

Decarbonisation of buildings made easy: Benefit from leading VRV 5 technology



VRV 5 S-series

VRV 5 Heat Recovery

VRV 5 Heat Pump



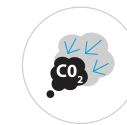
We're on a mission to build a sustainable legacy

It is in our DNA to provide safe, healthy and comfortable spaces throughout the building life cycle using world-leading technology. Driven by a dedication to achieve net zero CO₂ emissions by 2050, we work together with our partners and customers in helping to create a world with healthier indoor air and minimal environmental impact

Our sustainability values

Supporting decarbonisation

Our solutions are designed to **support your sustainable goals by reducing the CO₂ footprint of buildings**, whether they are new builds or renovation.



We continuously develop products with lower CO₂ footprint



We maximise real life seasonal efficiency, delivered in a transparent and trustworthy way



We reuse materials where possible, including refrigerants

A collective journey

Together with our partners and customers, we are working towards the sustainable transformation of our buildings. We provide expert **support and peace of mind** throughout the building life cycle, ensuring **future-proof** solutions for a healthier planet.



We help to make the right choice based on the total lifecycle impact of the solutions



Our team of experts provide in-depth knowledge in the use of EPDs, green building schemes, etc.



AI predictive monitoring of our systems, keeps running costs low and maximises uptime

Building for the future

As market leaders in total solutions, we are constantly **innovating to meet your changing needs** and offer you a comfortable, healthy and safe environment.



With our wide range of reliable solutions, our experts can meet even the most complex demands



Making fresh air supply and filtration an integral part of our solution ensures maximum well being



Our solutions are in line with or ahead of legislation, proving you complete peace of mind



Benefits of R-32

Already used on large scale, R-32 can be implemented today and make a significant step towards decarbonising buildings.

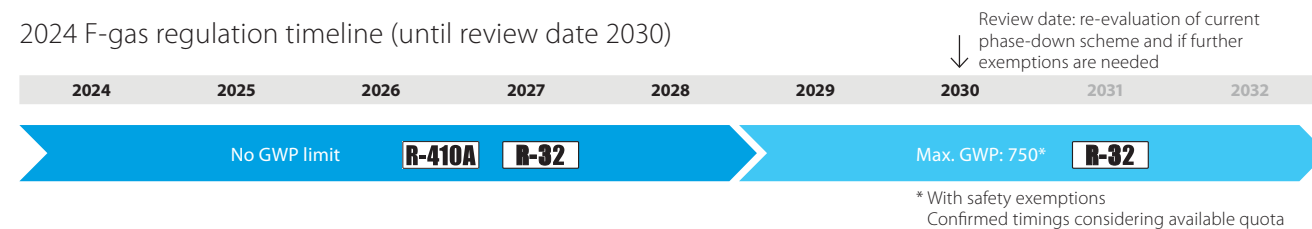
- **Lower Global Warming Potential (GWP):** only 1/3rd of R-410A
- **Lower refrigerant charge:** up to 15% less compared to R-410A
- **Higher energy efficiency,** greatly reducing the indirect CO₂ eq. impact
- **Single component refrigerant,** easy to handle and recycle.



Ahead of the new F-gas regulation

- All VRV 5 investments are fully future-proof, providing the ultimate solution for decarbonising buildings today.

2024 F-gas regulation timeline (until review date 2030)



Servicing of existing equipment remains possible for the entire lifetime of the products

Benefits of VRV systems

VRV systems offer buildings maximum design flexibility, low running costs and high comfort thanks to the advantages of direct expansion (DX) systems:

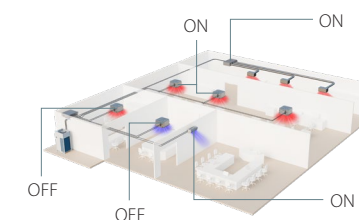
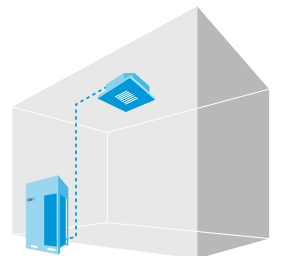
More responsive

- **Immediate reaction** to changing conditions helps avoid overheating
- **Highly efficient:** Only 2 energy transfer steps are needed (from air to refrigerant, and from refrigerant to air)¹



Quick and easy to install:

- **All-in-one box solution** without any requirement for field supplied equipment (e.g. gauges, pumps and valves)
- **Limited space requirements:** All components are integrated, and refrigerant piping is compact



Precise zone control:

- Only provide heating or cooling **where needed**
- **High comfort levels:** Individual control and simultaneous cooling and heating for perfect personal environment

Complete building solution

- Fresh air solution with energy recovery, air purification, humidification and air discharge temperature control
- Smart central control and energy optimisation via the cloud



Decarbonisation made easy



A R-32 system for every VRV application

- Unparalleled outdoor unit range
- 4 different ranges
- Capacity from 12.1 up to 87.5 kW

❄️ 12.1kW ↔ 78.5kW
 ☀️ 14.2kW ↔ 87.5kW



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Top sustainability



Market-leading seasonal efficiency

- SCOP up to 200.5%
- SEER up to 324.5%
- Tested with real life indoor units



Full transparency of total life cycle impact

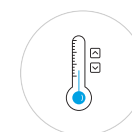
- The available EPD certification outlines the environmental impact of VRV 5 over its lifetime
- Ideal for green building certification



Reduced direct CO₂ impact by 71% compared to R-410A systems

- 68% lower Global Warming Potential
- 15% less refrigerant charge
- Single component refrigerant
- Reduced frequency of F-gas inspections

Ultra-flexible



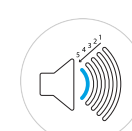
Wide operation range

- Down to -20°C in heating
- Up to +52°C in cooling



Wide piping flexibility to tackle any VRV application

- 165m longest length
- 90m height difference
- 1,000m total length
- Compatible with Tightfit, fireless copper pipe connector



5 low sound steps

- Sound pressure down to 39 dB(A)
- Increased installation space flexibility
- Easier project design
- Meet local noise regulation requirements out-of-the-box



Continuous heating during defrost

- Ideal for monovalent heating
- Available on all multi combination models



Unique Shîrudo Technology provides full peace of mind out of the box



- No need for complex calculations to select safety measures
- No additional installation and commissioning work
- No visual impact of additional sensors etc.
- No additional work and considerations in case of layout changes
- No periodic safety checks

Check out
the Shîrudo Technology
video!



What's included in Shîrudo Technology?

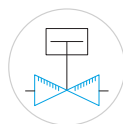
- **Complete peace of mind** as all refrigerant control measures are factory-integrated, ensuring compliance to the IEC60335-2-40 product standard, 3rd party certified by a Notified Body



Leak detection
sensor in every
indoor unit



Audible & visual
alarm in Madoka
controller



Shutoff valves
in the outdoor unit
or SV box



Specially
developed
algorithms

- Full **validation** of your project via our Xpress software

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