



Reference materials available

The U.S. Environmental Protection Agency (EPA) has the following pamphlets available to help explain the phaseout of HCFC-22 to consumers and technicians/contractors.

Go to:

www.epa.gov/ozone/title6/phaseout/hcfc.html

Consumers: *Phasing Out HCFC Refrigerants to Protect the Ozone Layer*

Technicians and contractors: *What Technicians and Contractors Need to Know About Phasing Out HCFC Refrigerants to Protect the Ozone Layer*

EPA web site:

www.epa.gov/ozone



THE INFORMATION BEING PROVIDED IS BASED ON INFORMATION THAT DUPONT BELIEVES TO BE RELIABLE. YOU SHOULD NOT RELY ON THIS INFORMATION TO MAKE DECISIONS AFFECTING YOUR BUSINESS WITHOUT FIRST MAKING AN INDEPENDENT INVESTIGATION OF THE SUBJECT AND COMING TO YOUR OWN, INDEPENDENT CONCLUSIONS. IT DOES NOT CONSTITUTE LEGAL ADVICE AND THE USER IS RESPONSIBLE FOR COMPLIANCE WITH ALL LAWS, RULES AND REGULATIONS.

Copyright © 2007 DuPont. The DuPont Oval Logo, DuPont™, The miracles of science™, The Science of Cool™, ISCEON™, and Suva™ are trademarks or registered trademarks of E.I. du Pont de Nemours and Company or its affiliates. All rights reserved.

K-16681-1 11/07



DuPont Refrigerants. The Science of Cool.™

DuPont Refrigerants
Chestnut Run Plaza 705-GS29
P.O. Box 80705
Wilmington, DE 19880-0705
U.S.: 1-800-235-7882
Canada: 1-800-873-7882

refrigerants.dupont.com
supermarkets.refrigerants.dupont.com

R-22 Outlook

PLANNING NOW FOR
CHANGES IN REFRIGERATION
& AIR CONDITIONING



The time to act is now.

DuPont Refrigerants



The miracles of science™

Rapidly approaching HCFC regulations are likely to cause shortages of R-22

The time to act is now

- Based on U.S. EPA projections of supply and demand, DuPont projects that an R-22 supply shortage may occur by 2010 if current service practices and the reduced availability of reclaimed R-22 remain unchanged.
- Dealers, service contractors and equipment owners should be taking appropriate action now, including implementing a refrigerant management plan to transition away from R-22:
 - Repair all leaks (EPA expects to propose tighter leak limits for refrigeration equipment in Spring 2008)
 - Retrofit to alternative refrigerants (e.g., DuPont™ ISCEON® MO29, ISCEON® MO79)
 - Recover and reclaim
 - Recommend new equipment with non-ozone-depleting refrigerants (e.g., DuPont™ Suva® 410A)

Demand

Demand for R-22 in the U.S. continues to grow, both for OEM production and aftermarket service. Key factors impacting this growth:

- Market transition to new equipment with refrigerant alternatives like R-410A continues to be slower than anticipated.
- The continued predominance of new R-22 equipment has resulted in a greater installed base of R-22 equipment, requiring ever-increasing volumes of R-22 for service.
- U.S. OEMs increased the use of R-22 to meet the higher minimum SEER change from 10 to 13 and this is likely to have a continuing impact on demand until 2010 when R-22 can no longer be manufactured or imported for use in new equipment.

Regulations affecting supply

The U.S. Clean Air Act enforcement of the Montreal Protocol includes limiting HCFC consumption to a specific level and reducing the supply of HCFCs in a step-wise fashion beginning January 1, 2004.

- 2003: EPA Final Rule established an allowance system to control the U.S. consumption and production of HCFCs (original “cap”). HCFC-141b phased out.
- 2004: HCFC consumption cap reduced to 65% of the original cap.
- 2010: HCFC consumption cap must be reduced to 25% of original cap per recent Montreal Protocol update.
 - No R-22 can be produced or imported in the U.S. for use in new equipment made after December 31, 2009, per the U.S. Clean Air Act.
- 2015: HCFC consumption cap must be reduced to 10% of original cap; current aftermarket demand exceeds 2015 consumption cap.
 - EPA projects that reclaim R-22 supplies will have to be at least seven times 2004 levels to meet market demand at today’s levels!
 - Contractors should be participating in a certified reclaim program for R-22 recovery. Contact your DuPont Refrigerants Distributor for details.

1. From: “The U.S. Phaseout of HCFCs: Projected Servicing Needs in the U.S. Air Conditioning and Refrigeration Sector,” Sept., 2006

On September 21, 2007, the Montreal Protocol agreed to accelerate the phaseout of HCFCs.

Developed countries

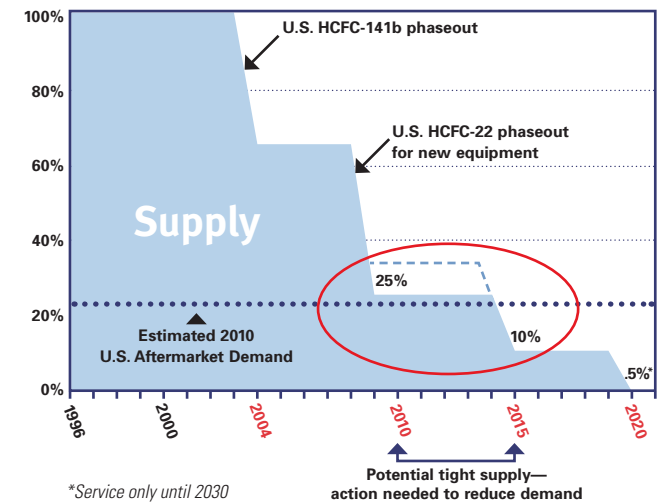
2010* 75% reduction from baseline

2015 90% reduction from baseline

2020* Stop production with 0.5% baseline for service only until 2030

**Accelerated phaseout schedule.*

Montreal Protocol Phaseout Schedule for HCFCs



Action you can take now

- Learn what the existing rules require by going to the EPA web site: www.epa.gov/ozone/title6/phaseout/hcfc.html
- Recommend that your customers transition from R-22 by retrofitting existing equipment and purchasing new equipment with alternative refrigerants that are:
 - non-ozone-depleting
 - not subject to phaseout under the Montreal Protocol and U.S. Clean Air Act
 - energy-efficient
 - cost-effective
 - long-term solutions
- Recover all refrigerants, especially R-22, and return through a certified reclaim program:
 - Contact your DuPont Refrigerants Distributor
 - Contact DuPont: 1-800-235-7882 (U.S.)
- Alternative refrigerants readily available:

Air Conditioning

Refrigeration

Suva® 410A (R-410A)

Suva® 407C (R-407C)

ISCEON® MO29 (R-422D)

ISCEON® MO59 (R-417A)

ISCEON® MO29 (R-422D)

ISCEON® MO79 (R-422A)

Suva® 404A (R-404A)

Suva® 507 (R-507)