

# Ozone Depletion Compressed Air Refrigerant Dryers

## Regulation on substances that deplete the ozone layer - No 2037/2000

The substances in bold are the most commonly used for refrigerant applications.

CFCs	<b>11</b>	<b>12</b>	13	113	114	500	<b>502</b>	503
HCFCs	<b>22</b>	123	124					
<b>HCFC blends: various including</b>			R401a	R402a	R403a	R406a	R408a	R411b

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

### 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 is a **ban** on the use of virgin HCFCs from **1st January 2010** and any 'stockpiled' gas must be returned to the supplier for disposal.

### Regulation on Certain Fluorinated (F) Greenhouse Gases - EU F-gas Regulation 517/2014 (Superseding 842/2006)

This revised regulation came into force on 1st January 2015 and introduced a Global Warming Potential (GWP) factor (previously Ozone Depletion Potential).

**1st January 2020** - Use of fluorinated greenhouse gases with a GWP of 2,500 or more to service or maintain refrigeration equipment (charge size of 40 tonnes of CO<sub>2</sub> equivalent or more) **shall be prohibited**.

**2030** - However, the above shall not apply to the following until 2030:

- Reclaimed fluorinated greenhouse gases with a GWP of 2,500 or more used for maintenance or servicing of existing refrigeration equipment, provided that they have been labelled in accordance with Article 12 (6);
- Recycled fluorinated greenhouse gases with a global warming potential of 2,500 or more used for the maintenance or servicing of existing refrigeration equipment provided they have been recovered from such equipment. Such recycled gases may only be used by the undertaking which carried out their recovery as part of maintenance or servicing or the undertaking for which the recovery was carried out as part of maintenance or servicing.

**1st January 2022** - Use of fluorinated greenhouse gases, with a GWP of 150 or more, to service or maintain refrigeration equipment refrigerators or freezers for commercial use (hermetically sealed equipment) **shall be prohibited**.

Obligation	Applicability
Gases during plant servicing, maintenance and end of plant life	All stationary systems
Use adequately trained staff to perform installations	All stationary systems
New equipment shall be labelled	All stationary systems
Take steps to prevent, detect and repair leakage of F-gas	All stationary systems
Regularly check for leakage	Stationary systems above 3kg
Keep specified records	Stationary systems above 3kg
Fit automatic leak detection	Stationary systems above 300kg

For further information visit:

<http://www.defra.gov.uk/environment/quality/air/fgas/srac>

<http://www.ior.org.uk/O3Y39J156227>