

Aviso: Daikin's 5th generation VRV Heat Recovery drives decarbonization

Daikin reveals more details on its VRV 5 Heat Recovery launch in July: Besides convincing features of unparalleled simplicity and flexibility in design and installation, the latest evolution of the Variable Refrigerant Volume (VRV) technology which was first developed by Daikin 40 years ago, provides new opportunities for reducing the carbon footprint of commercial buildings and the direct and indirect environmental impact.

Lower direct and indirect emissions

Vienna, March 2022 – To drive the decarbonisation of buildings forward, generally, new systems should reduce both direct and indirect CO₂ equivalents. Daikin has focussed on maximising operational efficiency in real life conditions and thereby minimising the environmental impact: The new solution features a **market-leading seasonal efficiency**, with a 13 % increase in performance compared to the previous generation.

Additionally, Daikin's highly efficient 3-pipe heat recovery system, which allows **simultaneous cooling and heating**, delivers individual comfort control as well as maximum flexibility by transferring heat from areas requiring cooling to those that need to reach higher temperatures.

Moreover, Daikin's VRV system boosts its efficiency as no energy consuming pumps are used and only **two steps of energy transfer are needed**: From air to refrigerant and from refrigerant back to air which helps to minimise energy losses and increases overall system efficiency.

To also greatly reduce the system's potential direct impact, VRV 5 Heat Recovery has been built specifically for the **lower Global Warming Potential (GWP) refrigerant R-32**. Not only does R-32 carry heat more effectively than R-410A, allowing a lower refrigerant charge, it also has a lower GWP. Together, this leads to a reduction of the system's potential direct CO₂ equivalent emissions of up to 71 %. As R-32 is a single component refrigerant, it is easy to recover and reclaim and thereby supports Daikin's circular economy initiative [Loop by Daikin](#).



This combination of performance improvements and state-of-the-art technologies means that VRV 5 Heat Recovery is the ideal solution for **projects where lower environmental impact is a priority and BREEM, LEED or WELL certification are a set goal.**

Benefits of flexible and efficient installation for any commercial building

- With its best-in-class **design and installation versatility** VRV 5 systems are suitable for a wide variety of buildings and locations.
- The **temperature operation** ranges of up to +46°C in cooling and down to -20°C in heating.
- It can deliver an **external static pressure** (ESP) of up to 78 Pascals (Pa) so the unit can be installed with ducting to the exterior, in small spaces or behind grilles.
- **Five low sound steps** down to 40 db(A) in sound pressure allow installations in accordance with urban planning requirements, while enhancing comfort levels.
- VRV 5 Heat Recovery offers the same **long piping runs** as the current VRV range and even **smaller pipe diameters**, further reducing the required installation space.
- It offers the **widest outdoor unit range on the market**, with heating capacities up to 90kW.
- And with the inclusion of **Daikin's Shîrudo Technology** it can be used also for small rooms and spaces.
- Moreover, the installation of VRV 5 Heat Recovery is **fast and easy**. Thanks to the flow through connection of the BSSV boxes, the number of brazing points are reduced as well as the quantity of refrigerant branch kits required.

Peace-of-mind during operation and service

The integrated **Shîrudo Technology** provides the versatility to accurately control the indoor climate of any room or surface without any additional considerations, field supplied equipment or time-consuming studies. With the factory-integrated refrigerant response measures and easy validation via the Xpress software, Daikin guarantees compliance with the specific **IEC product standard**. In the unlikely event of a refrigerant leak, it is immediately detected and the affected part of the installation is isolated. This minimises the refrigerant that can leak and means only the units in the affected part of the system will be shut down, while the rest remains in operation.



Compatible with smart indoor units and control all-in-one

VRV 5 Heat Recovery can be combined with a contemporary range of specially designed R-32 optimised indoor units, offering **maximum flexibility** for all room configurations. Ventilation units can be integrated to further improve the **Indoor Air Quality** and create a healthier indoor environment.

User-friendly and intuitive controllers ensure the system runs in the most comfortable and efficient way. **Daikin's mini BMS**, the intelligent Touch Manager, easily integrates climate control and third party equipment into one system. Providing both local and cloud-based access, building managers can control the system from any location via touchscreen, Intranet or Internet.

For consultants and installers of VRV 5 Heat Recovery Daikin offers a variety of supporting tools like BIM objects and floorplan-based software to ease the system design and selection or the full project and technical support provided by an expert team.

George Dimou, VRV systems product manager at Daikin said: "There has never been a greater focus on supporting the decarbonisation of buildings and the HVAC-R market has an important role to play. It is up to all of us to apply available solutions, such as the VRV 5 Heat Recovery, and our expert teams are ready to support the building and installation industry to take action now."

Daikin VRV 5 Heat Recovery units will be **available from July 2022**.

For more information visit www.daikin-ce.com/VRV5HR

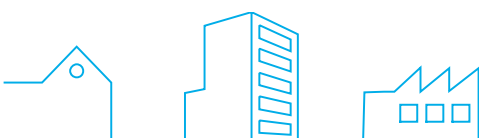
Go to the [VRV 5 designer Seminar](#) to hear more details

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About

Daikin Airconditioning Central Europe

Daikin Airconditioning Central Europe was founded in 1999 with its headquarters in Vienna, Austria. The company's portfolio comprises products and solutions for heating, cooling, ventilation, air conditioning and refrigeration. More than 450 professionals are in charge of pre-sales, sales and after-sales-services in 16 countries across Central and Eastern Europe in Austria, Albania, Bosnia & Herzegovina, Bulgaria, Croatia, Czech Republic, Hungary, Kosovo, Montenegro, North Macedonia, Moldavia, Poland, Romania, Serbia, Slovakia and Slovenia.



Daikin Europe N.V.

Daikin Europe N.V., Daikin Central Europe's mother company, is a major European producer of air conditioners, heat pumps and refrigeration equipment, with approximately 10,000 people employed throughout Europe and 14 major manufacturing facilities based in Belgium, the Czech Republic, Germany, Italy, Turkey, Austria and the UK. Globally, Daikin is renowned for its pioneering approach to product development and the unrivalled quality and versatility of its integrated solutions. 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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