

Developing innovative, sustainable solutions  
for climate control systems

## CLIMALIFE – Launching HFO Refrigerants to market

Climalife remains at the forefront offering new lower GWP refrigerants to its customers to help them meet the requirements of the new F-Gas regulations.

Climalife were one of the first to offer **Performax® LT (R-407F)** which has established itself as the prime lower GWP alternative to R-404A and is already in widespread use in both commercial and non commercial installations. With a GWP of 1825 it is more than 50% lower than that of R-404A at 3922.

Climalife are working closely with a number of customers to **develop the use of the very low GWP refrigerants such as R-1234ze**, which has the potential to offer some real energy saving benefits in chiller, heat pump and medium temperature applications for new equipment as alternative to R-134a. The GWP is just 7 (**IPCC** 4th assessment) and already good results are being reported by those who are leading the way in its use.

The very low GWP HFOs can also be used in blends with other refrigerants to try and closely match the desired properties of much higher GWP refrigerants.

Climalife in conjunction, with producers are bringing new solutions to their customers so they can trial these new refrigerants in both existing and new technologies that they are developing. One of the first of these is **Solstice® N13 (R-450A)** a non flammable replacement for R-134a with a GWP of 605 (**IPCC** 4th assessment). The product is launched at Chillventa and Climalife will be in a position to distribute commercial quantities, as required. Initially it is being used in supermarkets medium temperature systems, but it can also be used in other applications where R-134a has traditionally been used.

The latest **Climalife Contact 7** magazine, which will be available at Chillventa will features some new case studies from Climalife operations across Europe where low GWP refrigerants have been successfully used.

These include the use of **R-450A** in a cascade refrigeration system at French supermarket chain, Auchan, the use of **R-407F** in a refrigerated transport application in



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Switzerland by Heller AG and the use of **R-1234ze** and HFO Blend Solstice® **N40 (R-448A)** in the UK by Precision Refrigeration in new refrigerator and freezer counter models for food service applications.

The new F-Gas regulations bring many challenges, not least the move to lower GWP refrigerants over the next few years and Climalife are excited to be at the forefront of bringing new refrigerants to their customers to achieve the demands that are placed upon them. Climalife are well versed in change having helped their refrigeration and air conditioning customers successfully move from CFCs and then HCFCs in the past.

More refrigerants are under development, some, such as Solstice® N40 (R-448A) are expected to be available early next year and Climalife are well placed to help their customers trial, share technical expertise and help them decide which are best suited for their requirements in their specific applications.

**Climalife** can be found on **stand 210** in **Hall 5** at Chillventa.

A series of overlapping, wavy, light gray lines that sweep across the bottom of the page, creating a modern, fluid design element.

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## 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.

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