

DuPont™ Suva®

REFRIGERANTS

Product Information

DuPont™ Suva® 410A

DuPont™ Suva® 410A is a non-ozone-depleting high efficiency HFC refrigerant. Suva® 410A has higher cooling capacity and higher operating pressures than R-22 for new equipment specifically designed for R-410A.

ASHRAE #: R-410A

Applications – *New applications only*

- Residential and commercial air-conditioning
- Heat pumps

Benefits

- Non-ozone depleting HFC
 - Not subject to phase-out under Montreal Protocol
- Non-flammable. ASHRAE safety classification: A1
- Leading HFC refrigerant replacing R-22 in residential and commercial air-conditioning and heat pump applications
- Higher cooling capacity (weight to weight) compared to R-22

Lubricant Recommendation

- POE

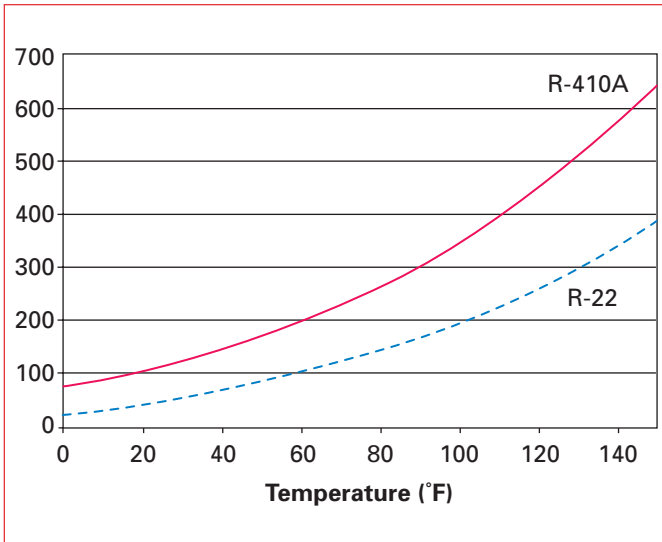
Special Handling

- Suva® 410A cannot be used for retrofit.
 - Suva® 410A has higher operating pressures compared to R-22.
 - Suva® 410A is for new equipment that is specifically designed for R-410A.
- Suva® will require use of *manifold gauge sets*, *recovery machines* and *recovery tanks* specifically designed for higher pressure encountered with Suva® 410A.



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



A/C System Considerations:

Because of its enhanced properties, Suva® 410A systems will operate differently than R-22 systems. 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	Suva® 410A vs R-22
Discharge pressure	+50 to +70%
Cooling capacity	+45%
Discharge temperature	-10°F
Energy efficiency	+5% to -5%
Lubricant	POE

Because of higher pressure, most system components have been redesigned with increased wall thickness. When servicing this equipment, make sure you use reversing valves, expansion valves, filter-driers, and other components specifically designed for R-410A.

In addition to increased wall thickness, the expansion valve flow area required to provide the same tonnage as R-22 will be about 15% smaller.

R-410A is a blend of two refrigerants. To achieve optimum performance, remove as a liquid from the cylinder.

Consult your DuPont distributor or the OEM for special equipment recommendations.

For Further Information: (800) 235-7882

www.refrigerants.dupont.com

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