



HCFC phase out!

The countdown  
is running...

December 31, 2009

THE LINDE GROUP

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**Environment**

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**Protection of the ozone layer**

**EU legislation on the ozone layer**

- [Regulation \(EC\) No 2037/2000](#)
- [Recent related decisions and notices](#)
- [Amendments to Regulation \(EC\) No 2037/2000](#)

**Regulation (EC) No 2037/2000 on Substances that Deplete the Ozone Layer**

[Regulation \(EC\) No 2037/2000](#) is the European Union's legislative instrument to phase-out ozone-depleting substances (ODS). It defines the definitions of the exportation, supply and use of ODS. It also establishes a licensing system for the exportation, supply and use of ODS. It also establishes a system of controls and penalties for non-compliance with the provisions of the Regulation. It also establishes a system of controls and penalties for non-compliance with the provisions of the Regulation.

A consolidated version of the Regulation is available. This version is not legally binding. It is intended to be used for information purposes only.

On 1 August 2009, the Commission adopted a decision which must be implemented by the Member States.

**Recent related news**

[Commission Decision 2009/51/EC](#) of 15 December 2008 on the allocation of import and export quotas for HCFCs under Regulation (EC) No 2037/2000.

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Read more at EU's homepage (direct link to the EU legislation below).  
<http://ec.europa.eu/environment/ozone/legislation.htm#amendments>.

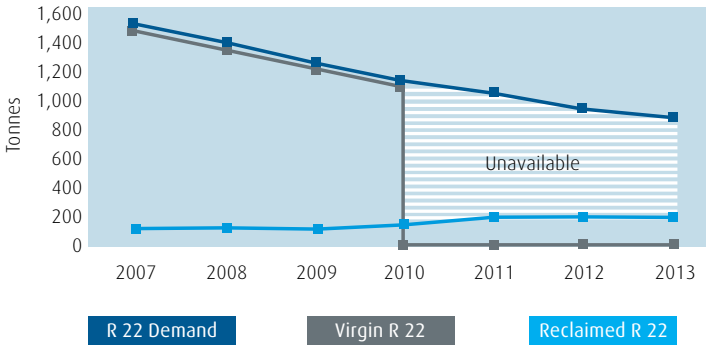
## HCFC phase out facts.

Under the Montreal protocol, it was agreed that ozone depleting substances including CFCs and HCFCs would be phased out globally.

- The EU regulation 2037/2000 states that existing refrigeration and air conditioning systems can be fitted with virgin (new) HCFC only up to December 31, 2009.
- Common HCFCs include R22, R123, R401A/B, R402A/B, R408A & R409A.
- From then on, until December 31, 2014 only reclaimed or recycled refrigerant can be used.
- From 2015 there is a total ban on filling HCFCs in the EU.

## What does that mean to you?

From January 1, 2010, virgin HCFCs will be banned from use. Only reclaimed R22 can be used for service & repair purposes. All R22 plants must be converted in the long term.



Predicted R22 needs in Germany (rest of EU similar).

Source: DuPont Refrigerants, April 2009.

## Act instead of react. Scarcity of reclaimed HCFCs!

It is likely that the only reclaimed HCFC available in commercial quantities will be R22. However, there are no reliable figures on the amount of reclaimed R22 that will be available from 2010, as this will depend on the number of conversions carried out, and purity of product returned.

European producers are already reducing the production of HCFC refrigerants and distributors reducing stock in their supply chains.

Therefore it is expected that virgin products may become scarce before the end of 2009.

**Convert** existing equipment to operate with an HFC refrigerant.

e.g. R404a, DuPont ISCEON® products.

**Replace** existing equipment and move to a natural (or HFC) refrigerant.

**Continue** operating the existing R22 facility.

WARNING! Risk of product shortages.

## Convert, replace or continue... What alternatives do I have?

The best decision will depend on a number of factors, including the age, working life, condition, operating costs, refrigerant used & application.

We are happy to provide impartial advice on which option makes sense for your site.

For more information please visit us at:  
[www.linde-gas.com](http://www.linde-gas.com) → Products → Refrigerants  
or contact your local Linde subsidiary.

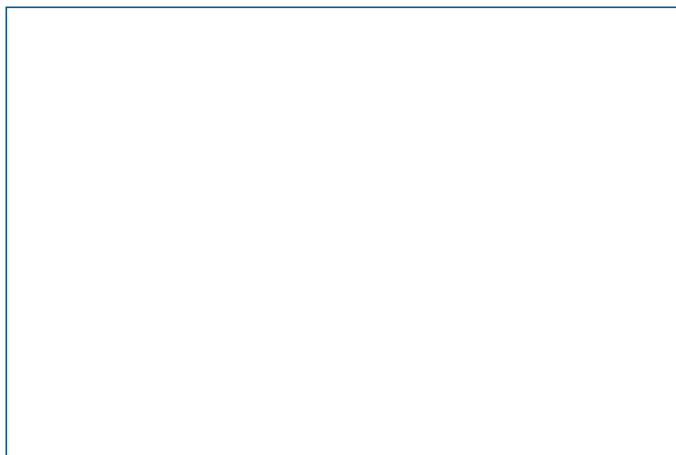


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# Any questions?

We are happy to  
provide impartial  
advice!

Your local Linde contact:



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