

Daikin achieves another major breakthrough in building decarbonisation with new VRV 5 Heat Recovery

Initial details of the latest breakthrough in VRF technology were revealed today by Daikin Europe. Announced by Daikin as a sustainability champion, the ground-breaking 5th generation heat recovery system is set to greatly reduce the CO₂ footprint of buildings.

Oostende, November 2021 – As a market leader in HVAC-R solutions, Daikin seeks to deliver a comfortable, healthy indoor climate, keeping the total CO₂ equivalent emissions as low as possible throughout the entire building lifecycle. The new VRV 5 Heat Recovery unit represents a significant milestone on this journey, with the introduction of the lower GWP (Global Warming Potential) refrigerant R-32 for larger commercial buildings, while keeping the VRV flexibility to cater for all types of indoor spaces, even very small areas.

Future first

The new VRV 5 Heat Recovery unit represents the future of commercial HVAC-R, making a significant contribution to the decarbonisation of commercial buildings thanks to:

- A major reduction of up to 71 % in global warming impact by the adoption R-32, with a 68 % lower GWP, and lower refrigerant charge compared to R-410A systems.
- A higher real-life seasonal efficiency.
- The highly efficient and comfortable 3-pipe heat recovery system, which recovers and recirculates heat among spaces with different thermal needs, and allows simultaneous heating and cooling operation, whatever the building's orientation.
- The integration of ventilation units to further contribute to an improved Indoor Air Quality and a healthier indoor environment.



Unparalleled flexibility

A completely redesigned Branch Selector (BS) box that incorporates [Daikin's unique Shîrudo technology](#) allowing installation in spaces down to 7m² without complicated calculations or additional field-supplied refrigerant control measures.

Daikin's Web Xpress design software combined with the Shîrudo technology allow quick and easy system selection and design to suit any space.

With the widest capacity range on the market, up to a maximum of 75.8 kW, Daikin's VRV 5 covers the needs of medium to large sized buildings with a single system.

A comprehensive range of specially designed R-32 VRV indoor units offers maximum flexibility for all room configurations. This includes Daikin's signature ceiling mounted and suspended cassettes, slim, medium External Static Pressure (ESP), high ESP concealed ceiling units and wall mounted units. A choice of capacities ranging from 1.1 kw to 31.5 kw easily covers all possible room sizes.

Building a sustainable legacy together

Sustainability and innovation are integral elements of [Daikin's Environmental Vision 2050](#). The new VRV 5 Heat Recovery system responds to both, maximising building efficiency with a minimum environmental footprint.

George Dimou, VRV Product Manager from Daikin Europe: "As an industry leader we take the responsibility to drive the sustainable transformation of the HVAC-R market by providing a healthy and comfortable indoor environment with the power of air. As a trusted partner, we are acting now to establish long-term business relations with market stakeholders and customers, continuously supporting all efforts for achieving both our partners and our own sustainability goals. As a manufacturer, we have reduced waste through circular economy schemes like [LOOP by Daikin](#) and the development of innovative new solutions including VRV 5 with Shîrudo technology to further reduce our CO₂ footprint."



Catch a first glimpse

Visitors to The International HVAC-R Climatizacion y Refrigeracion Exhibition in Spain (16-18th of November, 2021), where the VRV 5 Heat Recovery solution has been selected to appear in the Galleria D'Innovacion, will be able to catch a first glimpse of the new development in HVAC-R for commercial buildings. The system will be delivered from Daikin's EU-based Czech and Belgian production sites from July 2022 onwards.

For more information visit www.daikin.eu/VRV5HR

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About

Daikin Europe N.V.

Daikin Europe N.V. is a major European producer of air conditioners, heat pumps and refrigeration equipment, with 10,000 people employed throughout Europe and fourteen major manufacturing facilities based in Belgium, the Czech Republic, Germany, Italy, Turkey, Austria and the UK. With more than 90 years' experience in the design and manufacture of heating and cooling technologies, Daikin is a market leader in heat pump technology. Daikin VRV and Daikin Altherma are the most sold heat pump systems in Europe, with over 500,000 systems delivered to date.

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