



SHAPING THE AIR TO YOUR NEED

VRV® SYSTEMS

R-410A



www.daikin.eu



BENEFITS FOR BUILDING OWNERS

With Daikin's proprietary inverter technology and cutting-edge control technology for refrigerant, the VRV®III air conditioning system operates with outstanding efficiency. This contributes to high energy savings, which **GREATLY REDUCES YOUR RUNNING COSTS** and facilitates better building management.

BENEFITS FOR CONSULTANT AND DESIGN OFFICES

Daikin's VRV® systems include indoor and outdoor units available in a wide range of models for various building sizes and installation conditions. Long refrigerant piping lengths and other features put few restrictions on design for **GREAT FLEXIBILITY** in meeting needs of the building.

BENEFITS FOR INSTALLERS

Daikin offers a compact design for VRV® outdoor units by further optimising equipment functions, exceeding the norm for air conditioning systems. Compact units **FACILITATE INSTALLATION** in limited areas, such as rooftops, and take up less effective space. Easier installation work realises **FAST COMPLETION** with time to spare.

BENEFITS FOR END USERS

To provide a **COMFORTABLE AIR ENVIRONMENT**, Daikin offers air treatment systems beyond mere air conditioning. As well as bringing air to a comfortable temperature, the air quality can be improved with ventilation, humidification, and other processes. **EASE OF USE** is realised through advanced, centralised control systems.



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Daikin Europe N.V.

ABOUT DAIKIN

Daikin has a worldwide reputation based on almost 85 years' experience in the successful manufacture of high quality air conditioning equipment for industrial, commercial and residential use.

Daikin quality

Daikin's much envied quality quite simply stems from the close attention paid to design, production and testing as well as aftersales support. To this end, every component is carefully selected and rigorously tested to verify its contribution to product quality and reliability.

ENVIRONMENTAL AWARENESS

Air Conditioning and the Environment

Air conditioning systems provide a significant level of indoor comfort, making **optimum working and living conditions** possible in the most extreme climates.

In recent years, motivated by a global awareness of the need to reduce the burdens on the environment, Daikin has invested enormous efforts in limiting the negative effects associated with the production and the operation of air conditioners.

Hence, models with **energy saving** features and improved **eco-production** techniques have seen the light of day, making a significant contribution to limiting the impact on the environment.



This sign highlights features where Daikin has invested into technologies to reduce the impact of air conditioning on the environment.

This sign can be found on pages: p 7, 22, 23, 27, 30, 34, 42, 46



VRV®

AN ENERGY EFFICIENT APPROACH

Widely acknowledged as the **most advanced system** of its type on the market, VRV® represents a powerful combination of advanced inverter and heat pump technologies. As a reverse cycle heat pump, it can provide a **complete indoor environment** obviating the need for a separate heating system and offering output efficiency gains of up to 4:1 compared to fossil fuel based heating systems.

VRV® can switch from cooling to heating or supply both at the same time to different parts of a building. In its **heat recovery** format, heat exhausted from indoor units in the cooling cycle is merely transferred to units in areas requiring heat, **maximising energy efficiency**, reducing electricity costs and leading to **partload efficiencies up to 9***.

Cutting edge performance figures such as these are achieved primarily as a result of the system's **inverter** controlled compressor, which modulates refrigerant flow to match required cooling and heating loads at any time. This enables system start up time to set point temperature to be reduced by about 33% and evens out room temperature fluctuations. It also reduces stop/start cycles and regulates power input and operating capacity to suit outdoor temperature variations. In short, it enhances energy efficiency and user comfort, **cuts CO₂ emissions** and returns **energy savings** some 30% greater than can be achieved with fixed speed control systems**.

With the environment in mind

Daikin's well known environmentally aware credentials and strict adherence to 'F' Gas regulations are also reflected in the VRV® capacity for **refrigerant containment** during both charging and system operation. This important facility enables the amount of additional refrigerant charging during commissioning to be controlled automatically. An electronic containment check can also be activated manually by an HVAC technician in less than 30 minutes to ascertain whether any refrigerant has escaped since the previous maintenance check. This ensures against losses in efficiency and resultant increases in consumption and CO₂ emissions.

Leakage prevention is supported by the use of **brazed joints** in place of flanged and flared connections before the shut off valves as well as by brazed pressure sensors and electronic gauges instead of sensors and gauge ports. There is also on average, **10% less refrigerant content** in VRV®III compared to similar sized VRV®II systems.

Finally, considerable attention has been afforded to RoHS regulations concerning phasing out the use of lead, cadmium, hexavalent chromium, mercury, PBBs and PBDEs, including their use in components sourced from outside suppliers.

* REYQ8P8 50% cooling – 50% heating load. Conditions: outdoor temperature 11°CDB, indoor temperature: 18°CWB, 22°CDB.

** Case study Daikin on Sky Air inverter versus non-inverter.

OVER 25 YEARS OF VRV® HISTORY



R-22

The original **VRV®** air conditioning system **developed by Daikin Industries Ltd.** in 1982 is **introduced into Europe** in VRV® standard format. VRV® D series can supply conditioned air from up to 6 indoor units connected to a single outdoor unit.

1987

1991

A further step forward is taken in 1991 with the introduction of the **VRV® heat recovery** system, offering simultaneous cooling and heating from different indoor units on the same refrigeration circuit.



In anticipation of phase out dates for all CFC based equipment, Daikin Europe steps up the production of VRV® air conditioning units using **R-407C**.



R-407C

Daikin Europe celebrates its 25th anniversary with the award of an **ISO14001 environmental certificate** and the introduction of VRV® Inverter K series with R-407C, in cooling only or heat pump format. As many as 16 indoor units can be connected to 1 single outdoor unit.

1994

1998



Consistent high quality and efficiency lead to the widespread acceptance of the VRV® concept and Daikin becomes the first Japanese air conditioning manufacturer to be awarded the **ISO9001** certification. Daikin applies yet another quantum leap to VRV® technology: the VRV® Inverter-H series, operate up to 16 indoor units from just 1 outdoor unit.

The introduction of the **VRV® II-S** series extends VRV® operating scope into the **light commercial** sectors. Available in 4, 5 and 6HP capacities, the system is designed for installation in up to 9 rooms.



2003

2004

R-410A



Daikin introduces the VRV® II, the **world's first R-410A** operated variable refrigerant flow system. Available in cooling only, heat pump and heat recovery versions, the system, which represents a considerable advance over earlier VRV® systems, demonstrates Daikin's

innovative application of new technology. No less than **40 indoor units** in heat recovery as well as heat pump format can be connected to a single refrigerant circuit.

2009

Daikin has extended the VRV[®] range with the re-engineered water cooled VRV[®]-WIII, which is available in 9 different outdoor combinations from 8 to 30HP.

A **geothermal** version is also now available.

This system uses geothermal heat as a **renewable energy** source and can operate down to -10°C in heating mode.



2005



Daikin has extended the operational scope of its acclaimed VRV[®]II inverter driven dx air conditioning system, with a new **water cooled** version, VRV[®]-WII. Available in 10, 20 and 30HP models, the system operates on R-410A refrigerant and is available in both **heat pump** and **heat recovery** versions.

2006-2007



Daikin has announced the third generation of its much acclaimed VRV[®] range with the extensively re engineered **VRV[®]III**. Available in heat recovery, heat pump and cooling versions, VRV[®]III incorporates all the best features of earlier VRV[®] systems. However, it also possesses a considerable number of new design, installation and maintenance refinements as **automatic charging and testing**.

Up to **64 indoor units** can be connected to one system.



2008



Daikin introduces a new heat pump range optimised for heating (VRV[®]III-C). This new range has an **extended operation range down to -25°C** and has a greatly improved COP in low ambient temperatures, with the newly developed 2-stage compressor system.





WHAT IS **Hi-VRV®** ?

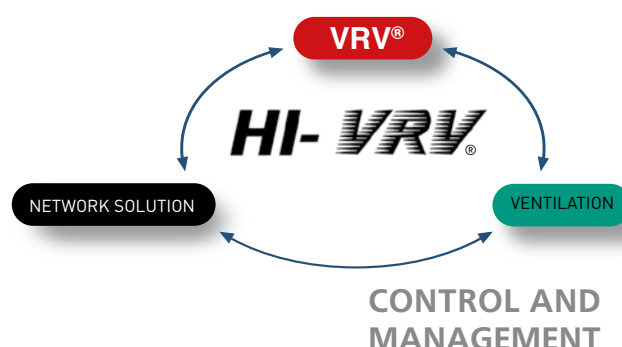
In recent years, design styles for intelligent buildings such as hotels, banks and offices etc. have increasingly featured large areas of glazing with attendant high solar heat gains that can only be dissipated by means of air conditioning. Not surprisingly therefore, air conditioning has grown in importance and is now widely accepted as an integral component of most modern architectural concepts.

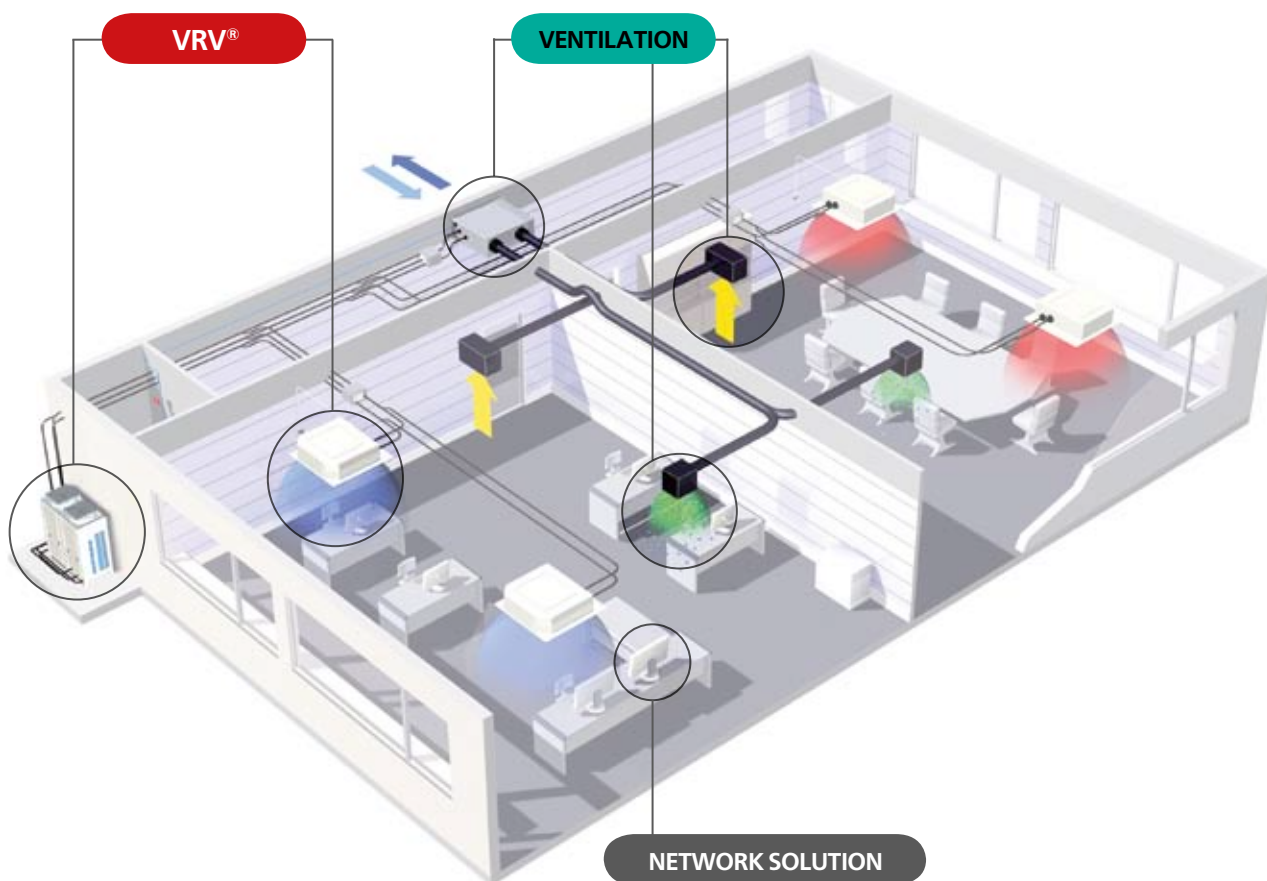
The increasing use of electronic office equipment raises thermal loadings still further to a point whereby, even in winter, internal temperatures can reach uncomfortable levels. The demand for cooling or heating can also vary considerably throughout the day depending on the number and occupation of personnel on the premises. But end users have come to expect far more than just cooling and heating from their air conditioning.

The ideal modern system must be energy efficient, easy to install, flexible, reliable and user friendly. Fresh air must be supplied without increasing energy consumption and the role of central management facilities should also be considered in this respect for medium to large sized buildings. The Daikin Hi-VRV® system meets all these demands.

The innovative Hi-VRV® selection programme, Daikin's flagship software package, enables you to exploit the system's possibilities to the max and guarantees the end user a perfect service. From now on you can fully plan your Daikin air-conditioning project on a step-by-step basis without difficulty.

AIR CONDITIONING





VARIABLE REFRIGERANT VOLUME

- › Available in heat recovery and heat pump formats.
- › A rapid response system in which up to 64 indoor units can operate on the same refrigerant circuit.
- › An inverter driven compressor enables the output of the outdoor unit to be modulated in accordance with the cooling/heating demand of the zone keeps which it controls.
- › The ability to control each conditioned zone keeps VRV® running costs to an absolute minimum.

VENTILATION

Daikin offers a variety of solutions for the provision of fresh air ventilation to offices, hotels, stores and other commercial outlets – each one complementary to and as flexible as the VRV® system itself.

Available systems:

- › Heat reclaim ventilation
- › Outdoor air processing unit
- › VRV® air handling applications

NETWORK SOLUTION

DS-net

Basic solution for control and management of up to 2,000 indoor units (Sky Air and VRV®).

Intelligent touch Controller

Allows detailed and easy monitoring and operation of VRV® systems (maximum 2 x 64 control groups).

Intelligent Manager

The ideal solution for full control and management of maximum 1,024 VRV® indoor units.

BMS-IF

Open network integration of VRV® monitoring and control functions into LonWorks® networks.

BACnet Gateway

Integrated control system for seamless connection between VRV® and BMS systems.

WHICH VRV® OUTDOOR SYSTEM OFFERS ME THE BEST SOLUTION?

AIR COOLED OUTDOOR SYSTEMS

VRV® HEAT RECOVERY:



- › For simultaneous heating and cooling from one system
- › Heat exhausted from indoor units in the cooling cycle is merely transferred to units in areas requiring heat, maximising energy efficiency, reducing electricity costs and leading to high partload efficiencies (up to 9¹).
- › Operation range in cooling down to -20°C (technical cooling)

HIGH COP COMBINATION

- › Top energy efficiency in Daikin heat recovery range

SMALL FOOTPRINT COMBINATION

- › Optimized footprint within heat recovery range

¹ REYQ8P8 50% cooling – 50% heating load. Conditions: outdoor temperature 11°CDB, indoor temperature 18°CWB, 22°CDB.

VRV® HEAT PUMP:



- › For either heating or cooling operation from one system

HIGH COP COMBINATION

- › Top energy efficiency in Daikin heat pump range

VRV® HEAT PUMP OPTIMISED FOR HEATING

- › First system in the industry developed for heating operation at low ambient conditions.
- › Extended operation range for heating down to -25°C
- › Stable heating capacity and high efficiencies at low ambient temperatures (COP > 3 at -10°C outdoor temperature)

SMALL FOOTPRINT COMBINATION

- › Optimized footprint within heat pump range

VRV® HEAT PUMP WITH CONNECTION TO STYLISH INDOOR UNITS

- › Innovative VRV® technology combined with stylish and silent indoor units

VRV®III-S HEAT PUMP

- › Especially designed for small capacities
- › Space saving design

WATER COOLED OUTDOOR SYSTEMS

- › Allows heat recovery within the total building, thanks to the storage of energy in the water circuit.
- › Compact design and stacked configuration possible.
- › Suitable for multi-storey and large buildings because of the hardly unlimited possibilities of water piping.

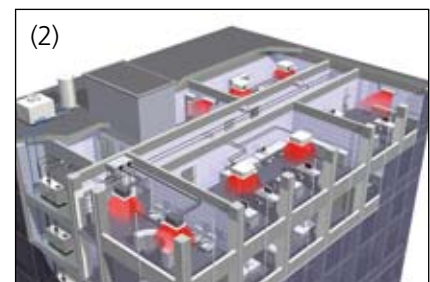
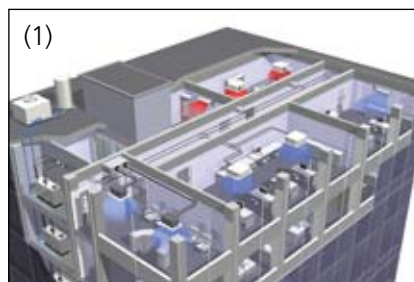
STANDARD SERIES:

VRV®-W HEAT RECOVERY (1):

- › For simultaneous heating and cooling from one refrigerant system

VRV®-W HEAT PUMP (2):

- › For either heating or cooling operation from one refrigerant system













NEW >>>

GEOHERMAL SERIES:

- › No need for an external heating or cooling source
- › Heating with ground sourced water as a renewable energy source
- › Extension of the operation range of inlet water temperature down to -10°C in heating mode
- › Available in heat recovery and heat pump format



OVERVIEW OUTDOOR UNIT RANGE

| System | Type | Product name | | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | |
|------------------------------------|-------------------------------|--|---|------|------|------|------|------|------|------|------|------|--|
| AIR COOLED | HEAT RECOVERY | REYHQ-P High COP combination |  | | | | | | | | | | |
| | | REYQ-P8/P9 Small footprint combination |  | | | | | | | | | | |
| | HEAT PUMP | RXYHQ-P8 High COP combination |  | | | | | | | | | | |
| | | RTSYQ-P Heat pump optimised for heating |  | | | | | | | | | | |
| | | RXYQ-P(A)/P8(A) Small footprint combination |  | | | | | | | | | | |
| | | RXYQ-PR Heat pump with connection to stylish indoor units |  | | | | | | | | | | |
| | | RXYSQ-PAV VRV®III-S (Single phase) |  | | | | | | | | | | |
| | | RXYSQ-PAY VRV®III-S (Three phase) |  | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Cooling capacity (kW) ¹ | | | | 11.2 | 14.0 | 15.5 | 22.4 | 28.0 | 33.5 | 40.0 | 45.0 | 49.0 | |
| Heating capacity (kW) ² | | | | 12.5 | 16.0 | 18.0 | 25.0 | 31.5 | 37.5 | 45.0 | 50.0 | 56.5 | |
| WATER COOLED | STANDARD SERIES H/R - H/P | RWEYQ-P |  | | | | | | | | | | |
| | GEOHERMAL SERIES H/R - H/P | NEW >>> RWEYQ-PR |  | | | | | | | | | | |
| Cooling capacity (kW) ³ | | | | | | | 22.4 | 26.7 | | | 44.8 | 49.1 | |
| Heating capacity (kW) ⁴ | | | | | | | 25.0 | 31.5 | | | 50.0 | 56.5 | |
















- Nominal cooling capacities are based on : indoor temperature : 27°CDB, 19°CWB, inlet water temperature : 30°C, equivalent refrigerant piping : 7.5m, level difference : 0m.
- Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping : 7.5m, level difference : 0m.
- Nominal cooling capacities are based on: indoor temperature : 27°CDB, 19°CWB, inlet water temperature : 30°C, equivalent refrigerant piping : 7.5m, level difference : 0m
- Nominal heating capacities are based on: indoor temperature : 20°CDB, inlet water temperature : 20°C, equivalent refrigerant piping : 7.5m, level difference : 0m



| | | | | | | | | | | | | | | | | | Capacity (HP) |
|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|
| 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 | 50 | 52 | 54 |
| | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | |
| 55.9 | 61.5 | 67.0 | 71.4 | 77.0 | 82.5 | 89.0 | 94.0 | 98.0 | 105.0 | 111.0 | 116.0 | 120.0 | 126.0 | 132.0 | 138.0 | 143.0 | 147.0 |
| 62.5 | 69.0 | 75.0 | 81.5 | 88.0 | 94.0 | 102.0 | 107.0 | 113.0 | 119.0 | 126.0 | 132.0 | 138.0 | 145.0 | 151.0 | 158.0 | 163.0 | 170.0 |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 53.4 | | 67.2 | 71.5 | 75.8 | 80.1 | | | | | | | | | | | | |
| 63.0 | | 75.0 | 81.5 | 88.0 | 94.5 | | | | | | | | | | | | |

OVERVIEW INDOOR UNIT RANGE

VRV® air conditioning brings summer freshness and winter warmth to offices, hotels, department stores and many other commercial premises. It enhances the indoor environment and creates a basis for increased business prosperity and whatever the air conditioning requirement, a Daikin indoor unit will provide the answer. VRV® air conditioning can be supplied via **26 different indoor unit models in a total of 110 variations.**

| | | | | Capacity | | | | | | | | | | | |
|------------------------------------|--|----------------------|---|----------|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| Type | Model | Product name | | 20 | 25 | 32 | 40 | 50 | 63 | 71 | 80 | 100 | 125 | 200 | 250 |
| CEILING MOUNTED CASSETTE | Roundflow ceiling mounted cassette | FXFQ-P8 |  | | | | | | | | | | | | |
| | 4-way blow ceiling mounted cassette | FXZQ-M9 |  | | | | | | | | | | | | |
| | 2-way blow ceiling mounted cassette | FXCQ-M8 |  | | | | | | | | | | | | |
| | Ceiling mounted corner cassette | FXKQ-MA |  | | | | | | | | | | | | |
| CONCEALED CEILING | Small concealed ceiling unit | FXDQ-M9 |  | | | | | | | | | | | | |
| | Slim concealed ceiling unit | FXDQ-PB |  | | | | | | | | | | | | |
| | Slim concealed ceiling unit | FXDQ-NB |  | | | | | | | | | | | | |
| | Inverter driven concealed ceiling unit | FXSQ-P |  | | | | | | | | | | | | |
| | Inverter driven concealed ceiling unit | FXMQ-P |  | | | | | | | | | | | | |
| | Large concealed ceiling unit | FXMQ-MA ³ |  | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| WALL MOUNTED | Wall mounted unit | FXAQ-MV |  | | | | | | | | | | | | |
| CEILING SUSPENDED | Ceiling suspended unit | FXHQ-MA |  | | | | | | | | | | | | |
| | 4-way blow ceiling suspended unit | FXUQ-MA |  | | | | | | | | | | | | |
| FLOOR STANDING | Floor standing unit | FXLQ-MA |  | | | | | | | | | | | | |
| | Concealed floor standing unit | FXNQ-MA |  | | | | | | | | | | | | |
| Cooling capacity (kW) ¹ | | | | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | 8.0 | 9.0 | 11.2 | 14.0 | 22.4 | 28.0 |
| Heating capacity (kW) ² | | | | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 | 9.0 | 10.0 | 12.5 | 16.0 | 25.0 | 31.5 |

¹ Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m.












² Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m

³ Not connectable to VRV®III-S (RXYSQ-PAV, RXYSQ-PAY)

⁴ The indoor units in the table above are not connectable to RXYQ-PR













Capacity

| Type | Model | Product name | | 20 | 25 | 35 | 42 | 50 | 60 | 71 |
|--------------------------|--|------------------|---|----|----|----|----|----|----|----|
| CEILING MOUNTED CASSETTE | Roundflow ceiling mounted cassette | FCQ-C |  | | | | | | | |
| | 4-way blow ceiling mounted cassette | FFQ-B |  | | | | | | | |
| CONCEALED CEILING | Small concealed ceiling unit | FDBQ-B |  | | | | | | | |
| | Slim concealed ceiling unit | FDXS-E/C |  | | | | | | | |
| | Inverter driven concealed ceiling unit | FBQ-C |  | | | | | | | |
| WALL MOUNTED | Wall mounted unit | FTXG-E CTXG-E |  | | | | | | | |
| | Wall mounted unit | FTXS-G |  | | | | | | | |
| | Wall mounted unit | FTXS-F |  | | | | | | | |
| CEILING SUSPENDED | Ceiling suspended unit | FHQ-B |  | | | | | | | |
| FLOOR STANDING | Floor standing unit | FVXS-F |  | | | | | | | |
| | Flexi type unit | FLXS-B |  | | | | | | | |

¹ The indoor units in the table above are only connectable to RXYQ-PR



OVERVIEW VENTILATION RANGE

| Type | name | Components of indoor air quality | | 0 | 200 | 400 | 600 | 800 | 1,000 | 1,500 | 2,000 | 5,000 | 10,000 | 15,000 |
|---|--------------------|---|---|---|-----|-----|-----|-----|-------|-------|-------|-------|--------|--------|
| HEAT RECLAIM VENTILATION ¹ | VAM-FA |  1 Ventilation |  | | | | | | | | | | | |
| | VKM-GM |  1 Ventilation 2 Humidification 3 Air processing |  | | | | | | | | | | | |
| | VKM-G |  1 Ventilation 3 Air processing |  | | | | | | | | | | | |
| OUTDOOR AIR PROCESSING UNIT ² | FXMQ-MF |  1 Ventilation 3 Air processing |  | | | | | | | | | | | |
| VRV [®] AIR HANDLING APPLICATIONS ³ | RXQ-P(A) + EXV-kit |  1 Ventilation 3 Air processing |  | | | | | | | | | | | |

¹ VKM-GM and VKM-G are not connectable to RXYQ-PR

² Not connectable to RXYQ-PR and VRV[®]III-S (RXYSQ-PAV, RXYSQ-PAY)

³ Only for cooling only outdoor unit (RXQ-P(A))

⁴ Air processing refers to active cooling or heating of fresh air

⁵ The ventilation range is not connectable to RXYQ-PR

OVERVIEW NETWORK SOLUTIONS

| | Control | | | | Monitoring | | | | | | | | Options | | | | Other control functions | | | | | | | | | |
|------------------------------|--|----------------------|-------------------------|-----------------------------|---|-------------------------------|------------------|-------------------|--------------|------------------------------|-----------------------|------------------|---------------|-----|---------------------|-------------|-------------------------|-----------------------|-------------------------------|---------------------|--|-------------------------|---|-------------------------------|-------------------|---------------------|
| | Basic control functions: ON/OFF, temp. Setting, air flow settings | Automatic changeover | Weekly schedule control | Fire emergency stop control | Basic monitoring functions: ON/OFF status, operation mode, set point temp. | Indication filter replacement | Malfunction code | Password security | Touch screen | Daily/monthly/yearly reports | Communication via gsm | Graphical report | Visualisation | Ppd | Web acces & control | Http option | Eco mode | Pre cooling / heating | 0°△ Between cooling & heating | Power limit control | Sliding t° avoids overcooling via sensor | Free cooling changeover | ACN55 connection air conditioning network service system | Scheduling presets (programs) | User friendliness | Max. Indoors groups |
| DS-NET | | | | | | | | | | | | | + | | | | | | | | | | | | + | 4x10 |
| INTELLIGENT TOUCH CONTROLLER | | | | | | | | | | | | | ++ | | | | | | | | | | | 8 | +++ | 2x64 |
| INTELLIGENT MANAGER | | | | | | | | | | | | | +++ | | | | | | | | | | | 128 | +++ | 1024 |
| DMS-IF ¹ | | | | | | | | | | | | | | | | | | | | | | | | | | 64 |
| BACNET ² | | | | | | | | | | | | | | | | | | | | | | | | | | 4x64 |

¹ Gateway for Lonworks networks

² Gateway for BACnet networks



POWERFUL SELECTION PROGRAMMES

1. VRV® PRO, DESIGN TOOL

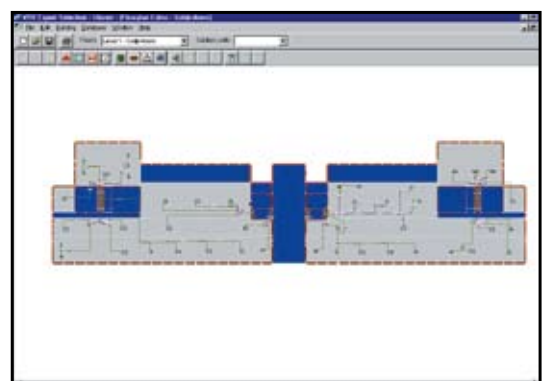
FEATURES:

The VRV® Pro selection programme is a true VRV® design tool. The programme enables VRV® air conditioning systems to be engineered in a precise and economical way, taking into account the complex piping rules. Moreover, it ensures optimum operating cycles and maximum energy efficiency. In this way, it gives the designer the possibility to make accurate selections and get competitive quotations for each project. The programme offers two separate modes, Quick and Expert, according to the project information that is already available.

1. VRV® Pro Quick: With a limited number of building properties, this mode allows to design the piping system using the available load calculation that was obtained from another party.

2. VRV® Pro Expert: To be able to make an accurate load calculation, a more extensive number of building properties is needed. After this calculation, the appropriate units are selected and a temperature simulation can be done. Next to the detailed report, there is a lot of additional, valuable information in the programme about energy consumption, related electricity expenses and behaviour of the VRV® System.

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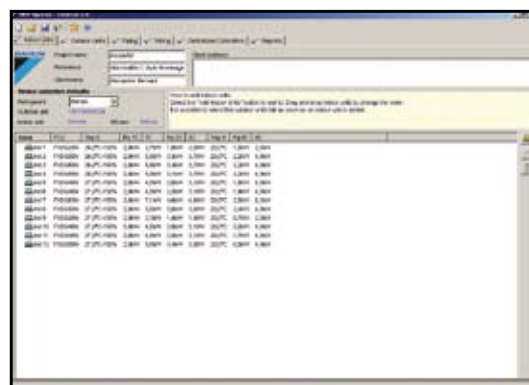




2. VRV® XPRESS, QUICK QUOTATION TOOL

VRV® Xpress is a software tool that allows creating on the spot quotations for a Daikin VRV® System. It provides a result in 7 steps to enable a professional budget quotation:

1. Select indoor units
2. Connect outdoor units to indoor units
3. Automatic generation of piping diagram with joints
4. Automatic generation of wiring diagram
5. Select possible centralised control systems
6. Visualise result in MS Word, MS Excel and AutoCAD
7. Save project



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The Daikin Europe Academy offers specialised training courses to teach designers how to work with VRV® Pro. After this training, all attendees receive a renewable licence for 1 year. For more information about these trainings and to get your free copy of VRV® Xpress, please contact the local Daikin representative or go to the Daikin Europe Extranet.

AIR COOLED VRV® OUTDOOR SYSTEMS

Air cooled VRV® air conditioning was introduced to Europe by Daikin in 1987 and since then has undergone considerable development in performance, capacity, energy efficiency and environmental acceptability. Internationally regarded as one of the most **SOPHISTICATED AND VERSATILE** system of its type on the market, VRV® has in fact, become the benchmark for technologically advanced, high efficiency commercial and industrial air conditioning.

Available in third generation, heat recovery, heat pump, cold climate and mini versions, the VRV® system is **EXTREMELY FLEXIBLE** with an operational capacity range of 5 to 54HP (heat pump small footprint combination) and 8 to 48HP (heat recovery small footprint combination) in capacity increments of just 2HP. VRV® system versatility is also underlined by its operating temperature ranges of -5°C to 46°C in cooling (VRV®III-S) and -25°C to 15°C in heating (VRV®III-C).



VRV® HEAT RECOVERY -
HIGH COP AND SMALL FOOTPRINT COMBINATION



VRV® HEAT PUMP
WITH CONNECTION TO STYLISH INDOOR UNITS



VRV® HEAT PUMP HIGH COP COMBINATION



VRV®III-S HEAT PUMP



VRV® HEAT PUMP OPTIMISED FOR HEATING



VRV® HEAT PUMP SMALL FOOTPRINT COMBINATION

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VRV® HEAT RECOVERY - HIGH COP AND SMALL FOOTPRINT COMBINATION

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VRV® HEAT PUMP HIGH COP COMBINATION

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VRV® HEAT PUMP OPTIMISED FOR HEATING

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VRV® HEAT PUMP SMALL FOOTPRINT COMBINATION

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VRV® HEAT PUMP WITH CONNECTION TO STYLISH INDOOR UNITS

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VRV®III-S HEAT PUMP

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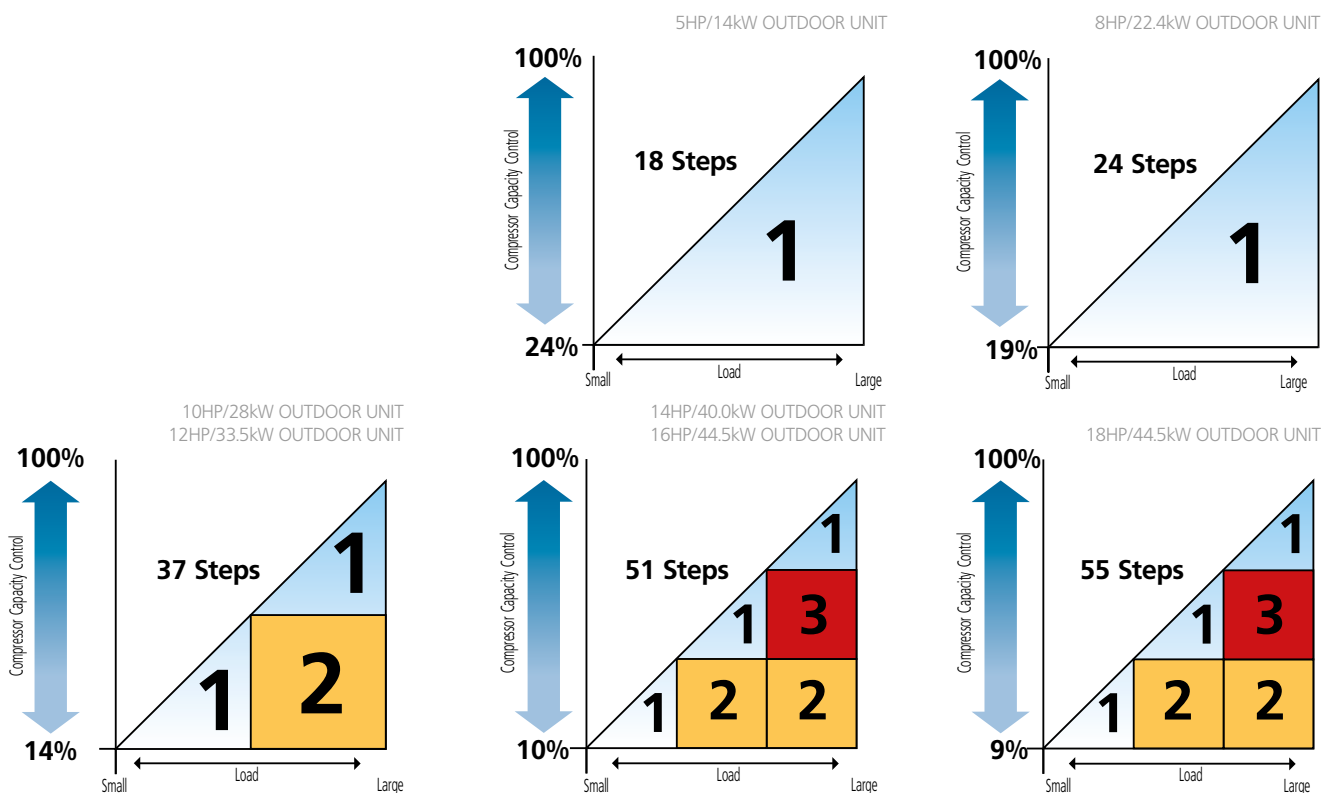


BENEFITS FOR BUILDING OWNERS



INVERTER TECHNOLOGY

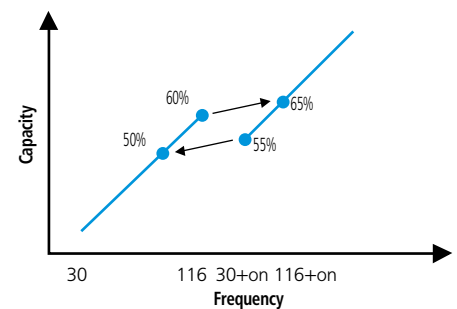
The linear VRV® system makes use of a variable Proportional Integral (PI) control system which uses refrigerant pressure sensors to give added control over inverter and ON/OFF control compressors in order to abbreviate control steps into smaller units to provide precise control in both small and larger areas. This in turn enables individual control of up to 64 indoor units of different capacity and type at a ratio of 50~130 % in comparison with outdoor units capacity. 5HP outdoor units use inverter control compressors only. VRV® systems have low running costs because it permits each zone to be controlled individually. That is, only those rooms that require air conditioning will be heated or cooled, while the system can be shut down completely in rooms where no air conditioning is required.





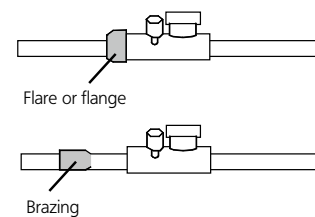
LESS FREQUENT START/STOP CYCLE

- › The technique adopted by Daikin, of regulating the capacity using multiple compressors clearly results in minimum switching losses and power surges because of the overlap in capacity and frequency.
- › Since Daikin utilises small 5HP inverter compressors, the influence of harmonics is less than that generated by a single large compressor
- › The use of multiple compressors by Daikin also ensures a 50% standby facility.
- › Smaller compressors are cheaper and faster to replace.



