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
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 4BV400)

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.

<table>
<thead>
<tr>
<th>Refrigerant Properties</th>
<th>R-410A vs. R-22</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discharge pressure</td>
<td>+50 to +70%</td>
</tr>
<tr>
<td>Cooling capacity</td>
<td>+45%</td>
</tr>
<tr>
<td>Discharge temperature</td>
<td>–10°F</td>
</tr>
<tr>
<td>Energy efficiency</td>
<td>+5% to –5%</td>
</tr>
<tr>
<td>Lubricant</td>
<td>POE</td>
</tr>
</tbody>
</table>

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.