

## Refrigerants Explained

by Frank Landwehr | Feb. 23, 2015

 Cost Savings  Environment  Maintenance

There are four different types of refrigerants that homeowners should be aware of when it comes to Air Conditioning and Heat Pump equipment. This tool will give a very brief description of each type of refrigerant, in hopes of giving homeowners a better understanding of each and the role refrigerants play in delivering maximum efficiency and comfort.



- Often referred to by a brand name, such as Freon
- As of 2010, R-22 was discontinued for use in new A/C systems as part of Montreal Protocol
- Contributes to ozone depletion if vented to the atmosphere
- Caution: Chemical companies will no longer be allowed to manufacture R-22 to service existing systems starting 2022



- Often referred to as Puron, Suva 9100, or Genetron AZ-20
- Typically the replacement for R-22 and is approved for use in new systems
- Operating pressure more than 50% greater than R-22, which leads to higher efficiency
- New industry standard for U.S. residential air systems
- Does not contribute to ozone depletion



- Often referred to as Suva 407C or Genetron 407C
- Does not contribute to ozone depletion
- Most closely matches the operating characteristics of R-22



- Widely used in many commercial air conditioning and refrigeration systems globally
- Does not contribute to ozone depletion, also the first non-ozone-depleting fluorocarbon refrigerant to be commercialized
- Featured in many large commercial screw chillers