



New invisible climate control solution for city businesses

Daikin introduces a unique VRV IV heat pump for indoor installation

HVAC manufacturer, Daikin has launched a new VRV solution for banks, retail and other light commercial businesses. The first VRV IV outdoor unit for indoor use, the VRV IV i-series has been developed to meet the specific demands of city and urban locations where space is limited and customers want an invisible air conditioning solution.

Designed to comply with even the most stringent planning permissions and noise regulations, the VRV IV i-series offers installers unparalleled freedom in configuration. Its unique split concept, super-compact dimensions and light weight make it easy to handle with just two people, cost effective to install and invisible, while offering the full functionality of a VRV system, at the highest seasonal efficiency on the market.

Unique split outdoor unit concept

A unique split concept with a separate compressor and heat exchanger allows the VRV IV i-series to be installed discretely indoors and the outside unit to be placed within proximity of the indoor unit, showing only the grilles from the outside.

For maximum concealment, grille units can be hidden behind façade features such as pediments, logo or even incorporated into the building design.

Installation Benefits

Indoor installation offers a far better economical solution than conventional outdoor units, which require expensive sound cages for installation in densely populated areas.

The two-part design and easy system handling eliminates the need for plant lifting into place, making the process both quicker and more cost-effective, enabling new premises



to be fast-tracked. Together with a shorter pipe-run requirement , the new system ensures installation costs are kept to a minimum and cause no disruption to neighboring buildings above.

In addition, a rotating switch box in the compressor unit is tilting, giving full and easy access to all parts from the front of the unit for easy servicing.

Flexibility in configuration

The two part design of the outdoor unit for the new VRV IV i-series offers unrivalled flexibility in configuration and installation. The lightweight and extremely compact compressor unit uses only 600x550mm of floorspace and weighs just 80 Kg. With a very low operating sound of 47dBA, it is designed to fit unobtrusively into small spaces such as a back office, technical areas, storage rooms or kitchen cupboards. The second part, of the unit, the compact heat exchanger, which is only 400mm high weighing 90kg, allows it to be concealed in false ceiling spaces. This conceals the entire air conditioning system, avoiding take up of expensive commercial floor space.

The ESP of the VRV IV i-series inverter fan can easily be adapted to the specific duct length and layout at a certain location, making both façade or ducted installation to the front or rear of the building possible.

Big on performance

The unique design of the VRV IV i-series incorporates a patented V-shaped heat exchanger which delivers the same high efficiency as a mini VRV outdoor unit. In addition, the super-efficient centrifugal fans which have been found to be 85% more efficient than the sirocco fans which are the market standard today, use backward-curved blade technology to ensure an efficient air flow over the heat exchanger with minimal turbulence.

Moreover, the system has been optimised to provide a higher air flow and static pressure and provide an even better efficiency compared to a standard ducted outdoor unit.



Offering the full VRV functionality of larger units, the new units incorporate Daikin's innovative Variable Refrigerant Temperature technology which continually adjust the system in line with outside temperatures, eliminating cold draughts and maintaining a comfortable environment , while reducing energy costs by 28% compared to standard VRV III and VRV IV series.

The VRV IV i-series offers a total air conditioning solution for commercial buildings, when combined with up to ten VRV indoor units, air handling ventilation units and/or an air curtain.

Intelligent control

The new VRV IV i-series features a dedicated control solution which allows multiple units to be controlled from one central location, either on site or remotely. Daikin's intelligent i-Net energy visualization tool provides comprehensive energy management, optimising building energy performance and enabling usage in individual properties to be tracked and compared.

Innovation at its best

As a result of extensive research by Daikin's Development Centre based in Ostend, the new VRV IV i-series offers a comprehensive solution for city centre businesses which underlines Daikin's role as an innovator, dedicated to improving energy efficiency in the retail and commercial sectors.

For more information and guidance or to download a brochure visit

www.daikineurope.com/citysecret

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About Daikin Europe N.V.

Daikin Europe N.V. is a wholly-owned subsidiary of Daikin Industries Limited and a major European producer of air conditioners, heating systems and refrigeration



equipment, with approximately 5,500 employees throughout Europe and 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.