ONLY BRAZED CONNECTIONS

All flange and flare connections inside the unit have been replaced by brazing connections to ensure improved refrigerant containment. Also the connection of the outdoor in the main pipe is brazed.



ROHS COMPLIANCE

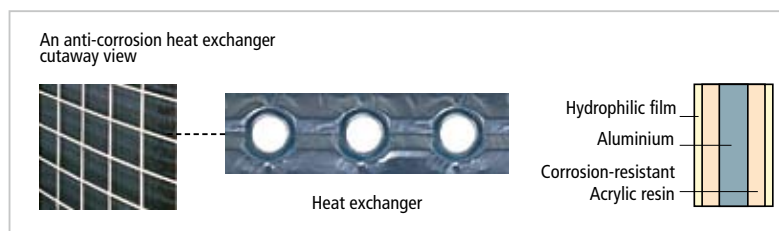
Restriction of Hazardous Substances in electrical and electronic equipment (2002/95/EC).

Hazardous substances include Lead (Pb), Cadmium (Cd), Hexavalent Chromium (Cr6+), Mercury (Hg), Polybrominated biphenyls (PBB), Polybrominated diphenylether (PBDE).

Although RoHS regulations are only applicable to small and large household equipment, Daikin environmental policy nevertheless ensures that VRV® will be totally in line with RoHS.

ANTI CORROSION TREATMENT

Special anti corrosion treatment of the heat exchanger provides 5 to 6 times greater resistance against acid rain and salt corrosion. The provision of rust proof steel sheet on the underside of the unit gives additional protection.



Improvement in corrosion resistance

Corrosion resistance rating

| | Non-treated | Anti-corrosion treated |
|----------------|-------------|------------------------|
| Salt corrosion | 1 | 5 to 6 |
| Acid rain | 1 | 5 to 6 |

Performed tests:

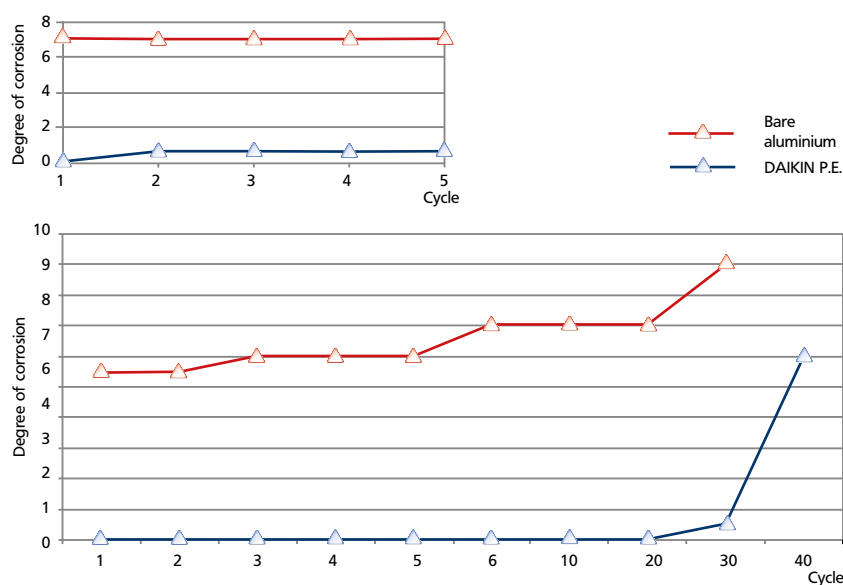
VDA Wechseltest

Contents of 1 cycle (7 days):

- › 24 hours salt spray test SS DIN 50021
- › 96 hours humidity cycle test KFW DIN 50017
- › 48 hours room temperature & room humidity testing period: 5 cycles

Kesternich test (SO₂)

- › contents of 1 cycle (48 hours) according to DIN50018 (0.21)
- › testing period : 40 cycles



DUTY CYCLING

The cyclical start-up sequence of multiple outdoor units systems equalized compressor duty and extends operating life.

Multiple outdoor units systems



SEQUENTIAL START

Up to 3 outdoor units can be connected to 1 power supply and can be turned on sequentially. This allows the number of breakers and their capacities to remain small and simplifies wiring (for models of 10HP or less).



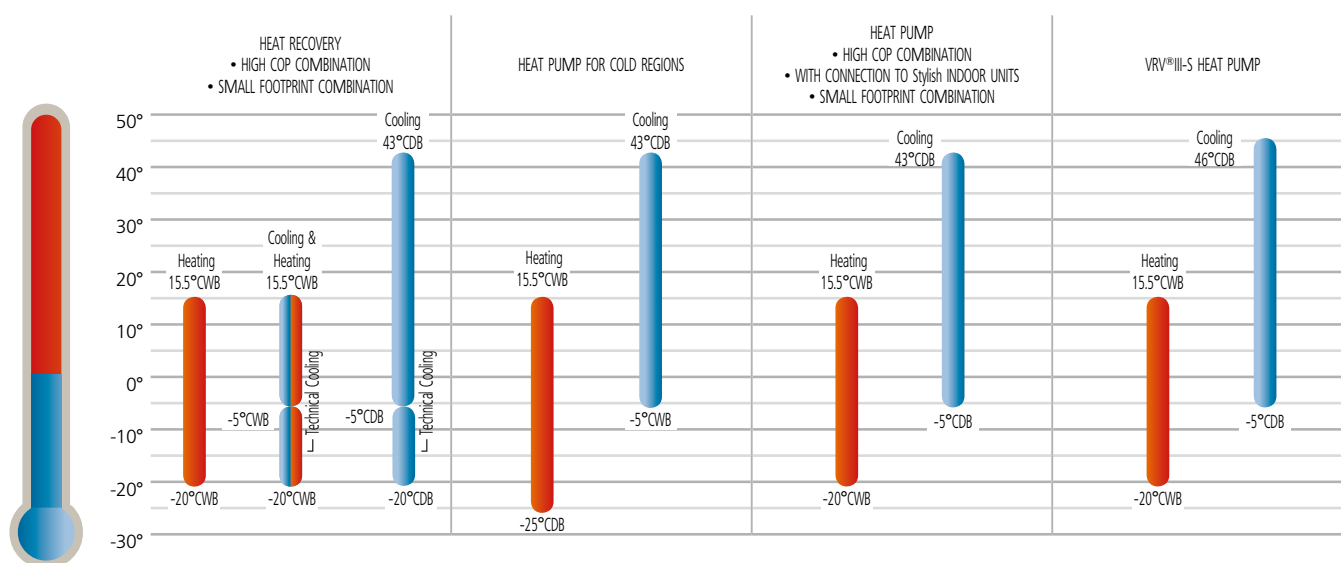
BENEFITS FOR DESIGN OFFICES AND CONSULTANTS

WIDE OPERATION RANGE

The VRV® system can be installed practically anywhere.

Advanced PI control of the outdoor unit enables VRV® series to operate at outdoor ambients up to 43°C (VRV®III-S up to 46°C) in cooling mode and down to -20°C (VRV®III-C down to -25°C) in heating mode.

With the technical cooling function the operation range in cooling of the heat recovery system is extended from -5°C to -20°C¹.



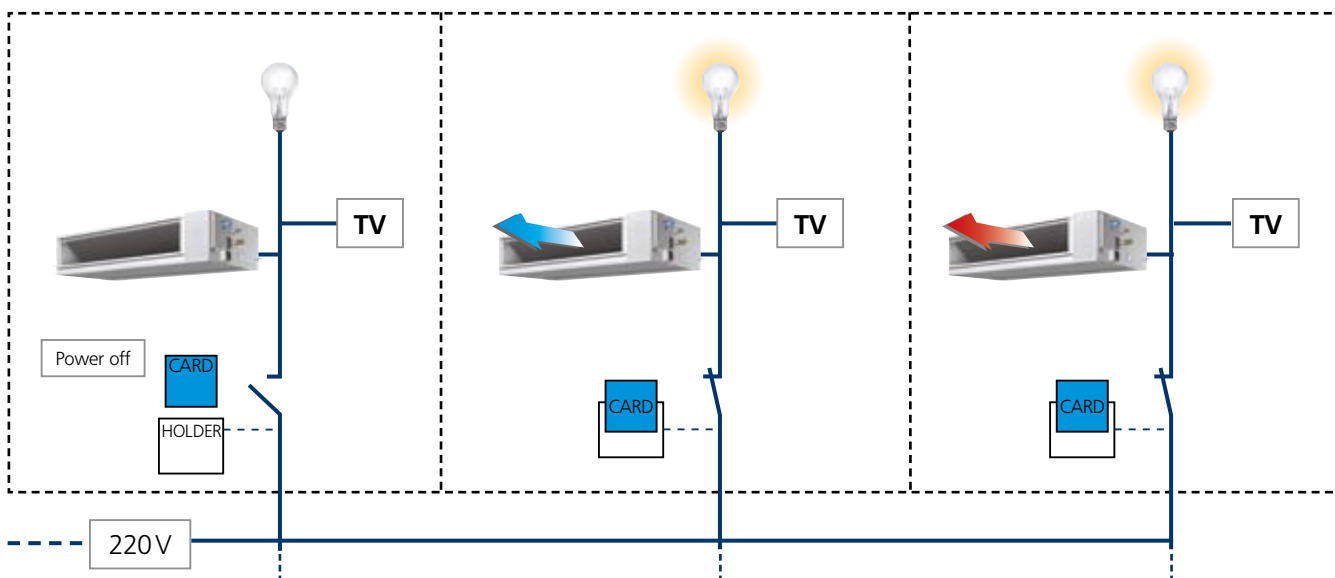
¹ Contact your local dealer for more information and restrictions

MULTI TENANT FUNCTION

This function ensures that the entire VRV® system does not shut down when the main power supply of an indoor is switched off. This means that the indoor unit's main fuse can be turned off when leaving a hotel room, when a part of the office building is on holidays,...

* This option is available on the following indoor units: FXFQ-P8, FXZQ-M9, FXDQ-M9, FXDQ-PB, FXDQ-NB, FXSQ-P, FXMQ-P, FXAQ-MV
Consult the accessories table of the indoor units on necessary options.

Typical hotel application



NO STRUCTURAL REINFORCEMENT NECESSARY

Thanks to the vibration-free and sufficient light (max. 585kg for a 18HP unit) construction of the outdoor units, floors do not need to be reinforced, reducing the overall cost of the building.





BENEFITS FOR INSTALLERS



REFRIGERANT CONTAINMENT CHECK ¹

The refrigerant volume of the complete system is calculated from the following data:

- › outdoor temperature
- › reference system temperatures
- › reference pressure temperatures
- › refrigerant density
- › types and number of indoor units

When activating the refrigerant containment check, the unit switches into cooling mode and duplicates certain reference conditions based on memory data. The result indicates whether or not refrigerant leakage has occurred.

¹ Not available on VRV® heat pump with connection to stylish indoor units and VRV®III-S



REFRIGERANT RECOVERY FUNCTION

The refrigerant recovery function enables all expansion valves to be opened. In this way the refrigerant can be drained from the piping system.

SHORT INSTALLATION TIME

Thanks to small refrigerant pipes and REFNET piping options, the VRV® piping system can be installed very easily and quickly.

Installation of the VRV® system can also be implemented floor by floor, so that sections of the building can be put into use very quickly, or enabling the air conditioning system to be commissioned and operated in stages, rather than on final completion of the project.

AUTOMATIC CHARGE FUNCTION

Conventional Way:

1. calculation of additional refrigerant charging volume
2. charging the unit with additional refrigerant
3. measuring the weight of the cylinder
4. judgment based on pressure (test operation)



VRV®

With VRV® however, these 4 steps are omitted since the VRV® unit can be charged automatically with the necessary amount of refrigerant via a push button on the PCB. Automatic charging will cease once the appropriate amount of refrigerant has been transferred.

If temperature drops below 20°C* manual charging is necessary. After having switched to heating and once the indoor temperature rises above 20°C*, push the auto charge button to activate auto charge function. Refrigerant containment is only available after performing the automatic charge function.

*10°C for heat pump for cold regions

*Function not available on VRV® heat pump with connection to stylish indoor units

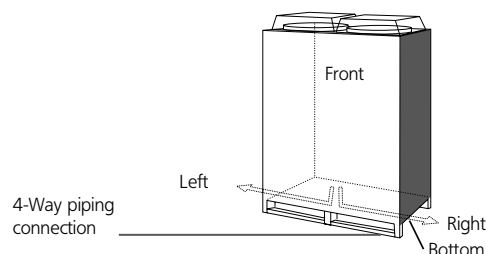
AUTOMATIC TEST

When refrigerant charging has ceased, pushing the test operation button on the PCB will initiate a check on the wiring, shut off valves, sensors and refrigerant volume. This test ceases automatically when completed.

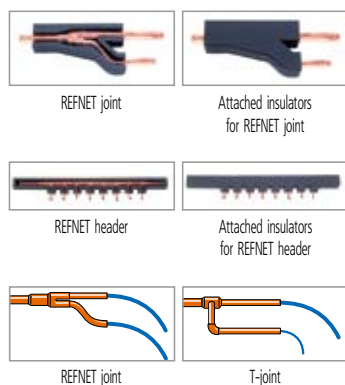
REFRIGERANT PIPING

4-way piping connection

VRV® series not only offer the possibility to run piping from the front, but also from the left, right or bottom, thus providing greater freedom of layout.



UNIFIED REFNET PIPING



The unified Daikin REFNET piping system is especially designed for simple installation.

The use of REFNET piping in combination with electronic expansion valves, results in a dramatic reduction in imbalance in refrigerant flowing between indoor units, despite the small diameter of the piping.

REFNET joints and headers (both accessories) can cut down on installation work and increase system reliability.

Compared to regular T-joints, where refrigerant distribution is far from optimal, the Daikin REFNET joints have specifically been designed to optimise refrigerant flow.

MODULAR DESIGN

Modular design enables units to be joined together in rows with an outstanding degree of uniformity.

The design of the outdoor units is sufficiently compact to allow them to be taken up to the top of a building in a commercial elevator, overcoming site transportation problem, particularly when outdoor units need to be installed on each floor.

"SUPER WIRING" SYSTEM

Simplified wiring

A Super Wiring system is used to enable the shared use of wiring between indoor units, outdoor units and the centralised remote control.

This system makes it easy for the user to retrofit the existing system with a centralised remote control, simply by connecting it to the outdoor units.

Thanks to a non polarity wiring system, incorrect connections become impossible and installation time is reduced.

Furthermore, outdoor units have power connection outlets on side and front, resulting in easier installation and maintenance and saving space when rows of units are connected together.



Cross wiring check

The cross wiring check facility available on the VRV® is the first of its type in the industry to warn operatives of connection errors in inter unit wiring and piping. This function identifies and alerts system errors by means of on/off LEDs on the outdoor unit's PC boards.

Auto Address Setting Function

Allows wiring between indoor and outdoor units, as well as group control wiring of multiple indoor units, to be performed without the bothersome task of manually setting each address.

EASY MAINTENANCE

Self Diagnostic Function

This function operated via push button on the PCB, speeds up troubleshooting and should be used for start-up and maintenance. Disconnected thermistors, faulty solenoid valves or motor operated valves, compressor malfunctions, communication errors, etc can be diagnosed quickly.

Automatic Information Storage

During unit operation, storage of data from the last 5 minutes occurs automatically. In cases of malfunction, analysis of data from the last 5 minutes will be carried out to identify the location of the problem and cause of malfunction. Measures to eliminate the cause of malfunction then be implemented.



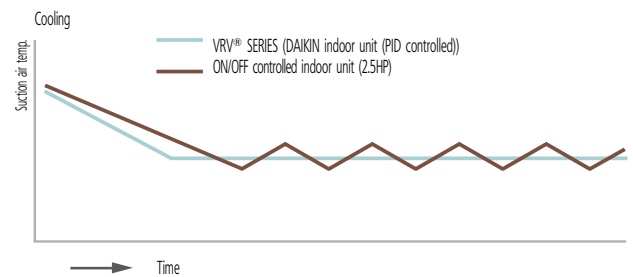


BENEFITS FOR END USERS



SMART CONTROL BRINGS COMFORT

An electronic expansion valve, using PID control, continuously adjusts the refrigerant volume in response to load variations of the indoor units. The VRV® system thus maintains comfortable room temperatures at a virtually constant level, without the temperature variations typical of conventional ON/OFF control systems.



Note: the graph shows the data, measured in a test room assuming actual heating load.

The thermostat can control stable room temperature at $\pm 0.5^{\circ}\text{C}$ from set point.

BACK-UP FUNCTION

In the event of a compressor malfunction, the remotely controlled or field set back-up function in the outdoor unit in question (and also between different outdoor units) will allow emergency operation of another compressor in order to maintain 8 hour maximum interim capacity.

*only possible in case the system has multiple compressors



LOW INDOOR UNIT OPERATION SOUND LEVEL

- Continuous research by Daikin into reducing operation sound levels has resulted in the development of a purpose designed inverter scroll compressor and fan.
- Daikin indoor units have very low sound operation levels, down to 25dB(A).

| dB(A) | Perceived loudness | Sound |
|-------|----------------------|---------------------|
| 0 | Threshold of hearing | - |
| 20 | Extremely soft | Rustling leaves |
| 40 | Very soft | Quiet room |
| 60 | Moderately loud | Normal conversation |
| 80 | Very loud | City traffic noise |
| 100 | Extremely loud | Symphonic orchestra |
| 120 | Threshold of feeling | Jet taking off |

Daikin indoor units

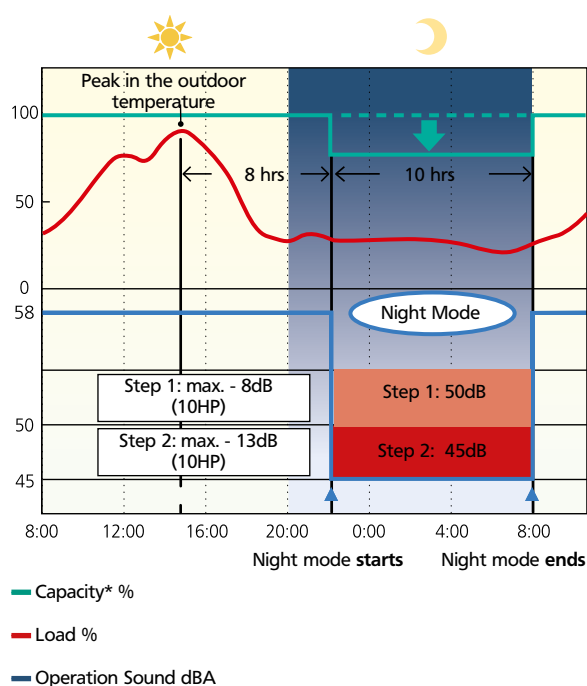
SILENT MODE

Outdoor Units

Quietness is another important feature. To reduce noise and ensure comfortable operation, the latest technologies and features have been applied to the outdoor units.

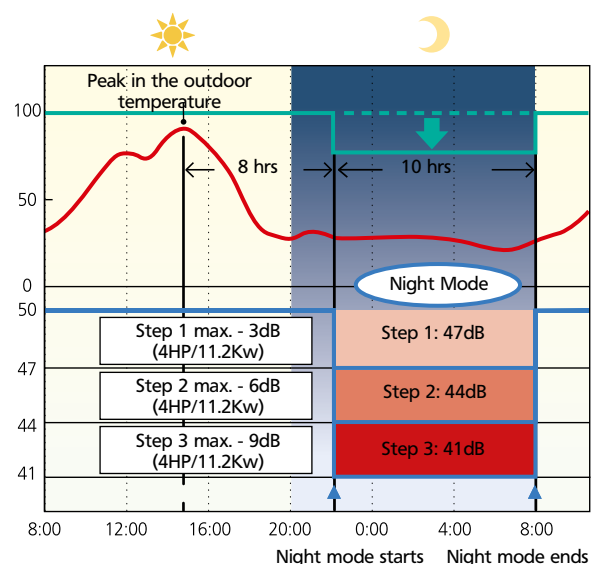
VRV® air cooled units

Night quiet function (max. -8dBA)



VRV®III-S air cooled units

Daikin indoor units operate at sound levels as low as 25 dBA
Night quiet function (max. -8dBA)



Notes:

This function is available for on site setting.

The relationship between outdoor temperature (load) and time shown in the graph is merely an example.

During the night the sound level of the outdoor unit can be reduced for a certain period: starting time and ending time can be put in 2 modes¹ with low sound level at night:

Mode 1 Automatic mode

Set on the outdoor PCB. Time of maximum temperature is memorised. The low operating mode will become active 8 hours² after the peak temperature in the daytime and operation will return to normal after 10 hours³.

Mode 2 Customized mode

Starting and ending times can be put in. (External control adapter for outdoor unit, DTA104A61 or DTA104A62 and a separately ordered timer are necessary.)

Notes:

¹ Determine which mode to select depending on the climatic characteristics of each country.

² Initial setting. Can be selected from 6, 8 and 10 hours.

³ Initial setting. Can be selected from 8, 9 and 10 hours.

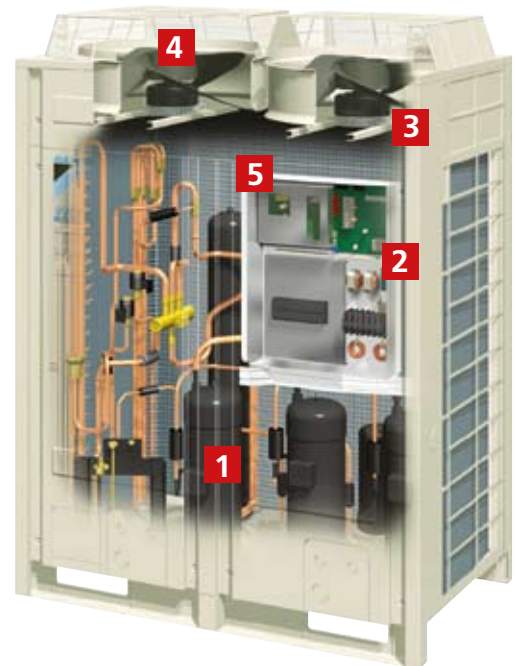
Effect on capacity (cooling) when using silent mode

| | Soundlevel | | 5HP | 8HP | 10HP | 12HP | 14HP | 16HP | 18HP |
|--------|------------|---------------|------|------|------|------|------|------|------|
| Step 1 | 50dB | Capacity (kW) | 14.7 | 19.9 | 19.9 | 20.9 | 19.9 | 20.1 | 20.2 |
| | | | 100% | 98% | 78% | 69% | 55% | 49% | 44% |
| Step 2 | 45dB | Capacity (kW) | 11.9 | 15.1 | 15.1 | 15.6 | 15.5 | 15.6 | 15.6 |
| | | | 93% | 74% | 59% | 51% | 43% | 38% | 34% |

* Data applicable for standard air cooled units



ADVANCED AIR COOLED VRV® TECHNOLOGIES:

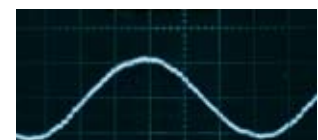


1 RELUCTANCE BRUSHLESS DC COMPRESSOR

- › The reluctance brushless DC motor provides significant increases in efficiency compared to conventional AC inverter motors, simultaneously using 2 different forms of torque (normal and reluctance torque) to produce extra power from small electric currents.
- › **The motor comprises powerful neodymium magnets**, that efficiently generate high torque. These magnets make a major contribution to the energy saving characteristics of the motor.
- › **High thrust mechanism (VRV® heat pump)**
By introducing high pressure oil, the reactive force from the fixed scroll is added to the internal force, thereby reducing thrust losses. This results in improved efficiency and suppressed sound level.

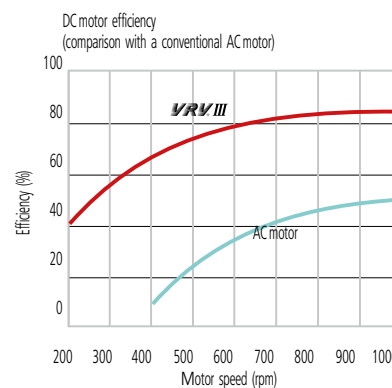
2 SINE WAVE DC INVERTER

Optimizing the sine wave curve, results in smoother motor rotation and improved motor efficiency.



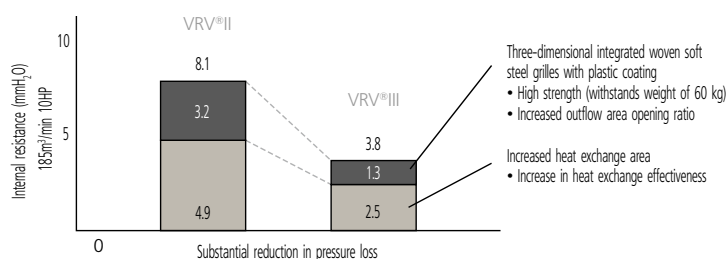
3 DC FAN MOTOR

The use of a DC fan motor offers substantial improvements in operating efficiency compared to conventional AC motors, especially during low speed rotation.



4 DUAL DC FANS ¹

- › Maximum 10% increase in airflow (16HP) due to dual DC fans
- › Increased output and reduced pressure loss together with increased external static pressure and reduced rated fan input.



¹ Not applicable for VRV[®]III-S

10 HP: 3 blades, ø700
 → 4 blades, ø680
 blade area increased by 25%,
 uneven pitch: No NZ noise



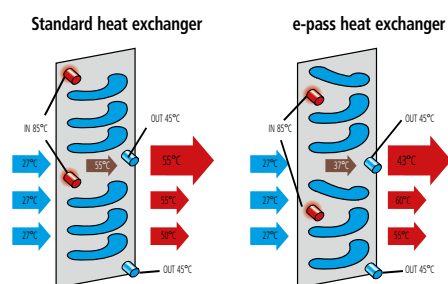
18 HP: ø700 → ø540 x 2
 blade area increased by 20%,
 sound reduced by 0.7 dB



Fans optimized for their casings
 (increased air flow without sound increase)

5 E-PASS HEAT EXCHANGER

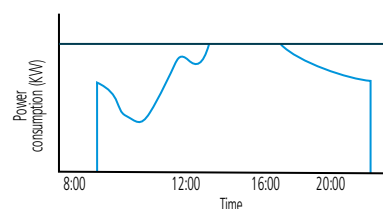
Optimization of the path layout of the heat exchanger prevents heat transferring from the overheated gas section towards the sub cooled liquid section - a more efficient use of the heat exchanger.



In cooling mode, the heat exchanger of the condensor is improved. This means an improvement of COP by 3%.

6 I-DEMAND FUNCTION

The newly introduced current sensor minimizes the difference between the actual power consumption and the predefined power consumption.





VRV® HEAT RECOVERY

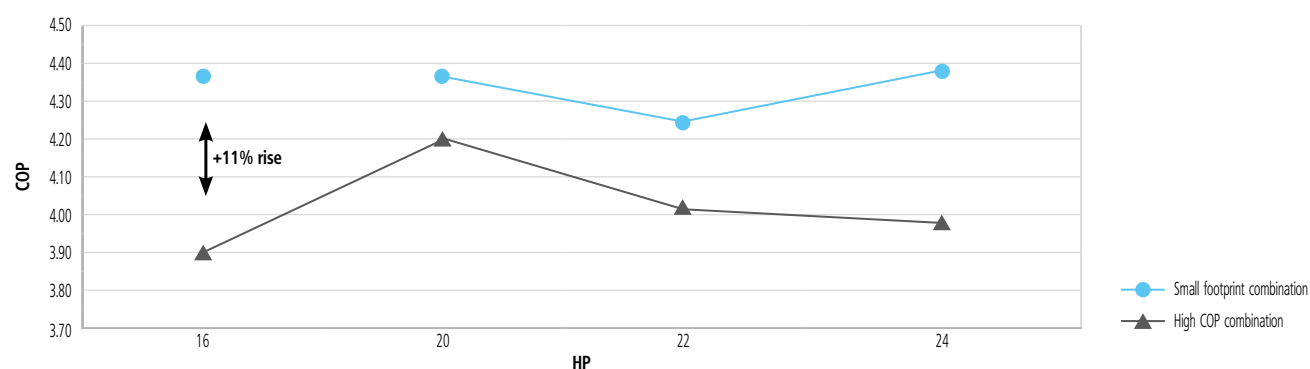
HIGH COP AND SMALL FOOTPRINT COMBINATION

➤ BENEFITS



TOP ENERGY EFFICIENCY

The high COP combination has a top energy efficiency within the Daikin heat recovery range. It is up to 11% more efficient, compared to the small footprint combination.



| HP | | 16 | 20 | 22 | 24 |
|-----------------------------|-------------|-------|--------|---------|---------|
| High COP combination | combination | 8 + 8 | 8 + 12 | 10 + 12 | 12 + 12 |
| | COP | 4.36 | 4.36 | 4.24 | 4.37 |
| | EER | 4.29 | 4.04 | 3.84 | 3.89 |
| Small footprint combination | combination | 16 | 8 + 12 | 10 + 12 | 12 + 12 |
| | COP | 3.90 | 4.12 | 4.03 | 3.97 |
| | EER | 3.19 | 3.77 | 3.61 | 3.49 |

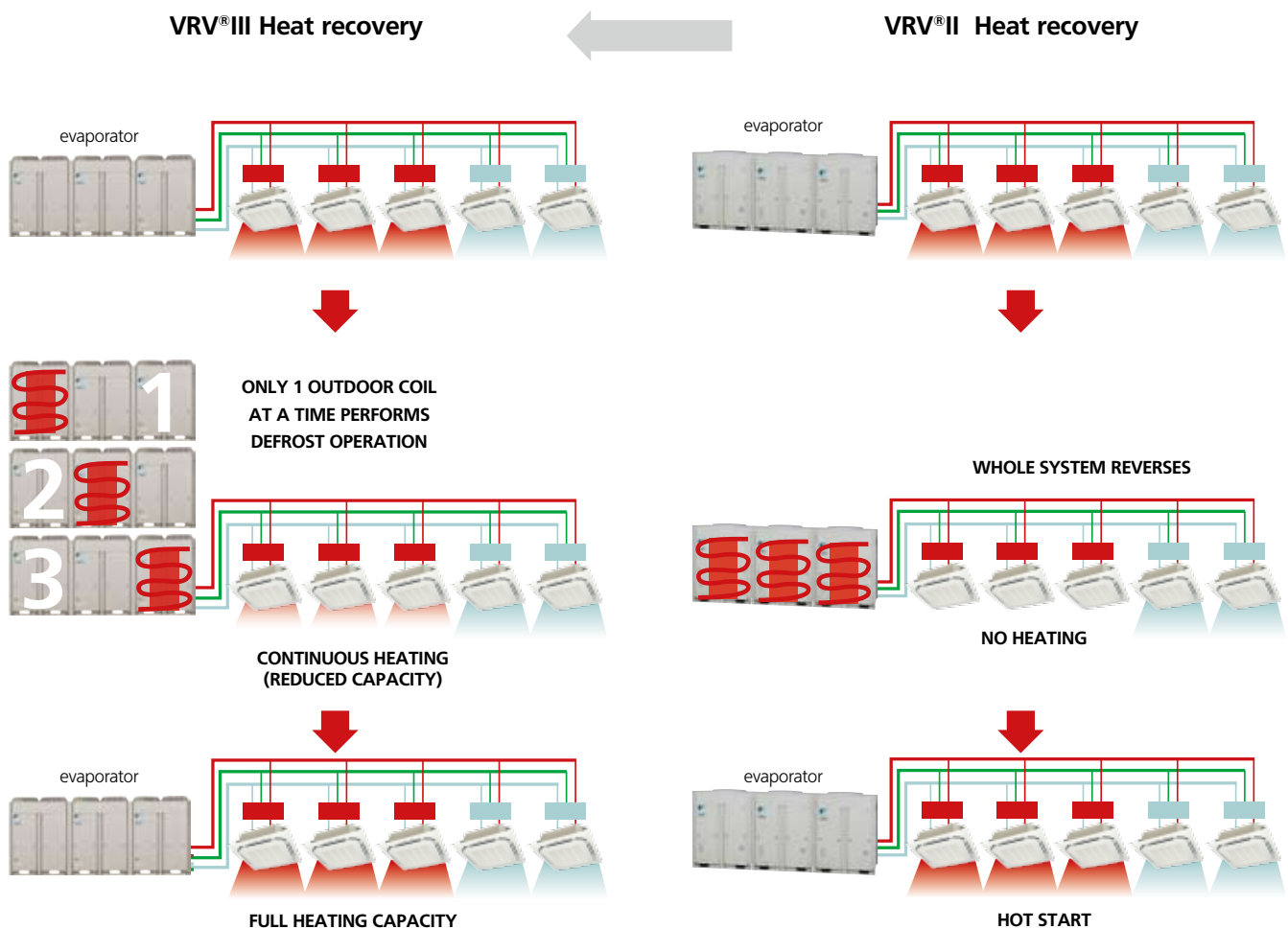
CONTINUOUS HEATING DURING DEFROST

Ensuring the highest comfort level during defrost and oil return

Benefits of the system

- › High comfort
 - No cold draft during defrost & oil return
 - No big temperature fluctuations in the room
- › Higher integrated heating capacity (indoor units continue to deliver heating)
 - Continuous heating during defrost results in a higher integrated heating capacity and much higher comfort levels for the users.

* Only available for multi combination heat recovery systems (REYQ18-48P8/9, REYHQ16-24P)



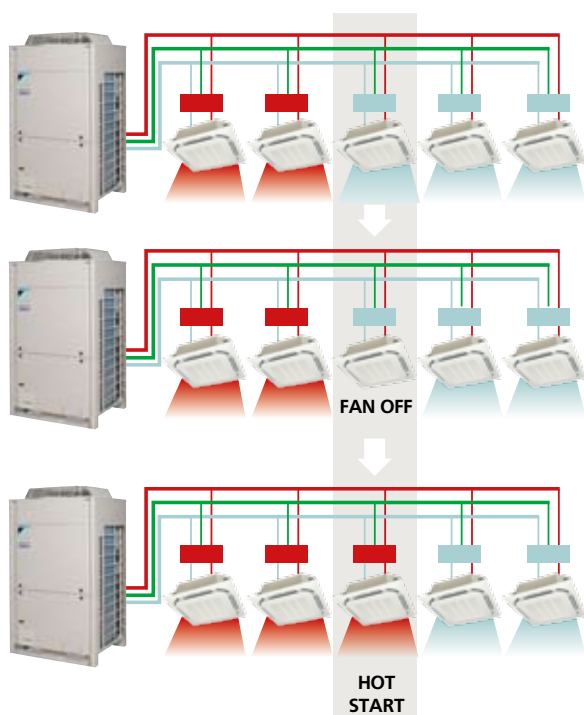
IMPROVED COMFORT THANKS TO VRV®III BS BOX

Individual change over from cooling to heating or vice versa of the indoor units is possible. This means that all indoor units who do not change over continue to provide optimum comfort for the users during this process.



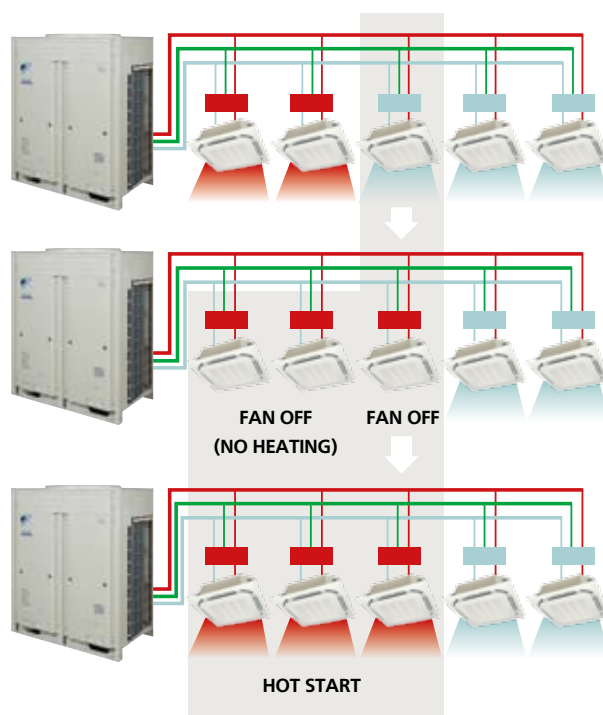
VRV®III

With the VRV®III BS box, the other indoor units can keep heating while the target indoor units are switched from cooling to heating.



VRV®II

When switching from cooling to heating with the conventional BS box, the other indoor units performing heating operations also had to be stopped until the changeover for the target indoor unit had been completed.



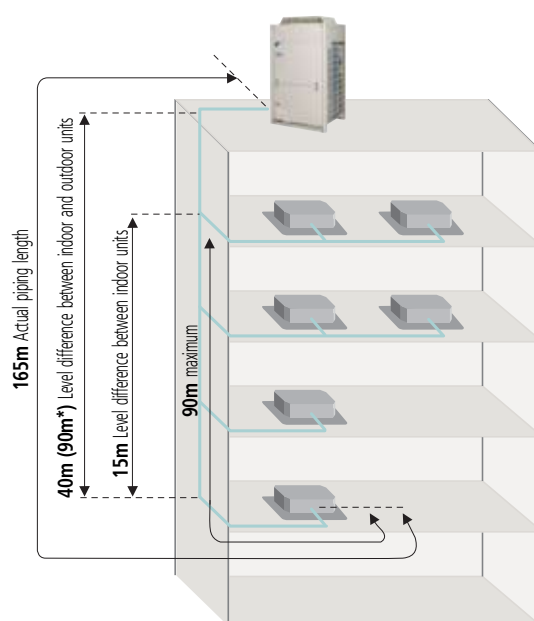
FLEXIBLE PIPING DESIGN

VRV® offers an extended piping length of 165m (190m equivalent piping length) with a total system piping length of 1,000m.

