

# Phaseout of Hydrochlorofluorocarbons

“Class II” ozone-depleting substances (ODS) are all hydrochlorofluorocarbons (HCFCs). HCFCs were developed as transitional substitutes for Class I ODS and are subject to a later phaseout schedule than Class I ODS.

HCFCs are used in a wide variety of applications. Historically, the most widely used include HCFC-22 (R-22 refrigerant), HCFC-141b (solvent and foam-blowing agent), and HCFC-142b (foam-blowing agent and component in refrigerant blends).

Some HCFCs, like HCFC-22, are also a component in refrigerant blends. They are subject to the same rules because they contain Class II ODS. Common refrigerants that contain HCFC-22 include R-401A, R-402A, R-408A, R-409A, R-414B, and R-502A.

As a Party to the Montreal Protocol, the United States must incrementally decrease HCFC consumption and production, culminating in a complete HCFC phaseout in 2030. HCFC usage must be reduced to at least 90 percent below baseline levels in 2015 and to at least 99.5 percent below baseline levels in 2020.

The U.S. phaseout schedule is summarized in the following table.

## U.S. Action to Meet the Montreal Protocol Phaseout Schedule

Year to Be Implemented	Implementation of HCFC Phaseout through Clean Air Act Regulations	Year to Be Implemented	Reduction from Baseline
2003	No production or import of HCFC-141b	2004	35.0%
2010	No production or import of HCFC-142b and HCFC-22, except for use in equipment made before January 1, 2010	2010	75.0%
2015	No production or import of any other HCFCs, except as refrigerants in equipment made before January 1, 2020	2015	90.0%
2020	No production or import of HCFC-142b and HCFC-22	2020	99.5%
2030	No production or import of any HCFCs	2030	100.0%

