

DuPont™ Suva® refrigerants

DuPont™ Suva® 410A (R-410A) – Disposable Cylinders – Designed for Safety

A question we have been getting lately is this: **Since R-410A has such a high pressure, can I store it in the back of my service van like I did with R-22?**

The answer is Yes! Providing the temperature does not exceed 125°F. This is the same guidance given for R-22 and most other commonly used fluorocarbon refrigerants. You must be aware that on a hot sunny day, the temperature inside a closed van or truck can approach, or even exceed 125°F. If you are storing refrigerant in your van or truck, do not allow the temperature to reach 125°F.

Please read on for more details.

In the past few years, various manufacturers of residential air conditioners have begun to introduce units with R-410A. Although the number of these units is relatively small compared to R-22, they are expected to grow significantly in the next few years. R-410A provides good cooling capacity and high energy efficiency, with a significantly higher discharge pressure than R-22. The A/C systems have been designed by the OEMs to handle this higher pressure. For example: at 125 F, R-22 and R-410A have the following vapor pressure:

R-22	278 psig
R-410A	447 psig

Just as the OEMs have re-designed for the higher operating pressures, cylinders for R-410A have been redesigned to handle the higher pressure during normal transportation, use and handling.

Before R-410A was commercially introduced, the leading cylinder manufacturers worked to design a new disposable cylinder. The result of this effort was an “industry standard” cylinder based on Department of Transportation Guideline (DOT) CFR #49. See table below for details. DuPont’s cylinder supplier, Worthington was deeply involved in the development program.

To insure that the cylinders meet the design criteria, and to comply with the manufacturing requirements of DOT, Worthington conducts a pressure test on **every** disposable cylinder made for Suva® 410A. In addition, cylinders are routinely pulled off the production line and subjected to a burst test to make sure they satisfy the 1000 psig burst pressure criteria.

Disposable Cylinder Design Details

	R-410A	R-22
Cylindertype	DOT #39 (400)	DOT #39 (DAC)
Service pressure, psig	400	260
Test pressure, psig	500	325
Burst pressure, psig	1000	650
Minimum safety disk relief pressure, psig	525	341
Maximum safety disk relief pressure, psig	800	520



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