

JOURNAL

New in the portfolio: DAIKIN VRV 5 - a milestone on the way to decarbonising commercial buildings



In order to always offer its customers the optimal solution, GoGaS works closely with system partners whose technologies in the field of sustainable building solutions perfectly complement our portfolio. We are pleased to welcome DAIKIN, the leading manufacturer of air conditioning, refrigeration and heat pump technology, as a new system partner. When it comes to comfort and energy efficiency in the commercial sector, DAIKIN leaves nothing to be desired with its VRV technology.

VRV 5 Heat Recovery: Cooling and heating with heat recovery and climate-friendly refrigerant

VRV 5 series: The DAIKIN VRV 5 Heat Recovery is the first VRV unit for simultaneous cooling and heating with heat recovery and climate-friendly refrigerant for medium-sized and large B2B properties. The individual comfort control allows heat to be shifted while the system is in use: if areas are to be cooled, the heat can be transferred from there to areas that are to be heated. The innovative air-to-air heat pump works with the refrigerant R-32 and convinces with a 68 % lower global warming potential (GWP) as well as a lower refrigerant quantity compared to systems with the commercially available refrigerant R-410A. In addition, R-32 is a single-component refrigerant and can therefore be recovered and recycled relatively easily. As a result, the new DAIKIN VRV 5

Heat Recovery helps to significantly improve the CO₂ balance of buildings - the greenhouse effect can be reduced by up to 71 %!

VRV 5 Heat Recovery: Maximum flexibility and planning security for all room designs

During the development of the DAIKIN VRV 5 Heat Recovery, the main focus was on achieving the greatest possible planning freedom. Accordingly, the minimum room size for the installation of the indoor units could be significantly reduced. In concrete terms, this means that with the DAIKIN VRV 5 Heat Recovery, rooms as small as 7 m² can be air conditioned. This is made possible by the new BSSV box, which is the main component of the new safety concept. The BSSV box also controls both the heat recovery function and the possibility of parallel heating and cooling operation. As a result, the new DAIKIN VRV 5 Heat Recovery offers even more flexibility and additional system reliability.

VRV 5 Heat Recovery: A new safety system sets standards

The new, validated safety concept of the DAIKIN VRV 5 Heat Recovery includes the factory-integrated safety devices of all VRV indoor units with R32 refrigerant. Should a leak occur on a unit in the rare event of a leak, this is detected by the built-in sensor. An acoustic and visual alarm is then transmitted to the operator and the respective line is shut off by valves in the BSSV box. The rest of the system remains in operation - so the malfunction has no influence on the function of the heat pump in the other rooms. In addition, the switch box itself also has an integrated leakage sensor. Here, depending on the building project and room size, it can be flexibly decided whether additional on-site safety devices should be connected to the BSSV box so that it can be installed almost independently of the room size. DAIKIN offers several options for this, which can be selected to suit the project in question.

VRV 5 Heat Recovery: Eligible and attractive for investors

Through the KfW Energy Efficiency Programme, companies receive up to 40 % subsidy on their additional investment costs for avoiding or even using waste heat - the concept itself is also subsidised. In addition, the lower global warming potential (GWP) and the positive Co₂ balance meet the ESG "Environment" criteria for green investments.

VRV 5 Heat Recovery: All advantages at a glance:

- Refrigerant R-32 with lower GWP and a low charge volume
- Efficient heat recovery by means of a 3-pipe system enables simultaneous cooling and heating
- Better CO₂ balance sheet
- Heat energy can be shifted between rooms in heat recovery mode

- Redistribution of heat energy between areas with different heat loads
- Group switching possible via remote control
- Quiet operation (sound pressure level of outdoor units can be reduced to 40 dB(A))
- Seasonal efficiency
- State-of-the-art safety system (integrated sensors & shut-off valves, integrated alarm)
- Installation also possible in small rooms from 7 m²
- Installation possible in new buildings and existing properties
- Installation without complicated calculations or additional on-site measures
- VRV technology is eligible for subsidies
- VRV technology meets the ESG criteria for sustainability

VRV 5 Heat Recovery from DAIKIN: We take care of everything!

Those who choose VRV units from our new system partner DAIKIN as part of our building solutions can sit back and relax: In accordance with our corporate philosophy, GoGas will take over the complete project implementation for you: Auswahl und Systemkonfiguration

- Calculations
- Support with the application for subsidies
- Planning and coordination with architect and building contractor
- Assembly, installation and maintenance
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Do you have further questions or would you like an individual offer?

Please contact us at any time, we will be happy to advise you!

This is GoGaS

Established in 1946, GoGaS has become a key innovation and technology partner to many customers and Who is Who in their industries, providing sustainable, environment friendly and innovative turnkey solutions for buildings, manufacturing process up to CO2 neutral operation. The unique portfolio includes a wide range of modular system and turnkey solutions such as IR, UV, UV-C, Air-condition, Heating, Cooling, Ventilation, Solar Systems and others for stationary, mobile and portable in- and outdoor applications. The company is active in several standardization committees, defining the next generation of technology standards such as TGA+.

GoGaS is a stakeholder in leading trade associations and initiatives, e.g. the German Engineering Association e.V. (VDMA), figawa, Export Initiative Energy, ELVHIS. (VDMA), figawa, Export Initiative Energy, ELVHIS. As an active partner of the Sustainability Initiative "Blue Competence", GoGaS is also driving the future of environment friendly and energy efficient planning, building and operating of B2B buildings, thus optimizing its CO2 footprint and maintaining the highest possible asset valuation, ROI and TCO for investors, owners, operators and tenants at the same time. The company is also involved in key research programs of the EU and industrial technology partners. GoGaS provides its customers with turnkey solutions, reducing the number of interfaces, eliminating delays in the Supply Chain and project execution and provides a lifetime warranty and support service.

Corporate Video

For more information about GoGaS, klick on the link below and watch our latest corporate Video.

<https://www.gogas.com/en/company/corporate-video>

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