In case the outdoor unit is located above the indoor unit the height difference is 50m standard. It can be extended to 90m*.

In case the outdoor unit is located below the indoor unit, the height difference is 40m standard. Height differences up to maximum 90m are possible*.

After the first branch, the difference between the longest piping length and the shortest piping length can be maximum 40m, provided that the longest piping length amounts to maximum 90m.



* For more information, please contact your local Daikin dealer.

► SPECIFICATIONS

VRV® Heat recovery - High COP combination

| REYHQ-P | | | | 16 | 20 | 22 | 24 |
|--|------------------------------------|-----------------------|--------|--|---------------------------------------|---------------|---------------|
| Outdoor unit | | | | REMQ8P9 | REMQ8P9 | REMQ10P8 | REMHQ12P8 |
| | | | | REMQ8P9 | REMHQ12P8 | REMHQ12P8 | REMHQ12P8 |
| Nominal capacity | cooling | kW | | 45.0 | 56.0 | 61.5 | 67.0 |
| | heating | kW | | 50.0 | 62.5 | 69.0 | 75.0 |
| COP | heating | | | 4.36 | 4.36 | 4.24 | 4.37 |
| EER | cooling | | | 4.29 | 4.04 | 3.84 | 3.89 |
| Capacity range | | HP | | 16 | 20 | 22 | 24 |
| Max n° of indoor units to be connected | | | | 26 | 32 | 35 | 39 |
| Indoor index connection | minimum | | | 200 | 250 | 275 | 300 |
| | maximum (130%) | | | 520 | 650 | 715 | 780 |
| Casing | colour | | | Dakin white | | | |
| | material | | | Painted galvanised steel | | | |
| Power input (nominal) (50Hz) | cooling | kW | | 10.5 | 13.9 | 16.0 | 17.2 |
| | heating | kW | | 11.5 | 14.3 | 16.3 | 17.2 |
| PED category | | | | Category 2 | | | |
| Heat Exchanger | dimensions | length | mm | 1,778 + 1,778 | 1,778 + 2,088 | 1,778 + 2,088 | 2,088 + 2,088 |
| | | nr of rows | | 54 | 54 | 54 | 54 |
| | | fin pitch | mm | 2 | | | |
| | | nr of passes | | 18 + 18 | 18 + 21 | 18 + 21 | 21 + 21 |
| | | face area | m² | 2,112 + 2,112 | 2,112 + 2,481 | 2,112 + 2,481 | 2,481 + 2,481 |
| | | nr of stages | | 2 | | | |
| | tube type | | | Hi-XSS (8) | | | |
| | fin | fin type | | Non-symmetric waffle louvre | | | |
| | | treatment | | Hydrophilic and anti corrosion resistant | | | |
| | type | | | Propeller | | | |
| Fan | quantity | | | 2 | 3 | 3 | 4 |
| | Air flow rate (nominal at 230V) | cooling | m³/min | 180 + 180 | 180 + 230 | 180 + 230 | 230 + 230 |
| | | | cfm | 180 + 180 | 180 + 230 | 180 + 230 | 230 + 230 |
| | external static pressure | | Pa | 78 Pa in high static pressure | | | |
| | discharge direction | | | Vertical | | | |
| | motor | quantity | | 2 | 3 | 3 | 4 |
| | | model | | Brushless DC | | | |
| Compressor | | output motor | W | 750 + 750 | 750 + 750 | 750 + 2x350 | 2x350 + 2x350 |
| | quantity | | | 2 | 3 | 4 | 4 |
| | motor | quantity | | 2 | | | |
| | | model | | Inverter | | | |
| | | type | | Hermetically sealed scroll compressor | | | |
| | | speed | rpm | 7,980 + 7,980 | 7,980 + 6,300 | 6,300 + 6,300 | 6,300 + 6,300 |
| | | motor output | kW | 4.7 + 4.7 | 4.7 + 3.5 | 2.2 + 3.5 | 3.5 + 3.5 |
| | | crankcase heater | W | 33 | | | |
| | | quantity | | 0 | 1 | 1 + 1 | 1 + 1 |
| | | model | | - | ON - OFF | | |
| | | type | | - | Hermetically sealed scroll compressor | | |
| | | speed | rpm | - | 2,900 | 2,900 + 2,900 | 2,900 + 2,900 |
| | | motor output | kW | - | 4.5 | 4.5 + 4.5 | 4.5 + 4.5 |
| | | crankcase heater | W | - | 33 | 33 | 33 |
| | Operation range | cooling | min. | °CDB -5 | | | |
| | | | max. | °CDB 43 | | | |
| | | heating | min. | °CWB -20 | | | |
| | | | max. | °CWB 15 | | | |
| Sound level | cooling | sound power (nominal) | dB(A) | 82 | 85 | 85 | 87 |
| | | sound power (nominal) | dB(A) | 62 | 64 | 64 | 66 |

Notes:

Nominal cooling capacities are based on : indoor temperature : 27°CDB, 19°CWB, outdoor temperature : 35°CDB, equivalent refrigerant piping : 7.5m, level difference : 0m.
 Nominal heating capacities are based on : indoor temperature : 20°CDB, outdoor temperature : 7°CDB, 6°CWB, equivalent refrigerant piping : 7.5m, level difference : 0m
 Sound power level is an absolute value that a sound source generates.
 Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to sound level drawings.
 Sound values are measured in a semi-anechoic room.



VRV® Heat recovery - Small footprint combination

| REYQ-P8/P9 | | | | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 |
|---|---------------------------------|----------------|-------|---|-------|----------------|-------|-------|-----------|-----------|----------------|-----------|-------------|-------------|
| Modules | REYQ8P9 | | | 1 | | | | | | | | | | |
| | REYQ10P8 | | | | 1 | | | | | | | | | |
| | REYQ12P9 | | | | | 1 | | | | | Not Applicable | | | |
| | REYQ14P8 | | | | | | 1 | | | | | | | |
| | REYQ16P8 | | | | | | | 1 | | | | | | |
| Modules | REMQ8P9 | | | | | | | | 1 | 1 | | | | |
| | REMQ10P8 | | | | | | | | 1 | | 1 | | 1 | |
| | REMQ12P8 | | | | | Not Applicable | | | | 1 | 1 | 2 | | 1 |
| | REMQ14P8 | | | | | | | | | | | | | 1 |
| Nominal capacity | cooling | | kW | 22.4 | 28 | 33.5 | 40 | 45 | 50.4 | 55.9 | 61.5 | 67.0 | 73.0 | 78.5 |
| | heating | | kW | 25.0 | 31.5 | 37.5 | 45 | 50 | 56.5 | 62.5 | 69 | 75 | 81.5 | 87.5 |
| COP | heating | | | 4.38 | 4.24 | 4.20 | 4.10 | 3.90 | 4.20 | 4.12 | 4.03 | 3.97 | 3.96 | 3.92 |
| EER | cooling | | | 4.31 | 3.84 | 3.69 | 3.51 | 3.19 | 3.99 | 3.77 | 3.61 | 3.49 | 3.38 | 3.3 |
| Number of outdoor units | | | | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| Capacity range | | | HP | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 |
| Max. number of connectable indoor units | | | | 13 | 16 | 19 | 22 | 26 | 29 | 32 | 35 | 39 | 42 | 45 |
| Indoor index connection | minimum | | | 100 | 125 | 150 | 175 | 200 | 225 | 250 | 275 | 300 | 325 | 350 |
| | maximum (130%) | | | 260 | 325 | 390 | 455 | 520 | 585 | 650 | 715 | 780 | 845 | 910 |
| Casing | colour | | | Ivory white | | | | | | | | | | |
| | material | | | Painted galvanised steel | | | | | | | | | | |
| Dimensions | unit | height | mm | 1,680 | 1,680 | 1,680 | 1,680 | 1,680 | 1,680 | 1,680 | 1,680 | 1,680 | 1,680 | 1,680 |
| | | width | mm | 1,300 | 1,300 | 1,300 | 1,300 | 1,300 | 930 + 930 | 930 + 930 | 930 + 930 | 930 + 930 | 930 + 1,240 | 930 + 1,240 |
| | | depth | mm | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 |
| Weight | | | kg | 331 | 331 | 331 | 339 | 339 | 204 + 254 | 204 + 254 | 254 + 254 | 254 + 254 | 254 + 334 | 254 + 334 |
| Fan | type | | | Propeller fan | | | | | | | | | | |
| | air flow rate (nominal at 230V) | | | m³/min | 190 | 190 | 210 | 235 | 240 | 180 + 185 | 180 + 200 | 185 + 200 | 200 + 200 | 185 + 230 |
| Compressor | type | | | Hermetically sealed scroll compressor | | | | | | | | | | |
| | starting method | | | Soft start | | | | | | | | | | |
| | n° | | | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 |
| Operation range | cooling | | °CDB | -5 ~ 43 | | | | | | | | | | |
| | heating | | °CWB | -20 ~ 15.5 | | | | | | | | | | |
| Sound level (nominal) | cooling | sound pressure | dB(A) | 58 | 58 | 60 | 62 | 63 | 61 | 62 | 62 | 63 | 62 | 63 |
| | | sound power | dB(A) | * | * | * | * | * | 81.0 | 82.0 | 82.0 | 83.0 | 82.0 | 83.0 |
| Refrigerant | type | | | R-410A | | | | | | | | | | |
| | charge | | kg | 10.3 | 10.6 | 10.8 | 11.1 | 11.1 | 8.2 + 9.0 | 8.2 + 9.1 | 9.0 + 9.1 | 9.1 + 9.1 | 9.0 + 11.7 | 9.1 + 11.7 |
| | control | | | Electronic expansion valve | | | | | | | | | | |
| Refrigerant oil | type | | | Synthetic ether oil | | | | | | | | | | |
| | charge | | l | * | * | * | * | * | 8.2 | 8.4 | 10.4 | 10.6 | 12.6 | 12.8 |
| Piping connections | liquid | | mm | 9.52 | 9.52 | 12.7 | 12.7 | 12.7 | 15.9 | 15.9 | 15.9 | 15.9 | 19.1 | 19.1 |
| | gas | | mm | 19.1 | 22.2 | 28.6 | 28.6 | 28.6 | 28.6 | 28.6 | 28.6 | 34.9 | 34.9 | 34.9 |
| | discharge gas | | mm | 15.9 | 19.1 | 19.1 | 22.2 | 22.2 | 22.2 | 28.6 | 28.6 | 28.6 | 28.6 | 28.6 |
| | pressure equalizer tube | | mm | None | None | None | None | None | 19.1 | 19.1 | 19.1 | 19.1 | 19.1 | 19.1 |
| Capacity steps | | | | 30 | 37 | 37 | 26 | 26 | 31 | 31 | 38 | 38 | 41 | 41 |
| Safety devices | | | | HPS, fan motor overcurrent protector, inverter overload protector, overcurrent relay, PC board fuse | | | | | | | | | | |
| Power supply | | | W1 | 3 ~, 50Hz, 380-415V | | | | | | | | | | |

*Information was not available at time of publication

| REYQ-P8/P9 | | | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 |
|---|-------------------------|----------------|---|---------------|-------------------|-------------------|-------------------|-------------------|---------------------|---------------------|-----------------------|-----------------------|
| Modules | REYQ8P9 | | | | | | | | | | | |
| | REYQ10P8 | | | | | | | | | | | |
| | REYQ12P9 | | | | | | Not Applicable | | | | | |
| | REYQ14P8 | | | | | | | | | | | |
| | REYQ16P8 | | | | | | | | | | | |
| Modules | REMQ8P9 | | | | 1 | 1 | | | | | | |
| | REMQ10P8 | | | | 1 | | 1 | | 1 | | | |
| | REMQ12P8 | | | | | 1 | 1 | 2 | | 1 | | |
| | REMQ14P8 | | 1 | | | | | | | | 1 | |
| | REMQ16P8 | | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 3 |
| Number of outdoor units | | | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Nominal capacity | cooling | kW | 85.0 | 90.0 | 95.4 | 101.0 | 107.0 | 112.0 | 118.0 | 124.0 | 130.0 | 135.0 |
| | heating | kW | 95 | 100 | 107 | 113 | 119 | 125 | 132 | 138 | 145 | 150 |
| COP | heating | | 3.93 | 3.88 | 4.04 | 4.02 | 3.97 | 3.93 | 3.94 | 3.92 | 3.91 | 3.88 |
| EER | cooling | | 3.2 | 3.17 | 3.56 | 3.48 | 3.43 | 3.35 | 3.3 | 3.26 | 3.19 | 3.17 |
| Capacity range | | HP | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 |
| Max. number of connectable indoor units | | | 48 | 52 | 55 | 58 | 61 | 64 | 64 | 64 | 64 | 64 |
| Indoor index connection | minimum | | 375 | 400 | 425 | 450 | 475 | 500 | 525 | 550 | 575 | 600 |
| | maximum (130 %) | | 975 | 1,040 | 1,105 | 1,170 | 1,235 | 1,300 | 1,365 | 1,430 | 1,495 | 1,560 |
| Capacity steps | | | 46 | 46 | 36 | 36 | 41 | 41 | 46 | 46 | 51 | 51 |
| Casing | colour | | Ivory white | | | | | | | | | |
| | material | | Painted galvanised steel | | | | | | | | | |
| Dimensions | height | mm | 1,680 | 1,680 | 1,680 | 1,680 | 1,680 | 1,680 | 1,680 | 1,680 | 1,680 | 1,680 |
| | width | mm | 1,240 + 1,240 | 1,240 + 1,240 | 930 + 930 + 1,240 | 930 + 930 + 1,240 | 930 + 930 + 1,240 | 930 + 930 + 1,240 | 930 + 1,240 + 1,240 | 930 + 1,240 + 1,240 | 1,240 + 1,240 + 1,240 | 1,240 + 1,240 + 1,240 |
| | depth | mm | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 |
| Weight | | kg | 334 + 334 | 334 + 334 | 204 + 254 + 334 | 204 + 254 + 334 | 254 + 254 + 334 | 254 + 254 + 334 | 254 + 334 + 334 | 254 + 334 + 334 | 334 + 334 + 334 | 334 + 334 + 334 |
| Fan | type | | Propeller fan | | | | | | | | | |
| | air flow rate | | 230 + 230 | 230 + 230 | 180 + 185 + 230 | 180 + 200 + 230 | 185 + 200 + 230 | 200 + 200 + 230 | 185 + 230 + 230 | 200 + 230 + 230 | 230 + 230 + 230 | 230 + 230 + 230 |
| Compressor | type | | Hermetically sealed scroll compressor | | | | | | | | | |
| | starting method | | Soft start | | | | | | | | | |
| | n° | | 6 | 6 | 6 | 6 | 7 | 8 | 8 | 8 | 9 | 9 |
| Operation range | cooling | °CDB | -5 ~ 43 | | | | | | | | | |
| | heating | °CWB | -20 ~ 15.5 | | | | | | | | | |
| Sound level | cooling | sound power | dB(A) | 83.0 | 83.0 | 83.0 | 84.0 | 84.0 | 85.0 | 84.0 | 85.0 | 85.0 |
| | | sound pressure | dB(A) | 63 | 63 | 63 | 64 | 64 | 65 | 64 | 65 | 65 |
| Refrigerant | name | | R-410A | | | | | | | | | |
| | charge | kg | 11.7 + 11.7 | 11.7 + 11.7 | 8.2 + 9.0 + 11.7 | 8.2 + 9.1 + 11.7 | 9.0 + 9.1 + 11.7 | 9.1 + 9.1 + 11.7 | 9.0 + 11.7 + 11.7 | 9.1 + 11.7 + 11.7 | 11.7 + 11.7 + 11.7 | 11.7 + 11.7 + 11.7 |
| | control | | Electronic expansion valve | | | | | | | | | |
| Refrigerant oil | type | | Synthetic ether oil | | | | | | | | | |
| | charge | l | 14.9 | 15.0 | 15.7 | 15.9 | 17.9 | 18.1 | 20.1 | 20.3 | 22.4 | 22.5 |
| Piping connections | liquid | mm | 19.1 | 19.1 | 19.1 | 19.1 | 19.1 | 19.1 | 19.1 | 19.1 | 19.1 | 19.1 |
| | gas | mm | 34.9 | 34.9 | 34.9 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 |
| | discharge gas | mm | 28.6 | 28.6 | 28.6 | 28.6 | 34.9 | 34.9 | 34.9 | 34.9 | 34.9 | 34.9 |
| | pressure equalizer tube | mm | 19.1 | 19.1 | 19.1 | 19.1 | 19.1 | 19.1 | 19.1 | 19.1 | 19.1 | 19.1 |
| Capacity steps | | | 46 | 46 | 36 | 36 | 41 | 41 | 46 | 46 | 51 | 51 |
| Safety devices | | | HPS, fan motor overcurrent protector, inverter overload protector, overcurrent relay, PC board fuse | | | | | | | | | |
| Power supply | | W1 | 3 ~, 50Hz, 380-415V | | | | | | | | | |

Notes: Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB • outdoor temperature: 35°CDB • equivalent refrigerant piping: 7.5m • level difference: 0m
Nominal heating capacities are based on: indoor temperature: 20°CDB • outdoor temperature: 7°CDB/6°CWB • equivalent refrigerant piping: 7.5m • level difference: 0m

BS Box for heat recovery system

| BS BOX | | | | BSVQ100P8B | | BSVQ160P8B | | BSVQ250P8B | |
|--|--|--------------|----------------------------------|------------------------|--|---------------|--|---------------|--|
| Total capacity of connectable indoor units | | | | x ≤ 100 | | 100 < x ≤ 160 | | 160 < x ≤ 250 | |
| Maximum number of connectable indoor units | | | | 5 | | 8 | | 5 | |
| Casing | | | | galvanised steel plate | | | | | |
| Dimensions | | HxWxD | | mm | | 207x388x326 | | | |
| Weight | | | | kg | | 14 | | 15 | |
| Piping connections | | indoor unit | liquid/gas | mm | | 9.5/15.9 | | 9.5/15.9 | |
| | | outdoor unit | liquid/suction gas/discharge gas | mm | | 9.5/15.9/12.7 | | 9.5/15.9/12.7 | |
| Safety devices | | | | PCB fuse | | | | | |
| Cool/heat selector | | | | KRC19-26A | | | | | |
| Fixing box | | | | KJB111A | | | | | |
| PCB for multi tenant | | | | DTA114A61 | | | | | |

➤ ACCESSORIES

| VRV® Heat recovery Stand alone combinations | | REYQ8P9 REYQ10P8 | REYQ12P9 REYQ14-16P8 |
|--|---------------|---------------------|-------------------------|
| REFNET header | | KHRQ23M29H | |
| | | - | KHRQ23M64H |
| | | - | KHRQ23M75H |
| REFNET joint | | KHRQ23M20T | |
| | | KHRQ23M29T9 | |
| | | - | KHRQ23M64T |
| Central drain pan kit (see note 2) | | KWC25C450 | |
| Digital pressure gauge kit (see note 3) | | BHGP26A1 | |
| BS Box for H/R | | BSVQ100P8B | |
| | | BSVQ160P8B | |
| | | BSVQ250P8B | |
| Central BS Box for H/R | | BSV4Q100P8B | |
| Sound reduction kit for BSVQ Box (note 4) | | EKBSVQLNP | |
| Wind cover (note 5) | Full set | KPS25C450 | |
| | Top/discharge | KPS25C450T | |
| | Rear/Suction | KPS25C450B | |
| | Left/Suction | KPS26C504L | |
| | Right/Suction | KPS26C504R | |

| VRV® Heat recovery Multi combinations (Combinations of REMQ8-16P8/P9 and REMHQ12P) | | REMQ8P9 REMQ10P8 | REMQ12P9 | REMHQ12P9 REMQ14-16P8 | REYQ18-48P8/P9 REYHQ16-24P |
|---|---------------------|---------------------|------------|--------------------------|-------------------------------|
| REFNET header | | KHRQ23M29H | | | |
| | | - | KHRQ23M64H | | |
| | | - | | | KHRQ23M75H |
| REFNET joint | | KHRQ23M20T | | | |
| | | KHRQ23M29T9 | | | |
| | | - | KHRQ23M64T | | |
| Outdoor unit multi piping connection kit | for 2 outdoor units | - | | | KHRQ23M75T |
| | for 3 outdoor units | - | | | BHFQ23P907 |
| Central drain pan kit (see note 2) | | KWC26C280 | | | KWC26C450 |
| Digital pressure gauge kit (see note 3) | | BHGP26A1 | | | |
| BS Box for H/R | | BSVQ100P8B | | | |
| | | BSVQ160P8B | | | |
| | | BSVQ250P8B | | | |
| Central BS Box for H/R | | BSV4Q100P8B | | | |
| Sound reduction kit for BSVQ Box (note 4) | | EKBSVQLNP | | | |
| Wind cover (note 5) | Full set | KPS26C280 | KPS26C504 | | - |
| | Top/discharge | KPS26C280T | KPS26C504T | | - |
| | Rear/Suction | KPS26C280B | KPS26C504B | | - |
| | Left/Suction | KPS26C504L | | | - |
| | Right/Suction | KPS26C504R | | | - |

- Notes:
- 1 All options are kits
 - 2 Central drain pan kit shall be combined based on the outdoor multi connection table
 - 3 Only 1 option per installation is needed
 - 4 Only available for standard BSVQ boxes (not possible for central BSVQ). Allows to reduce operating sound of BSVQ box (requires 1 sound kit per BSVQ box)
 - 5 Only required for technical cooling (outdoor temperature < 5°C). For more information contact your local dealer





VRV® HEAT PUMP

HIGH COP COMBINATION

► BENEFITS



TOP ENERGY EFFICIENCY

The high COP combination has a top energy efficiency within the Daikin heat pump range. It is up to 16% more efficient compared to the small footprint combination.

| HP | | 12 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 |
|-----------------------------|-------------|------|-------|--------|--------|---------|-----------|------------|------------|-------------|-------------|--------------|--------------|
| High COP combination | combination | 12 | 8 + 8 | 8 + 10 | 8 + 12 | 10 + 12 | 8 + 8 + 8 | 8 + 8 + 10 | 8 + 8 + 12 | 8 + 10 + 12 | 8 + 12 + 12 | 10 + 12 + 12 | 12 + 12 + 12 |
| | COP | 4.37 | 4.50 | 4.27 | 4.42 | 4.24 | 4.50 | 4.34 | 4.44 | 4.31 | 4.40 | 4.29 | 4.37 |
| | EER | 3.89 | 4.29 | 4.00 | 4.05 | 3.84 | 4.29 | 4.09 | 4.12 | 3.96 | 3.99 | 3.85 | 3.89 |
| Small footprint combination | combination | 12 | 16 | 18 | 8 + 12 | 10 + 12 | 12 + 12 | 8 + 18 | 10 + 18 | 12 + 18 | 14 + 18 | 16 + 18 | 18 + 18 |
| | COP | 3.97 | 3.88 | 3.69 | 4.18 | 4.04 | 3.97 | 3.94 | 3.83 | 3.81 | 3.83 | 3.79 | 3.69 |
| | EER | 3.48 | 3.17 | 3.02 | 3.80 | 3.62 | 3.49 | 3.41 | 3.26 | 3.20 | 3.11 | 3.09 | 3.02 |

+16%

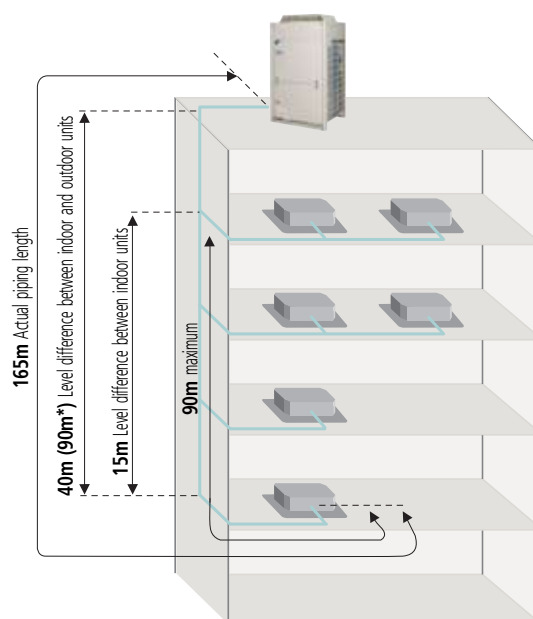
FLEXIBLE PIPING DESIGN

VRV®III offers an extended piping length of 165m (190m equivalent piping length) with a total system piping length of 1,000m.

In case the outdoor unit is located above the indoor unit the height difference is 50m standard. It can be extended to 90m*.

In case the outdoor unit is located below the indoor unit, the height difference is 40m standard. Height differences up to maximum 90m are possible*.

After the first branch, the difference between the longest piping length and the shortest piping length can be maximum 40m, provided that the longest piping length amounts to maximum 90m.



* For more information, please contact your local Daikin dealer.

► SPECIFICATIONS

VRV® Heat pump - High COP combination

| RXYHQ-P8 | | | | 12 | 16 | 18 | 20 | 22 | 24 |
|--|--------------------------------|---------------|---------------------------|---|--|-----------|-----------|-----------|-----------------|
| Modules | RXYQ8P8 | | | | 2 | 1 | 1 | | 3 |
| | RXYQ10P | | | | | 1 | | 1 | |
| | RXYHQ12P8 | | | 1 | | | 1 | 1 | |
| Nominal capacity | cooling | kW | | 33.5 | 45.0 | 49.0 | 55.9 | 61.5 | 67.0 |
| | heating | kW | | 37.5 | 50.0 | 56.5 | 62.5 | 69.0 | 75.0 |
| COP | heating | | | 4.37 | 4.50 | 4.27 | 4.42 | 4.24 | 4.29 |
| EER | cooling | | | 3.89 | 4.29 | 4.00 | 4.05 | 3.84 | 4.50 |
| Capacity range | | HP | | 12 | 16 | 18 | 20 | 22 | 24 |
| Max n° of indoor units to be connected | | | | 19 | 26 | 29 | 32 | 35 | 39 |
| Indoor index connection | minimum | | | 150 | 200 | 225 | 250 | 275 | 300 |
| | maximum | | | 390 | 520 | 585 | 650 | 715 | 780 |
| Casing | colour | | | Daikin White | | | | | |
| | material | | | Painted galvanised steel | | | | | |
| Dimensions | unit | height | mm | 1,680 | - | - | - | - | - |
| | | width | mm | 1,240 | - | - | - | - | - |
| | | depth | mm | 765 | - | - | - | - | - |
| Weight | unit | | kg | 281 | - | - | - | - | - |
| Fan | type | | | Propeller | | | | | |
| | air flow rate | cooling | m³/min | 233 | 171 + 171 | 171 + 185 | 171 + 233 | 185 + 233 | 171 + 171 + 171 |
| | (nominal at 230V) | heating | m³/min | 233 | 171 + 171 | 171 + 185 | 171 + 233 | 185 + 233 | 171 + 171 + 171 |
| | external static pressure (MAX) | | | 78Pa in high static pressure | | | | | |
| Compressor | type | | | Hermetically sealed scroll compressor | | | | | |
| | n° | | | 2 | 1 + 1 | 1 + 2 | 1 + 2 | 2 + 2 | 3 |
| Operation range | cooling | minimum | °CDB | -5.0 | | | | | |
| | | maximum | °CDB | 43.0 | | | | | |
| | heating | minimum | °CWB | -20.0 | | | | | |
| | | maximum | °CWB | 15.0 | | | | | |
| Refrigerant | type | | | R-410A | | | | | |
| | charge | kg | | 10 | 7.7 + 7.7 | 7.7 + 8.4 | 7.7 + 10 | 8.4 + 10 | 7.7 + 7.7 + 7.7 |
| | control | | | Expansion valve (electronic type) | | | | | |
| Maximum total refrigerant charge in the system | | | | kg | Less than 100 (calculated charge less than 95) | | | | |
| Refrigerant Oil | type | | | Synthetic (ether) oil | | | | | |
| | charged Volume | | l | 4.8 | 2.1 + 2.1 | 2.1 + 4.3 | 2.1 + 4.8 | 4.3 + 4.8 | 2.6 + 2.6 + 2.6 |
| Piping Connections | liquid | type | | Braze connection | | | | | |
| | | diameter (OD) | mm | 12.7 | 12.7 | 15.9 | 15.9 | 15.9 | 15.9 |
| | gas | type | | Braze connection | | | | | |
| | | diameter (OD) | mm | 28.6 | 28.6 | 28.6 | 28.6 | 28.6 | 34.9 |
| | heat insulation | | Both liquid and gas pipes | | | | | | |
| max. total length | | m | 1,000 | | | | | | |
| Defrost method | | | | Reversed cycle | | | | | |
| Defrost control | | | | Sensor for outdoor heat exchanger temperature | | | | | |
| Capacity control method | | | | Inverter controlled | | | | | |
| Capacity control [%] | | | | ~ 100 | | | | | |
| Safety devices | | | | HPS, fan motor driver overload protector, overcurrent relay, inverter overload protector, PC board fuse | | | | | |
| Power supply | name | | | W1 | | | | | |
| | phase | | | 3N~ | | | | | |
| | frequency | Hz | | 50 | | | | | |
| | voltage | V | | 400 | | | | | |

Notes: Nominal cooling capacities are based on : indoor temperature : 27°CDB, 19°CWB, outdoor temperature : 35°CDB, equivalent refrigerant piping : 7.5m, level difference : 0m.
 Nominal heating capacities are based on : indoor temperature : 20°CDB, outdoor temperature : 7°CDB, 6°CWB, equivalent refrigerant piping : 7.5m, level difference : 0m
 Sound level of a multi system is determined by the individual outdoor unit and installation condition
 The refrigerant charge of the system must be less than 100 kg. This means that in case the calculated refrigerant charge is equal to or more than 95 kg, you must divide your multiple outdoor system into smaller independent systems, each containing less than 95 kg refrigerant charge.
 For factory charge, refer to the namplate of the unit.



| RXYHQ-P8 | | | | 26 | 28 | 30 | 32 | 34 | 36 |
|--|------------------------------------|---------------|--------|---|-----------------|-----------------|-----------------|-----------------|-----------------|
| Modules | RXYQ8P8 | | | 2 | 1 | 1 | 1 | | |
| | RXYQ10P | | | 1 | 2 | 1 | | 1 | |
| | RXYHQ12P8 | | | | | 1 | 2 | 2 | 3 |
| Nominal capacity | cooling | kW | | 71.4 | 77.0 | 82.5 | 89.0 | 94.0 | 98.0 |
| | heating | kW | | 81.5 | 88.0 | 94.0 | 102.0 | 107.0 | 113.0 |
| COP | heating | | | 4.09 | 4.12 | 3.96 | 3.99 | 3.85 | 3.89 |
| EER | cooling | | | 4.34 | 4.44 | 4.31 | 4.40 | 4.29 | 4.37 |
| Capacity range | | HP | | 26 | 28 | 30 | 32 | 34 | 36 |
| Max n° of indoor units to be connected | | | | 42 | 45 | 48 | 52 | 55 | 58 |
| Indoor index connection | minimum | | | 325 | 350 | 375 | 400 | 425 | 450 |
| | maximum | | | 845 | 910 | 975 | 1,040 | 1,105 | 1,170 |
| Casing | colour | | | Daikin White | | | | | |
| | material | | | Painted galvanised steel | | | | | |
| Dimensions | unit | height | mm | - | - | - | - | - | - |
| | | width | mm | - | - | - | - | - | - |
| | | depth | mm | - | - | - | - | - | - |
| Weight | unit | | kg | - | - | - | - | - | - |
| Fan | type | | | Propeller | | | | | |
| | air flow rate (nominal at 230V) | cooling | m³/min | 171 + 171 + 185 | 171 + 185 + 185 | 185 + 185 + 233 | 171 + 233 + 233 | 185 + 233 + 233 | 233 + 233 + 233 |
| | | heating | m³/min | 171 + 171 + 185 | 171 + 185 + 185 | 185 + 185 + 233 | 171 + 233 + 233 | 185 + 233 + 233 | 233 + 233 + 233 |
| | external static pressure (MAX) | | Pa | 78Pa in high static pressure | | | | | |
| Compressor | type | | | Hermetically sealed scroll compressor | | | | | |
| | n° | | | 4 | 5 | 6 | 5 | 6 | 6 |
| Operation range | cooling | minimum | °CDB | -5.0 | | | | | |
| | | maximum | °CDB | 43.0 | | | | | |
| | heating | minimum | °CWB | -20.0 | | | | | |
| | | maximum | °CWB | 15.0 | | | | | |
| Refrigerant | type | | | R-410A | | | | | |
| | charge | kg | | 7.7 + 7.7 + 8.4 | 7.7 + 8.4 + 8.4 | 7.7 + 8.4 + 10 | 7.7 + 10 + 10 | 8.4 + 10 + 10 | 10 + 10 + 10 |
| | control | | | Expansion valve (electronic type) | | | | | |
| Maximum total refrigerant charge in the system | | | kg | Less than 100 (calculated charge less than 95) | | | | | |
| Refrigerant Oil | type | | | Synthetic (ether) oil | | | | | |
| | charged volume | | l | 2.6 + 2.6 + 4.3 | 2.6 + 4.3 + 4.3 | 2.6 + 4.3 + 4.8 | 2.6 + 4.8 + 4.8 | 4.3 + 4.8 + 4.8 | 4.8 + 4.8 + 4.8 |
| Piping Connections | liquid | type | | Brazed connection | | | | | |
| | | diameter (OD) | mm | 19.1 | 19.1 | 19.1 | 19.1 | 19.1 | 19.1 |
| | gas | type | | Brazed connection | | | | | |
| | | diameter (OD) | mm | 34.9 | 34.9 | 34.9 | 34.9 | 34.9 | 41.3 |
| | heat insulation | | | Both liquid and gas pipes | | | | | |
| max. total length | | m | 1,000 | | | | | | |
| Defrost method | | | | Reversed cycle | | | | | |
| Defrost control | | | | Sensor for outdoor heat exchanger temperature | | | | | |
| Capacity control method | | | | Inverter controlled | | | | | |
| Capacity control [%] | | | | ~ 100 | | | | | |
| Safety devices | | | | HPS, fan motor driver overload protector, overcurrent relay, inverter overload protector, PC board fuse | | | | | |
| Power supply | name | | | W1 | | | | | |
| | phase | | | 3N~ | | | | | |
| | frequency | Hz | | 50 | | | | | |
| | voltage | V | | 400 | | | | | |

Notes: Nominal cooling capacities are based on : indoor temperature : 27°CDB, 19°CWB, outdoor temperature : 35°CDB, equivalent refrigerant piping : 7.5m, level difference : 0m.
 Nominal heating capacities are based on : indoor temperature : 20°CDB, outdoor temperature : 7°CDB, 6°CWB, equivalent refrigerant piping : 7.5m, level difference : 0m
 Sound level of a multi system is determined by the individual outdoor unit and installation condition
 The refrigerant charge of the system must be less than 100 kg. This means that in case the calculated refrigerant charge is equal to or more than 95 kg, you must divide your multiple outdoor system into smaller independent systems, each containing less than 95 kg refrigerant charge. For factory charge, refer to the namplate of the unit.

➤ ACCESSORIES

| VRV® HEAT PUMP | | 12 | 16-36 |
|---|---------------------|-----------|-------------|
| Cool/heat selector | | | KRC19-26A6 |
| Fixing box | | | KJB111A |
| REFNET header | | | KHRQ22M29H |
| | | | KHRQ22M64H |
| | | - | KHRQ22M75H |
| REFNET joint | | | KHRQ22M20T |
| | | | KHRQ22M29T9 |
| | | | KHRQ22M64T |
| | | - | KHRQ22M75T |
| Outdoor unit multi connection kit | for 2 outdoor units | - | BHFQ22P1007 |
| | for 3 outdoor units | - | BHFQ22P1517 |
| Central drain pan kit | | KWC26B450 | see note 2 |
| Digital pressure gauge kit | | BHGP26A1 | see note 3 |
| Increase height difference between indoor & outdoor to 90m (see note 5) | | EKLD90P12 | see note 4 |

1 All options are kits

2 Central drain pan kit shall be combined based on the outdoor unit combination table

3 Only 1 option per installation is needed

4 1 option per module is required

5 The option should be installed inside the outdoor unit, only needed in case outdoor unit is installed above indoor



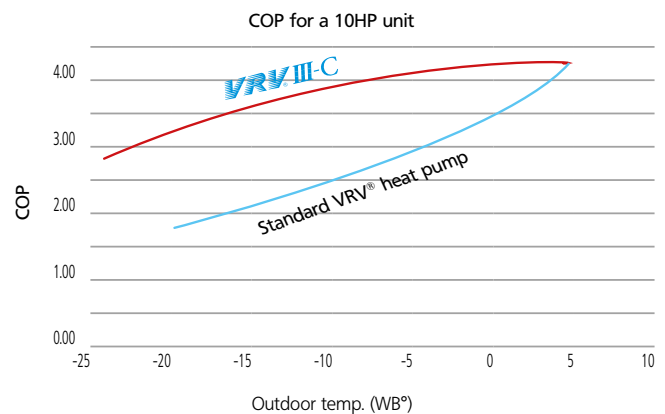
VRV® HEAT PUMP OPTIMISED FOR HEATING (VRV®III-C)

► BENEFITS



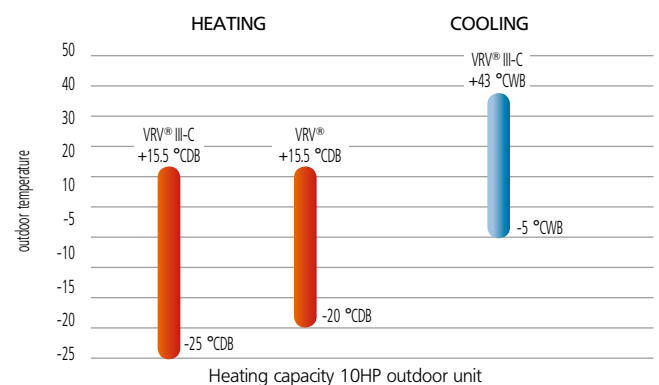
HIGH COP AT LOW AMBIENTS

The use of two stage compression technology results in improved energy saving performance at low ambients, with a COP of more than 3.0 at -10°C outdoor ambient. Annual power costs are therefore, considerably lower than those of the standard heat pump.



