

Daikin's strategic vision in the VRF market – Introducing CO₂ VRV in Europe

Vienna, January 2025 – Daikin, the global leader in heat pump and VRV technology, announces its **new VRV range with R-744 refrigerant (CO₂)** 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



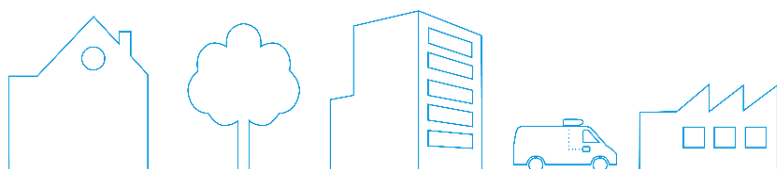
"Decarbonising the building sector requires flexible refrigerant options due to varying application challenges. There is no one-size-fits-all solution," says **Bernard Dehertogh, Deputy General Manager DX at Daikin Europe N.V.** "Daikin's strategy is to select the best refrigerant for each application, balancing four key factors: safety, energy efficiency, environmental impact, and cost over the entire life cycle of a product. The introduction of our **first CO₂ VRV unit, in addition to our VRV R32 range**, reaffirms our commitment to the decarbonisation of **commercial buildings**."

CO₂ VRV, a solution with very low Global Warming Potential

Using refrigerant R-744 (CO₂) comes with different **advantages**:

- CO₂ 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.

CO₂ 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 CO₂ 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 CO₂ to our 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**. Daikin’s CO₂ VRV will be presented at ISH25 from 17 to 21 March 2025, at Messe Frankfurt, Germany.

VRV – proven low carbon technology

Until today, **VRV technology** has contributed to **saving significant amounts of CO₂ emissions compared to any other fossil fuel heating solution**. With both refrigerant options, R-32 and CO₂, 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.

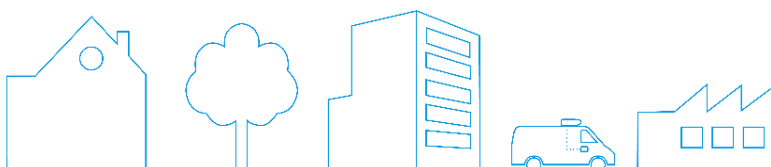
George Dimou comments: "We are committed to developing VRV systems that offer the flexibility of choice for any type of commercial building, keeping a clear focus on energy efficiency, GWP, legislation and building trends. This CO₂ VRV innovation is a next step towards offering solutions with a lower 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** read our press release from October 2024:

[An outlook from Daikin on refrigerant alternatives in Europe – addressing applications, affordability, safety and future-readiness | Daikin](#)

Visit Daikin at ISH25

- March 17-21, 2025
- Messe Frankfurt, Ludwig-Erhard-Anlage 1, 60327 Frankfurt am Main, Germany
- Hall 12.0 Stand E41



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About

100 years Daikin

The story of Daikin has always been shaped by groundbreaking ideas, technological innovations, and dedicated people. It began in 1924 when the young Japanese engineer Akira Yamada founded an enterprise in Osaka to manufacture aircraft radiators with a 15-member team. Today, 100 years later, the Daikin Industries Ltd. group brings **future-proof solutions for heating, cooling, ventilation, air purification, and refrigeration to global markets**. More than 98,000 employees in 175 countries continue the company's legacy of leading technologies to advance low carbon heating and cooling, while ensuring the highest level of comfort. For its fiscal year 2023 the global Daikin Group reported a record sales result of € 28 billion sales (1 April 2023 – 31 March 2024).

Read more on [100 Years Daikin](#)

Daikin Industries Ltd.

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

Read more on www.daikin.com

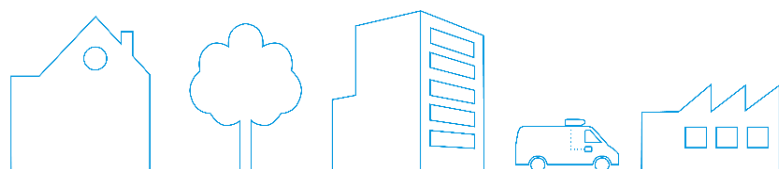
Daikin Europe N.V.

The Daikin Europe Group is a **leading provider of heating, cooling, ventilation, air purification and refrigeration (HVAC-R) technology** across Europe, Middle East, and Africa. Daikin designs, manufactures, and offers customers a broad portfolio of products, maintenance services, and turnkey solutions **for residential, commercial, and industrial applications**. The group currently employs over 13,800 people across more than 59 subsidiaries and operates 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 Daikin Industries Ltd.

Read more on www.daikin.eu

Daikin Airconditioning Central Europe

Daikin Airconditioning Central Europe, founded in 1999 with its headquarters in Vienna, Austria, operates as a subsidiary of Daikin Europe. Its portfolio includes **products and total solutions for heating, cooling, ventilation, air purification, and refrigeration in residential, commercial, and industrial settings**. With over 700 employees and 3,400 partners, the company manages sales and service activities across **16 countries in Central and Eastern Europe**, including Austria, Albania, Bosnia and Herzegovina, Bulgaria, Croatia, the Czech Republic, Hungary, Kosovo, Montenegro, Moldova, North Macedonia, Poland, Romania, Serbia, Slovakia, and Slovenia.



With 'Your Daikin World' at the Vienna headquarters and the 'Daikin Inspiration Park,' the HVAC-R industry and the construction sector have access to two state-of-the-art B2B-experience centers for co-creating tailor-made solutions for hotels, retail, offices, and large commercial applications. Across the CE-region Daikin runs 10 out of 116 B2B-trainings centers across Europe. Consumers and homeowners receive consultations at four B2C-Experience centers in Vienna, Belgrade, Bratislava and Budapest.

Read more on www.daikin-ce.com

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