

Developing innovative, sustainable solutions
for climate control systems

Changes in F-Gas legislation increases demand for a stationary leak detector.

The aim of the new F-Gas regulations is to promote reduced leakage in installations. One of the main changes that will affect equipment owners, service engineers and installation technicians, starting on 1 January 2015, concerns leak detection.

As a way of improving refrigerant containment in installations, leak detectors offer continuous in situ monitoring.



Current leakage check standards are based on thresholds of 3, 30 and 300 kg of refrigerant. These have been replaced in the new regulations (EU regulation 517/2014 Articles 4 and 5) by the following CO₂ equivalent thresholds: 5, 50, and 500 tonnes.

Leakage detection systems are now compulsory for installations with a charge size greater than 500 tonnes of CO₂ equivalent with HFC. This means the charge size of R-404A, which requires fixed leak detection, will come down from 300kg to 127kg. For charge sizes less than 500 tonnes of CO₂ equivalent, installing a stationary detector means the frequency of leakage checks can be halved (refer to the table below).

To calculate the CO₂ equivalent for a given system, you need to know the exact GWP for its refrigerant.

Developing innovative, sustainable solutions
for climate control systems

The Murco range of stationary detectors offers solutions for all refrigerants. Equipped with 1 to 6 sensors and 1 or 2 alarm thresholds, they have an audible and visual alarm and mean that you will comply with the regulations which will come into force on 1 January 2015.

System	Leak check frequency
containing ≥ 5 and < 50 T CO ₂ -eq of HFC	Every 12 months, or every 24 months if a leakage detection system features permanent detection devices able to alert operator
containing ≥ 50 and < 500 T CO ₂ -eq of HFC	Every 6 months, or every 12 months if a leakage detection system features permanent detection devices able to alert operator
refrigeration systems, air conditioning systems, heat pumps, and refrigerated trucks and trailers containing ≥ 500 T CO ₂ -eq of HFC	Every every 6 months, and system must have permanent detection devices able to alert operator or service company
using organic Rankine cycle or electrical switchgear which contain ≥ 500 T CO ₂ -eq of HFC	Every 3 months, or every 6 months if system features permanent detection devices able to alert operator or service company (mandatory for all systems installed after 1 January 2017)

Climalife invites you to discover its range of solutions for fluid detection on its stand **stand 210** in **Hall 5** at Chillventa.

Developing innovative, sustainable solutions
for climate control systems

Climalife, a key partner for energy performance

Developing innovative, sustainable solutions for climate control systems

For more than a century, Climalife has been Europe's specialist in cooling fluids for refrigeration and air conditioning.

Its dynamism and commitment to quality and protecting the environment has also enabled it to gain cutting-edge expertise in the heating and renewable energy markets.

More than 250 employees are available to share their knowledge on diverse sectors such as: industrial markets, commercial markets (large outlets, local stores, etc.), housing and apartments, and the service sector (offices, hospitals, airports ...).

They can meet your needs with a range of products and services suitable for any climate control system: refrigerants, secondary refrigerants/heat transfer fluids, lubricants, equipment, cleaning, brazing alloys, analysis, services.

Climalife benefits from the structure of the Dehon Group, a key player in performance chemistry, developing innovative solutions and building special partnerships with professionals, particularly producers, manufacturers, industrial firms, and distributors.

Innovative services developed for safety and the environment, regular technical and regulatory information, and high-performance tools complete this comprehensive plan.

Climalife offer their products and services worldwide, thanks to a global distribution network made up of 13 subsidiaries (Germany, Belgium, Netherlands, France, United Kingdom, Spain, Hungary, Switzerland, Scandinavia, Italy, Russia, Panama, and Romania), and local representatives (India, China, Singapore and Malaysia) and an export subsidiary, Galco-Climalife, for the rest of the world.

Press contact:

Climalife Groupe Dehon

Delphine Martin

Tél : +33 (0)1 43 98 75 19

E-mail : dmartin@climalife.dehon.com