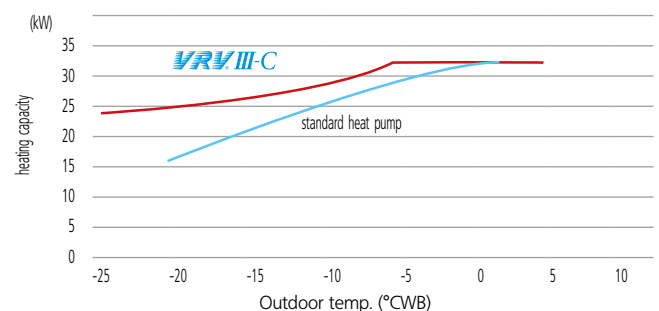
WIDE HEATING OPERATION RANGE

VRV®III-C is the first system on the market with a standard operation range down to -25°C outdoor ambient in heating and can also provide cooling down to -5°C outdoor ambient



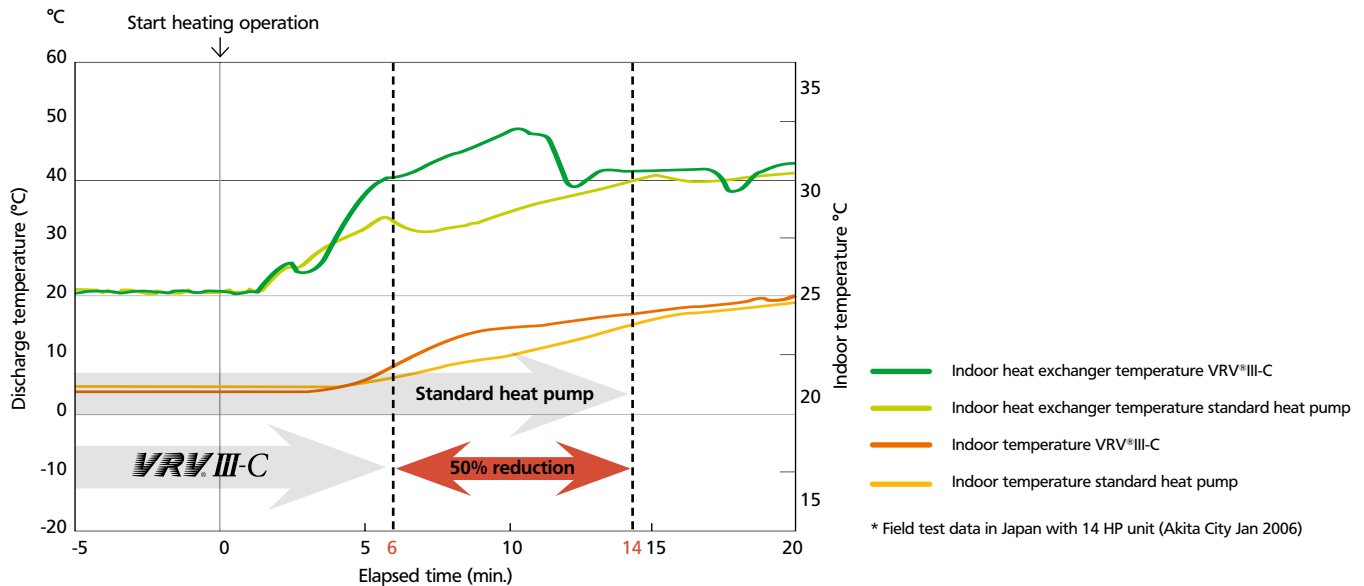
STABLE HEATING CAPACITY

VRV®III-C has a stable heating capacity, even in low ambients, making it suitable for single source heating. The heating capacity is 130% in comparison with the standard VRV® heating capacity under similar conditions



HIGH HEAT UP SPEED

Heat up time is dramatically reduced, particularly under low ambient conditions. The required time for discharge temperature to reach 40°C has been reduced by 50%.



SHORT DEFROST TIME

The time required for defrost is reduced to 4 minutes – less than half that of the standard VRV®III system (10 minutes), leading to a more stable interior indoor temperature and considerably improved comfort levels.

* Field test data in Japan with 10 HP unit (Akita City Jan 2006)

FLEXIBLE PIPING DESIGN

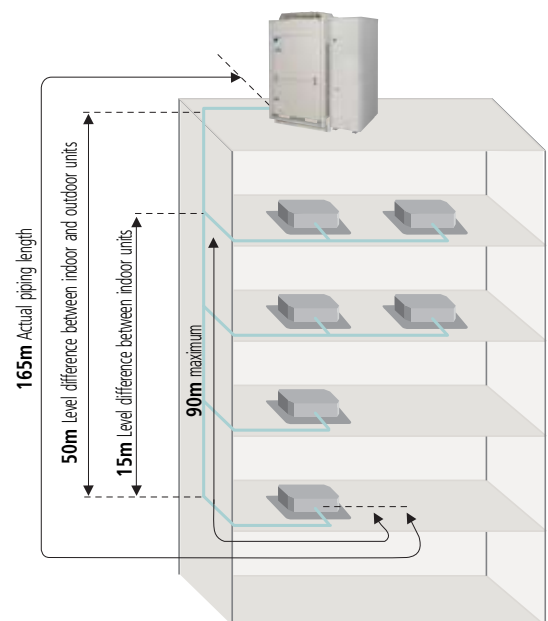
VRV®III-C offers an extended piping length of 165m (190m equivalent piping length) with a total system piping length of 500m.

If the outdoor unit is located above the indoor unit, the height difference is 50m.

If the outdoor unit is located below the indoor unit, the height difference is 40m.

The distance between the outdoor unit and the function unit should be a maximum of 10m (13m equivalent piping length).

After the first branch, the difference between the longest piping length and the shortest piping length can be a maximum 40m, provided that the longest piping length amounts to a maximum of 90m.



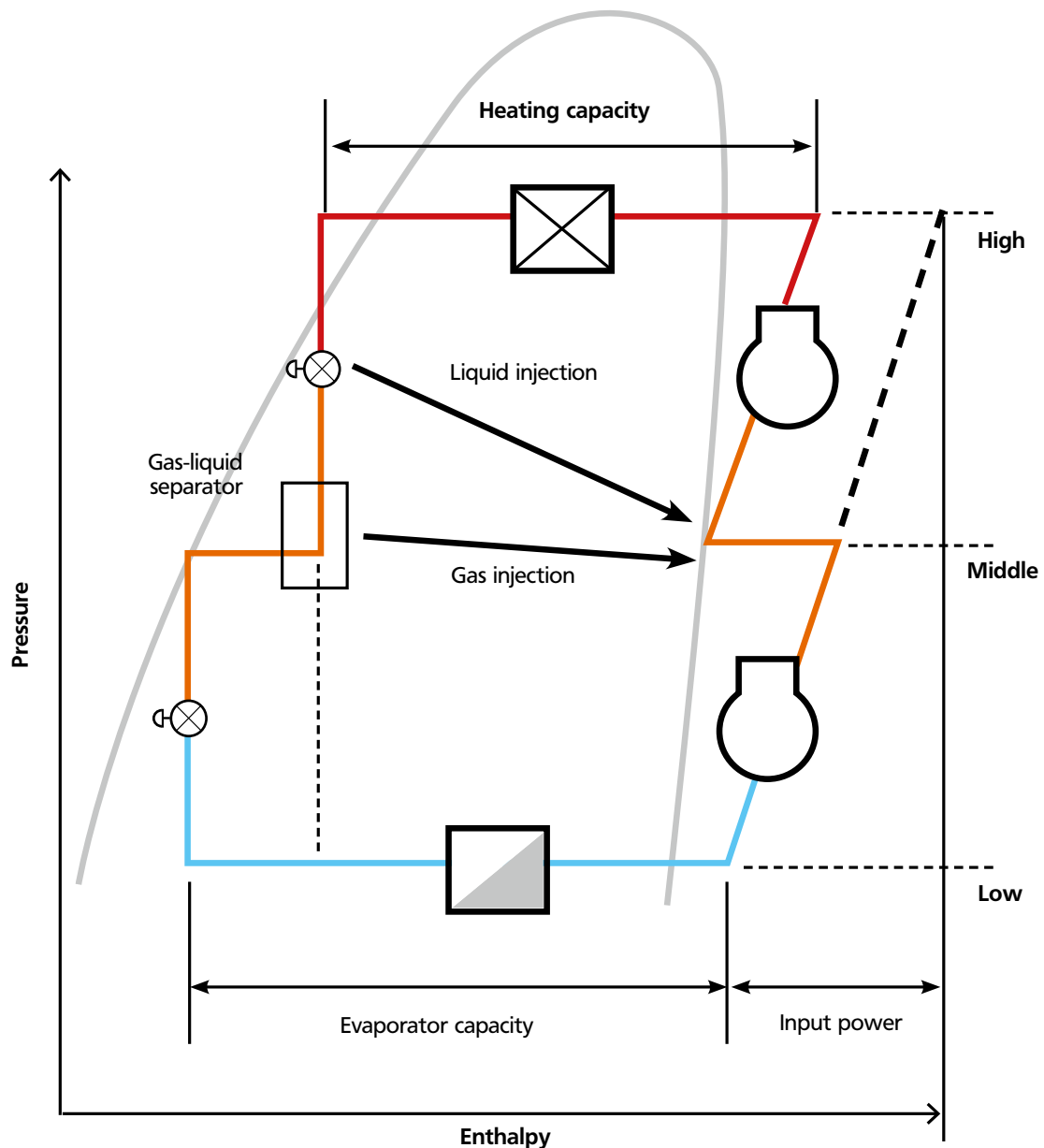
➤ UNIQUE TECHNOLOGIES

TWO STAGE COMPRESSION

Two stage compression technology enables the system to create higher pressures resulting in a higher heating capacity under low ambient conditions.

The second inverter compressor (located in the function unit) is specially designed to provide higher pressures.

After heat is exchanged in the indoor unit, gas and liquid are separated at the gas-liquid separator. This enables the refrigerant in gas condition to be recovered and transmitted direct to the high pressure compressor.



► SPECIFICATIONS

VRV® Heat pump optimised for heating

| System | | | | RTSYQ10P | | RTSYQ14P | | RTSYQ16P | | RTSYQ20P | | |
|--------------------|-------------------------------------|---------------------------------|-----------------------------------|--|--------|--------------------------|--------|----------------------------|--------|-------------------------|----------------|--|
| Outdoor Unit | | | | RTSQ10P | | RTSQ14P | | RTSQ16P | | RTSQ8P | | |
| Outdoor Unit | | | | | | | | | | RTSQ12P | | |
| Function unit | | | | BTSQ20P | | BTSQ20P | | BTSQ20P | | BTSQ20P | | |
| Capacity | Cooling | | kW | 28.0 | | 40.0 | | 45.0 | | 56.0 | | |
| | Heating (outdoor temp. 7°CDB/6°CWB) | | kW | 31.5 | | 45.0 | | 50.0 | | 63.0 | | |
| | Heating (outdoor temp. -10°CWB) | | kW | 28.0 | | 40.0 | | 45.0 | | 56.0 | | |
| Casing | | Colour | | Ivory white (5Y7,5/1) | | | | | | | | |
| Dimensions | Unit | Height | mm | 1,680 | | | | | | | | |
| | | Width | mm | 930 | | 1,24 | | 1,24 | | 930 + 930 | | |
| | | Depth | mm | 765 | | | | | | | | |
| | Function unit | Height | mm | 1,570 | | | | | | | | |
| | | Width | mm | 460 | | | | | | | | |
| | | Depth | mm | 765 | | | | | | | | |
| Weight | Unit | | kg | 257 | | 338 | | 344 | | 205 + 257 | | |
| | Function unit | | kg | 110 | | | | | | | | |
| Heat Exchanger | | Tube type | | Cross fin coil | | | | | | | | |
| Fan | Type | | | Propeller | | | | | | | | |
| | Piston displacement | | m | (13.72+10.53) + 16.9 | | (13.72+10.53+10.53)+16.9 | | (13.72+10.53+10.53) + 16.9 | | 16.9+(13.72+10.53)+16.9 | | |
| | Air Flow Rate (nominal at 230V) | Cooling | m³/min | 185 | | 233 | | 239 | | (185+200) | | |
| | | Heating | m³/min | 185 | | 233 | | 239 | | (185+200) | | |
| | Motor | Drive | | Direct drive | | | | | | | | |
| | | Output motor | | W | 0.75x1 | | 0.35x2 | | 0.75x2 | | (0.75)+ (0.75) | |
| Compressor | Motor | | Type | Hermetically sealed scroll compressor | | | | | | | | |
| Sound level | Cooling | Starting method | | Soft start | | | | | | | | |
| | | Sound Pressure (Maximum) | | dB(A) | 62 | | 63 | | 65 | | 65 | |
| | | Sound Pressure (Nominal) | | dB(A) | 60 | | 61 | | 63 | | 63 | |
| | | Starting Method | | Soft start | | | | | | | | |
| | | | | R-410A | | | | | | | | |
| Refrigerant | Name | | | | | | | | | | | |
| | Charge | | kg | 10.5 | | 11.7 | | 11.7 | | 9.4+10.9 | | |
| | Control | | Expansion valve (electronic type) | | | | | | | | | |
| Piping connections | Liquid (OD) | Type | Brazed connection | | | | | | | | | |
| | | Diameter (OD) | mm | 9.52 | | 12.7 | | 12.7 | | 15.9 | | |
| | Gas | Type | Brazed connection | | | | | | | | | |
| | | Diameter (OD) | mm | 22.2 | | 28.6 | | 28.6 | | 28.6 | | |
| | Oil equalizing | Type | | | | | | | | | | |
| | | Diameter (OD) | mm | - | | - | | - | | Brazed connection | | |
| Defrost Method | | | | Deicer | | | | | | | | |
| Capacity Control | | | | 9 to 100 | | 7 to 100 | | 7 to 100 | | 6 to 100 | | |
| Safety devices | | | | HPS - Fan motor driver overload protector - Over current relay - Inverter overload protector | | | | | | | | |
| Power Supply | | Name, Phase, Frequency, Voltage | | Y1, 3~, 50, 380-415 | | | | | | | | |

Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB; outdoor temperature 35°CDB; equivalent piping length: 7.5m; level difference 0m; function unit length: 6m
 Nominal heating capacities are based on: indoor temperature: 20°CDB; outdoor temperature 7°CDB, 6°CWB; equivalent piping length: 7.5m; level difference 0m; function unit length: 6m
 Nominal heating capacities are based on: indoor temperature: 20°CDB; outdoor temperature -10°CWB; equivalent piping length: 7.5m; level difference 0m; function unit length: 6m
 RTSYQ10P combined with 5x FXFQ50P, RTSYQ14P combined with 7x FXFQ50P, RTSYQ16P combined with 8x FXFQ50P, RTSYQ20P combined with 10x FXFQ50P

► ACCESSORIES

| | | | | RTSYQ10P | RTSYQ14P RTSYQ16P | RTSYQ20P |
|--|----------------------|--|--|----------|----------------------|-------------|
| Distributive piping | Refnet header | KHRQ22M29H (max.4 branch) | | | | |
| | | KHRQ22M29H (max.8 branch) ¹ | | | | |
| | Refnet joint | KHRQ22M20T | | | | |
| | | KHRQ22M29T9 | | | | |
| Snowbreak hood ² | Kit (inlet + outlet) | KPS26C280 | | | | KHRQ22M75T |
| | Air outlet | KPS26C280T | | | | KPS26C280* |
| | Left side air inlet | KPS26C504L | | | | KPS26C280T* |
| | Right side air inlet | KPS26C504R | | | | KPS26C504L* |
| | Back side air inlet | KPS26C280B | | | | KPS26C504R* |
| Outdoor unit multi connection piping kit | | | | - | - | BHFQ22P1007 |

Note:

- ø25.4 gas pipe in KHRQ22M29H is not available for DENVrefnet. This is only required for the 10HP model using size up AND with an indoor connection ratio of less than 80%
- Snowbreak hoods are field supply. For technical drawings and more information contact your local Daikin dealer.
Snowbreak hoods are advised to be installed when regular snowfall occurs.



SMALL FOOTPRINT COMBINATION

► BENEFITS

COMPACT COMBINATIONS PROVIDE THE SMALLEST FOOTPRINT

Compact combinations from 5 to 54 HP provide the smallest footprint. Up to 33% less installation space needed compared to the high COP combination.

| HP | 12 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 |
|---|------|------|------|------|------|------|------|------|------|------|------|------|
| Small footprint combination Footprint [m ²] | 0.71 | 0.95 | 0.95 | 1.42 | 1.42 | 1.42 | 1.66 | 1.66 | 1.66 | 1.90 | 1.90 | 1.90 |
| High COP combination Footprint [m ²] | 0.95 | 1.42 | 1.42 | 1.66 | 1.66 | 2.13 | 2.13 | 2.13 | 2.37 | 2.61 | 2.61 | 2.85 |
| Footprint ratio | 75% | 67% | 67% | 86% | 86% | 67% | 78% | 78% | 70% | 73% | 73% | 67% |

33% less space needed

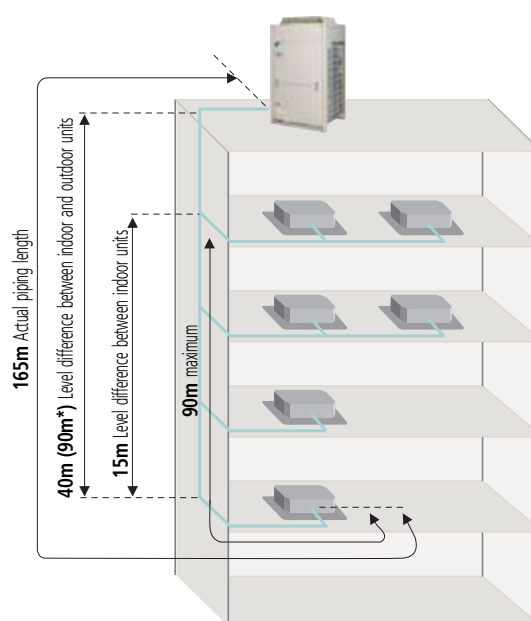
FLEXIBLE PIPING DESIGN

VRV® offers an extended piping length of 165m (190m equivalent piping length) with a total system piping length of 1,000m.

In case the outdoor unit is located above the indoor unit the height difference is 50m standard. It can be extended to 90m*.

In case the outdoor unit is located below the indoor unit, the height difference is 40m standard. Height differences up to maximum 90m are possible*.

After the first branch, the difference between the longest piping length and the shortest piping length can be maximum 40m, provided that the longest piping length amounts to maximum 90m.



* For more information, please contact your local Daikin dealer.

➤ SPECIFICATIONS

VRV® Heat pump - Small footprint combination

| RXYQ-P(A)/P8(A) | | | | 5 | 8 | 10 | 12 | 14 | 16 | 18 |
|--|------------------------------------|----------------|--------|---|-------|-------|-------|-------|-------|-------|
| Nominal capacity | cooling | kW | | 14.0 | 22.4 | 28.0 | 33.5 | 40.0 | 45.0 | 49.0 |
| | heating | kW | | 16.0 | 25.0 | 31.5 | 37.5 | 45.0 | 50.0 | 56.5 |
| COP | heating | | | 4.00 | 4.50 | 4.09 | 3.97 | 3.98 | 3.88 | 3.69 |
| EER | cooling | | | 3.98 | 4.29 | 3.77 | 3.48 | 3.23 | 3.17 | 3.02 |
| Capacity range | | HP | | 5 | 8 | 10 | 12 | 14 | 16 | 18 |
| Max n° of indoor units to be connected | | | | 8 | 13 | 16 | 19 | 23 | 26 | 29 |
| Indoor index connection | minimum | | | 62.5 | 100 | 125 | 150 | 175 | 200 | 225 |
| | maximum (130%) | | | 162.5 | 260 | 325 | 390 | 455 | 520 | 585 |
| Casing | colour | | | Daikin White | | | | | | |
| | material | | | Painted galvanised steel | | | | | | |
| Dimensions | unit | height | mm | 1,680 | 1,680 | 1,680 | 1,680 | 1,680 | 1,680 | 1,680 |
| | | width | mm | 635 | 930 | 930 | 930 | 1,240 | 1,240 | 1,240 |
| | | depth | mm | 765 | 765 | 765 | 765 | 765 | 765 | 765 |
| Weight | unit | kg | | 159 | 187 | 240 | 240 | 316 | 316 | 324 |
| Fan | type | | | Propeller | | | | | | |
| | air flow rate (nominal at 230V) | cooling | m³/min | 95 | 171 | 185 | 196 | 233 | 233 | 239 |
| | | heating | m³/min | 95 | 171 | 185 | 196 | 233 | 233 | 239 |
| Compressor | external static pressure (MAX) | Pa | | 78Pa in high static pressure | | | | | | |
| | type | | | Hermetically sealed scroll compressor | | | | | | |
| Operation range | cooling | minimum | °CDB | -5.0 | | | | | | |
| | | maximum | °CDB | 43.0 | | | | | | |
| | heating | minimum | °CWB | -20.0 | | | | | | |
| | | maximum | °CWB | 15.0 | | | | | | |
| Sound level (nominal) | cooling | sound power | dBA | 72 | 78 | 78 | 80 | 80 | 80 | 83 |
| | | sound pressure | dBA | 54 | 57 | 58 | 60 | 60 | 60 | 63 |
| Refrigerant | type | | | R-410A | | | | | | |
| | charge | kg | | 6.2 | 7.7 | 8.4 | 8.6 | 11.3 | 11.5 | 11.7 |
| | control | | | Expansion valve (electronic type) | | | | | | |
| Refrigerant Oil | type | | | Synthetic (ether) oil | | | | | | |
| | charged Volume | l | | 1.7 | 2.1 | 3.9 | 3.9 | 5.7 | 5.7 | 5.8 |
| Piping Connections | liquid | type | | Braze connection | | | | | | |
| | | diameter (OD) | mm | 9.52 | 9.52 | 9.52 | 12.7 | 12.7 | 12.7 | 15.9 |
| | gas | type | | Braze connection | | | | | | |
| | | diameter (OD) | mm | 15.9 | 19.1 | 22.2 | 28.6 | 28.6 | 28.6 | 28.6 |
| | heat insulation | | | Both liquid and gas pipes | | | | | | |
| | max. total length | m | | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 |
| Defrost method | | | | Reversed cycle | | | | | | |
| Defrost control | | | | Sensor for outdoor heat exchanger temperature | | | | | | |
| Capacity control method | | | | Inverter controlled | | | | | | |
| Capacity control [%] | | | | ~ 100 | | | | | | |
| Safety devices | | | | HPS, fan motor driver overload protector, overcurrent relay, inverter overload protector, PC board fuse | | | | | | |
| Power supply | name | | | W1 | | | | | | |
| | phase | | | 3N~ | | | | | | |
| | frequency | Hz | | 50 | | | | | | |
| | voltage | V | | 400 | | | | | | |

Notes: Nominal cooling capacities are based on : indoor temperature : 27°CDB, 19°CWB, outdoor temperature : 35°CDB, equivalent refrigerant piping : 7.5m, level difference: 0m.
 Nominal heating capacities are based on : indoor temperature : 20°CDB, outdoor temperature : 7°CDB, 6°CWB, equivalent refrigerant piping : 7.5m, level difference: 0m
 Sound power level is an absolute value that a sound source generates.
 Sound pressure level is a relative value, depending on the distance and acoustic environment.
 Sound values are measured in a semi-anechoic room.



| RXYQ-P(A)/P8(A) | | | | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 |
|--|--------------------------------|---------------|-----------------------------------|---|-----------|-----------|------------|------------|------------|-------------|-------------|-------------|
| Modules | RXYQ8P8 | | | 1 | | | 1 | | | | | |
| | RXYQ10P | | | | 1 | | | 1 | | | | |
| | RXYQ12P | | | 1 | 1 | 2 | | | 1 | | | |
| | RXYQ14PA | | | | | | | | | 1 | | |
| | RXYQ16PA | | | | | | | | | | 1 | |
| | RXYQ18PA | | | | | | 1 | 1 | 1 | 1 | 1 | 2 |
| Nominal capacity | cooling | kW | | 55.9 | 61.5 | 67.0 | 71.4 | 77.0 | 82.5 | 89.0 | 94.0 | 98.0 |
| | heating | kW | | 62.5 | 69.0 | 75.0 | 81.5 | 88.0 | 94.0 | 102.0 | 107.0 | 113.0 |
| COP | heating | | | 4.18 | 4.04 | 3.97 | 3.94 | 3.83 | 3.81 | 3.83 | 3.79 | 3.69 |
| EER | cooling | | | 3.80 | 3.62 | 3.49 | 3.41 | 3.26 | 3.20 | 3.11 | 3.09 | 3.02 |
| Capacity range | | HP | | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 |
| Max n° of indoor units to be connected | | | | 32 | 35 | 39 | 42 | 45 | 49 | 52 | 55 | 58 |
| Indoor index connection | minimum | | | 250 | 275 | 300 | 325 | 350 | 375 | 400 | 425 | 450 |
| | maximum (130%) | | | 650 | 715 | 780 | 845 | 910 | 975 | 1,040 | 1,105 | 1,170 |
| Casing | colour | | | Daikin White | | | | | | | | |
| | material | | | Painted galvanised steel | | | | | | | | |
| Dimensions | unit | height | mm | - | - | - | - | - | - | - | - | - |
| | | width | mm | - | - | - | - | - | - | - | - | - |
| | | depth | mm | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | | | | |
| Fan | type | | | Propeller | | | | | | | | |
| | air flow rate | cooling | m3/min | 171 + 196 | 185 + 196 | 196 + 196 | 171 + 239 | 185 + 239 | 196 + 239 | 233 + 239 | 233 + 239 | 239 + 239 |
| | (nominal at 230V) | heating | m3/min | 171 + 196 | 185 + 196 | 196 + 196 | 171 + 239 | 185 + 239 | 196 + 239 | 233 + 239 | 233 + 239 | 239 + 239 |
| | External static pressure (MAX) | | | Pa | | | | | | | | |
| Compressor | | type | | 78Pa in high static pressure | | | | | | | | |
| Operation range | type | | | Hermetically sealed scroll compressor | | | | | | | | |
| | cooling | minimum | °CDB | -5.0 | | | | | | | | |
| | | maximum | °CDB | 43.0 | | | | | | | | |
| | heating | minimum | °CWB | -20.0 | | | | | | | | |
| | | maximum | °CWB | 15.0 | | | | | | | | |
| | Refrigerant | type | | | R-410A | | | | | | | |
| charge | | kg | | 7.7 + 8.6 | 8.4 + 8.6 | 8.6 + 8.6 | 7.7 + 11.7 | 8.4 + 11.7 | 8.6 + 11.7 | 11.3 + 11.7 | 11.5 + 11.7 | 11.7 + 11.7 |
| control | | | Expansion valve (electronic type) | | | | | | | | | |
| Maximum total refrigerant charge in the system | | | kg | Less than 100 (calculated charge less than 95) | | | | | | | | |
| Refrigerant Oil | | type | | Synthetic (ether) oil | | | | | | | | |
| charged volume | | | | 2.1 + 3.9 | 3.9 + 3.9 | 3.9 + 3.9 | 2.1 + 5.8 | 3.9 + 5.8 | 3.9 + 5.8 | 5.7 + 5.8 | 5.7 + 5.8 | 5.8 + 5.8 |
| Piping Connections | liquid | type | | Brazed connection | | | | | | | | |
| | | diameter (OD) | mm | 15.9 | 15.9 | 15.9 | 19.1 | 19.1 | 19.1 | 19.1 | 19.1 | 19.1 |
| | gas | type | | Brazed connection | | | | | | | | |
| | | diameter (OD) | mm | 28.6 | 28.6 | 34.9 | 34.9 | 34.9 | 34.9 | 34.9 | 34.9 | 41.3 |
| | heat insulation | | | Both liquid and gas pipes | | | | | | | | |
| max. total length | | | m | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 |
| Defrost method | | | | Reversed cycle | | | | | | | | |
| Defrost control | | | | Sensor for outdoor heat exchanger temperature | | | | | | | | |
| Capacity control method | | | | Inverter controlled | | | | | | | | |
| Capacity control [%] | | | | ~ 100 | | | | | | | | |
| Safety devices | | | | HPS, fan motor driver overload protector, overcurrent relay, inverter overload protector, PC board fuse | | | | | | | | |
| Power supply | name | | | W1 | | | | | | | | |
| | phase | | | 3N~ | | | | | | | | |
| | frequency | Hz | | 50 | | | | | | | | |
| | voltage | V | | 400 | | | | | | | | |

Notes: Nominal cooling capacities are based on : indoor temperature : 27°CDB, 19°CWB, outdoor temperature : 35°CDB, equivalent refrigerant piping : 7.5m, level difference: 0m.
 Nominal heating capacities are based on : indoor temperature : 20°CDB, outdoor temperature : 7°CDB, 6°CWB, equivalent refrigerant piping : 7.5m, level difference: 0m
 Sound level of a multi system is determined by the individual outdoor unit and installation condition
 The refrigerant charge of the system must be less than 100 kg. This means that in case the calculated refrigerant charge is equal to or more than 95 kg, you must divide your multiple outdoor system into smaller independent systems, each containing less than 95 kg refrigerant charge. For factory charge, refer to the namplate of the unit.

| RXYQ-P(A)/P8(A) | | | | 38 | 40 | 42 | 44 | 46 | 48 | 50 | 52 | 54 |
|--|--|--------------------------------|-----------------------------------|---|------------------|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|-----------------|
| Modules | RXYQ8P8 | | | 1 | | | 1 | | | | | |
| | RXYQ10P | | | | 1 | | | 1 | | | | |
| | RXYQ12P | | | 1 | 1 | 2 | | | 1 | | | |
| | RXYQ14PA | | | | | | | | | 1 | | |
| | RXYQ16PAA | | | | | | | | | | 1 | |
| | RXYQ18PA | | | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 3 |
| Nominal capacity | cooling | | kW | 105.0 | 111.0 | 116.0 | 120.0 | 126.0 | 132.0 | 138.0 | 143.0 | 147.0 |
| | heating | | kW | 119.0 | 126.0 | 132.0 | 138.0 | 145.0 | 151.0 | 158.0 | 163.0 | 170.0 |
| COP | heating | | | 3.95 | 3.89 | 3.86 | 3.84 | 3.79 | 3.78 | 3.77 | 3.75 | 3.70 |
| EER | cooling | | | 3.43 | 3.34 | 3.28 | 3.25 | 3.17 | 3.14 | 3.08 | 3.07 | 3.02 |
| Capacity range | | | HP | 38 | 40 | 42 | 44 | 46 | 48 | 50 | 52 | 54 |
| Max n° of indoor units to be connected | | | | 61 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 |
| Indoor index connection | minimum | | | 475 | 500 | 525 | 550 | 575 | 600 | 625 | 650 | 675 |
| | maximum (130%) | | | 1,235 | 1,300 | 1,365 | 1,430 | 1,495 | 1,560 | 1,625 | 1,690 | 1,755 |
| Casing | colour | | | Daikin White | | | | | | | | |
| | material | | | Painted galvanised steel | | | | | | | | |
| Dimensions | unit | height | mm | - | - | - | - | - | - | - | - | - |
| | | width | mm | - | - | - | - | - | - | - | - | - |
| | | depth | mm | - | - | - | - | - | - | - | - | - |
| Fan | type | | | Propeller | | | | | | | | |
| | air flow rate (nominal at 230V) | cooling | m³/min | 171 + 196 + 239 | 185 + 196 + 239 | 196 + 196 + 239 | 171 + 239 + 239 | 185 + 239 + 239 | 196 + 239 + 239 | 233 + 239 + 239 | 233 + 239 + 239 | 239 + 239 + 239 |
| | | heating | m³/min | 171 + 196 + 239 | 185 + 196 + 239 | 196 + 196 + 239 | 171 + 239 + 239 | 185 + 239 + 239 | 196 + 239 + 239 | 233 + 239 + 239 | 233 + 239 + 239 | 239 + 239 + 239 |
| | | external static pressure (MAX) | Pa | 78 Pa in high static pressure | | | | | | | | |
| Compressor | | type | | Hermetically sealed scroll compressor | | | | | | | | |
| Operation range | cooling | minimum | °CDB | -5.0 | | | | | | | | |
| | | maximum | °CDB | 43.0 | | | | | | | | |
| | heating | minimum | °CWB | -20.0 | | | | | | | | |
| | | maximum | °CWB | 15.0 | | | | | | | | |
| Refrigerant | type | | | R-410A | | | | | | | | |
| | charge | kg | 7.7 + 8.6 + 11.7 | 8.4 + 8.6 + 11.7 | 8.6 + 8.6 + 11.7 | 7.7 + 11.7 + 11.7 | 8.4 + 11.7 + 11.7 | 8.6 + 11.7 + 11.7 | 11.3 + 11.7 + 11.7 | 11.5 + 11.7 + 11.7 | 11.7 + 11.7 + 11.7 | |
| | control | | Expansion valve (electronic type) | | | | | | | | | |
| Maximum total refrigerant charge in the system | | | kg | Less than 100 (calculated charge less than 95) | | | | | | | | |
| Refrigerant Oil | type | | | Synthetic (ether) oil | | | | | | | | |
| | charged Volume | | l | 2.9 + 3.9 + 5.8 | 3.9 + 3.9 + 5.8 | 3.9 + 3.9 + 5.8 | 2.1 + 5.8 + 5.8 | 3.9 + 5.8 + 5.8 | 3.9 + 5.8 + 5.8 | 5.7 + 5.8 + 5.8 | 5.7 + 5.8 + 5.8 | 5.8 + 5.8 + 5.8 |
| Piping Connections | liquid | type | | Brazed connection | | | | | | | | |
| | | diameter (OD) | mm | 19.1 | 19.1 | 19.1 | 19.1 | 19.1 | 19.1 | 19.1 | 19.1 | 19.1 |
| | gas | type | | Brazed connection | | | | | | | | |
| | | diameter (OD) | mm | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 |
| heat Insulation | | Both liquid and gas pipes | | | | | | | | | | |
| max. total length | | | m | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 |
| Defrost method | | | | Reversed cycle | | | | | | | | |
| Defrost control | | | | Sensor for outdoor heat exchanger temperature | | | | | | | | |
| Capacity control method | | | | Inverter controlled | | | | | | | | |
| Capacity control [%] | | | | ~ 100 | | | | | | | | |
| Safety devices | | | | HPS, fan motor driver overload protector, overcurrent relay, inverter overload protector, PC board fuse | | | | | | | | |
| Power supply | name | | | W1 | | | | | | | | |
| | phase | | | 3N~ | | | | | | | | |
| | frequency | | Hz | 50 | | | | | | | | |
| | voltage | | V | 400 | | | | | | | | |

Notes: Nominal cooling capacities are based on : indoor temperature : 27°CDB, 19°CWB, outdoor temperature : 35°CDB, equivalent refrigerant piping: 7.5m, level difference: 0m.
 Nominal heating capacities are based on : indoor temperature : 20°CDB, outdoor temperature : 7°CDB, 6°CWB, equivalent refrigerant piping: 7.5m, level difference: 0m
 Sound level of a multi system is determined by the individual outdoor unit and installation condition
 The refrigerant charge of the system must be less than 100 kg. This means that in case the calculated refrigerant charge is equal to or more than 95 kg, you must divide your multiple outdoor system into smaller independent systems, each containing less than 95 kg refrigerant charge. For factory charge, refer to the nameplate of the unit.



