

# DuPont™ Suva®

## REFRIGERANTS

### Technical Information

## DuPont™ Suva® 410A Frequently Asked Questions (FAQ)

### **Q. Where can I buy R-410A?**

- A.** All DuPont distributors have access to DuPont™ Suva® 410A (formerly Suva® 9100). More than likely you will be servicing equipment with R-410A. We recommend you keep Suva® 410A on hand to ensure you are prepared to handle these service calls when they come in.

### **Q. Do I have to be certified or have a license to install or service equipment containing R-410A?**

- A.** No. R-410A, like R-134a, R-507, and R-404A, is an HFC and does not require EPA certification to purchase or use. While some manufacturers suggest training and certification to purchase their R-410A refrigerant and/or equipment, no certification is required to buy DuPont™ Suva® 410A.

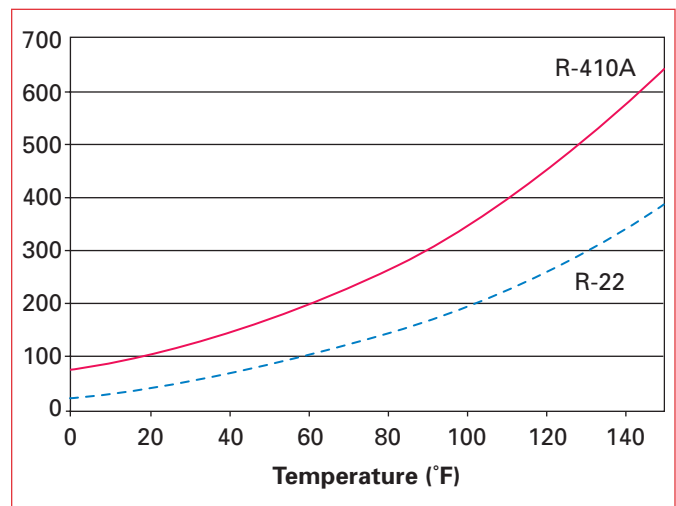
### **Q. What is Puron®?**

- A.** Puron® and Suva® 410A are both marketing brands for ASHRAE R-410A. Puron® is Carrier Corp's brand name and Suva® 410A is the DuPont brand for R-410A. Both have the same chemical composition and can be used interchangeably.

### **Q. Can R-410A be used to retrofit existing R-22 equipment?**

- A.** R-410A can only be used in equipment designed for R-410A. R-410A cannot be used to retrofit existing R-22 A/C equipment due to significantly higher operating pressures as outlined below.

**Saturation Pressure (psig): R-22 vs. R-410A**



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**Q. Do I need different service tools to work on R-410A systems?**

**A.** Yes.

Service equipment:

- high pressure manifold gauge set
- high pressure recovery machine
- high pressure recovery tank (DOT 4BA400 or 4BW400)

**Q. What type lubricant should be used with R-410A?**

**A.** A high quality POE (polyol ester) specified by the compressor or system OEM.

**Q. How will system operation for R-410A be different than R-22?**

**A.** Comparative refrigerant properties provided below are based on refrigeration capacity per lb of refrigerant. Refer to actual equipment design parameters for performance in equipment.

Refrigerant Properties	R-410A vs. R-22
Discharge pressure	+50 to +70%
Cooling capacity	+45%
Discharge temperature	-10°F
Energy efficiency	+5% to -5%
Lubricant	POE

**Q. Will R-410A systems have different components than R-22 systems?**

**A.** Yes. Because of the higher pressure for R-410A, most system components have been designed with increased wall thickness. In addition, expansion valves specifically designed for R-410A capacity should be used.

**Q. Is R-410A a blend refrigerant?**

**A.** Yes. It is a blend of HFC-32 and HFC-125 (50/50 wt%) that performs very much like a single component refrigerant.

**Q. How should I charge R-410A?**

**A.** For optimum performance, R-410A should be removed from the cylinder as a liquid.

**Q. If you have a leak from an R-410A system, does the entire charge have to be replaced, or can the system be topped off?**

**A.** The system can be topped off with more R-410A, without removing the entire charge. Since R-410A acts very much like a single component refrigerant, any change in composition due to a leak is minimal. We do recommend that all leaks be repaired before topping off.

- Repair the leak.
- Add enough R-410A to bring back to normal charge level.
- Remove R-410A from the cylinder as a liquid.

**For Further Information: (800) 235-7882**

[www.refrigerants.dupont.com](http://www.refrigerants.dupont.com)

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