is more environmentally friendly but it is still deadly in confined spaces.
- R410A requires special POE moisture absorbing oil. The moisture can only be fully removed from a system by changing the oil in the compressor.
- You must use a leak detector specifically designed to detect R410A.
- R410A is more expensive than R-22 so you will want to recover all of it.
- Equipment manufacturers have their own name for it, Carriers Puron etc.

Tools and Accessories needed for R410A:

- A Recovery machine designed for the higher pressures and temperatures of R410A with a 550 psi shut off maximum pressure.
- A Recovery machine with high ambient temperature operation capabilities able to pull the deep vacuum necessary for complete removal of R410A.
- Gauges and hoses made for higher pressures, temperatures and the new demands of the azeotropic gas mixture that makes up R410A.
- Recovery cylinder with minimum 400 psi working pressure 600 psi relief.

The Bacharach Stinger Model 2000, FM 3500HP, 3600-410A and all new model 3700s are R410A ready. Please visit us at <http://www.bacharach-inc.com/refrigeration.htm> for additional product information.

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