➤ ACCESSORIES

| VRV® HEAT PUMP | | RXYQ5P | RXYQ8P8 RXYQ10P | RXYQ12P | RXYQ14-18PA | RXYQ20-54P(A)/P8(A) |
|---|---------------------|-----------|--------------------|-------------|-------------|---------------------|
| Cool/heat selector | | | | KRC19-26A6 | | |
| Fixing box | | | | KJB111A | | |
| REFNET header | | - | - | KHRQ22M29H | | |
| | | - | - | - | - | KHRQ22M75H |
| REFNET joint | | | | KHRQ22M20T | | |
| | | - | | KHRQ22M29T9 | | |
| | | - | - | KHRQ22M64T | | |
| Outdoor unit multi connection kit | for 2 outdoor units | - | - | - | - | KHRQ22M75T |
| | for 3 outdoor units | - | - | - | - | BHFQ22P1007 |
| Central drain pan kit | | KWC26B160 | KWC26B280 | KWC26B280 | KWC26B450 | see note 2 |
| Digital pressure gauge kit | | | | BHGP26A1 | | see note 3 |
| Increase height difference between indoor & outdoor to 90m (see note 5) | | - | EKLD90P12 | EKLD90P12 | EKLD90P18 | see note 4 |

1 All options are kits

2 Central drain pan kit shall be combined based on the outdoor unit combination table

3 Only 1 option per installation is needed

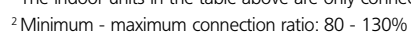
4 1 option per module is required

5 The option should be installed inside the outdoor unit, only needed in case outdoor unit is installed above indoor



Via the BP box (BPMKS967B2/B3) up to 29 indoor units are connectable to an 18HP outdoor unit.

| | | Capacity | | | | | | |
|--|------------------|----------|----|----|----|----|----|----|
| Model | Product name | 20 | 25 | 35 | 42 | 50 | 60 | 71 |
| Roundflow ceiling mounted cassette | FCQ-C | | | | | | | |
| 4-way blow ceiling mounted cassette | FFQ-B | | | | | | | |
| Small concealed ceiling unit | FDBQ-B | | | | | | | |
| Slim concealed ceiling unit | FDXS-E/C | | | | | | | |
| Inverter driven concealed ceiling unit | FBQ-C | | | | | | | |
| Wall mounted unit | FTXG-E CTXG-E | | | | | | | |
| Wall mounted unit | FTXS-G | | | | | | | |
| Wall mounted unit | FTXS-F | | | | | | | |
| Ceiling suspended unit | FHQ-B | | | | | | | |
| Floor standing unit | FVXS-F | | | | | | | |
| Flexi type unit | FLXS-B | | | | | | | |



► SPECIFICATIONS

VRV® Heat pump with connection to stylish indoor units

| RXYQ-PR | | | | 8 | 10 | 12 | 14 | 16 | 18 |
|--|--------------------------------|------------------|--------|---|------|------|-------|------|------|
| Nominal capacity | cooling | | kW | 22.4 | 28.0 | 33.5 | 40.0 | 45.0 | 49.0 |
| | heating | | kW | 25.0 | 31.5 | 37.5 | 45.0 | 50.0 | 56.5 |
| Capacity range | | | HP | 8 | 10 | 12 | 14 | 16 | 18 |
| Max n° of indoor units to be connected | | | | 13 | 16 | 19 | 23 | 26 | 29 |
| Indoor index connection | minimum | | | 160 | 200 | 240 | 280 | 320 | 360 |
| | maximum (130%) | | | 260 | 325 | 390 | 455 | 520 | 585 |
| Casing | colour | | | Daikin White | | | | | |
| | material | | | Painted galvanised steel | | | | | |
| Dimensions | unit | height | mm | 1,680 | | | | | |
| | | width | mm | 930 | | | 1,240 | | |
| | | depth | mm | 765 | | | | | |
| Weight | unit | | kg | 187 | 240 | | 316 | | 324 |
| Fan | type | | | Propeller | | | | | |
| | air flow rate (nominal) | cooling | m³/min | 171 | 185 | 196 | 233 | | 239 |
| | | heating | m³/min | 171 | 185 | 196 | 233 | | 239 |
| | external static pressure (max) | | Pa | 78 Pa in high static pressure | | | | | |
| Compressor | | | type | Hermetically sealed scroll compressor | | | | | |
| Operation range | cooling | minimum | °CDB | -5.0 | | | | | |
| | | maximum | °CDB | 43.0 | | | | | |
| | heating | minimum | °CWB | -20.0 | | | | | |
| | | maximum | °CWB | 15.0 | | | | | |
| Sound level (nominal) | cooling | sound power | dBA | 78 | | | 80 | | 83 |
| | | sound pressure) | dBA | 57 | 58 | | 60 | | 63 |
| Refrigerant | type | | | R-410A | | | | | |
| | charge | kg | | 7.7 | 8.4 | 8.6 | 11.3 | 11.5 | 11.7 |
| | control | | | Expansion valve (electronic type) | | | | | |
| Refrigerant Oil | type | | | Synthetic (ether) oil | | | | | |
| | charged volume | | l | 2.1 | 4.3 | | 6.6 | | 6.7 |
| Piping Connections | liquid | type | | Brazed connection | | | | | |
| | | diameter (od) | mm | 9.52 | | | 12.7 | | |
| | gas | type | | Brazed connection | | | | | |
| | | diameter (od) | mm | 19.1 | 22.2 | 28.6 | | | |
| | heat insulation | | | Both liquid and gas pipes | | | | | |
| max. total length | | | m | 135 | | | | | |
| Defrost method | | | | Reversed cycle | | | | | |
| Defrost control | | | | Sensor for outdoor heat exchanger temperature | | | | | |
| Capacity control method | | | | Inverter controlled | | | | | |
| Capacity control [%] | | | | ~ 100 | | | | | |
| Safety devices | | | | HPS | | | | | |
| | | | | Fan motor driver overload protector | | | | | |
| | | | | Over current relay | | | | | |
| | | | | Inverter overload protector | | | | | |
| | | | | PC board fuse | | | | | |
| Power supply | name | | | W1 | | | | | |
| | phase | | | 3N~ | | | | | |
| | frequency | | Hz | 50 | | | | | |
| | voltage | | V | 400 | | | | | |

Notes: Nominal cooling capacities are based on : indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 7.5m, level difference: 0m.
 Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping : 7.5m, level difference : 0m
 Sound power level is an absolute value that a sound source generates.
 Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to sound level drawings.
 Sound values are measured in a semi-anechoic room.

BP Box for connection to stylish indoor units

| BPMKS967 | | | B2 | B3 |
|---|--|--|------------------|------------------------|
| Max. n° of indoor units to be connected | | | 2 | 3 |
| Max. indoor unit connectable capacity | | | 14.2 (7.1 + 7.1) | 20.8 (6.0 + 7.1 + 7.1) |
| Dimensions (Height x Width x Depth) | | | 180 x 294 x 350 | |
| Weight | | | 7 | 8 |

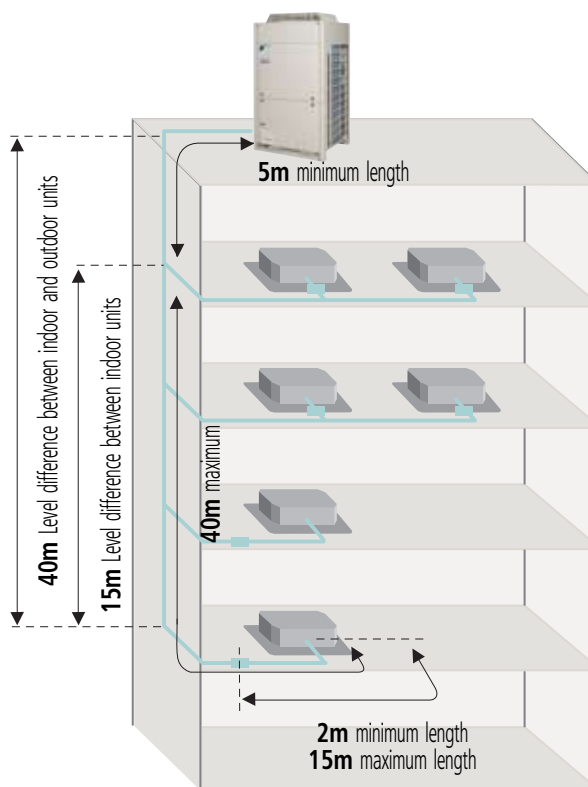
PIPING DESIGN

The VRV® heat pump with connection to stylish indoor units offers a total system piping length of 135 m. (Total main piping length ≤ 55m (between outdoor and BP box) + Total branch piping length ≤ 80m (between BP box and indoor)).

The minimum piping length between the outdoor unit and the first branch is 5m. The minimum piping length between the BP box and the indoor unit is 2m, the maximum length is 15m.

After the first branch, the longest piping length is 40m.

The height difference between the outdoor and indoor unit or BP box can be maximum 40m.



➤ ACCESSORIES

| VRV® HEAT PUMP | RXYQ8PR RXYQ10PR | RXYQ12PR | RXYQ14-18PR |
|---|---------------------|-------------|-------------|
| Cool/heat selector | | KRC19-26A6 | |
| Fixing box | | KJB111A | |
| REFNET header | | KHRQ22M29H | |
| | - | | KHRQ22M64H |
| REFNET joint | | KHRQ22M20T | |
| | | KHRQ22M29T9 | |
| | - | | KHRQ22M64T |
| Central drain pan kit | KWVC26B280 | | KWVC26B450 |
| Digital pressure gauge kit | | BHGP26A1 | |
| BS Box for connection to stylish indoor units | | BPMKS967B2 | |
| | | BPMKS967B3 | |

1 All options are kits

2 Central drain pan kit shall be combined based on the outdoor unit combination table

3 Only 1 option per installation is needed

4 1 option per module is required

5 The option should be installed inside the outdoor unit, only needed in case outdoor unit is installed above indoor



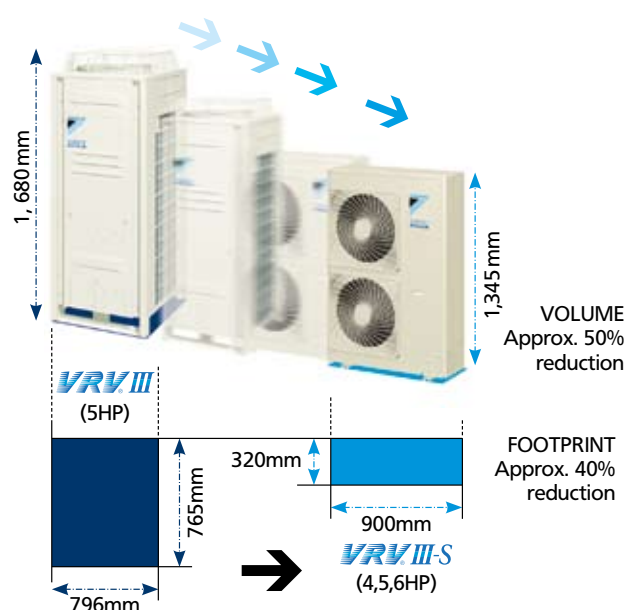


VRV®III-S HEAT PUMP

► BENEFITS

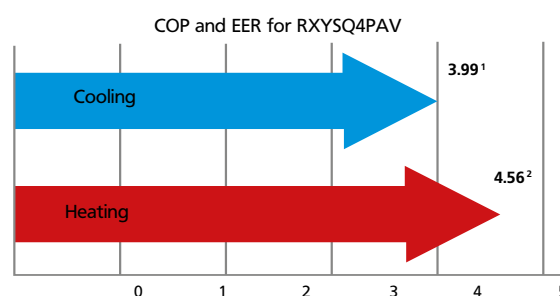
SPACE SAVING DESIGN

The VRV®III-S is slimmer and more compact, resulting in significant savings in installation space.



HIGH COP VALUES

A major feature of VRV®III-S is its exceptional energy efficiency. The system achieves high COPs during both cooling and heating operation by the use of refined components and functions.



¹ Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°C, equivalent refrigerant piping: 5m, level difference: 0m.

² Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m

FLEXIBLE PIPING DESIGN

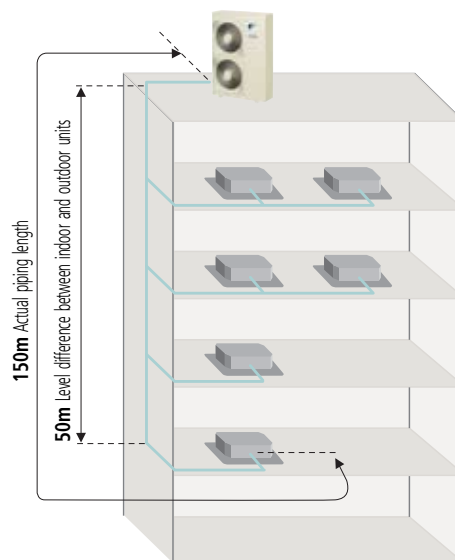
The VRV®III-S provides the long piping length possibility of 150m¹ (175m equivalent piping length), with a total piping length of 300m. If the outdoor unit is installed above the indoor units, the height difference can be up to a maximum of 50m².

These generous allowances facilitate an extensive variety of system designs.

Notes:

¹ 40 m when the outdoor unit is installed below indoor units.

² Maximum piping length between the indoor unit and the first branch is 40 m.



➤ ADVANCED TECHNOLOGIES

1 SUPER AERO GRILLE

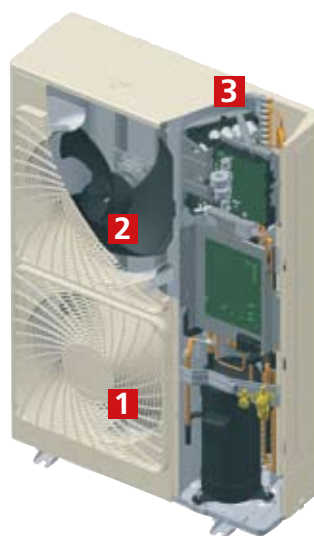
The spiral shaped ribs are aligned with the direction of discharge flow in order to minimise turbulence and reduce noise.

2 SMOOTH AIR INLET BELL MOUTH AND AERO SPIRAL FAN

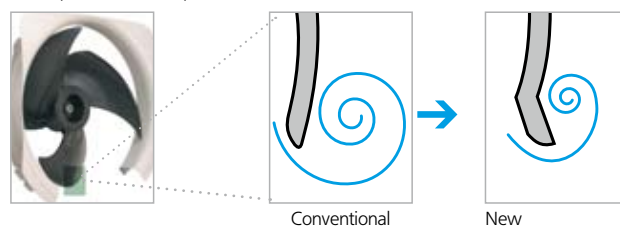
These features assist in significantly reducing noise. Guides are added to the bell mouth intake to reduce turbulence in the air flow generated by fan suction. The aero spiral fan features fan blades with bent blade edges, further reducing turbulence.

3 E-BRIDGE CIRCUIT

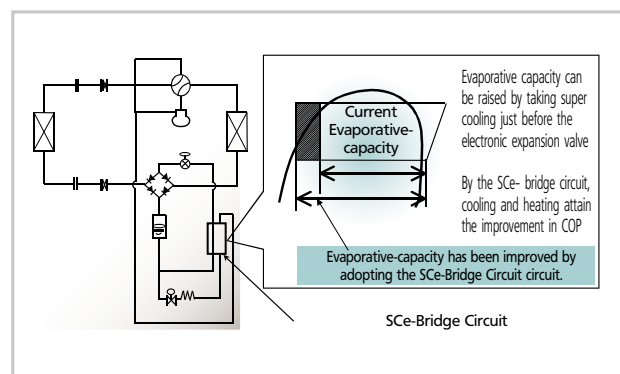
Prevents accumulation of liquid refrigerant in the condenser. This results in more efficient use of the condenser surface under all conditions and leads in turn to better energy efficiency. Increased evaporative capacity stems from the newly developed refrigeration circuit, the SCe-bridge circuit, which adds super cooling prior to the expansion cycle. By adopting this circuit, the COPs in both cooling and heating have been drastically improved.



Aero spiral fan blade tips



Escaping edges are sucked in by the bent blade edges, reducing overall turbulence.



► SPECIFICATIONS

VRV® III-S Heat pump

| RXYSQ-PAV / RXYSQ-PAY | | | | 4 | 5 | 6 |
|--|------------------------------------|----------------|-------|---|--------------|---------------|
| Nominal capacity | cooling | kW | | 11.2 | 14.0 | 15.5 |
| | heating | kW | | 12.5 | 16.0 | 18.0 |
| COP | heating | | | 4.56 / 4.43 | 4.15 / 4.03 | 3.94 / 3.83 |
| EER | cooling | | | 3.99 / 3.88 | 3.99 / 3.88 | 3.42 / 3.33 |
| Capacity range | | HP | | 4 | 5 | 6 |
| Max n° of indoor units to be connected | | | | 6 | 8 | 9 |
| Indoor index connection | minimum | | | 50 | 62.5 | 70 |
| | maximum | | | 130 | 162.5 | 182 |
| Casing | colour | | | Daikin white | | |
| | material | | | Painted galvanised steel | | |
| Power supply | | V3 | | 1 ~, 50Hz, 220-240V / 3 ~, 50Hz, 380-415V | | |
| Dimensions | unit | height | mm | 1,345 | | |
| | | width | mm | 900 | | |
| | | depth | mm | 320 | | |
| Weight | unit | | kg | 125/120 | | |
| Fan | type | | | Propeller | | |
| | air Flow Rate (nominal at 230V) | cooling | m/min | 106 | 106 | 106 |
| | | heating | m/min | 102 | 105 | 105 |
| Compressor | type | | | Hermetically sealed scroll compressor | | |
| | starting method | | | Direct on line | | |
| Operation range | cooling | minimum | °CDB | -5.0 | | |
| | | maximum | °CDB | 46 | | |
| | heating | minimum | °CWB | -20 | | |
| | | maximum | °CWB | 15.5 | | |
| Sound level (nominal) | cooling | sound power | dBA | 66 | 67 | 69 |
| | | sound pressure | dBA | 50 | 51 | 53 |
| | heating | sound pressure | dBA | 52 | 53 | 55 |
| Refrigerant | type | | | R-410A | | |
| | charge | kg | | 4.0 | | |
| | control | | | Expansion valve (electronic type) | | |
| Refrigerant Oil | type | | | Daphne FVC68D | | |
| | charged | Volume | l | 1.5 | | |
| Piping Connections | liquid | diameter (OD) | mm | 9.52 (Flare) | 9.52 (Flare) | 9.52 (Flare) |
| | gas | diameter (OD) | mm | 15.9 (Flare) | 15.9 (Flare) | 19.1 (Brazed) |
| | heat Insulation | | | Both liquid and gas pipes | | |
| max. total length | | m | | 300 | | |
| Safety devices | | | | HPS, fan motor thermal protection, inverter overload protector, PC board fuse | | |

Notes: Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 30°C, equivalent refrigerant piping: 7.5m, level difference: 0m.
 Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 7.5m, level difference: 0m.
 Sound power level is an absolute value that a sound source generates.
 Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to sound level drawings.
 Sound values are measured in a semi-anechoic room.

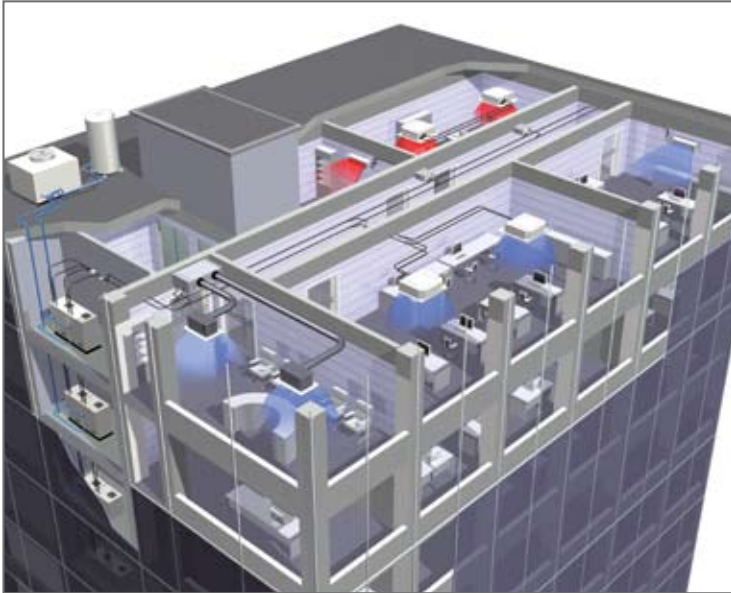
► ACCESSORIES

| | RXYSQ4PAV / RXYSQ4PAY | RXYSQ5PAV / RXYSQ5PAY | RXYSQ6PAV / RXYSQ6PAY |
|--------------------|-----------------------|-----------------------|-----------------------|
| Cool/heat selector | | KRC19-26A6 | |
| Fixing box | | KJB111A | |
| Refnet header | | KHRQ22M29H | |
| Refnet joint | | KHRQ22M20T | |
| Central drain plug | | KKPJ5F180 | |

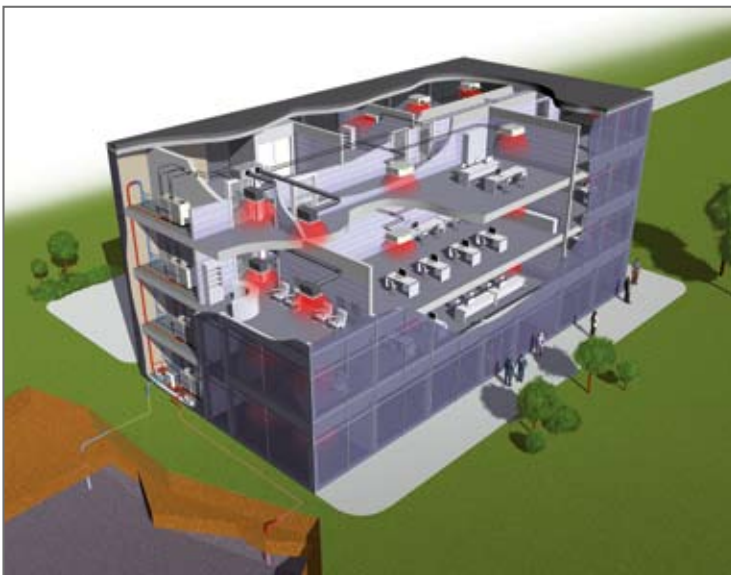
WATER COOLED VRV® OUTDOOR SYSTEMS

Despite the remarkable energy efficiency and installation flexibility of the air cooled VRV®, there are some applications for which the water cooled version provides a more economic and sustainable solution. These apply primarily to **MULTI STOREY HIGH RISE COMPLEXES** in which maximum refrigerant pipe distances can sometimes invalidate the use of an air cooled system. Further situations which are ideal for water cooled VRV® use include buildings lacking adequate roof or external space for outdoor condensing units and projects with particularly stringent noise regulations.

The water cooled VRV® is now available in 9 models between 8 and 30 HP, in heat recovery, heat pump and most recently, **GEOTHERMAL** variants. The fast growing geothermal sector in fact, provides an ideal opportunity for ground source heat pumps and offers considerably future potential for its use in very low carbon installations.



STANDARD SERIES



GEOHERMAL SERIES

BENEFITS

P 64

ADVANCED VRV® TECHNOLOGIES

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VRV®-W STANDARD SERIES -
HEAT RECOVERY AND HEAT PUMP

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VRV®-W GEOHERMAL SERIES -
HEAT RECOVERY AND HEAT PUMP

P 73



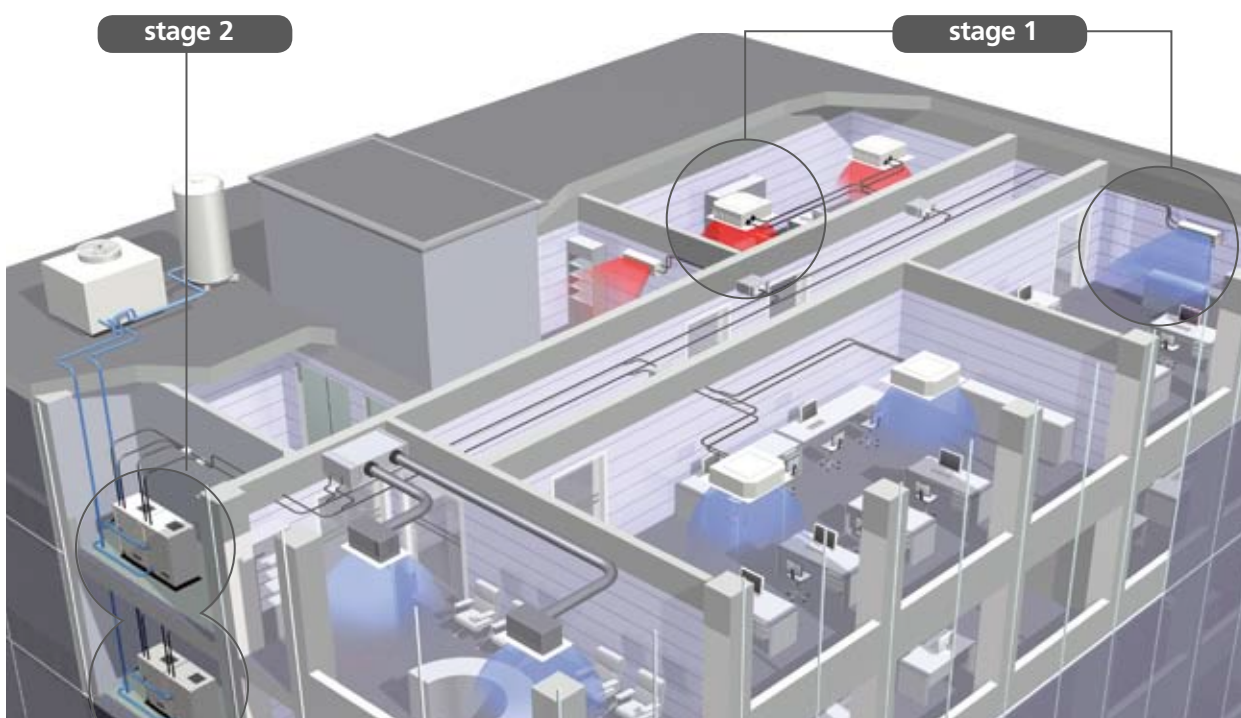
BENEFITS

HIGH ENERGY EFFICIENCIES RESULTS FROM 2-STAGE HEAT RECOVERY

VRV®-W benefits from a 2-stage heat recovery facility. The first stage is achieved within the refrigerant system and applies to heat recovery units only. Heat exhausted from indoor units in cooling mode is merely transferred to units in areas requiring heating, maximising energy efficiency and reducing electricity costs.

Heat recovery also available on heat pump units

Second stage heat recovery is achieved within the water loop between the water cooled outdoor units. Two-stage heat recovery substantially improves energy efficiency and represents an ideal solution to the requirements of modern office buildings, in which some areas may require cooling even in winter, depending on the degree of sunshine at the time and the number of individuals in the room.



Stage 1: For heat recovery

Simultaneous heating and cooling within the refrigerant system.

When mainly cooling is required, the system recycles heat exhausted from the cooling operation for heating purposes.

When mainly heating is required, the system uses cooled post-heating operation refrigerant for cooling. Efficiency improves the more simultaneous operation is performed.

Stage 2: For heat recovery and heat pump!

Heat recovery between the water cooled outdoor units

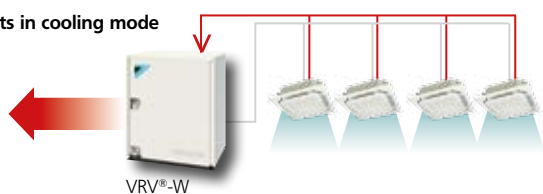
For heat recovery and heat pump units!

Heat recovery is also available between systems connected to the same water loop. These systems exchange heat via water, increasing energy efficiency.

Heat recovery between indoor units

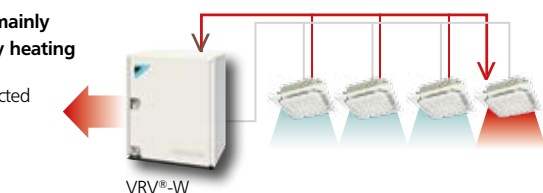
All indoor units in cooling mode

Heat rejected to loop

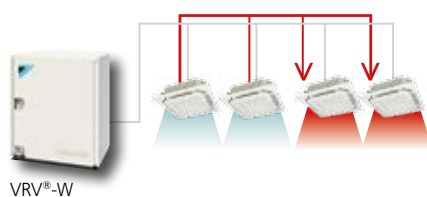


Indoor units mainly cooling, partly heating

Heat partly rejected to loop

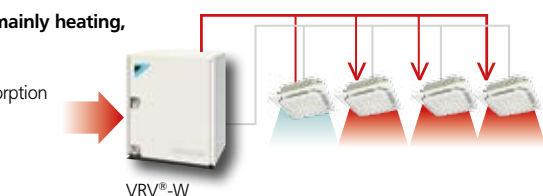


Full Heat Recovery



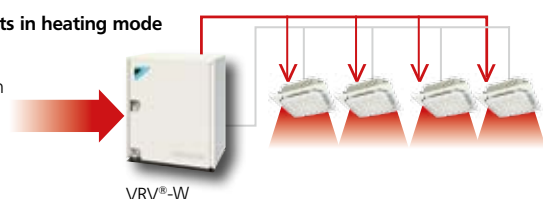
Indoor units mainly heating, partly cooling

Partly heat absorption from loop



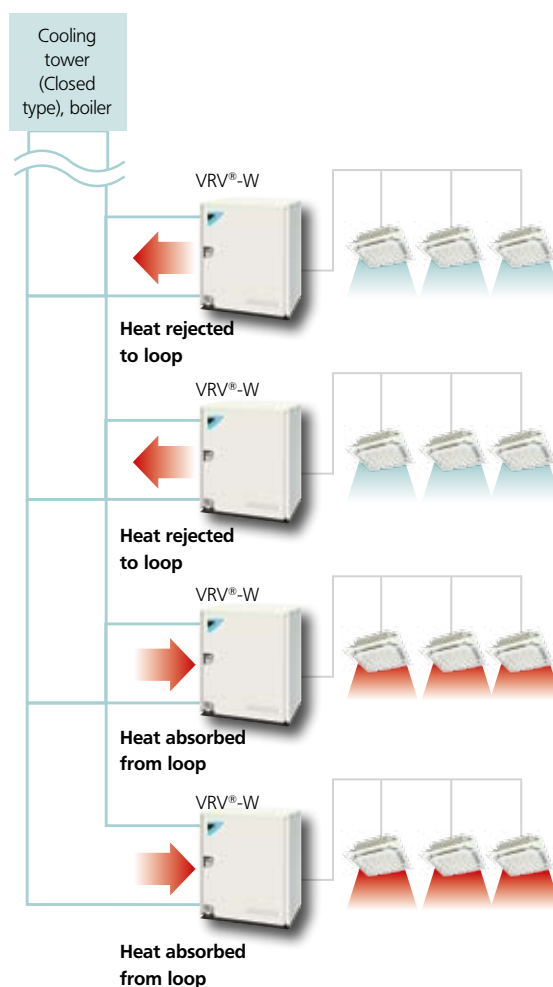
All indoor units in heating mode

Heat absorption from loop



Heat recovery between outdoor units

(Heat recovery and heat pump)



Note* Above system configurations are for illustration purposes only.

FLEXIBLE PIPING DESIGN

Flexible water piping

Water cooled VRV® uses water as its heat source, so it is optimal for large buildings, including tall, multi-storey buildings, because the system can tolerate water pressure of up to 1.96 MPa.

Furthermore, if the currently installed heat source's water temperature is between 10°C and 45°C, it may be possible to use the existing water pipe work and heat source. This alone makes it an ideal system solution for building refurbishment projects.

Because the system is water cooled, outdoor air temperature does not affect its heating capacity. In addition, water cooling means no defrost operation is required, and the resultant rapid start-up time assures quick and comfortable heating, even in cold environment.

Long refrigerant piping length

Considerable flexibility is available within the refrigerant circuit since up to 120m actual piping length and 50m* (if the VRV®-W outdoor unit is above the indoor units) in height can exist between the VRV®-W outdoor units and indoor units.

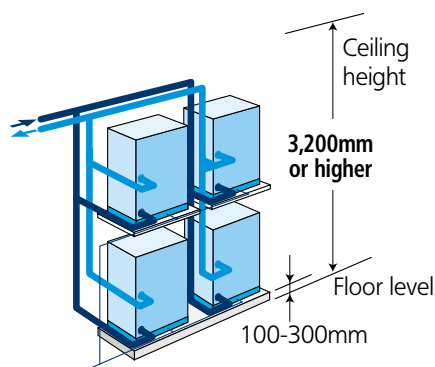
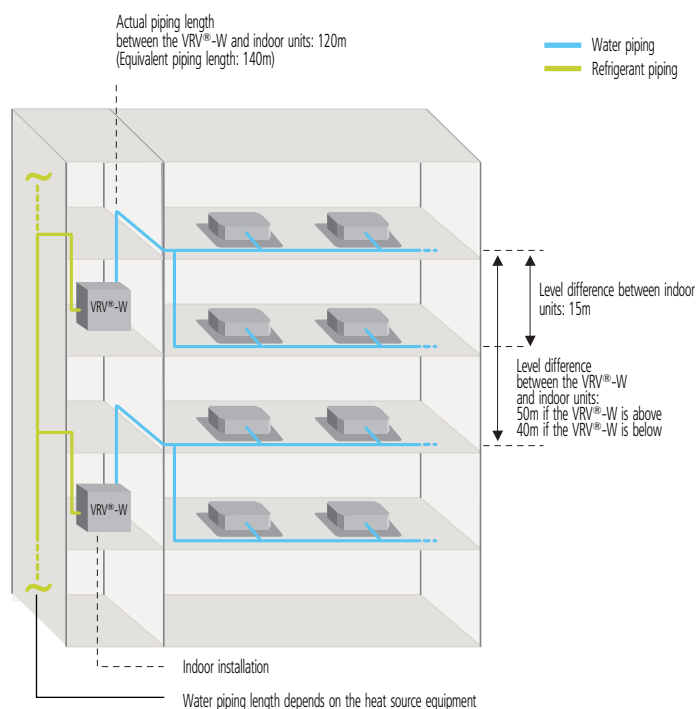
Water piping does not intrude on the occupied spaces, so there are no leakage problems.

* 40m if the VRV®-W outdoor unit is below the indoor units.

STACKED CONFIGURATION

The adoption of a new water heat exchanger and optimization of the refrigerant control circuit has resulted in the industry's most compact and lightweight design. The unit weight of 149kg* and height of 1,000mm makes installation easy. Stacked configuration is also possible, contributing further to space savings.

* for 8HP unit



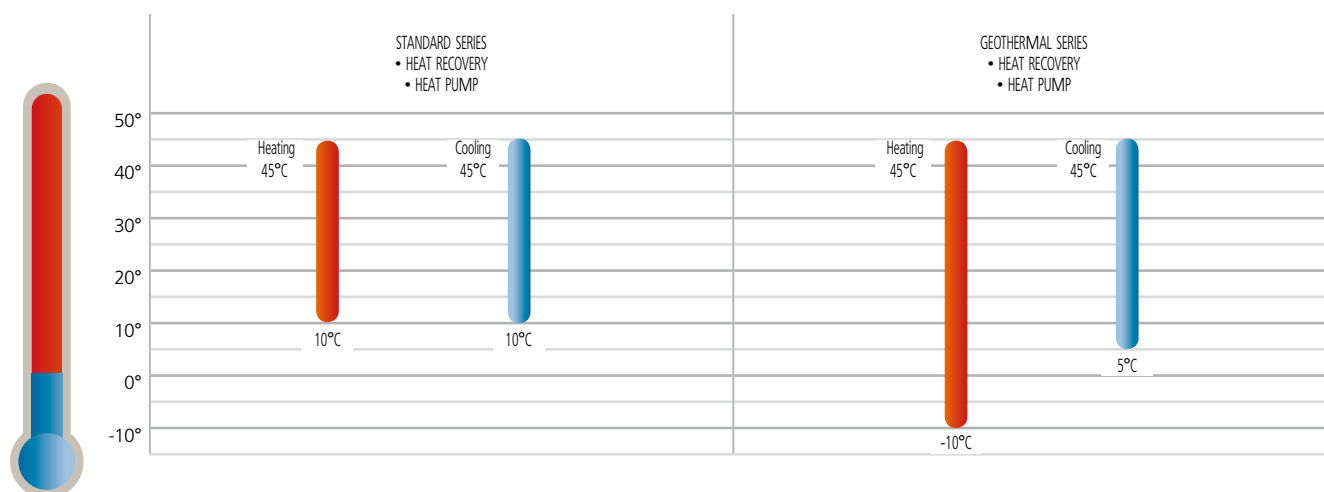
Stacked configuration is possible.

WIDE OPERATION RANGE

Standard water cooled outdoor units have a wide operation range of between 10°C & 45°C inlet water temperature, both in heating and cooling.

For the geothermal series the operation range is extended even more, down to -10°C* in heating and 5°C in cooling mode.

