



## F-Gas regulations

### Legislation

F-Gas L003

### Important Dates

#### 1 January 2015

Under the EC (ODS) Regulation 2037/2000 no recycled or recovered HCFC can be supplied or used to service existing equipment.

#### 4 July 2011

UK safe handling is no longer valid after this date. Holders will have to pass written exams and practical exams (including pressure/enthalpy and psychometrics).

Certified companies had to be in place by 4 July 2011. Any uncertified companies will not be allowed to receive supplies of f-gasses after this date.

**F-Gas is the term used to describe fluorinated gasses.** This leaflet explains the regulations relating to air conditioning products that use fluorinated gasses as their refrigerant.

These gasses are R134a, R407C and R410A and all come under the regulation. The objective is to ensure containment by raising professionalism and good record keeping.



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## Consultants and Designers

There is a duty of care to ensure the widest knowledge and understanding of these regulations.

## Contractors / Installers

### Employers

Must keep records of all qualifications and training for employees whilst they are in their employ.

Must not send unqualified personnel to do jobs that require qualifications as above.

Must give copies of certificates to their employees on demand whilst that person is still employed by them.

### Individuals (circuits over 3kg)

Must not work on air conditioning or heat pump refrigeration circuits containing over 3kg of HFC unless they have an full accredited certificate as above.

This includes installation, servicing/ repairing the circuit, installing a leak detection system, annual and biannual leak checking and decommissioning circuits at the end of life. They may supervise personnel on site who are training for their certificate.

### Individuals (circuits under 3kg)

May work on circuits containing under 3kg of HFC provided they have an in-house training qualification or have already been engaged in such work whilst unsupervised prior to the regulation coming into force (15th February 2008). Must have new European certificate after 4th January 2011.

## End Users / Operators

The 'operator' could be owner or user or a 'contracted out' servicing company depending on the circumstances. The operator must keep records (log book) of the entire plant, ensure leak tests are done on time and only allow certified personnel to work on their systems. There are penalties for the operator for non compliance.

## Leak Checking

This can only be done by fully qualified and certified refrigeration personnel.

### Annually

Circuits 3kg to >30kg  
Circuits >30kg if automatic leak detection fitted

### Six Monthly

Circuits 30kg to 300kg

### Quarterly

Circuits over 300kg (for large refrigeration plants)

**Direct Method** gas detectors, bubble solutions or by (not on Daikin equipment) refrigerant dyes.

**Indirect Method** analysis of one or a combination of temperature, pressure, compressor current, liquid level or recharge volume. Leaks then found by direct method, repaired and rechecked within a month.

**Daikin VRV<sup>III</sup> has the ability to analyse its own circuit if it was initially charged using the automatic facility. This falls under the indirect method.**

## Labelling

Under the regulation all installed systems have to have a permanent, indelible label showing the type of F-gas and the total quantity by weight installed in the circuit.

**Daikin supplies labels that must be filled in on site with details of any refrigerant added.**

## Record Keeping

Operators must keep records of their plant and any leaks from and additions to their air conditioning plants. At the end of the equipment life, a record of the refrigerant extracted must be made. The names and details of operatives and companies carrying the above work must also be recorded.

Records must also be kept by installation and service companies of all movements (in and out) of F-gas refrigerants used / handled / disposed of.

**For more information contact Enviro Consulting acting for DEFRA.**

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