

Extending the cloak of invisibility

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Following on from the launch of its VRV IV i-series invisible climate control solution in 2015, Daikin is to expand the range with the addition of the VRV i-series 8HP.

With its unique split-system design and exceptionally small footprint, the introduction of the VRV i-series has seen a rapid adoption by installers looking for a justifiably SMART HVAC solution in demanding city-centre and urban locations. The introduction of an 8HP variant provides all the benefits of market-leading technology for larger commercial buildings.

Unique Design

The VRV i-series remains unique in the market, thanks to its split system design and compact size which enables maximum concealment, making it a winner where building aesthetics are key. The first in its generation, the 5HP version has seen a rapid take-up of 'invisible' installations in small retail and commercial premises.

Its outstanding flexibility in configuration and ease of installation has established the VRV i-series as a preferred solution



with installers and designers working with space limitations, planning or noise restrictions and where speed of completion is commercially desirable.

The lightweight and super-compact compressor unit, which weighs just 77Kg (100kg for 8HP) and measures only 600 x 554mm (760x554mm for 8HP unit) fits easily and unobtrusively into kitchen cupboards, storage rooms or small back office and technical areas offers a low noise solution with operating sound levels of 47dBA (56 for 8HP unit). The compact heat exchanger which is only 400mm high and weighs 97Kg (107kg for 8HP unit) allows concealment in ceiling spaces, hiding the air conditioning system for a more streamlined appearance and freeing up commercial floor space. Already proving a quicker and more cost-effective for installers, the entire system can be transported and installed with only two engineers, without the need for a rooftop or back alley installation or building permit paperwork.

The VRV IV i-series 8HP offers the same advantages in installation and configuration, with the added benefit of increased capacity to meet the needs of larger commercial applications, providing a cooling capacity up to 21.4 kW and maximum heating capacity of 25 kW.

Effectively invisible from the exterior, grilles can be hidden behind façade features such as pediments or logos or even incorporated into the building design while both façade or ducted installation to the front or rear of the building are possible and suitable for a wide range of properties because outdoor installation is not a factor.

With a shorter pipe run requirement, the VRV i-series offers fast, cost-effective installation and avoids disruption to neighbouring buildings. A rotating switch box in the compressor unit gives easy access to all parts from the front of the unit for easy servicing.

Maximum Efficiencies

Delivering the full functionality of a VRV system, the new VRV i-series 8HP offers the highest performance efficiencies available on the market. Incorporating the patented technology unique to Daikin which has established the i-series as the preferred choice for retail and light commercial applications in cities across Europe, the 8HP variant is capable of achieving an EER of 2.80 and COP of 3.60 at nominal conditions

The advanced design of its v-shaped heat exchanger delivers the same efficiency as a mini outdoor unit, while centrifugal fans with their patented curved blade design offer 85% more efficiency in use than standard fans. The new VRV i-series 8HP includes an additional fan, bringing the total to three and ensuring an efficient air flow over the heat exchanger with minimum turbulence.

Incorporated into The new VRV i-series 8HP is the innovative Variable Refrigerant Technology (VRT) developed by Daikin for its new generation VRV IV system. VRT eliminates cold draughts, maintaining a comfortable environment, with a 28% saving in energy cost by continually adjusting the system in line with outside temperatures. The system has been optimised to provide a higher air flow and static pressure, providing superior efficiency compared to a standard outdoor ducted unit.



A Total Solution

The VRV-I series offers a total air-conditioning solution for commercial buildings allowing up to ten VRV indoor units to be connected in combination with Daikin's unique auto cleaning roundflow cassette, air handling and ventilation units and Biddle air curtains for maximum savings and comfort. The stylish touchscreen controller offers a discreet solution, as well as third party integration with fire or security systems as window contacts.

The addition of Daikin's new intelligent Tablet controller offers users complete control over individual energy usage and comfort preferences, that can be managed from a single point on site or remotely on-line. Connection through the Daikin Cloud Service allows installers to troubleshoot remotely and employ preventative maintenance. Users are also supported by Daikin's wide network of after-sales technical support.

A unique offering to customers

The expansion of the VRV i-series underlines Daikin's dedication to improving energy efficiency and comfort in the retail and commercial sectors, offering the latest advances in HVAC technology for buildings previously unable to access the benefits of higher energy efficiencies due to their location and planning constraints. With new applications continuing to emerge, the launch of the VRV IV i-series 8HP offers the same advantages for larger users.

For more information visit www.daikineurope.com/citysecret

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Editors' notes:

About Daikin Europe N.V.

Daikin Europe N.V. is a major European producer of air conditioners, heat pumps and refrigeration equipment, with approximately 5,500 employees throughout Europe and 10 major manufacturing facilities based in Belgium, the Czech Republic, Germany, Italy, Turkey 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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