*Ethylene glycol should be added to the water when the water inlet temperature is below 5°C



LOW INDOOR UNIT OPERATION SOUND LEVEL

- › Continuous research by Daikin into reducing operation sound levels has resulted in the development of a purpose designed inverter scroll compressor and fan.
- › Daikin indoor units have very low sound operation levels, down to 25dB(A)

| dB(A) | Perceived loudness | Sound |
|-------|----------------------|---------------------|
| 0 | Threshold of hearing | - |
| 20 | Extremely soft | Rustling leaves |
| 40 | Very soft | Quiet room |
| 60 | Moderately loud | Normal conversation |
| 80 | Very loud | City traffic noise |
| 100 | Extremely loud | Symphonic orchestra |
| 120 | Threshold of feeling | Jet taking off |

Daikin indoor units

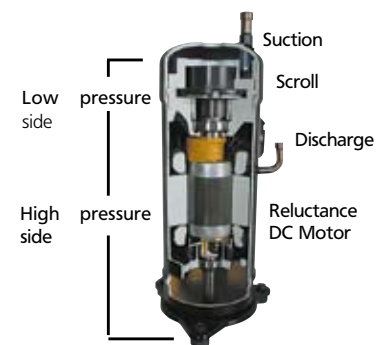
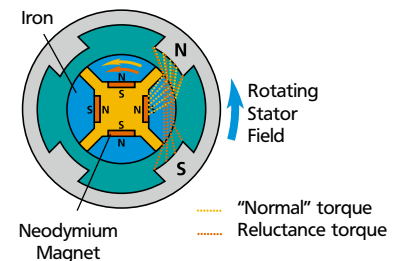


ADVANCED WATER COOLED VRV® TECHNOLOGIES



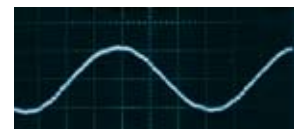
1 RELUCTANCE BRUSHLESS DC COMPRESSOR

- › The reluctance brushless DC motor provides significant increases in efficiency compared to conventional AC inverter motors, simultaneously using 2 different forms of torque (normal and reluctance torque) to produce extra power from small electric currents.
- › **The motor comprises powerful neodymium magnets**, that efficiently generate high torque. These magnets make a major contribution to the energy saving characteristics of the motor.
- › **High thrust mechanism**
By introducing high pressure oil, the reactive force from the fixed scroll is added to the internal force, thereby reducing thrust losses. This results in improved efficiency and suppressed sound level.



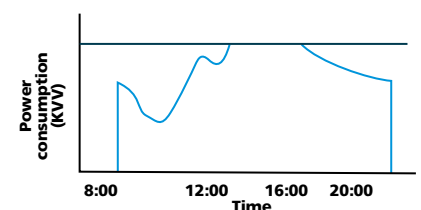
2 SINE WAVE DC INVERTER

- › Optimizing the sine wave curve, results in smoother motor rotation and improved motor efficiency.



3 I-DEMAND FUNCTION

- › The newly introduced current sensor minimizes the difference between the actual power consumption and the predefined power consumption.



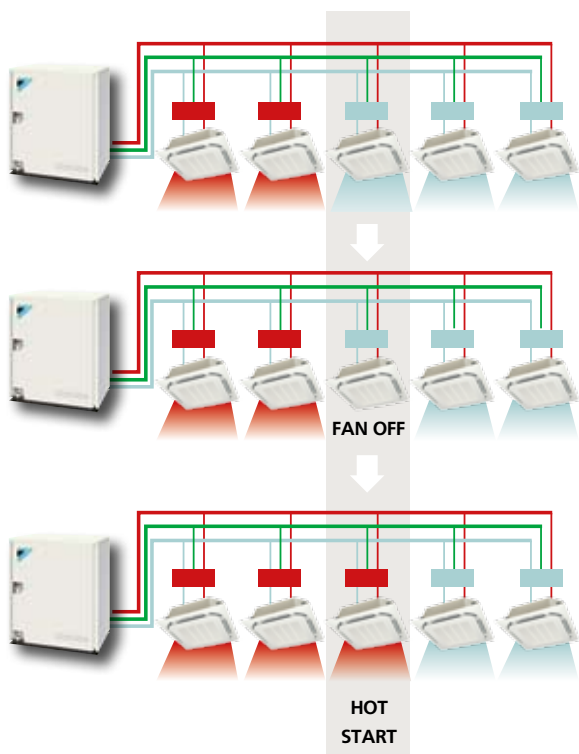
IMPROVED COMFORT THANKS TO VRV®III BS BOX

Individual change over from cooling to heating or vice versa of the indoor units is possible. This means that all indoor units who do not change over continue to provide optimum comfort for the users during this process.

VRV®WIII

With the VRV®III BS box, the other indoor units can keep heating while the target indoor units are switched from cooling to heating.

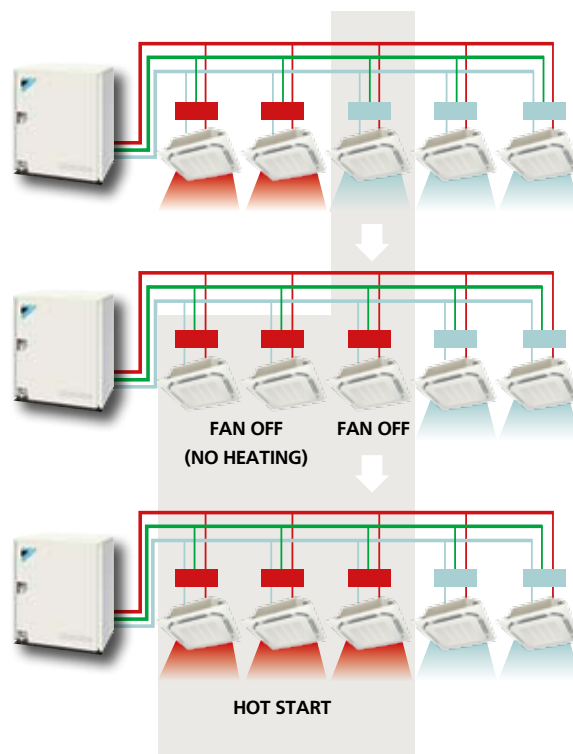
Example:



VRV®WII

When switching from cooling to heating with the conventional BS box, the other indoor units performing heating operations also had to be stopped until the changeover for the target indoor unit had been completed.

Example:



STANDARD SERIES

► SPECIFICATIONS

VRV®-W Heat recovery - Standard series

| RWEYQ-P | | | | 8 | 10 | 16 | 18 | 20 | 24 | 26 | 28 | 30 |
|---|-----------------------|--------------------------|---------------------------------------|---|-----------|-----------|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Modules | RWEYQ8P | | | 1 | - | 2 | 1 | - | 3 | 2 | 1 | - |
| | RWEYQ10P | | | - | 1 | - | 1 | 2 | - | 1 | 2 | 3 |
| Capacity | Cooling | | kW | 22.4 | 26.7 | 44.8 | 49.1 | 53.4 | 67.2 | 71.5 | 75.8 | 80.1 |
| | Heating | | kW | 25.0 | 31.5 | 50.0 | 56.5 | 63.0 | 75.0 | 81.5 | 88.0 | 94.5 |
| Max. n° of indoor units to be connected | | | | 13 | 16 | 26 | 29 | 32 | 36 | 36 | 36 | 36 |
| Indoor index connection | minimum | | | 100 | 125 | 200 | 225 | 250 | 300 | 325 | 350 | 375 |
| | maximum | | | 260 | 325 | 520 | 585 | 650 | 780 | 845 | 910 | 975 |
| Casing | Colour | | | Ivory white (5Y7,5/1) | | | | | | | | |
| Dimensions | Unit | Height | mm | 1,000 | | | | | | | | |
| | | Width | mm | 780 | 780 | 780 + 780 | 780 + 780 | 780 + 780 | 780 + 780 + 780 | 780 + 780 + 780 | 780 + 780 + 780 | 780 + 780 + 780 |
| | | Depth | mm | 550 | | | | | | | | |
| Weight | Unit | kg | 149 | 150 | 149 + 149 | 150 + 149 | 150 + 150 | 149 + 149 + 149 | 150 + 149 + 149 | 150 + 150 + 149 | 150 + 150 + 150 | |
| Heat Exchanger | Dimensions | Type | Stainless steel plate | | | | | | | | | |
| Compressor | Dimensions | Type | Hermetically sealed scroll compressor | | | | | | | | | |
| | number of compressors | | | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 3 |
| Sound level | Cooling | Sound Pressure (Nominal) | dBA | 50 | 51 | 53 | 54 | 54 | 55 | 55 | 55 | 56 |
| Refrigerant | Name | | | R-410A | | | | | | | | |
| | Charge | | kg | 3.5 | 4.2 | 3.5 + 3.5 | 4.2 + 3.5 | 4.2 + 4.2 | 3.5 + 3.5 + 3.5 | 4.2 + 3.5 + 3.5 | 4.2 + 4.2 + 3.5 | 4.2 + 4.2 + 4.2 |
| | Control | | | Expansion valve (electronic type) | | | | | | | | |
| Refrigerant Oil | Name | | | Synthetic (ether) oil | | | | | | | | |
| Piping connections | Liquid (OD) | Type | | Flare connection | | | | | | | | |
| | | Diameter (OD) | mm | 9.52 | 9.52 | 12.7 | 15.9 | 15.9 | 15.9 | 19.1 | 19.1 | 19.1 |
| | Discharge Gas | Type | | Brazed connection | | | | | | | | |
| | | Diameter (OD) | mm | 15.9 | 19.1 | 22.2 | 22.2 | 22.2 | 28.6 | 28.6 | 28.6 | 28.6 |
| | Gas | Type | | Brazed connection | | | | | | | | |
| | | Diameter (OD) | mm | 19.1 | 22.2 | 28.6 | 28.6 | 28.6 | 34.9 | 34.9 | 34.9 | 34.9 |
| | Water inlet | | | PT1 1/4B internal thread | | | | | | | | |
| | Water outlet | | | PT1 1/4B internal thread | | | | | | | | |
| Drain outlet | | | PS1 1/2B internal thread | | | | | | | | | |
| Capacity Control | | | | 23 to 100 | 23 to 100 | 11 to 100 | 11 to 100 | 11 to 100 | 8 to 100 | 8 to 100 | 8 to 100 | 8 to 100 |
| Safety devices | | | | HPS / Inverter overload protector / Fusible plugs | | | | | | | | |
| Power Supply | Phase | | | 3 ~ | | | | | | | | |
| | Frequency | | | 50 | | | | | | | | |
| | Voltage | | | 380-415 | | | | | | | | |

Notes: Nominal cooling capacities are based on : indoor temperature : 27°CDB, 19°CWB, inlet water temperature : 30°C, equivalent refrigerant piping : 7.5m, level difference : 0m.
 Nominal heating capacities are based on : indoor temperature : 20°CDB, inlet water temperature : 20°C, equivalent refrigerant piping : 7.5m, level difference : 0m
 Hold ambient temperature at 0-46°C and humidity at 80%RH or less. Heat rejection from the casing: 0.64kW/8HP
 Hold ambient temperature at 0-40°C and humidity at 80%RH or less. Heat rejection from the casing: 0.71kW/10HP

BS Box for heat recovery system

| BS BOX | | | | BSVQ100P8B | | BSVQ160P8B | | BSVQ250P8B | |
|--|--|--------------|----------------------------------|------------------------|--|---------------|--|---------------|--|
| Total capacity of connectable indoor units | | | | x ≤ 100 | | 100 < x ≤ 160 | | 160 < x ≤ 250 | |
| Maximum number of connectable indoor units | | | | 5 | | 8 | | 5 | |
| Casing | | | | galvanised steel plate | | | | | |
| Dimensions | | HxWxD | | mm | | 207x388x326 | | | |
| Weight | | | | kg | | 14 | | 15 | |
| Piping connections | | indoor unit | liquid/gas | mm | | 9.5/15.9 | | 9.5/15.9 | |
| | | outdoor unit | liquid/suction gas/discharge gas | mm | | 9.5/15.9/12.7 | | 9.5/15.9/12.7 | |
| Safety devices | | | | PCB fuse | | | | | |
| Cool/heat selector | | | | KRC19-26A | | | | | |
| Fixing box | | | | KJB111A | | | | | |
| PCB for multi tenant | | | | DTA114A61 | | | | | |



VRV®-W Heat pump - Standard series

| RWEYQ-P | | | | 8 | 10 | 16 | 18 | 20 | 24 | 26 | 28 | 30 |
|---|-----------------------|--------------------------|---------------------------------------|---|-----------|-----------|-----------|-----------|-----------------|-----------------|-----------------|-----------------|
| Modules | RWEYQ8P | | | 1 | - | 2 | 1 | - | 3 | 2 | 1 | - |
| | RWEYQ10P | | | - | 1 | - | 1 | 2 | - | 1 | 2 | 3 |
| Capacity | Cooling | kW | | 22.4 | 26.7 | 44.8 | 49.1 | 53.4 | 67.2 | 71.5 | 75.8 | 80.1 |
| | Heating | kW | | 25.0 | 31.5 | 50.0 | 56.5 | 63.0 | 75.0 | 81.5 | 88.0 | 94.5 |
| Max. n° of indoor units to be connected | | | | 13 | 16 | 26 | 29 | 32 | 36 | 36 | 36 | 36 |
| Indoor index connection | minimum | | | 100 | 125 | 200 | 225 | 250 | 300 | 325 | 350 | 375 |
| | maximum | | | 260 | 325 | 520 | 585 | 650 | 780 | 845 | 910 | 975 |
| Casing | Colour | | | Ivory white (5Y7,5/1) | | | | | | | | |
| Dimensions | Unit | Height | mm | 1,000 | | | | | | | | |
| | | Width | mm | 780 | 780 | 780 + 780 | 780 + 780 | 780 + 780 | 780 + 780 + 780 | 780 + 780 + 780 | 780 + 780 + 780 | 780 + 780 + 780 |
| | | Depth | mm | 550 | | | | | | | | |
| Weight | Unit | | | kg | 149 | 150 | 149 + 149 | 150 + 149 | 150 + 150 | 149 + 149 + 149 | 150 + 149 + 149 | 150 + 150 + 149 |
| Heat Exchanger | Dimensions | Type | Stainless steel plate | | | | | | | | | |
| Compressor | Dimensions | Type | Hermetically sealed scroll compressor | | | | | | | | | |
| | number of compressors | | | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 3 |
| Sound level | Cooling | Sound Pressure (Nominal) | dBA | 50 | 51 | 53 | 54 | 54 | 55 | 55 | 55 | 56 |
| Refrigerant | Name | | | R-410A | | | | | | | | |
| | Charge | kg | | 3.5 | 4.2 | 3.5 + 3.5 | 4.2 + 3.5 | 4.2 + 4.2 | 3.5 + 3.5 + 3.5 | 4.2 + 3.5 + 3.5 | 4.2 + 4.2 + 3.5 | 4.2 + 4.2 + 4.2 |
| | Control | | | Expansion valve (electronic type) | | | | | | | | |
| Refrigerant Oil | Name | | | Synthetic (ether) oil | | | | | | | | |
| Piping connections | Liquid (OD) | Type | | Flare connection | | | | | | | | |
| | | Diameter (OD) | mm | 9.52 | 9.52 | 12.7 | 15.9 | 15.9 | 15.9 | 19.1 | 19.1 | 19.1 |
| | Discharge Gas | Type | | Brazed connection | | | | | | | | |
| | | Diameter (OD) | mm | 19.1 | 22.2 | 28.6 | 28.6 | 28.6 | 34.9 | 34.9 | 34.9 | 34.9 |
| | Water inlet | | | PT1 1/4B internal thread | | | | | | | | |
| | Water outlet | | | PT1 1/4B internal thread | | | | | | | | |
| | Drain outlet | | | PS1 1/2B internal thread | | | | | | | | |
| Capacity Control | | | | 23 to 100 | 23 to 100 | 11 to 100 | 11 to 100 | 11 to 100 | 8 to 100 | 8 to 100 | 8 to 100 | 8 to 100 |
| Safety devices | | | | HPS / Inverter overload protector / Fusible plugs | | | | | | | | |
| Power Supply | Phase | | | 3~ | | | | | | | | |
| | Frequency | Hz | | 50 | | | | | | | | |
| | Voltage | V | | 380-415 | | | | | | | | |

Notes: Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, inlet water temperature: 30°C, equivalent refrigerant piping: 7.5m, level difference: 0m.
 Nominal heating capacities are based on : indoor temperature : 20°CDB, inlet water temperature : 20°C, equivalent refrigerant piping : 7.5m, level difference : 0m
 Hold ambient temperature at 0-46°C and humidity at 80%RH or less. Heat rejection from the casing: 0.64kW/8HP
 Hold ambient temperature at 0-40°C and humidity at 80%RH or less. Heat rejection from the casing: 0.71kW/10HP

➤ ACCESSORIES

| RVR®-W HEAT RECOVERY - STANDARD SERIES | | RWEYQ8P | RWEYQ10P | RWEYQ16P | RWEYQ18P | RWEYQ20P | RWEYQ24P | RWEYQ26P | RWEYQ28P | RWEYQ30P |
|---|---------------------|----------------------------|----------------------------|----------|----------|----------|----------------------------|----------|----------|----------|
| Fixing box | | KJB111A | | | | | | | | |
| REFNET header | | KHRP25M33H (max. 8 branch) | | | | | | | | |
| | | - | KHRP25M72H (max. 8 branch) | | | | | | | |
| | | - | | | | | KHRP25M73H (max. 8 branch) | | | |
| REFNET joint | | KHRP25A22T | | | | | | | | |
| | | KHRP25A33T | | | | | | | | |
| | | - | KHRP25A72T | | | | | | | |
| | | - | | | | | KHRP25A73T | | | |
| Outdoor unit multi piping connection kit | for 2 outdoor units | - | BHFP26MA56 | | | | - | | | |
| | for 3 outdoor units | - | | | | | BHFP26MA84 | | | |
| Strainer kit | | BWU26A15 | | | | | | | | |
| | | BWU26A20 | | | | | | | | |
| External control adapter for outdoor unit | | DTA104A62 | | | | | | | | |

| VRV®-W HEAT PUMP - STANDARD SERIES | | RWEYQ8P | RWEYQ10P | RWEYQ16P | RWEYQ18P | RWEYQ20P | RWEYQ24P | RWEYQ26P | RWEYQ28P | RWEYQ30P |
|---|--|----------------------------|----------------------------|------------|----------|----------|----------------------------|------------|----------|----------|
| Cool/Heat selector | | KRC19-26A | | | | | | | | |
| Fixing box | | KJB111A | | | | | | | | |
| REFNET header | | KHRP26M22H (max. 4 branch) | | | | | | | | |
| | | KHRP26M33H (max. 8 branch) | | | | | | | | |
| | | - | KHRP26M72H (max. 8 branch) | | | | | | | |
| REFNET joint | | - | | | | | KHRP26M73H (max. 8 branch) | | | |
| | | KHRP26A22T | | | | | | | | |
| | | KHRP26A33T | | | | | | | | |
| | | - | KHRP26A72T | | | | | | | |
| Outdoor unit multi piping connection kit | | for 2 outdoor units | - | BHFP22MA56 | | | KHRP26A73T | | | |
| | | for 3 outdoor units | - | | | | | BHFP22MA84 | | |
| Strainer kit | | BWU26A15 | | | | | | | | |
| | | BWU26A20 | | | | | | | | |
| External control adapter for outdoor unit | | DTA104A62 | | | | | | | | |



GEO THERMAL SERIES

➤ BENEFITS

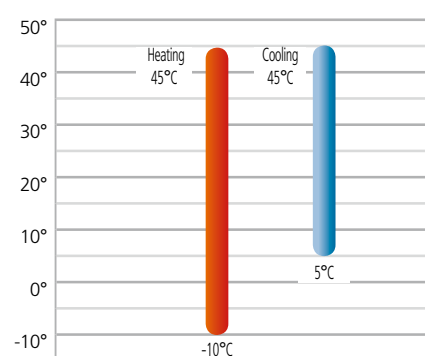
HEATING WITH GROUND SOURCED WATER AS A RENEWABLE ENERGY SOURCE

This water cooled system uses the renewable energy from ground water, water from lakes, rivers, ... Because the temperature of for example ground water remains relatively constant during the year, this systems has a superior efficiency, even in the most extreme outdoor temperatures.

EXTENDED OPERATION RANGE

The water cooled geothermal series have an inlet water temperature down to -10°C^* in heating, extending the water cooled application range.

* Ethylene glycol should be added to the water when the water inlet tempatarure is below 5°C



➤ SPECIFICATIONS

VRV®-W Heat recovery - Geothermal series

| RWEYQ-PR | | | | 8 | 10 |
|---|---|-----------------------------------|---------|-----------------------|---------------------------------------|
| Capacity | Cooling | | kW | 22.4 | 26.7 |
| | Heating | | kW | 25.0 | 31.5 |
| COP (heating) | | | | 5.61 | 5.00 |
| EER (cooling) | | | | 4.69 | 4.11 |
| Max. n° of indoor units to be connected | | | | 13 | 16 |
| Indoor index connection | minimum | | | 100 | 125 |
| | maximum | | | 260 | 325 |
| Casing | Colour | | | Ivory white (SY7.5/1) | |
| Dimensions | Unit | Height | mm | 1,000 | |
| | | Width | mm | 780 | |
| | | Depth | mm | 550 | |
| Weight | Unit | | kg | 149 | 150 |
| Heat Exchanger | Dimensions | Type | | Stainless steel plate | |
| Inlet water temperature | cooling | | °C | 5 ~ 45 | |
| | heating | | °C | -10 ~ 45 | |
| Compressor | Type | | | | Hermetically sealed scroll compressor |
| | | number of compressors | | | 1 |
| Sound level | Cooling | Sound Pressure (Nominal) | dBA | * | * |
| Refrigerant | Name | R-410A | | | |
| | Charge | kg | 3.5 | 4.2 | |
| | Control | Expansion valve (electronic type) | | | |
| Refrigerant Oil | Name | Synthetic (ether) oil | | | |
| Piping connections | Liquid (OD) | Type | | Flare connection | |
| | | Diameter (OD) | mm | 9.52 | 9.52 |
| | Discharge Gas | Type | | Brazed connection | |
| | | Diameter (OD) | mm | 15.9 | 19.1 |
| | Gas | Type | | Brazed connection | |
| | | Diameter (OD) | mm | 19.1 | 22.2 |
| | Water inlet | PT1 1/4B internal thread | | | |
| | Water outlet | PT1 1/4B internal thread | | | |
| | Drain outlet | PS1 1/2B internal thread | | | |
| Capacity Control | | | | 23 to 100 | 23 to 100 |
| Safety devices | HPS / Inverter overload protector / Fusible plugs | | | | |
| Power Supply | Phase | 3 ~ | | | |
| | Frequency | Hz | 50 | | |
| | Voltage | V | 380-415 | | |

Notes: Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, inlet water temperature: 30°C, equivalent refrigerant piping: 7.5m, level difference: 0m.
 Nominal heating capacities are based on: indoor temperature: 20°CDB, inlet water temperature: 20°C, equivalent refrigerant piping: 7.5m, level difference: 0m
 Hold ambient temperature at 0-46°C and humidity at 80%RH or less. Heat rejection from the casing: 0.64kW/8HP
 Hold ambient temperature at 0-40°C and humidity at 80%RH or less. Heat rejection from the casing: 0.71kW/10HP
 * data not available on time of publication

➤ ACCESSORIES

| VRV®-W HEAT RECOVERY - GEOTHERMAL SERIES | RWEYQ8PR | RWEYQ10PR |
|---|---------------------------|-----------|
| Fixing box | KJB111A | |
| REFNET header | KHP25M33H (max. 8 branch) | |
| REFNET joint | KHP25A22T | |
| | KHP25A33T | |
| Strainer kit | BWU26A15 | |
| | BWU26A20 | |
| External control adapter for outdoor unit | DTA104A62 | |

► SPECIFICATIONS

VRV®-W Heat pump - Geothermal series

| RWEYQ-PR | | | | 8 | 10 |
|---|---|-----------------------------------|-----|--------------------------|---------------------------------------|
| Capacity | Cooling | kW | | 22.4 | 26.7 |
| | Heating | kW | | 25.0 | 31.5 |
| COP (heating) | | | | 5.61 | 5.00 |
| EER (cooling) | | | | 4.69 | 4.11 |
| Max. n° of indoor units to be connected | | | | 13 | 16 |
| Indoor index connection | minimum | | | 100 | 125 |
| | maximum | | | 260 | 325 |
| Casing | Colour | | | Ivory white (SY7.5/1) | |
| Dimensions | Unit | Height | mm | 1,000 | |
| | | Width | mm | 780 | |
| | | Depth | mm | 550 | |
| Weight | Unit | | kg | 149 | 150 |
| Heat Exchanger | Dimensions | Type | | Stainless steel plate | |
| Inlet water temperature | cooling | | °C | 5 ~ 45 | |
| | heating | | °C | -10 ~ 45 | |
| Compressor | Type | | | | Hermetically sealed scroll compressor |
| | | number of compressors | | | 1 |
| Sound level | Cooling | Sound Pressure (Nominal) | dBA | * | * |
| Refrigerant | Name | R-410A | | | |
| | Charge | kg | | 3.5 | 4.2 |
| | Control | Expansion valve (electronic type) | | | |
| Refrigerant Oil | Name | Synthetic (ether) oil | | | |
| Piping connections | Liquid (OD) | Type | | Flare connection | |
| | | Diameter (OD) | mm | 9.52 | 9.52 |
| | Discharge Gas | Type | | Brazed connection | |
| | | Diameter (OD) | mm | 19.1 | 22.2 |
| | Water inlet | | | PT1 1/4B internal thread | |
| | Water outlet | | | PT1 1/4B internal thread | |
| | Drain outlet | | | PS1 1/2B internal thread | |
| Capacity Control | | | | 23 to 100 | 23 to 100 |
| Safety devices | HPS / Inverter overload protector / Fusible plugs | | | | |
| Power Supply | Phase | 3 ~ | | | |
| | Frequency | Hz | | 50 | |
| | Voltage | V | | 380-415 | |

Notes: Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, inlet water temperature: 30°C, equivalent refrigerant piping: 7.5m, level difference: 0m. Nominal heating capacities are based on: indoor temperature: 20°CDB, inlet water temperature: 20°C, equivalent refrigerant piping: 7.5m, level difference: 0m. Hold ambient temperature at 0-46°C and humidity at 80%RH or less. Heat rejection from the casing: 0.64kW/8HP. Hold ambient temperature at 0-40°C and humidity at 80%RH or less. Heat rejection from the casing: 0.71kW/10HP. * data not available on time of publication

► ACCESSORIES

| VRV®-W HEAT PUMP - GEOTHERMAL SERIES | RWEYQ8PR | RWEYQ10PR |
|---|----------------------------|-----------|
| Cool/Heat selector | KRC19-26A | |
| Fixing box | KJB111A | |
| REFNET header | KHRP26M22H (max. 4 branch) | |
| | KHRP26M33H (max. 8 branch) | |
| REFNET joint | KHRP26A22T | |
| | KHRP26A33T | |
| Strainer kit | BWU26A15 | |
| | BWU26A20 | |
| External control adapter for outdoor unit | DTA104A62 | |

INDOOR UNITS

As many as 64 separate indoor units can be operated from the single refrigerant circuit of a 54 HP VRV® heat pump system. In fact, the Daikin VRV® indoor unit range, one of the widest on the market, currently comprises **NO LESS THAN 26 DIFFERENT STYLISH AND ELEGANT MODELS IN 110 DIFFERENT VARIANTS** — all designed to maximise comfort, minimise operating noise and simplify installation and servicing.

VRV® indoor units are modern, technologically advanced and come in ceiling mounted cassette, concealed ceiling, ceiling suspended, wall mounted and floor standing models. Recently, the range has been extended by the visually striking and much acclaimed roundflow ceiling mounted cassette with its unique 360° air flow distribution pattern.

Designed to fit rooms of any size and shape, Daikin indoor units are also user friendly, quiet running, ultra reliable, easy to control and supply users with that relaxing 'extra something' to the indoor climate.



CEILING MOUNTED CASSETTES



CEILING SUSPENDED UNITS



CONCEALED CEILING UNITS



FLOOR STANDING UNITS



WALL MOUNTED UNITS

CEILING MOUNTED CASSETTES P 78

CONCEALED CEILING UNITS P 90

WALL MOUNTED UNITS P 108

CEILING SUSPENDED UNITS P 116

FLOOR STANDING UNITS P 122



GOOD DESIGN
AWARD
IN JAPAN

FXFQ-P8

20-25-32-40-50-63-80-100-125

ROUND FLOW CEILING MOUNTED CASSETTE

Comfort & Efficiency

- › 360° air discharge ensures uniform air flow and temperature distribution
- › Air discharge from the corners avoids dead zones that may be subject to temperature differences
- › Modern style decoration panel is available in 2 variations: White (RAL9010) with grey louvers and full white (RAL9010) including white louvers
- › The use of inverter type outdoor units results in an air conditioning system with a high energy efficiency and very low sound level
- › Home leave operation saves energy during absence
- › Fresh air intake: up to 20%
- › Comfortable horizontal air discharge ensures draughtfree operation and prevents ceiling soiling
- › 23 different air flow patterns possible



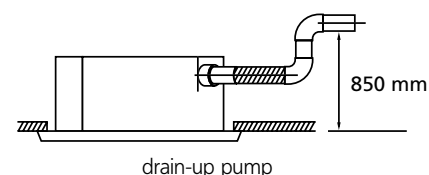
FXFQ20-63P8
White with grey louvers



FXFQ20-63P8
Full white

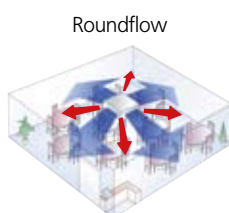
Flexible installation and Easy maintenance

- › Reduced installation height: 214mm for class 20-63
- › Drain-up pump with 850 mm lift fitted as standard
- › Easy visible drain check thanks to clear drain socket
- › Allows multi tenant applications (option PCB required)



Examples of Airflow Patterns

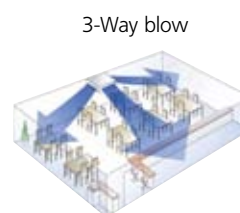
360° radial round flow
enables uniform air
flow distribution



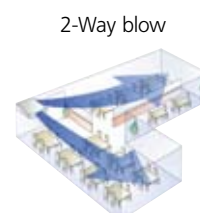
Roundflow



4-Way blow



3-Way blow



2-Way blow

¹ Not connectable to RXYQ-PR



SPECIFICATIONS

| FXFQ-P8 | | | | 20 | 25 | 32 | 40 | 50 | 63 | 80 | 100 | 125 | |
|-----------------------|------------------------|--------------------------|----------|--------------------------------|-----|-----------------|------------|-------------|-----------------|-----------------|-------------|-----------------|------|
| Cooling capacity | | | | kW | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | 9.0 | 11.2 | 14.0 |
| Heating capacity | | | | kW | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 | 10.0 | 12.5 | 16.0 |
| Nominal input | cooling | kW | | 0.053 | | | 0.063 | 0.083 | 0.095 | 0.120 | 0.173 | 0.258 | |
| | heating | kW | | 0.045 | | | 0.055 | 0.067 | 0.114 | 0.108 | 0.176 | 0.246 | |
| Dimensions | (H x W x D) | | mm | 204 x 840 x 840 | | | | | | 246 x 840 x 840 | | 288 x 840 x 840 | |
| Weight | unit | | kg | 20.0 | | | | 21.0 | | 24.0 | | 26.0 | |
| Casing | | | | Galvanised steel | | | | | | | | | |
| Air Flow Rate | cooling | high / low | m³ / min | 12.5 / 9.0 | | | 13.5 / 9.0 | 15.5 / 10.0 | 16.5 / 11.0 | 23.5 / 14.5 | 26.5 / 17.0 | 33.0 / 20.0 | |
| | heating | high / low | m³ / min | 12.5 / 9.0 | | | 13.5 / 9.0 | 15.0 / 9.5 | 17.5 / 12.0 | 23.5 / 14.5 | 28.0 / 17.5 | 33.0 / 20.0 | |
| Sound power (nominal) | cooling | dB(A) | | 49 | | | 50 | 51 | 52 | 55 | 58 | 61 | |
| Sound pressure | cooling | high / low | dB(A) | 31 / 28 | | | 32 / 28 | 33 / 28 | 34 / 29 | 38 / 32 | 41 / 33 | 44 / 34 | |
| | heating | high / low | dB(A) | 31 / 28 | | | 32 / 28 | 33 / 28 | 36 / 30 | 38 / 32 | 42 / 34 | 44 / 34 | |
| Refrigerant | name | | R-410A | | | | | | | | | | |
| Power Supply | | | | 1 ~ / 220-240V / 50Hz | | | | | | | | | |
| Piping Connections | Liquid / Gas / Drain | diameter | mm | 6.35 / 12.7 / 32 | | 6.4 / 12.7 / 32 | | | 9.5 / 15.9 / 32 | | | | |
| Air Filter | | | | Resin net with mold resistance | | | | | | | | | |
| Drain-up Height | | | mm | 750 | | | | | | | | | |
| Decoration Panel | model | BYCQ140CW1 / BYCQ140CW1W | | | | | | | | | | | |
| | colour | RAL9010 | | | | | | | | | | | |
| | dimensions (H x W x D) | | mm | 50x950x950 | | | | | | | | | |
| | weight | | kg | 5.5 | | | | | | | | | |

Notes:

The sound pressure values are mentioned for a unit installed with rear suction

The sound power level is an absolute value indicating the power with a sound source generates.

Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m.

Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m.

Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

ACCESSORIES

| FXFQ-P8 | | | 20 | 25 | 32 | 40 | 50 | 63 | 80 | 125 |
|--|--------------|--|--------------------------|----|----|----|----|----|----|-----|
| Wired remote control | | | BRC1D52 | | | | | | | |
| Infrared remote control | cooling only | | BRC7F533F | | | | | | | |
| | heat pump | | BRC7F532F | | | | | | | |
| Decoration panel | | | BYCQ140CW1 / BYCQ140CW1W | | | | | | | |
| Replacement long life filter (non-woven type) | | | KAPF551K160 | | | | | | | |
| Fresh air intake kit (20% fresh air intake) (chamber type) | | | KDDQ55C140 | | | | | | | |
| Air discharge outlet sealing member | | | KDBHQ55C140 | | | | | | | |
| PCB for multi tenant | | | DTA114A61 *1 | | | | | | | |

*¹ Mounting plate KRP4A96 is required



FCQ-C

35-50-60

ROUND FLOW CEILING MOUNTED CASSETTE

Comfort & Efficiency

- › 360° air discharge ensures uniform air flow and temperature distribution
- › Air discharge from the corners avoids dead zones that may be subject to temperature differences
- › Modern style decoration panel is available in 2 variations: White (RAL9010) with grey louvers and full white (RAL9010) including white louvers
- › Quiet in operation
- › The use of inverter type outdoor units results in an air conditioning system with a high energy efficiency and very low sound level
- › Home leave operation saves energy during absence
- › Fresh air intake: up to 20%
- › Comfortable horizontal air discharge ensures draughtfree operation and prevents ceiling soiling
- › 23 different air flow patterns possible



FCQ-C
White with grey louvers



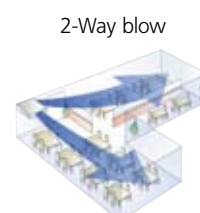
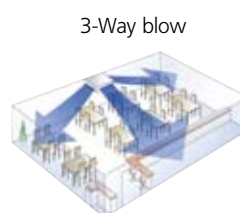
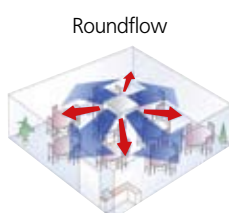
FCQ-C
Full white

Flexible installation and Easy maintenance

- › Reduced installation height: 214mm for class 20-63
- › Standard connection to D3-net without the need of an adapter PCB
- › Easy condensate drain check

Examples of Airflow Patterns

360° radial round flow
enables uniform air
flow distribution



¹ Only connectable to RXYQ-PR



SPECIFICATIONS

| FCQ-C | | | | 35 | 50 | 60 |
|----------------------|-----------------------------|-----|--------|--|-------------------------------------|------------|
| Power input | cooling | | kW | - | | |
| | heating | | kW | - | | |
| Dimensions (HxWxD) | | | mm | 204x840x840 | | |
| Weight | | | kg | 19 | | |
| Casing | | | | Galvanised steel | | |
| Air flow rate | cooling | H/L | m³/min | 10.5 / 8.5 | 12.5 / 8.5 | 13.5 / 8.5 |
| | heating | H/L | m³/min | 12.5 / 10.0 | 12.5 / 8.5 | 13.5 / 8.5 |
| Fan speed | | | steps | 2 | | |
| Sound pressure level | cooling | H/L | dB(A) | 31 / 27 | 31 / 27 | 33 / 28 |
| | heating | H/L | dB(A) | 31 / 27 | 31 / 27 | 33 / 28 |
| Sound power level | cooling | H | dB(A) | 49 | 49 | 51 |
| Refrigerant type | | | | R-410A | | |
| Piping connections | liquid / gas / drain (VP25) | | mm | ø6.25 / ø9.52 / ID ø25.0 - OD ø32.0 | ø6.25 / ø12.7 / ID ø25.0 - OD ø32.0 | |
| Heat insulation | | | | Foamed Polystyrene / Foamed Polyethylene | | |
| Air filter | | | | Resin net with mold resistance | | |
| Power supply | | | | 1 ~, 220-240V, 50Hz | | |
| Decoration panel | model | | | BYCQ140CW1 / BYCQ140CW1W | | |
| | colour | | | RAL9010 | | |
| | dimensions (HxWxD) | | mm | 50x950x950 | | |
| | weight | | kg | 5.5 | | |

Notes:

Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat

Sound pressure level measured at a certain distance from the unit

ACCESSORIES

| FCQ-C | | 35 | 50 | 60 |
|---|--|----|--------------------------|----|
| Wired remote control | | | BRC1D52 | |
| Infrared remote control | | | BRC7F532F | |
| Decoration panel | | | BYCQ140CW1 / BYCQ140CW1W | |
| Replacement long life filter (non-woven type) | | | KAFP551K160 | |
| Fresh air intake kit (20 % fresh air intake) | | | KDDQ55C140 | |
| Air discharge outlet sealing member | | | KDBHQ55C140 | |



FXZQ-M9

20-25-32-40-50

4-WAY BLOW CEILING MOUNTED CASSETTE

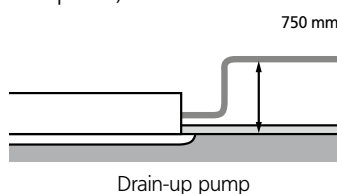
600 X 600MM

Comfort & Efficiency

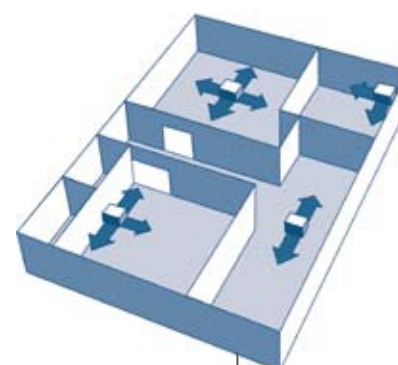
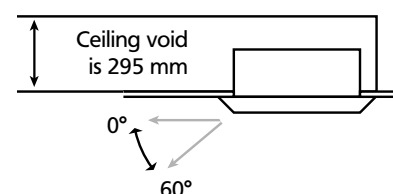
- › Modern style decoration panel in white (RAL9010)
- › The use of inverter type outdoor units results in an air conditioning system with a high energy efficiency and very low sound level
- › Home leave operation saves energy during absence
- › Whisper quiet operation: down to 25 dBA sound pressure level
- › Fresh air intake for healthy living
- › Comfortable air discharge ensures draught for operation and prevents ceiling soiling
- › Since the flaps can move to a 0° position, virtually no draught can be experienced
- › 5 different air flow patterns can be freely selected between 0° and 60°

Flexible installation and Easy maintenance

- › Compact casing (575mm in width and depth) enables unit to fit flush into ceilings and match standard architectural modules, without cutting ceiling tiles.
- › Possibility to shut 1 or 2 flaps for easy installation in corners
- › The switch box can be reached by simply removing the suction grille; therefore maintenance can be done very easily
- › Drain-up pump with 750mm lift fitted as standard
- › Allows multi tenant applications (option required)



FXZQ20-50M9



Flexible installation

¹ Not connectable to RXYQ-PR



SPECIFICATIONS

| FXZQ-M9 | | | 20 | 25 | 32 | 40 | 50 | |
|-------------------------------------|------------------------|--------------|-------------------------------|---------------------|-----------|-----------|------------|-------------|
| Cooling capacity | | | kW | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 |
| Heating capacity | | | kW | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 |
| Nominal input | cooling | W | 73 | 73 | 76 | 89 | 115 | |
| | heating | W | 64 | 64 | 68 | 80 | 107 | |
| Dimensions (H x W x D) | | | mm | 286 x 575 x 575 | | | | |
| Weight | | | kg | 18 | | | | |
| Casing | | | Galvanised steel plate | | | | | |
| Air flow rate (H / L) | | | m³ / min | 9.0 / 7.0 | 9.0 / 7.0 | 9.5 / 7.5 | 11.0 / 8.0 | 14.0 / 10.0 |
| Sound pressure level (H / L) (220V) | | | dB(A) | 30 / 25 | 30 / 25 | 32 / 26 | 36 / 28 | 41 / 33 |
| Sound power level | | | dB(A) | 47 | 47 | 49 | 53 | 58 |
| Refrigerant type | | | R-410A | | | | | |
| Piping connections | | liquid / gas | mm | ø6.4 / ø12.7 | | | | |
| Air filter | | | Resin net with mold resistant | | | | | |
| Drain-up height | | | mm | 500 | | | | |
| Power supply | | | V1 | 1 ~, 50Hz, 220-240V | | | | |
| Decoration panel | dimensions (H x W x D) | mm | 55 x 700 x 700 | | | | | |
| | weight | kg | 2.7 | | | | | |
| | colour | | White (RAL 9010) | | | | | |

Notes:

Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB • outdoor temperature: 35°CDB • equivalent piping length: 7.5m (horizontal).

