Daikin's strategic vision in the VRF market – Introducing CO_2 VRV in Europe

Brussels, 28th November 2024 – Daikin, the global leader in heat pump and VRV technology, announces its new VRV range with R-744 refrigerant (CO_2) for the European market. Daikin has always been at the forefront of developing solutions to lower the carbon footprint of its systems, anticipating and supporting legislation. After sharing its vision for implementing the EU HFC phase-down, Daikin now shares more details on its strategic vision for the Variable Refrigerant Flow (VRF) market.

Diverse refrigerants to support the transition to a net zero-carbon future

"*Decarbonising the building sector requires flexible refrigerant options due to varying application challenges. There is no one-size-fits-all solution.*" says Bernard Dehertogh, Deputy General Manager DX at Daikin Europe N.V. "*Daikin's strategy is to select the best refrigerant for each application, balancing four key factors: safety, energy efficiency, environmental impact, and cost over the entire life cycle of a product. Daikin's introduction of the first CO_2 VRV unit, in addition to our VRV R32 range, reaffirms our commitment to the decarbonisation of commercial buildings.*"

CO_2 VRV, the low GWP solution

Using R-744 (CO_2) comes with different key benefits. CO_2, is a so-called natural refrigerant, classified as non-flammable (A1) according to ISO817, and with a GWP value of 1, it has a very low Global Warming Potential.

CO_2 VRV inherits all the typical VRV benefits: it is quick and easy to design and install and contains precise climate zone control options with quick response time. Bringing the Eurovent certified CO_2 VRV along with the flagship Round Flow cassette to market, signifies a major milestone in the transition towards the future VRV/VRF market in Europe.

"*Adding CO_2 to Daikin's broad portfolio of VRV solutions, this innovation diversifies the choices on the market and lays the foundation for further developments*", says George Dimou, VRV product manager at Daikin Europe N.V. "*It is tailored for targeted decarbonisation initiatives such as supermarkets and retail establishments, focusing on heating and cooling systems that necessitate the use of natural refrigerants*". The units will be available from April 2025.

VRV – proven low carbon technology

Until today, VRV technology has contributed to saving significant amounts of CO_2 emissions compared to any other fossil fuel heating solution. With both refrigerant options, R-32 and CO_2, Daikin will be able to cover a maximum number of applications to decarbonise buildings, depending on the priority of the selection criteria related to efficiency, footprint, carbon emissions over the entire life cycle, cost, and GWP.

George Dimou comments: *"We are committed to developing VRV systems that offer the flexibility of choice for any type of commercial building, keeping a clear focus on energy efficiency, GWP, legislation and building trends. This CO_2 VRV innovation is a next step towards offering solutions with a lower climate impact over their entire lifetime. Starting today, we will educate and train our network to support the adoption of this new technology as part of our full range of solutions. We aim to enable stakeholders to gain knowledge and develop expertise in future-proof solutions."*.

For more information about the revised F-gas regulation and Daikin's refrigerant outlook visit https://www.daikin.eu/en_us/press-releases/an-outlook-from-daikin-on-refrigerant-alternatives-in-europe.html

About Daikin Europe N.V.

The Daikin Europe group is the leading provider of heating, cooling, ventilation, air purification and refrigeration (HVAC-R) technology in Europe, Middle East, and Africa. Daikin designs, manufactures, and offers customers a broad portfolio of products, maintenance services as well as turnkey solutions for residential, commercial, and industrial purposes. To date, Daikin Europe has over 13,800 employees across more than 59 subsidiaries. It has 14 manufacturing sites in Belgium, the Czech Republic, Germany, Italy, Spain, Austria, the United Kingdom, Turkey, the United Arab Emirates, and the Kingdom of Saudi Arabia. Headquartered in Ostend (Belgium) for over 50 years, the Daikin Europe group is a subsidiary of the global group Daikin Industries.

About Daikin Industries Ltd.

Daikin Industries (DIL) is a worldwide leader in heat pump, air conditioning, and air filtration technology with more than 98,000 employees. Founded in Osaka in 1924, it is the only manufacturer in the world that develops and manufactures heating, ventilation, air conditioning, and refrigeration equipment, as well as compressors and refrigerants in-house. Daikin was named one of the world's top 100 most innovative companies by Clarivate (UK) and LexisNexis (USA), recognised for its leadership in technology research and intellectual property patents. For its fiscal year 2023 Daikin reported a record sales result of € 28 billion sales (1 April 2023 – 31 March 2024).

Read more on www.daikin.eu and www.daikin.com.

Media Contacts Daikin Europe N.V.

Sofie Sap – T.: +32 472 580482 Mail: sap.s@daikineurope.com
Daisuke Kakinaga – T.: +32 465 462321 Mail: kakinaga.d@bxl.daikineurope.com