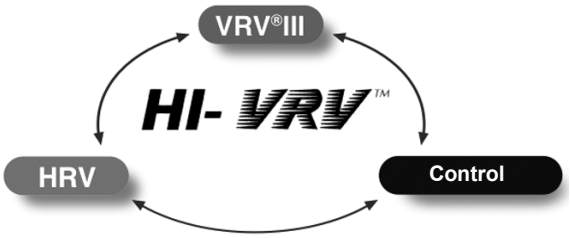
Daikin VRV / Heat Recovery Ventilation

Daikin Hi-VRV

Rising energy and general building services running costs mean that end users expect far more than just cooling and heating from their air conditioning systems. A truly complete and acceptable system therefore, must be energy efficient, economic to run, easy to install, flexible, reliable and user friendly.

Fresh air must also be supplied without increasing energy consumption and intelligent central management and control facilities have gained in importance, particularly for medium to large sized buildings.

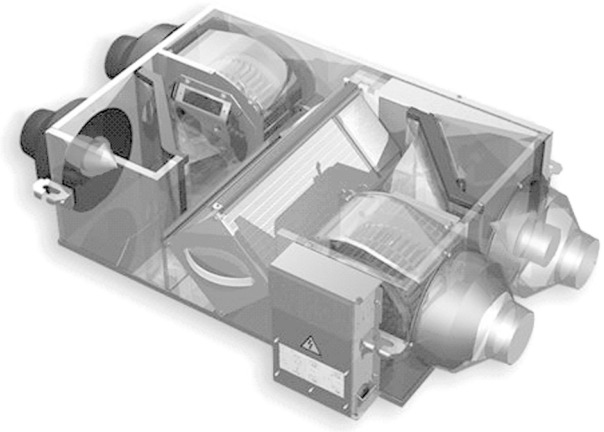
The Daikin Hi-VRV system meets all these requirements. It is a combination of VRV air conditioning and HRV (Heat Recovery Ventilation) operated by Daikin's building management systems such as I-Manager or I-Touch Controller for smaller applications.



Heat Reclaim Ventilation (HRV)

Efficient ventilation is a key element of the Part F building regulations. Daikin's heat recovery ventilation modules can be applied as stand alone units or incorporated within the air conditioning system.

Temperature and humidity are exchanged between the supply and exhaust air, recovering potential energy losses and reducing the air conditioning loads. The HRV modules feature a high efficiency VAM heat exchanger which enables the exchange of both sensible and latent heat energy and substationally increasing the energy transfer capacity. Four models with airflow rates from 350 to 2000 m³/h and optional DX Coil and humidity control are available.



Heat Pump Systems

Daikin split, multi-split and VRV systems can be available for cooling only applications, however heat pump versions are recommended, as these offer both efficient heating and cooling.

Air source heat pumps are classified as LZC (low to zero carbon) renewable technologies, as such they can help in meeting the requirements of Part L Building Regulations and the UK's carbon emission reduction targets.

VRV (Variable Refrigerant Volume) Systems

Daikin's world famous modular VRV heat pump and heat recovery systems can now provide the ultimate in space saving, energy efficient climate control systems for the largest of buildings.

The VRV range includes:

VRV WIII, which uses water (rather than air) as its heat source.

VRVIII-S – a 'mini' VRV system designed to bridge the gap between multi-split systems and the larger VRV systems. Up to 9 indoor fan coil units can be connected to VRVIII-S.

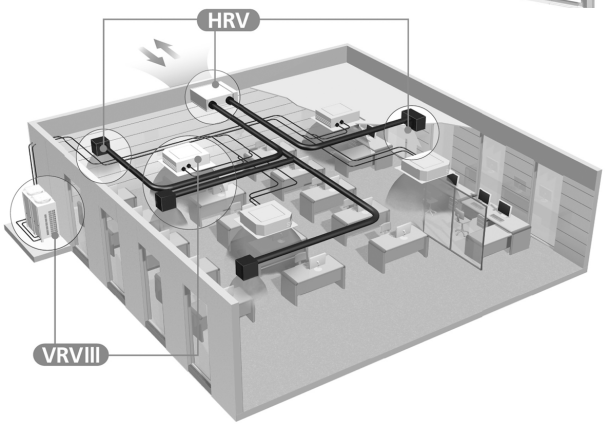
VRVIII and Hi –VRV are really the flagship systems which offer industry leading energy efficiency, great design flexibility, increased capacity, long pipe length capability and fan coil connectivity of up to 64 indoor units per system module. VRVIII features a unique automatic refrigerant charging facility with a built in electronic leak check function.

VRVQ is a new system designed to enable the replacement of old R22 or R407c outdoor and indoor units, whilst retaining the existing interconnecting pipework. VRVQ includes all the features of VRVIII plus a unique system flushing device.

Free Hot Water Production

The REYAQ-P VRV Series also has the capability of providing free hot water.

The remarkable VRV® III air conditioning system

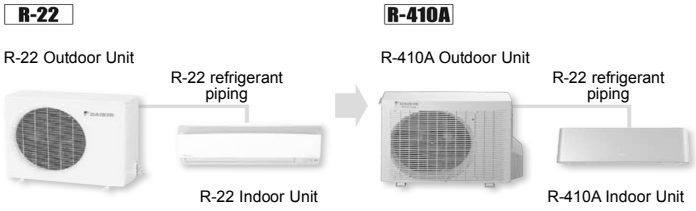


Split & Multi-Split Systems (Air to Air)

Ideal for small to medium sized properties of all types including offices, shops, restaurants, bars, schools or residential. Split and multi-split systems can operate up to five indoor units from a single outdoor cooling only or heat pump unit for year round comfort.

The new self cleaning round flow cassette indoor unit provides 360º air distribution discharge ensuring that there are no dead corners/ temperature differences. The reduced air flow and temperature fluctuations results in fewer on/off cycles providing even further energy savings.

Direct replacement Split Systems using existing R22 Pipework available from Space Air Daikin.



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