Nominal heating capacities are based on: indoor temperature: 20°CDB • outdoor temperature: 7°CDB, 6°CWB • equivalent piping length: 7.5m (horizontal).

Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

ACCESSORIES

| FXZQ-M9 | | | 20 | 25 | 32 | 40 | 50 |
|--|--------------|--|------------|----|----|----|----|
| Wired remote control | | | BRC1D52 | | | | |
| Infrared remote control | cooling only | | BRC7E531 | | | | |
| | heat pump | | BRC7E530 | | | | |
| Decoration panel | | | BYFQ60B | | | | |
| Sealing member of air discharge outlet | | | KDBH44BA60 | | | | |
| Panel spacer | | | KDBQ44B60 | | | | |
| Replacement long life filter | | | KAFQ441B60 | | | | |
| Fresh air intake kit | | | KDDQ44XA60 | | | | |
| Multi tenant option | | | EKMVTAC | | | | |



FFQ-B

25-35-50-60

4-WAY BLOW CEILING MOUNTED CASSETTE

600 X 600MM

Comfort & Efficiency

- › Modern style decoration panel in white (RAL9010)
- › The use of inverter type outdoor units results in an air conditioning system with a high energy efficiency and very low sound level
- › Home leave operation saves energy during absence
- › Whisper quiet operation: down to 24.5 dBA sound pressure level
- › Fresh air intake for healthy living
- › Comfortable horizontal air discharge ensures draught free operation and prevents ceiling soiling

Flexible installation and Easy maintenance

- › Compact casing (575mm in width and depth) enables unit to fit flush into ceilings and match standard architectural modules, without cutting ceiling tiles



FFQ-B

¹ Only connectable to RXYQ-PR



SPECIFICATIONS

| FFQ-B | | | | 25 | 35 | 50 | 60 |
|----------------------|----------------------|-------|----------|---|----------|----------------------|---------|
| Nominal input | cooling | | kW | 0.073 | 0.084 | 0.097 | 0.120 |
| | heating | | kW | 0.064 | 0.076 | 0.089 | 0.111 |
| Dimensions (HxWxD) | | | mm | 286x575x575 | | | |
| Weight | | | kg | 17.5 | | | |
| Casing | | | | Galvanised steel plate | | | |
| Fan speed | | | | 2 steps (direct drive) | | | |
| Air flow rate | cooling | H / L | m³ / min | 9 / 6.5 | 10 / 6.5 | 12 / 8 | 15 / 10 |
| | heating | H / L | m³ / min | 9 / 6.5 | 10 / 6.5 | 12 / 8 | 15 / 10 |
| Sound pressure level | cooling | H / L | dB(A) | 29.5 / 24.5 | 32 / 25 | 36 / 27 | 41 / 32 |
| | heating | H / L | dB(A) | 29.5 / 24.5 | 32 / 25 | 36 / 27 | 41 / 32 |
| Sound power level | cooling | H | dB(A) | 46.5 | 49 | 53 | 58 |
| Refrigerant type | | | | R-410A | | | |
| Piping connections | liquid / gas / drain | | mm | ø6.4 / ø9.5 /ø20.0 | | ø6.4 / ø12.7 / ø20.0 | |
| Heat insulation | | | | Both liquid and gas pipes | | | |
| Air filter | | | | Removable / washable / mildew proof / long life | | | |
| Power supply | | | V1 | 1 ~, 230V, 50Hz | | | |
| Decoration panel | Model | | | BYFQ60B | | | |
| | Dimensions (HxWxD) | | mm | 55x700x700 | | | |
| | Weight | | kg | 2.7 | | | |
| | Colour | | | White (RAL9010) | | | |

Notes:

Nominal cooling capacities measured at: indoor temperature 27°CDB/19°CWB, outdoor temperature 35°CDB, equivalent piping length:: outdoor-BP 5m, BP-indoor 3m, level difference 0m

Nominal heating capacities measured at: indoor temperature 20°CDB, outdoor temperature 7°CDB/6°CWB, equivalent piping length: outdoor-BP 5m, BP-indoor 3m level difference 0m

Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat

Sound pressure level measured at a certain distance from the unit

ACCESSORIES

| FFQ-B | | | 25 | 35 | 50 | 60 |
|--|--|--------------------------|-------------|----|-------------|----|
| Wired remote control | | | BRC1D52 | | | |
| Infrared remote control | | | BRC7E530 | | | |
| Decoration panel | | | BYFQ60B | | BYFQ60B | |
| Long-life filter | | | KAFQ441BA60 | | KAFQ441BA60 | |
| Fresh air intake kit | | Direct installation type | KDDQ44XA60 | | KDDQ44XA60 | |
| Sealing member of air discharge outlet | | | KDBH44BA60 | | KDBH44BA60 | |
| Panel spacer | | | KDBQ44B60 | | KDBQ44B60 | |



FXCQ-M8

20-25-32-40-50-63-80-125

2-WAY BLOW CEILING MOUNTED CASSETTE

Comfort & Efficiency

- › The use of inverter type outdoor units results in an air conditioning system with a high energy efficiency and very low sound level
- › Home leave operation saves energy during absence
- › Auto-swing function ensures efficient air and temperature distribution and prevents ceiling soiling

Filter

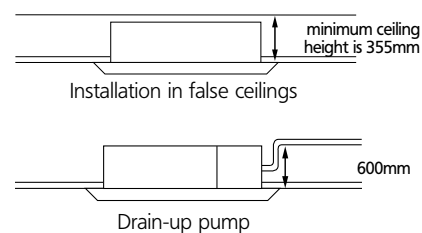
- › Standard long life filter

Flexible installation and Easy maintenance

- › Easy to install: depth of all units is 600mm
- › Easy installation in false ceilings of only 355mm
- › Maintenance operations can be performed by simply removing the front panel
- › Drain-up pump with 600mm lift fitted as standard
- › Easy to clean flat suction grille
- › Detachable swing flaps



FXCQ20-32M8



¹ Not connectable to RXYQ-PR



SPECIFICATIONS

| FXCQ-M8 | | | 20 | 25 | 32 | 40 | 50 | 63 | 80 | 125 | |
|----------------------------|------------------------|--------------|---------------------|-------------------------------|-------|------------------|-----------------|------------------|-------------------|-------------------|-------|
| Cooling capacity | | | kW | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | 9.0 | 14.0 |
| Heating capacity | | | kW | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 | 10.0 | 16.0 |
| Nominal input | cooling | kW | 0.077 | 0.092 | 0.092 | 0.130 | 0.130 | 0.161 | 0.209 | 0.256 | |
| | heating | kW | 0.044 | 0.059 | 0.059 | 0.097 | 0.097 | 0.126 | 0.176 | 0.223 | |
| Dimensions (H x W x D) | | | mm | 305 x 780 x 600 | | | 305 x 995 x 600 | | 305 x 1,180 x 600 | 305 x 1,670 x 600 | |
| Weight | | | kg | 26 | | | 31 | 32 | 35 | 47 | 48 |
| Casing | | | | Galvanised steel plate | | | | | | | |
| Air flow rate (H/L) | | | m ³ /min | 7/5 | 9/6.5 | 9/6.5 | 12/9 | 12/9 | 16.5/13 | 26/21 | 33/25 |
| Sound pressure level (H/L) | | | dB(A) | 33/28 | 35/29 | 35/29 | 35.5/30.5 | 35.5/30.5 | 38/33 | 40/35 | 45/39 |
| Sound power level | | | dB(A) | 45 | 50 | 50 | 50 | 50 | 52 | 54 | 60 |
| Refrigerant type | | | | R-410A | | | | | | | |
| Piping connections | | liquid / gas | mm | ø6.4/ø12.7 | | | | | ø9.5/ø15.9 | | |
| Air filter | | | | Resin net with mold resistant | | | | | | | |
| Drain-up height | | | mm | 600 | | | | | | | |
| Power supply | | | V3 | 1 ~, 50Hz, 230V | | | | | | | |
| Decoration panel | dimensions (H x W x D) | mm | 53 x 1,030 x 680 | | | 53 x 1,245 x 680 | | 53 x 1,430 x 680 | 53 x 1,920 x 680 | | |
| | weight | kg | 8 | | | 8.5 | | 9.5 | 12 | | |
| | colour | | Ivory white | | | | | | | | |

Notes:

Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB • outdoor temperature: 35°CDB • equivalent refrigerant piping: 8m • level difference: 0m.
 Nominal heating capacities are based on: indoor temperature: 20°CDB • outdoor temperature: 7°CDB, 6°CWB • equivalent refrigerant piping: 8m • level difference: 0m.
 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

ACCESSORIES

| FXCQ-M8 | | | 20 | 25 | 32 | 40 | 50 | 63 | 80 | 125 |
|-----------------------------------|--------------|--|------------|----|----|------------|----|------------|-------------|-----|
| Wired remote control | | | BRC1D52 | | | | | | | |
| Infrared remote control | cooling only | | BRC7C67 | | | | | | | |
| | heat pump | | BRC7C62 | | | | | | | |
| Decoration panel | | | BYBC32G | | | BYBC50G | | BYBC63G | BYBC125G | |
| High efficiency filter 65% *1 | | | KAFJ532G36 | | | KAFJ532G56 | | KAFJ532G80 | KAFJ532G160 | |
| High efficiency filter 90% *1 | | | KAFJ533G36 | | | KAFJ533G56 | | KAFJ533G80 | KAFJ533G160 | |
| Filter chamber for bottom suction | | | KDDFJ53G36 | | | KDDFJ53G56 | | KDDFJ53G80 | KDDFJ53G160 | |
| Replacement long life filter | | | KAFJ531G36 | | | KAFJ531G56 | | KAFJ531G80 | KAFJ531G160 | |

Note:

*1. Filter chamber is required when installing a high efficiency filter.



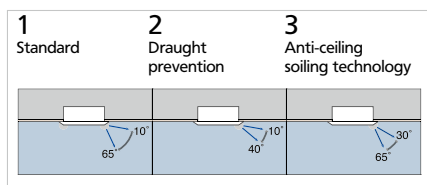
FXKQ-MA

25-32-40-63

CEILING MOUNTED CORNER CASSETTE

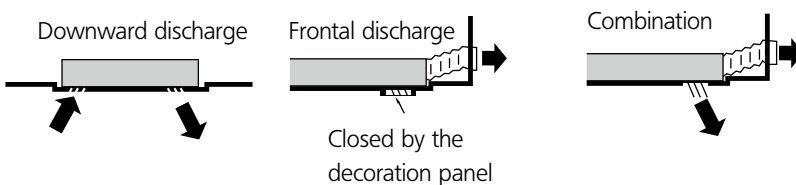
Comfort & Efficiency

- › The use of inverter type outdoor units results in an air conditioning system with a high energy efficiency
- › Home leave operation saves energy during absence
- › Comfortable horizontal air discharge ensures draughtfree operation and prevents ceiling soiling



v

- › Optimum air flow conditions are created by either downward air discharge or frontal air discharge (via optional grille) or a combination of both



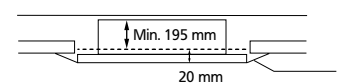
Flexible installation

- › Compact dimensions, can easily be mounted in a narrow ceiling void (only 220 mm ceiling space required, 195 with panel spacer, available as accessory)
- › Drain-up pump with 500mm lift fitted as standard

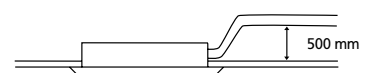
¹ Not connectable to RXYQ-PR



FXKQ63MA



Panel spacer



Drain-up pump



SPECIFICATIONS

| FXKQ-MA | | | 25 | 32 | 40 | 63 |
|-----------------------------------|--------------------|---------------------|-------------------------------|-------|-------|-------------------|
| Cooling capacity | | kW | 2.8 | 3.6 | 4.5 | 7.1 |
| Heating capacity | | kW | 3.2 | 4.0 | 5.0 | 8.0 |
| Nominal input | cooling | kW | 0.066 | 0.066 | 0.076 | 0.105 |
| | heating | kW | 0.046 | 0.046 | 0.056 | 0.085 |
| Dimensions (HxWxD) | | mm | 215 x 1,110 x 710 | | | 215 x 1,310 x 710 |
| Weight | | kg | 31 | | | 34 |
| Casing | | | Galvanised steel plate | | | |
| Air flow rate (H/L) | | m ³ /min | 11/9 | 11/9 | 13/10 | 18/15 |
| Sound pressure level (H/L) (220V) | | dB(A) | 38/33 | 38/33 | 40/34 | 42/37 |
| Sound power level | | dB(A) | - | | | |
| Refrigerant type | | | R-410A | | | |
| Piping connections | liquid/gas | mm | ø6.4/ø12.7 | | | ø9.5/ø15.9 |
| Air filter | | | Resin net with mold resistant | | | |
| Drain-up height | | mm | 500 | | | |
| Power supply | | VE | 1 ~, 50Hz, 220-240V | | | |
| Decoration panel | dimensions (HxWxD) | mm | 70 x 1,240 x 800 | | | 70 x 1,440 x 800 |
| | weight | kg | 8.5 | | | 9.5 |
| | colour | | Ivory white | | | |

Notes:

Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB • outdoor temperature: 35°CDB • equivalent refrigerant piping: 7.5m (horizontal).

Nominal heating capacities are based on: indoor temperature: 20°CDB • outdoor temperature: 7°CDB, 6°CWB • equivalent refrigerant piping: 7.5m (horizontal).

Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

ACCESSORIES

| FXKQ-MA | | | 25 | 32 | 40 | 63 |
|------------------------------|--------------|--|----|------------|----|------------|
| Wired remote control | | | | BRC1D52 | | |
| Infrared remote control | cooling only | | | BRC4C63 | | |
| | heat pump | | | BRC4C61 | | |
| Decoration panel | | | | BYK45F | | BYK71F |
| Panel spacer | | | | KPBJ52F56 | | KPBJ52F80 |
| Replacement long life filter | | | | KAFJ521F56 | | KAFJ521F80 |
| Air discharge grille | | | | K-HV7AW | | K-HV9AW |
| Air discharge blind panel | | | | KDBJ52F56W | | KDBJ52F80W |
| Flexible duct (with shutter) | | | | KFDJ52F56 | | KFDJ52F80 |



FXDQ-M9

20-25

SMALL CONCEALED CEILING UNIT

Comfort & Efficiency

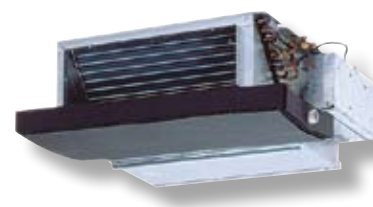
- › Designed for hotel bedrooms
- › Blends unobtrusively with any interior décor: only the suction and discharge grilles are visible
- › The use of inverter type outdoor units results in an air conditioning system with a high energy efficiency and very low sound level
- › Home leave operation saves energy during absence

Filter

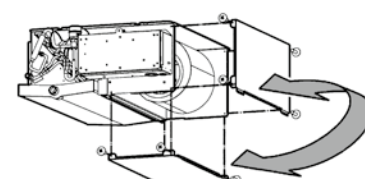
- › Standard air filter: removes airborne dust particles to ensure a steady supply of clean air

Flexible Installation

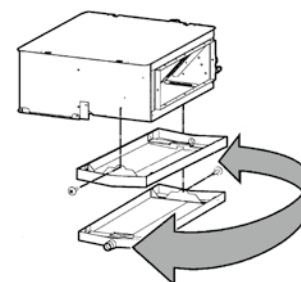
- › Compact dimensions (230mm high & 652mm deep), can easily be mounted in a ceiling void
- › The air suction direction can be altered from rear to bottom suction
- › For easy mounting, the drain pan can be located to the left or the right of the unit
- › Allows multi tenant applications (option required)



FXDQ20-25M9



Air suction direction



Drain pan

¹ Not connectable to RXYQ-PR



SPECIFICATIONS

| FXDQ-M9 | | | 20 | 25 | |
|----------------------------|------------|--------|-------------------------------|---------|-----|
| Cooling capacity | | | kW | 2.2 | 2.8 |
| Heating capacity | | | kW | 2.5 | 3.2 |
| Nominal input | cooling | kW | 0.050 | | |
| | heating | kW | 0.050 | | |
| Dimensions (HxWxD) | | mm | 230x502x652 | | |
| Weight | | kg | 17 | | |
| Casing | | | Galvanised steel plate | | |
| Air flow rate (H/L) | | m3/min | 6.7/5.2 | 7.4/5.8 | |
| External static pressure | | Pa | - | | |
| Sound pressure level (H/L) | | dB(A) | 37/32 | | |
| Sound power level | | dB(A) | 50 | | |
| Refrigerant type | | | R-410A | | |
| Piping connections | liquid/gas | mm | ø6.4/ø12.7 | | |
| Air filter | | | Resin net with mold resistant | | |
| Power supply | | V3 | 1 ~, 50Hz, 230V | | |

Notes :

Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB • outdoor temperature: 35°CDB • equivalent refrigerant piping: 8m • level difference : 0m

Nominal heating capacities are based on: indoor air temperature: 20°CDB • outdoor temperature: 7°CDB, 6°CWB • equivalent refrigerant piping: 8m • level difference : 0m

Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

ACCESSORIES

| FXDQ-M9 | | | 20 | 25 |
|-------------------------|---------|--|---------------------------|----|
| Wired remote control | | | BRC1D52, BRC2C51, BRC3A61 | |
| Infrared remote control | cooling | | BRC4C64 | |
| | heating | | BRC4C62 | |
| Multi tenant option | | | EKMTAC | |



FDBQ-B

25

SMALL CONCEALED CEILING UNIT

Comfort & Efficiency

- › Designed for hotel bedrooms
- › Blends unobtrusively with any interior décor: only the suction and discharge grilles are visible
- › The use of inverter type outdoor units results in an air conditioning system with a high energy efficiency and very low sound level
- › Home leave operation saves energy during absence
- › Whisper quiet operation: down to 28 dBA sound pressure level

Filter

- › Standard air filter: removes airborne dust particles to ensure a steady supply of clean air

Flexible Installation

- › Compact dimensions (230mm high & 652mm deep), can easily be mounted in a ceiling void



FDBQ-B

¹ Only connectable to RXYQ-PR



SPECIFICATIONS

| FDBQ-B | | | | 25 |
|--------------------------|-----------------------------|-------|--------|--------------------------------|
| Nominal input | cooling | | kW | - |
| | heating | | kW | - |
| Dimensions | | HxWxD | mm | 230x652x502 |
| Weight | | | kg | 17 |
| Casing | | | | Galvanised steel plate |
| Fan speed | | | steps | 2 steps (direct drive) |
| Air flow rate | cooling | H / L | m³/min | 6.5 / 5.2 |
| | heating | H / L | m³/min | 6.5 / 5.2 |
| External static pressure | | | | - |
| Sound pressure level | cooling | H / L | dB(A) | 35 / 28 |
| | heating | H / L | dB(A) | 35 / 29 |
| Sound power level | cooling | H | dB(A) | 55 / 49 |
| Refrigerant type | | | | R-410A |
| Piping connections | liquid / gas / drain (VP20) | | mm | 6.4 / 9.5 / ID21.6 - OD 27.2 |
| Heat insulation | | | | Both liquid and gas pipes |
| Air filter | | | | Resin net with mold resistance |
| Power supply | | | V1 | 1 ~ 220-240V,50Hz |

Notes:

Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat

Sound pressure level measured at a certain distance from the unit

ACCESSORIES

| FDBQ-B | 25 |
|----------------------|---------------------------|
| Wired remote control | BRC1D52, BRC2C51, BRC3A61 |



FXDQ-PB

20-25-32

SLIM CONCEALED CEILING UNIT

Comfort & Efficiency

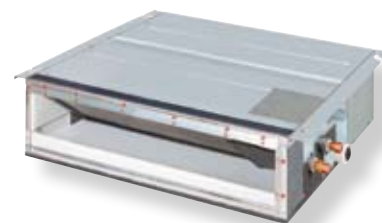
- › Blends unobtrusively with any interior décor: only the suction and discharge grilles are visible
- › The use of inverter type outdoor units results in an air conditioning system with a high energy efficiency and very low sound level
- › Home leave operation saves energy during absence

Filter

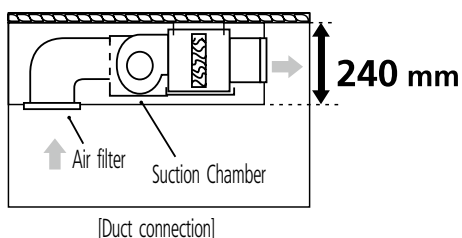
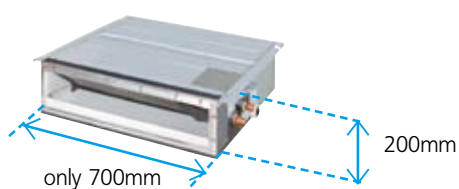
- › Standard air filter: removes airborne dust particles to ensure a steady supply of clean air

Flexible Installation

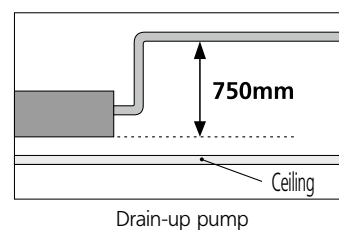
- › Compact dimensions, can easily be mounted in a ceiling void of only 240mm



FXDQ20-32PB



- › Medium external static pressure facilitates unit use with flexible ducts of varying lengths
- › Drain-up pump with 750mm lift fitted as standard
- › Allows multi tenant applications (option required)



Drain-up pump

¹ Not connectable to RXYQ-PR



SPECIFICATIONS

| FXDQ-PB | | | 20 | 25 | 32 |
|------------------------------|--------------|----------|-----------------------------------|-----------|-----------|
| Cooling capacity | | kW | 2.2 | 2.8 | 3.6 |
| Heating capacity | | kW | 2.5 | 3.2 | 4.0 |
| Nominal input | cooling | kW | 0.086 | 0.086 | 0.089 |
| | heating | kW | 0.067 | 0.067 | 0.070 |
| Dimensions (H x W x D) | | mm | 200 x 700 x 620 | | |
| Weight | | kg | 23 | 23 | 23 |
| Casing | | | Galvanised steel plate | | |
| Air flow rate (H / L) | | m³ / min | 8.0 / 6.4 | 8.0 / 6.4 | 8.0 / 6.4 |
| External static pressure | | Pa | - | | |
| Sound pressure level (H / L) | | dB(A) | 33 / 29 | 33 / 29 | 33 / 29 |
| Sound power level | | dB(A) | - | | |
| Refrigerant type | | | R-410A | | |
| Drain-up height | | mm | 750 | | |
| Piping connections | liquid / gas | mm | ø6.4 / ø12.7 | | |
| Air filter | | | Removable, washable, mildew proof | | |
| Power supply | | VE | 1 ~, 50Hz, 220-240V | | |

Notes:

Nominal cooling capacities are based on: • Indoor temperature: 27°CDB, 19°CWB • Outdoor temperature: 35°CDB • Equivalent piping length: 7.5m (horizontal).

Nominal heating capacities are based on: • Indoor temperature: 20°CDB • Outdoor temperature: 7°CDB, 6°CWB • Equivalent piping length: 7.5m (horizontal).

Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

The sound pressure values are mentioned for a unit installed with rear suction.

ACCESSORIES

| FXDQ-PB | | | 20 | 25 | 32 |
|----------------------------------|--------------|--|----|----------|----|
| Wired remote control | | | | BRC1D52 | |
| Infrared remote control | cooling only | | | BRC4C64 | |
| | heat pump | | | BRC4C62 | |
| Insulation kit for high humidity | | | | KDT25N32 | |
| Multi tenant option | | | | EKMTAC | |



FXDQ-NB

40-50-63

SLIM CONCEALED CEILING UNIT

Comfort & Efficiency

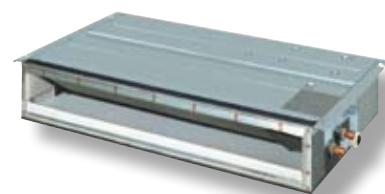
- › Blends unobtrusively with any interior décor: only the suction and discharge grilles are visible
- › The use of inverter type outdoor units results in an air conditioning system with a high energy efficiency and very low sound level
- › Home leave operation saves energy during absence

Filter

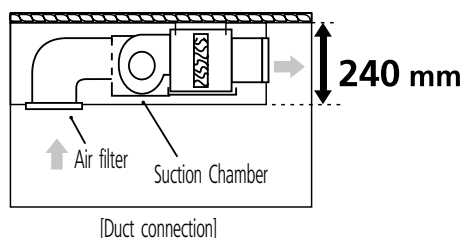
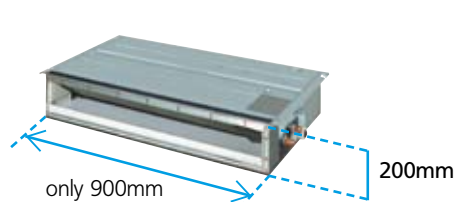
- › Standard air filter: removes airborne dust particles to ensure a steady supply of clean air

Flexible Installation

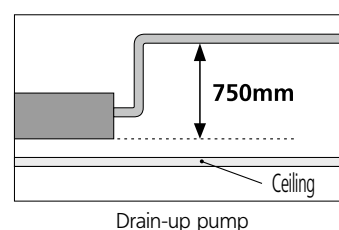
- › Compact dimensions, can easily be mounted in a ceiling void of only 240mm



FXDQ40-50NB



- › Medium external static pressure facilitates unit use with flexible ducts of varying lengths
- › Drain-up pump with 750mm lift fitted as standard
- › Allows multi tenant applications (option required)



Drain-up pump

¹ Not connectable to RXYQ-PR



SPECIFICATIONS

| FXDQ-NB | | | 40 | 50 | 63 | |
|------------------------------|---------|--------------|-----------------------------------|---------------------|-------------------|--------------|
| Cooling capacity | | | kW | 4.5 | 5.6 | 7.1 |
| Heating capacity | | | kW | 5.0 | 6.3 | 8.0 |
| Nominal input | cooling | kW | 0.160 | 0.165 | 0.181 | |
| | heating | kW | 0.070 | 0.152 | 0.168 | |
| Dimensions (H x W x D) | | | mm | 200 x 900 x 620 | 200 x 1.100 x 620 | |
| Weight | | | kg | 27 | 28 | 31 |
| Casing | | | Galvanised steel plate | | | |
| Air flow rate (H / L) | | | m³ / min | 10.5 / 8.5 | 12.5 / 10.0 | 16.5 / 13.0 |
| External static pressure | | | Pa | - | | |
| Sound pressure level (H / L) | | | dB(A) | 34 / 30 | 35 / 31 | 36 / 32 |
| Sound power level | | | dB(A) | - | | |
| Refrigerant type | | | R-410A | | | |
| Drain-up height | | | mm | 750 | | |
| Piping connections | | liquid / gas | mm | ø6.4 / ø12.7 | | ø9.5 / ø15.9 |
| Air filter | | | Removable, washable, mildew proof | | | |
| Power supply | | | VE | 1 ~, 50Hz, 220-240V | | |

Notes:

Nominal cooling capacities are based on: • Indoor temperature: 27°CDB, 19°CWB • Outdoor temperature: 35°CDB • Equivalent piping length: 7.5m (horizontal).

Nominal heating capacities are based on: • Indoor temperature: 20°CDB • Outdoor temperature: 7°CDB, 6°CWB • Equivalent piping length: 7.5m (horizontal).

Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

The sound pressure values are mentioned for a unit installed with rear suction.

ACCESSORIES

| FXDQ-NB | | | 40 | 50 | 63 |
|----------------------------------|--------------|--|----|----------|----------|
| Wired remote control | | | | BRC1D52 | |
| Infrared remote control | cooling only | | | BRC4C64 | |
| | heat pump | | | BRC4C62 | |
| Insulation kit for high humidity | | | | KDT25N50 | KDT25N63 |
| Multi tenant option | | | | EKMTAC | |



FDXS-E/C

25-35-50-60

SLIM CONCEALED CEILING UNIT

Comfort & Efficiency

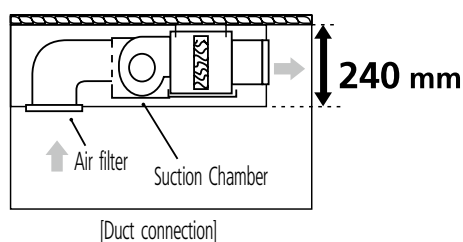
- › Blends unobtrusively with any interior décor: only the suction and discharge grilles are visible
- › The use of inverter type outdoor units results in an air conditioning system with a high energy efficiency and very low sound level
- › Home leave operation saves energy during absence
- › Night set mode saves energy by preventing overcooling or overheating during night time
- ›
- › Powerful mode can be selected for rapid cooling or heating

Filter

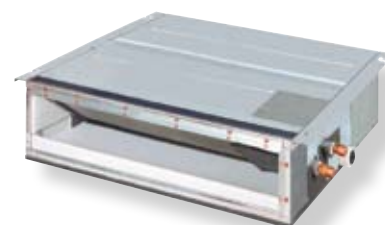
- › Standard suction filter: removes airborne dust particles to ensure a steady supply of clean air

Flexible Installation

- › Compact dimensions, can easily be mounted in a ceiling void of only 240mm



- › Medium external static pressure facilitates unit use with flexible ducts of varying lengths



FDXS25,35E

¹ Only connectable to RXYQ-PR



SPECIFICATIONS

| FDXS-E/C | | | | 25 | 35 | 50 | 60 |
|--------------------------|---------|------------|----------------------|-----------------------------------|-----------------|--------------------------------|--------------------|
| Nominal input | cooling | | kW | 0.071 | | 0.071 | |
| | heating | | kW | 0.071 | | 0.071 | |
| Dimensions (HxWxD) | | | mm | 200x700x620 | | 200x1,100x620 | |
| Weight | | | kg | 21 | | 27 | 30 |
| Casing | | | | Galvanised steel plate | | | |
| Fan speed | | | steps | 5 steps, silent and auto | | 5 steps, silent and auto | |
| Air flow rate | cooling | H / L / SL | m³ / min | 8.7 / 7.3 / 6.2 | 8.7 / 7.3 / 6.2 | 12.0 / 10.0 / 8.4 | 16.0 / 13.5 / 11.2 |
| | heating | H / L / SL | m³ / min | 8.7 / 7.3 / 6.2 | 8.7 / 7.3 / 6.2 | 12.0 / 10.0 / 8.4 | 16.0 / 13.5 / 11.2 |
| External static pressure | | | Pa | - | | - | |
| Sound pressure level | cooling | H / L / SL | dB(A) | 35 / 31 / 29 | 35 / 31 / 29 | 37 / 33 / 31 | 38 / 34 / 32 |
| | heating | H / L / SL | dB(A) | 35 / 31 / 29 | 35 / 31 / 29 | 37 / 33 / 31 | 38 / 34 / 32 |
| Sound power level | cooling | H | dB(A) | 53 | 53 | 55 | 56 |
| Refrigerant type | | | | R-410A | | | |
| Piping connections | | | liquid / gas / drain | mm | | ø6.4 / 9.5 / ID 20.0 - OD 26.0 | |
| Heat insulation | | | | ø6.4 / 12.7 / ID 20.0 - OD 26.0 | | | |
| Air filter | | | | Both liquid and gas pipes | | | |
| Power supply | | | V1 / VM | Removable, washable, mildew proof | | | |
| | | | | 1 ~, 220-240, 50Hz | | | |

Notes:

Nominal cooling capacities measured at: indoor temperature 27°CDB/19°CWB, outdoor temperature 35°CDB, equivalent piping length:: outdoor-BP 5m, BP-indoor 3m, level difference 0m

Nominal heating capacities measured at: indoor temperature 20°CDB, outdoor temperature 7°CDB/6°CWB, equivalent piping length: outdoor-BP 5m, BP-indoor 3m level difference 0m

Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat

Sound pressure level measured at a certain distance from the unit

ACCESSORIES

| FDXS-E/C | 25 | 35 | 50 | 60 |
|--|----|----|-----------|----|
| Infrared remote control | | | ARC433A8 | |
| Anti-theft protection for remote control | | | KKF917AA4 | |
| Suction grille | | | KDG19A45 | |



NEW >>>

FXSQ-P

20-25-32-40-50-63-80-100-125

INVERTER DRIVEN CONCEALED CEILING UNIT

Comfort & Efficiency

- › Reduction of power consumption of 20% (compared to previous series) through use of new DC fan
- › Improved comfort thanks to 3-step airflow control
- › Blends unobtrusively with any interior décor: only the suction and discharge grilles are visible
- › The use of an integrated inverter control ensures maximum comfort and efficiency
- › Home leave operation saves energy during absence

Filter

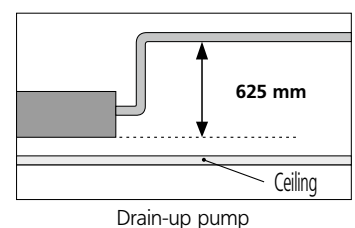
- › Standard air filter: removes airborne dust particles to ensure a steady supply of clean air

Flexible Installation

- › External static pressure up to 120 Pa facilitates the use with flexible ducts of varying lengths: ideal for shops and medium size offices
- › Possibility to change ESP through wired remote control allows optimisation of the supply air volume
- › Built-in drain pump as standard increases reliability of the drain system
- › Allows multi tenant applications (option PCB required)
- › Easy installation thanks to automatic air flow adjustment towards nominal air flow rate



FXSQ40-50P



¹ Not connectable to RXYQ-PR



SPECIFICATIONS

| FXSQ-P | | | | 20 | 25 | 32 | 40 | 50 | 63 | 80 | 100 | 125 |
|----------------------------|----------|---------------------------|--------|--|---------|---------|-----------------|---------|--|---------|-------------------|---------|
| Cooling capacity | | | kW | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | 9.0 | 11.2 | 14.0 |
| Heating capacity | | | kW | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 | 10.0 | 12.0 | 16.0 |
| Nominal Input | cooling | kW | 0.073 | 0.073 | 0.079 | 0.192 | 0.192 | 0.142 | 0.163 | 0.247 | 0.303 | |
| | heating | kW | 0.061 | 0.061 | 0.067 | 0.180 | 0.180 | 0.130 | 0.151 | 0.235 | 0.291 | |
| Dimensions (HxWxD) | | | mm | 300 x 550 x 700 | | | 300 x 700 x 700 | | 300 x 1,000 x 700 | | 300 x 1,400 x 700 | |
| Weight | | | kg | 23 | 23 | 23 | 26 | 26 | 35 | 35 | 46 | 46 |
| Casing | | | | Galvanised steel | | | | | | | | |
| Air Flow Rate | cooling | Max. | m³/min | 9 | 9 | 9.5 | 16 | 16 | 19.5 | 25 | 32 | 39 |
| | | Min. | m³/min | 6.5 | 6.5 | 7 | 11 | 11 | 16 | 20 | 23 | 28 |
| External static pressure | high | Pa | 70 | 70 | 70 | 100 | 100 | 100 | 100 | 120 | 120 | |
| | standard | Pa | 30 | 30 | 30 | 30 | 30 | 30 | 40 | 40 | 50 | |
| Sound pressure level (H/L) | | | | 26 / 32 | 26 / 32 | 29 / 37 | 29 / 37 | 29 / 37 | 30 / 37 | 32 / 38 | 33 / 38 | 33 / 40 |
| Sound power level | | | | 51 | 51 | 52 | 58 | 58 | 56 | 56 | 62 | 62 |
| Refrigerant type | | | | R-410A | R-410A | R-410A | R-410A | R-410A | R-410A | R-410A | R-410A | R-410A |
| Piping connections | | liquid (od) / gas / drain | mm | 6.35 / 12.7 / VP25 (O.D. 32 / I.D. 25) | | | | | 9.52 / 15.9 / VP25 (O.D. 32 / I.D. 25) | | | |
| Power Supply | | | | 1 ~ 50Hz, 220-240V | | | | | | | | |

Notes:

Nominal cooling capacities are based on : indoor temperature : 27°CDB, 19°CWB, outdoor temperature : 35°CDB, equivalent refrigerant piping : 7.5m, level difference : 0m.

