

OZONE DEPLETION

COMPRESSED AIR REFRIGERANT DRYERS

REGULATION ON SUBSTANCES THAT DEplete THE OZONE LAYER - No 2037/2000

The substances underlined are the most commonly used for refrigerant applications.

CFCs:	<u>11</u>	<u>12</u>	13	113	114	500	<u>502</u>	503
HCFCs:	<u>22</u>	123	124					
HCFC blends including	various	R401a	R402 a	R403a	R406a	R408a	R411b	

The EC Regulation introduced in 2000 provided for increased use controls.

The use of HCFCs was banned for the manufacture of new equipment in all refrigeration and air-conditioning applications from 1st January 2001 except for 2 temporary exemptions:

- the ban was delayed until 1st July 2002 for fixed air-conditioning equipment with a cooling capacity of less than 100 kW
- the ban was delayed until 1st January 2004 for reversible air-con/ heat pump systems.

HCFC Use Controls - Existing Equipment

Controls were introduced related to the use of HCFCs in the maintenance of refrigeration and air conditioning systems manufactured prior to the relevant manufacture ban above.

Virgin HCFC - there will be a **ban** on the use of virgin HCFCs from **1st January 2010** and

All types including recycled HCFC - a **ban** on the use of all HCFCs, including recycled materials, from **1st January 2015**.

REGULATION ON CERTAIN FLUORINATED (F) GREENHOUSE GASES - 842/2006

Does not change the controls and bans introduced in Regulation 2037/2000

Does introduce the requirement for:

Obligation	Applicability (for systems using F gas Refrigerants)
Recovery of F gases during plant servicing and maintenance and at end of plant life.	All stationary systems
Use adequately trained staff to carry out installation, servicing and maintenance and leakage checking	All stationary systems
New equipment shall be labelled	All stationary systems
Take steps to prevent F gas leakage and repair detected leakage as soon as possible	All stationary systems
Regularly check for leakage	Stationary systems above 3kg or 6kg
Keep certain records about refrigeration plant that uses F gases	Stationary systems above 3kg
Fit automatic leak detection system	Stationary systems above 300kg

Further information can be got from:

<http://www.berr.gov.uk/sectors/index.html>

<http://www.defra.gov.uk/environment/air-atmos/fgas/index.htm>