Lower charge requirements

Because the molecular structure of HC Refrigerants is considerably larger than that of existing synthetic alternatives, less of the refrigerant is required to charge a system. This not only reduces system pressures, but also helps prevent refrigerant leakage over time.

For example:

- HC-12a® requires 40% of the CFC R12 charge by weight
- HC-22a® requires 42% of the HCFC R22 charge by weight
- HC-12a® requires 42% of the HFC R134a charge by weight
- HC-12a® requires 40% of the CFC R12 charge by weight

For example:

- HC-12a®
  - 30 lb cylinder contains 11 lb of HC-12a® = 28 lbs of CFC R12 and 28 lbs HFC R134a
- HC-22a®
  - 30 lb cylinder contains 11 lb of HC-22a® = 27 lbs HCFC R22
- HC-502a®
  - 6 oz can = 15 oz of CFC R12 and 14 oz of HFC R134a

HC-12a®, HC-22a®, HC-502a®:

1. Operate the system for 24 hours and record temperature and pressures of unit operation. Modify the system, make any required repairs and perform routine maintenance before charging with HC Refrigerant.
2. Existing refrigerants may need to be removed and reclaimed by qualified personnel. The weight of the recovered refrigerant should be recorded. Local regulations may vary by region and the technician should be aware of all applicable requirements.
3. Perform a system vacuum and confirmed that system does not leak.
4. Connect gauges and hoses, then with the compressor off, install HC-12a® on the low-pressure side of the compressor. After a minimum charge is achieved, start the compressor and set system to high.
5. Add additional HC-12a® as needed. Do not overcharge the system.
6. After verifying that pressures and temperatures are correct, remove the charging hose and place the HC-12a® on the charging equipment and attach the HC System label (supplied) to the charging equipment.
7. If additional technical assistance is needed, please call your nearest HC Refrigerant distributor or Northcutt, Inc. directly.
8. The air conditioning system will now operate at cooler inside temperatures and a much lower head pressure, improving energy efficiency.
9. When charging a large system, the charging equipment, hoses and system must be grounded to stop a buildup of static electricity.

The Environmental Alternative

Hydrocarbon Refrigerant Technology

DISTRIBUTED BY:

www.hcrefrigerant.com ~ info@hcrefrigerant.com

For a distributor near you, call:

809-575-8888

The Recognized Leader in Hydrocarbon Refrigerant Technology

www.hcrefrigerant.com
A natural solution to a global dilemma

A growing awareness of the environmental issues facing our planet has motivated many world leaders and governments to embrace hydrocarbon technology as a long-term solution to environmental concerns. The European Common has adopted a new Standard, EN 378, which provides guidelines for the use and installation of hydrocarbon refrigerants in over 14 European countries. In the past five years alone, more than 8 million refrigerators and freezers were manufactured in Germany and Denmark utilizing hydrocarbon technology.

In the U.S., ASHRAE has rewritten Standard 15 to provide a framework for greater use of hydrocarbon refrigerants. In the past ten years, more than one million gallons of our HC Refrigerant has been used to cool between 3 million and 5 million motor vehicles throughout North America. During that period, there have been no reported accidents or injuries attributed to the use of our products.

A safe alternative to traditional refrigerants

Like all hydrocarbons, HC Refrigerants are flammable. But in terms of safety issues, HC Refrigerants pose no greater threat than other flammable products such as hair spray, aerosol cleaners and insect repellents. Common sense, and adherence to the manufacturer’s labeling and directions, has virtually eliminated the inherent risks associated with the use of such products.

Used as directed, HC Refrigerants are completely safe, and, unlike many new alternative refrigerants, are also non-toxic and environmentally friendly. Risk Assessment studies, carried out worldwide by scientists and institutions, have recognized the safety of hydrocarbon refrigerants, often in preference to established CFC replacements.

From the recognized leader in hydrocarbon refrigerant technology

With a management staff boasting more than 30 years of experience in the hydrocarbon industry, Northcutt offers unsurpassed quality control and unparalleled technical, sales and shipping support. We use only superior packaging, and our products comply with all applicable regulations. Northcutt proudly manufactures, blends and packages its complete line of quality refrigerants under the auspices of the patent holder, Mr. Gary Lindgren. HC-12a® Refrigerant is the only hydrocarbon refrigerant whose use is protected by international patents issued in the United States, Mexico and the UK*. After more than 12 years of extensive testing, it’s clear that HC Refrigerants provide more efficient performance than the man-made, synthetic refrigerants they replace!

Environmentally friendly hydrocarbon refrigerant*

Designed to replace ozone-depleting, global-warming refrigerants, HC Refrigerants are made of natural, organic compounds — not a blend of pre-existing, chemically based synthetic refrigerants, making them:

- Highly efficient
- Non-toxic
- Non-ozone depleting
- Non-global warming
- Non-corrosive
- Safe to use

Easily replaces harmful refrigerants

HC Refrigerants are designed to replace many environmentally harmful refrigerants currently in use.

- HC-12a® is designed as a drop-in replacement for ozone-depleting CFC R12 and global-warming HFC R134a refrigerant.
- HC-22a® is designed as a drop-in replacement for ozone-depleting HCFC R22 refrigerant.
- HC-502a® is designed as a drop-in replacement for ozone-depleting CFC R502 refrigerant.

In the U.S., ASHRAE has rewritten Standard 15 to provide a framework for greater use of hydrocarbon refrigerants. In the past ten years, more than one million gallons of our HC Refrigerant has been used to cool between 3 million and 5 million motor vehicles throughout North America. During that period, there have been no reported accidents or injuries attributed to the use of our products.

* Use of this product protected under the following patents:

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UK  2,286,194
MEXICO  194530  PRODUCT OF USA