Nominal heating capacities are based on : indoor temperature : 20°CDB, outdoor temperature : 7°CDB, 6°CWB, equivalent refrigerant piping : 7.5m, level difference : 0m.

Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

The sound pressure values are mentioned for a unit installed with rear suction

ACCESSORIES

| FXSQ-P | | 20 | 25 | 32 | 40 | 50 | 63 | 80 | 100 | 125 |
|--------------------------------------|--------------|---------------------------|----|----|------------|----|------------|----|-------------|-----|
| Wired remote control | | BRC1D52, BRC2C51, BRC3A61 | | | | | | | | |
| Infrared remote control | cooling only | BRC4C66 | | | | | | | | |
| | heat pump | BRC4C65 | | | | | | | | |
| Decoration panel | | BYBS32D | | | BYBS45D | | BYBS71D | | BYBS125D | |
| Air discharge adapter for round duct | | KDAJ25K36 | | | KDAJ25KA56 | | KDAJ25KA71 | | KDAJ25KA140 | |
| PCB for multi tenant | | DTA114A61*2 | | | | | | | | |

Notes:

*1. If installing a high efficiency filter in the unit, an assembly chamber for either bottom or rear suction is required.

*2. Mounting plate KRP4A96 is required



FBQ-C

35-50-60

INVERTER DRIVEN CONCEALED CEILING UNIT

Comfort & Efficiency

- › Reduction in power consumption thanks to DC inverter fans
- › Improved comfort thanks to 3-step airflow control
- › Blends unobtrusively with any interior décor: only the suction and discharge grilles are visible
- › The use of an integrated inverter control ensures maximum comfort and efficiency
- › Home leave operation saves energy during absence

Flexible Installation

- › Maximum external static pressure (ESP) is 100Pa
- › Possibility to change ESP through wired remote control allows optimisation of the supply air volume



FBQ35,50C

¹ Only connectable to RXYQ-PR



SPECIFICATIONS

| FBQ-C | | | | 35 | 50 | 60 |
|--------------------------|-----------------------------|-----|--------|--------------------------------|-----------------------------|---------------|
| Nominal input | cooling | | kW | 0.090 | 0.140 | 0.350 |
| | heating | | kW | 0.090 | 0.140 | 0.350 |
| Dimensions (HxWxD) | | | mm | 300x700x700 | | 300x1,000x700 |
| Weight | | | kg | 25 | 25 | 34 |
| Casing | | | | Galvanised steel plate | | |
| Air flow rate | cooling | H/L | m³/min | 16 / 11 | 16 / 11 | 18 / 15 |
| | heating | H/L | m³/min | 16 / 11 | 16 / 11 | 18 / 15 |
| External static pressure | | | | - | | |
| Fan speed | | | steps | 10 | 10 | 8 |
| Sound pressure level | cooling | H/L | dB(A) | 37 / 29 | 37 / 29 | 37 / 29 |
| | heating | H/L | dB(A) | 37 / 29 | 37 / 29 | 37 / 29 |
| Sound power level | cooling | H | dB(A) | 63 | 63 | 57 |
| Refrigerant type | | | | R-410A | | |
| Piping connections | liquid / gas / drain (VP25) | | mm | 6.35 / 9.52 / ID 25 - OD 32 | 6.35 / 12.7 / ID 25 - OD 32 | |
| Heat insulation | | | | Both liquid and gas pipes | | |
| Air filter | | | | Resin net with mold resistance | | |
| Power supply | | | V1 | 1 ~ 220-240V,50/60Hz | | |

Notes:

Nominal cooling capacities measured at: indoor temperature 27°CDB/19°CWB, outdoor temperature 35°CDB, equivalent piping length:: outdoor-BP 5m, BP-indoor 3m, level difference 0m

Nominal heating capacities measured at: indoor temperature 20°CDB, outdoor temperature 7°CDB/6°CWB, equivalent piping length: outdoor-BP 5m, BP-indoor 3m level difference 0m

Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat

Sound pressure level measured at a certain distance from the unit

ACCESSORIES

| FBO-C | 35 | 50 | 60 |
|--------------------------------------|---------------------------|----|------------|
| Wired remote control | BRC1D52, BRC2C51, BRC3A61 | | |
| Infrared remote control | BRC4C62 | | |
| Decoration panel | BYBS45D | | BYBS71D |
| Air discharge adapter for round duct | KDAJ25K56A | | KDAJ25K71A |



FXMQ-P

40-50-63-80-100-125

INVERTER DRIVEN CONCEALED CEILING UNIT

Comfort & Efficiency

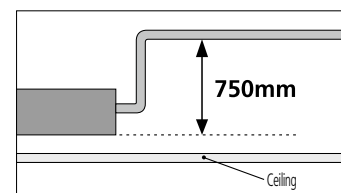
- › Reduction of power consumption of 20% (compared to previous series) through use of new DC fan
- › Improved comfort thanks to 3-step airflow control
- › Blends unobtrusively with any interior décor: only the suction and discharge grilles are visible
- › The use of inverter type outdoor units results in an air conditioning system with a high energy efficiency and very low sound level
- › Home leave operation saves energy during absence

Flexible Installation

- › Up to 200 Pa external static pressure allows extensive ductwork runs and flexible application: ideal for use in large areas
- › Possibility to change ESP through wired remote control allows optimisation of the supply air volume
- › Built-in drain pump as standard increases reliability of the drain system
- › Allows multi tenant applications (option PCB required)



FXMQ50-80P



Drain-up pump

¹ Not connectable to RXYQ-PR



SPECIFICATIONS

| FXMQ-P | | | 40 | 50 | 63 | 80 | 100 | 125 | |
|--------------------------|--------------|----------|--------------|------------------------|-----------|--------------|-------------------|---------|------|
| Cooling capacity | | | kW | 4.5 | 5.6 | 7.1 | 9.0 | 11.2 | 14.0 |
| Heating capacity | | | kW | 5.0 | 6.3 | 8.0 | 10.0 | 12.5 | 16.0 |
| Nominal input | cooling | kW | 0.194 | 0.215 | 0.230 | 0.298 | 0.376 | 0.461 | |
| | heating | kW | 0.182 | 0.203 | 0.218 | 0.286 | 0.364 | 0.449 | |
| Dimensions (H x W x D) | | | mm | 300 x 700 x 700 | | | 300 x 1,000 x 700 | | |
| Weight | | | kg | 28 | 36 | 36 | 36 | 46 | 46 |
| Casing | | | | Galvanised steel plate | | | | | |
| Air flow rate | max. / min. | m³ / min | 16 / 11 | 18 / 15 | 19.5 / 16 | 25 / 20 | 32 / 23 | 39 / 28 | |
| External static pressure | max. / min. | | 160 / 30 | 200 / 50 | | | | | |
| Sound pressure level | | | dB(A) | - | | | | | |
| Sound power level | | | dB(A) | - | | | | | |
| Refrigerant type | | | | R-410A | | | | | |
| Piping connections | liquid / gas | mm | ø6.4 / ø12.7 | | | ø9.5 / ø15.9 | | | |
| Air filter | | | | Note 1 | | | | | |
| Power supply | | | VE | 1 ~, 50Hz, 220-240V | | | | | |

Notes:

Nominal cooling capacities are based on : return air temperature : 27°CDB, 19°CWB, outdoor temperature : 35°CDB, external static pressure: 100Pa, equivalent refrigerant piping : 7.5m (horizontal)

Nominal heating capacities are based on : return air temperature : 20°CDB, outdoor temperature : 7°CDB, 6°CWB, external static pressure: 100Pa, equivalent refrigerant piping : 7.5m (horizontal)

Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

¹ The air filter is not standard accessory, but please mount it in the duct system at the suction side. Select its colorimetric method (gravity method) 50% or more.

ACCESSORIES

| FXMQ-P | | | 40 | 50 | 63 | 80 | 100 | 125 |
|-----------------------------|--------------|--|-----------------------------------|-----------------------------------|----|----|--------------------------------------|-----|
| Wired remote control | | | BRC1D52 | | | | | |
| Infrared remote control | cooling only | | BRC4C66 | | | | | |
| | heat pump | | BRC4C65 | | | | | |
| High efficiency filter 65% | | | KAF372AA56 | KAF372AA80 | | | KAF372AA160 | |
| High efficiency filter 90% | | | KAF373AA56 | KAF373AA80 | | | KAF373AA160 | |
| Filter chamber | | | KDF37AA56 | KDF37AA80 | | | KDF37AA160 | |
| Longlife replacement filter | | | KAF371AA56 | KAF371AA80 | | | KAF371AA160 | |
| Service panel | | | KTJ25K56W / KTJ25K56F / KTJ25K56T | KTJ25K80W / KTJ25K80F / KTJ25K80T | | | KTJ25K160W / KTJ25K160F / KTJ25K160T | |
| Air discharge adapter | | | KDAI25K56A | KDAI25K80A | | | KDAI25K160A | |



FXMQ-MA

200-250

LARGE CONCEALED CEILING UNIT

Comfort & Efficiency

- › Blends unobtrusively with any interior décor: only the suction and discharge grilles are visible
- › The use of an integrated inverter control ensures maximum comfort and efficiency
- › Home leave operation saves energy during absence

Flexible Installation

- › Up to 270 Pa external static pressure allows extensive ductwork runs and flexible application: ideal for use in large areas
- › Up to 31.5 kW in heating mode



FXMQ200-250MA

¹ Not connectable to RXYQ-PR and VRV®III-S (RXYSQ-PAV, RXYSQ-PAVY)



SPECIFICATIONS

| FXMQ-MA | | | 200 | 250 |
|--------------------------|--------------|----------|------------------------|------------|
| Cooling capacity | | kW | 22.4 | 28.0 |
| Heating capacity | | kW | 25.0 | 31.5 |
| Nominal input | cooling | kW | 1.294 | 1.465 |
| | heating | kW | 1.294 | 1.465 |
| Dimensions (HxWxD) | | mm | 470x1,380x1,100 | |
| Weight | | kg | 137 | 137 |
| Casing | | | Galvanised steel plate | |
| Air flow rate | max. / min. | m³ / min | 58/50 | 72/62 |
| External static pressure | max. / min. | | 221/* | 270/* |
| Sound pressure level | | dB(A) | 48/45 | 48/45 |
| Sound power level | | dB(A) | - | |
| Refrigerant type | | | R-410A | |
| Piping connections | liquid / gas | mm | ø9.5/ø19.1 | ø9.5/ø22.2 |
| Air filter | | | Note 1 | |
| Power supply | | VE | 1~, 50Hz, 220-240V | |

Notes:

Nominal cooling capacities are based on : return air temperature : 27°CDB, 19°CWB, outdoor temperature : 35°CDB, external static pressure: 100Pa, equivalent refrigerant piping : 7.5m (horizontal)

Nominal heating capacities are based on : return air temperature : 20°CDB, outdoor temperature : 7°CDB, 6°CWB, external static pressure: 100Pa, equivalent refrigerant piping : 7.5m (horizontal)

Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

¹ The air filter is not standard accessory, but please mount it in the duct system at the suction side. Select its colorimetric method (gravity method) 50% or more.

ACCESSORIES

| FXMQ-MA | | | 200 | 250 |
|-----------------------------|--------------|--|-----|-------------|
| Wired remote control | | | | BRC1D52 |
| Infrared remote control | cooling only | | | BRC4C66 |
| | heat pump | | | BRC4C65 |
| High efficiency filter 65% | | | | KAFJ372L280 |
| High efficiency filter 90% | | | | KAFJ373L280 |
| Filter chamber | | | | KDJ3705L280 |
| Longlife replacement filter | | | | KAFJ371L280 |
| Drain pump kit | | | | KDU30L250VE |



FXAQ-MV

20-25-32-40-50-63

WALL MOUNTED UNIT

Comfort & Efficiency

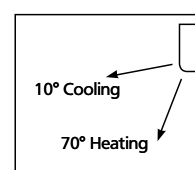
- › Vertical auto-swing function moves the discharge flaps up and down for efficient air distribution throughout the room
- › 5 different discharge angles can be programmed via the remote control
- › The use of inverter type outdoor units results in an air conditioning system with a high energy efficiency and very low sound level
- › Home leave operation saves energy during absence

Flexible Installation

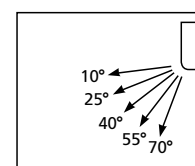
- › Can be installed in both new and existing buildings
- › Both horizontal flaps and front panel can easily be removed and washed
- › All maintenance operations can be carried out from the front of the unit
- › Allows multi tenant applications (option PCB required)



FXAQ40-63MV



Vertical auto-swing



5 discharge angles

¹ Not connectable to RXYQ-PR



SPECIFICATIONS

| FXAQ-MV | | | 20 | 25 | 32 | 40 | 50 | 63 | |
|-----------------------------------|---------|----|--------------|---------------------|------------|-------|-------------------|------------|-------|
| Cooling capacity | | | kW | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 |
| Heating capacity | | | kW | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 |
| Nominal input | cooling | kW | 0.016 | 0.022 | 0.027 | 0.020 | 0.027 | 0.050 | |
| | heating | kW | 0.024 | 0.027 | 0.032 | 0.020 | 0.032 | 0.060 | |
| Dimensions (HxWxD) | | | mm | 290 x 795 x 230 | | | 290 x 1,050 x 230 | | |
| Weight | | | kg | 11 | | | 14 | | |
| Casing colour | | | | White | | | | | |
| Air flow rate (H/L) | | | m³/min | 7.5/4.5 | 8/5 | 9/5.5 | 12/9 | 15/12 | 19/14 |
| Sound pressure level (H/L) (220V) | | | dB(A) | 35/29 | 36/29 | 37/29 | 39/34 | 42/36 | 46/39 |
| Sound power level | | | dB(A) | - | | | | | |
| Refrigerant type | | | | R-410A | | | | | |
| Piping connections | | | liquid / gas | mm | ø6.4/ø12.7 | | | ø9.5/ø15.9 | |
| Air filter | | | | Resin net washable | | | | | |
| Power supply | | | VE | 1 ~, 50Hz, 220-240V | | | | | |

Notes:

Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB • outdoor temperature: 35°CDB • equivalent refrigerant piping: 5m (horizontal).

Nominal heating capacities are based on: indoor temperature: 20°CDB • outdoor temperature: 7°CDB, 6°CWB • equivalent refrigerant piping: 5m (horizontal).

Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

ACCESSORIES

| FXAQ-MV | | | 20 | 25 | 32 | 40 | 50 | 63 |
|-------------------------|--------------|--|----|----|----|-------------|----|----|
| Wired remote control | | | | | | BRC1D52 | | |
| Infrared remote control | cooling only | | | | | BRC7E619 | | |
| | heat pump | | | | | BRC7E618 | | |
| Drain pump kit | | | | | | K-KDU572DVE | | |
| PCB for multi tenant | | | | | | DTA114A61 | | |



FTXG-E/ CTXG-E

25-35-50

WALL MOUNTED UNIT

Design

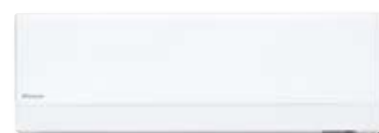
- › Good design award: unique evaluation criterion for industrial design in Japan
- › Available in 2 colour variations

Comfort & Efficiency

- › Movement sensor saves power consumption in unoccupied rooms
- › Night set mode saves energy by preventing overcooling or overheating during night time
- › Comfort mode guarantees draught free operation
- › Powerful mode can be selected for rapid cooling or heating
- › Whisper quiet operation: down to 22 dBA sound pressure level
- › The use of inverter type outdoor units results in an air conditioning system with a high energy efficiency and very low sound level
- › Home leave operation saves energy during absence

Filter

- › Titanium apatite photocatalytic air purification filter absorbs microscopic particles, decomposes odours and even deactivates bacteria and viruses



FTXG25,35E-W



FTXG25,35E-S

¹ Only connectable to RXYQ-PR



SPECIFICATIONS

| FTXG-E/CTXG-E | | | | 25 | 35 | 50 |
|----------------------|----------------------|--------|--------|---|-------------|----------------------|
| Nominal input | cooling | | kW | 0.030 | 0.030 | 0.030 |
| | heating | | kW | 0.030 | 0.030 | 0.030 |
| Dimensions (HxWxD) | | | mm | 275x840x150 | | |
| Weight | | | kg | 9 | | |
| Casing colour | | | | Mat crystal white (W) or mat crystal silver (S) | | |
| Air flow rate | cooling | H/L/SL | m³/min | 7.7/4.7/3.8 | 8.1/4.9/4.1 | 11.3/7.1/6.7 |
| | heating | H/L/SL | m³/min | 9.0/6.7/5.4 | 9.6/6.7/5.9 | 12.6/8.7/7.7 |
| Fan speed | | | steps | 5 steps, silent and auto | | |
| Sound pressure level | cooling | H/L/SL | dB(A) | 38/25/22 | 39/26/23 | 47/35/32 |
| | heating | H/L/SL | dB(A) | 38/28/25 | 39/29/26 | 47/35/32 |
| Sound power level | cooling | H | dB(A) | 56 | 57 | 64 |
| Refrigerant type | | | | R-410A | | |
| Piping connections | liquid / gas / drain | | mm | ø6.4 / ø9.5 / ø18.0 | | ø6.4 / ø12.7 / ø18.0 |
| Heat insulation | | | | Both liquid and gas pipes | | |
| Air filter | | | | Removable / washable / mildew proof | | |
| Power supply | | | V1 | 1 ~, 220-240V, 50Hz | | |

Notes:

Nominal cooling capacities measured at: indoor temperature 27°CDB/19°CWB, outdoor temperature 35°CDB, equivalent piping length:: outdoor-BP 5m, BP-indoor 3m, level difference 0m

Nominal heating capacities measured at: indoor temperature 20°CDB, outdoor temperature 7°CDB/6°CWB, equivalent piping length: outdoor-BP 5m, BP-indoor 3m level difference 0m

Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat

Sound pressure level measured at a certain distance from the unit

ACCESSORIES

| FTXG-E/CTXG-E | 25 | 35 | 50 |
|---|----|-----------|----|
| Infrared remote control | | ARC433A41 | |
| Titanium apatite photocatalytic air purification filter (with frame) | | KAF952B41 | |
| Titanium apatite photocatalytic air purification filter (without frame) | | KAF952B42 | |
| Anti-theft protection for remote control | | KKF917AA4 | |



FTXS-G

20-25-35-42-50

WALL MOUNTED UNIT

Comfort & Efficiency

- › Energy saving during standby mode: reduction of energy from 10W to 2W
- › Weekly timer: allows to program the unit on a weekly basis
- › Night set mode saves energy by preventing overcooling or overheating during night time
- › 2 area intelligent eye: air flow is sent to the area in a room where no person is detected
- › Comfort mode guarantees draught free operation
- › Powerful mode can be selected for rapid cooling or heating
- › Whisper quiet operation: down to 22 dBA sound pressure level
- › The use of inverter type outdoor units results in an air conditioning system with a high energy efficiency and very low sound level
- › Home leave operation saves energy during absence

Filter

- › Titanium apatite photocatalytic air purification filter absorbs microscopic particles, decomposes odours and even deactivates bacteria and viruses



FTXS-G

¹ Only connectable to RXYQ-PR



SPECIFICATIONS

| FTXS-G | | | | 20 | 25 | 35 | 42 | 50 |
|----------------------|---------|----------------|-------|-------------------------------------|-------------|-------------|-------------|--------------|
| Nominal input | cooling | | kW | - | | | | |
| | heating | | kW | - | | | | |
| Dimensions (HxWxD) | | | mm | 295x800x215 | | | | |
| Weight | | | kg | 9 | 9 | 10 | 10 | 10 |
| Casing colour | | | | White | | | | |
| Air flow rate | cooling | H / L | dB(A) | 9.4/5.5 | 9.1/5.2 | 10.4/4.8 | 9.1/6.3 | 10.2/7.0 |
| | heating | | | 9.9/6.5 | 9.8/6.2 | 10.6/6.4 | 11.2/7.7 | 11.0/7.6 |
| Fan speed | | | | 5 steps, silent and auto | | | | |
| Sound pressure level | cooling | H / M / L / SL | dB(A) | 38/32/25/22 | 38/32/25/22 | 42/34/26/23 | 42/38/33/30 | 43/39/34/31 |
| | heating | | | 38/33/28/25 | 39/34/28/25 | 42/36/29/26 | 42/38/33/30 | 44/39/34/31 |
| Sound power level | cooling | H | dB(A) | 54 | 54 | 58 | 58 | 59 |
| Refrigerant type | | | | R-410A | | | | |
| Piping connections | | liquid / gas | mm | ø6.4 / ø9.5 | ø6.4 / ø9.5 | ø6.4 / ø9.5 | ø6.4 / ø9.5 | ø6.4 / ø12.7 |
| Heat insulation | | | | Both liquid and gas pipes | | | | |
| Air filter | | | | Removable / washable / mildew proof | | | | |
| Power supply | | | V1 | 1~, 220-240V, 50Hz | | | | |

Notes:

Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat

Sound pressure level measured at a certain distance from the unit

ACCESSORIES

| FTXS-G | 20 | 25 | 42 | 35 | 50 |
|---|----|----|-----------|----|----|
| Infrared remote control | | | ARC452A3 | | |
| Titanium apatite photocatalytic air purification filter | | | KAF968A42 | | |
| Anti-theft protection for remote control | | | KXF910A4 | | |



FTXS-F

60-71

WALL MOUNTED UNIT

Comfort & Efficiency

- › Night set mode saves energy by preventing overcooling or overheating during night time
- › Movement sensor saves power consumption in unoccupied rooms
- › The use of inverter type outdoor units results in an air conditioning system with a high energy efficiency and very low sound level
- › Home leave operation saves energy during absence
- › Powerful mode can be selected for rapid cooling or heating

Filter

- › Titanium apatite photocatalytic air purification filter absorbs microscopic particles, decomposes odours and even deactivates bacteria and viruses



FTXS-F

¹ Only connectable to RXYQ-PR



SPECIFICATIONS

| FTXS-F | | | | 60 | 71 |
|----------------------|---------|--------------|-------|-------------------------------------|----------|
| Nominal input | cooling | | kW | 0.04 | 0.045 |
| | heating | | kW | 0.045 | 0.060 |
| Dimensions (HxWxD) | | | mm | 290x1,050x238 | |
| Weight | | | kg | 12 | |
| Casing colour | | | | White | |
| Air flow rate | cooling | H / L | dB(A) | 16.8 (H) | 16.2 (H) |
| | heating | | | 17.4 (H) | 18.2 (H) |
| Fan speed | | | | 5 steps, silent and auto | |
| Sound pressure level | cooling | H / L | dB(A) | 45 / 36 | 46 / 37 |
| | heating | | | 44 / 35 | 46 / 37 |
| Sound power level | cooling | H | dB(A) | 61 | 62 |
| Refrigerant type | | | | R-410A | |
| Piping connections | | liquid / gas | mm | ø6.4 / 12.7 | |
| Heat insulation | | | | Both liquid and gas pipes | |
| Air filter | | | | Removable / washable / mildew proof | |
| Power supply | | | | 1 ~ 220-240.50Hz | |

Notes:

Nominal cooling capacities measured at: indoor temperature 27°CDB/19°CWB, outdoor temperature 35°CDB, equivalent piping length:: outdoor-BP 5m, BP-indoor 3m, level difference 0m

Nominal heating capacities measured at: indoor temperature 20°CDB, outdoor temperature 7°CDB/6°CWB, equivalent piping length: outdoor-BP 5m, BP-indoor 3m level difference 0m

Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat

Sound pressure level measured at a certain distance from the unit

ACCESSORIES

| FTXS-F | 60 | 71 |
|---|----|-----------|
| Infrared remote control | | ARC433A70 |
| Titanium apatite photocatalytic air purification filter without frame (1) | | KAF952B42 |
| Anti-theft protection for remote control | | KKF917AA4 |

(1) standard accessory



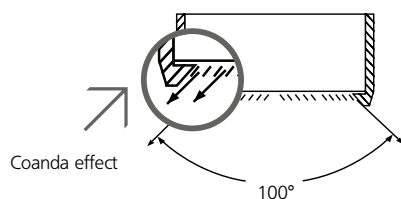
FXHQ-MA

32-63-100

CEILING SUSPENDED UNIT

Comfort & Efficiency

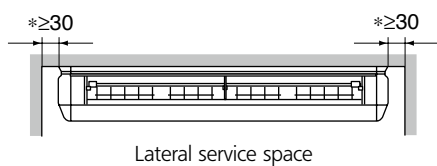
- › Wider air discharge thanks to Coanda effect: up to 100 degrees



- › The use of inverter type outdoor units results in an air conditioning system with a high energy efficiency
- › Home leave operation saves energy during absence

Flexible installation & Easy maintenance

- › Can be installed in both new and existing buildings.
- › Air flow distribution for ceiling heights up to 3.8m without loss of capacity
- › The unit can easily be mounted in corners and narrow spaces, as it only needs 30mm lateral service space



Lateral service space



FXHQ32MA

¹ Not connectable to RXYQ-PR



SPECIFICATIONS

| FXHQ-MA | | | 32 | 63 | 100 |
|-----------------------------------|------------|---------------------|-------------------------------|-------------------|-------------------|
| Cooling capacity | | kW | 3.6 | 7.1 | 11.2 |
| Heating capacity | | kW | 4.0 | 8.0 | 12.5 |
| Nominal input | cooling | kW | 0.111 | 0.115 | 0.135 |
| | heating | kW | 0.111 | 0.115 | 0.135 |
| Dimensions (HxWxD) | | mm | 195 x 960 x 680 | 195 x 1,160 x 680 | 195 x 1,400 x 680 |
| Weight | | kg | 24 | 28 | 33 |
| Colour | | | Ivory white | | |
| Air flow rate (H/L) | | m ³ /min | 12/10 | 17.5/14 | 25/19.5 |
| Sound pressure level (H/L) (220V) | | dB(A) | 36/31 | 39/34 | 45/37 |
| Sound power level | | dB(A) | - | | |
| Refrigerant type | | | R-410A | | |
| Piping connections | liquid/gas | mm | ø6.4/ø12.7 | | ø9.5/ø15.9 |
| Air filter | | | Resin net with mold resistant | | |
| Power supply | | VE | 1 ~, 50Hz, 220-240V | | |

Notes:

Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB • outdoor temperature: 35°CDB • equivalent refrigerant piping: 7.5m (horizontal).

Nominal heating capacities are based on: indoor temperature: 20°CDB • outdoor temperature: 7°CDB, 6°CWB • equivalent refrigerant piping: 7.5m (horizontal).

Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

ACCESSORIES

| FXHQ-MA | | | 32 | 63 | 100 |
|------------------------------|----------------------|--|-------------|-------------|--------------|
| Wired remote control | | | | BRC1D52 | |
| Infrared remote control | cooling only | | | BRC7E66 | |
| | heat pump | | | BRC7E63 | |
| Drain pump kit | | | KDU50M60 | KDU50M125 | KDU50M125 |
| Replacement long life filter | resin net | | KAFJ501DA56 | KAFJ501DA80 | KAFJ501DA112 |
| L-type piping kit | for upward direction | | KHFP5M35 | KHFP5M63 | KHFP5M63 |



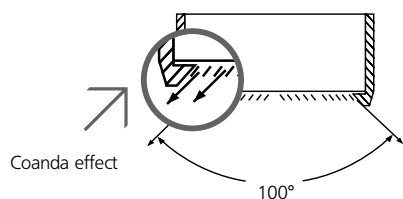
FHQ-B

35-50-60

CEILING SUSPENDED UNIT

Comfort & Efficiency

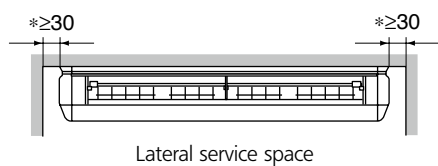
- › Wider air discharge thanks to Coanda effect: up to 100 degrees



- › The use of inverter type outdoor units results in an air conditioning system with a high energy efficiency
- › Home leave operation saves energy during absence

Flexible installation & Easy maintenance

- › Can be installed in both new and existing buildings.
- › Air flow distribution for ceiling heights up to 3.8m without loss of capacity
- › The unit can easily be mounted in corners and narrow spaces, as it only needs 30mm lateral service space



FHQ-B

¹ Only connectable to RXYQ-PR



SPECIFICATIONS

| FHQ-B | | | | 35 | 50 | 60 |
|----------------------|-----------------------------|-------|----------|-----------------------------------|---------|------------------------------------|
| Nominal input | cooling | | kW | 0.111 | 0.111 | 0.115 |
| | heating | | kW | 0.111 | 0.111 | 0.115 |
| Dimensions (HxWxD) | | | mm | 195x960x680 | | 195x1,160x680 |
| Weight | | | kg | 24 | 25 | 27 |
| Casing colour | | | | White | | |
| Fan speed | | | steps | 2 steps | | |
| Air flow rate | cooling | H / L | m³ / min | 13 / 10 | 13 / 10 | 17 / 13 |
| | heating | H / L | m³ / min | 13 / 10 | 13 / 10 | 16 / 13 |
| Sound pressure level | cooling | H / L | dB(A) | 37 / 32 | 38 / 33 | 39 / 33 |
| | heating | H / L | dB(A) | 37 / 32 | 38 / 33 | 39 / 33 |
| Sound power level | cooling | H / L | dB(A) | 53 / 48 | 54 / 49 | 55 / 49 |
| Refrigerant type | | | | R-410A | | |
| Piping connections | liquid / gas / drain (VP20) | | mm | ø6.4 / ø9.5 / ID ø20.0 - OD ø26.0 | | ø6.4 / ø12.7 / ID ø20.0 - OD ø26.0 |
| Heat insulation | | | | Both liquid and gas pipes | | |
| Power supply | | | V1 | 1 ~, 230V, 50Hz | | |

Notes:

Nominal cooling capacities measured at: indoor temperature 27°CDB / 19°CWB, outdoor temperature 35°CDB, equivalent piping length: outdoor-BP 5m, BP-indoor 3m, level difference 0m

Nominal heating capacities measured at: indoor temperature 20°CDB, outdoor temperature 7°CDB / 6°CWB, equivalent piping length: outdoor-BP 5m, BP-indoor 3m level difference 0m

Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat

Sound pressure level measured at a certain distance from the unit

ACCESSORIES

| FHQ-B | | 35 | | 50 | | 60 | |
|------------------------------|------------------|----------|--|------------|--|------------|--|
| Infrared remote control | | | | BRC7E63 | | | |
| Replacement long life filter | resin net | | | KAF501DA56 | | KAF501DA80 | |
| Drain pump kit | | | | KDU50M60 | | | |
| L-type piping kit | upward direction | KHFP5M35 | | | | KHFP5M63 | |



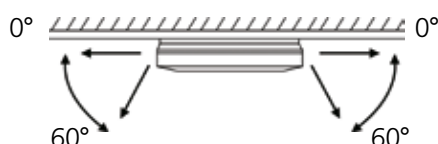
FXUQ-MA

71-100-125

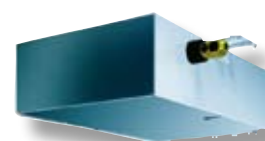
4-WAY BLOW CEILING SUSPENDED UNIT

Comfort & Efficiency

- › Air can be discharged in any of 4 directions
- › The use of inverter type outdoor units results in an air conditioning system with a high energy efficiency
- › Home leave operation saves energy during absence
- › Auto-swing function ensures efficient air and temperature distribution
- › Air can be discharged at 5 different angles between 0 and 60 degrees



FXUQ71MA



BEVQ71-125MA

Flexible installation & Easy maintenance

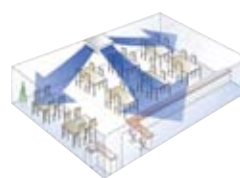
- › Can be installed in both new and existing buildings
- › Possibility to shut 1 or 2 flaps for easy installation in corners
- › Air flow distribution for ceiling heights up to 3.5m without loss of capacity
- › Drain-up pump with 500mm lift fitted as standard
- › 5m maximum distance between FXUQ unit and junction box

Examples of Airflow Patterns

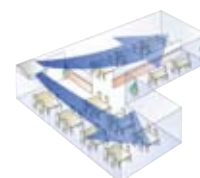
4-Way blow



3-Way blow



2-Way blow



¹ Not connectable to RXYQ-PR



SPECIFICATIONS

| FXUQ-MA | | | 71 | 100 | 125 |
|-----------------------------------|--------------|-------|-------------------------------|-----------------|-----------------|
| Cooling capacity | | kW | 8.0 | 11.2 | 14.0 |
| Heating capacity | | kW | 9.0 | 12.5 | 14.0 |
| Nominal input | cooling | kW | 0.180 | 0.289 | 0.289 |
| | heating | kW | 0.160 | 0.269 | 0.269 |
| Dimensions (HxWxD) | | mm | 165 x 895 x 895 | 230 x 895 x 895 | 230 x 895 x 895 |
| Weight | | kg | 25 | 31 | 31 |
| Colour | | | White | | |
| Air flow rate (H/L) | | | 19 / 14 | 29 / 21 | 32 / 23 |
| Sound pressure level (H/L) (220V) | | dB(A) | 40 / 35 | 43 / 38 | 44 / 39 |
| Sound power level (H) | | dB(A) | 56 | 59 | 60 |
| Refrigerant type | | | R-410A | | |
| Piping connections | liquid / gas | mm | ø9.5 / ø15.9 | ø9.5 / ø15.9 | ø9.5 / ø15.9 |
| Air filter | | | Resin net with mold resistant | | |
| Power supply | | V1 | 1 ~, 50Hz, 230V | | |
| Combination with junction box | | | BEVQ71MA | BEVQ100MA | BEVQ125MA |

Notes:

Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB • outdoor temperature: 35°CDB, 24°CWB, equivalent piping length 7.5m level difference: 0m
 Nominal heating capacities are based on: indoor temperature: 20°CDB, 15°CWB • outdoor temperature: 7°CDB, 6°CWB, equivalent piping length 7.5m level difference: 0m
 Capacities are net including a deduction for cooling (an addition for heating) for indoor fan motor heat.

ACCESSORIES

| FXUQ-MA | | | 71 | 100 | 125 |
|--|--------------|--|------------|-------------|-------------|
| Wired remote control | | | | BRC1D52 | |
| Infrared remote control | cooling only | | | BRC7C529 | |
| | heat pump | | | BRC7C528 | |
| Sealing member of air discharge outlet | | | KDBHJ49F80 | | KDBHJ49F140 |
| Air discharge decoration panel | | | KDBTJ49F80 | | KDBTJ49F140 |
| Vertical flap kit | | | KDGJ49F80 | | KDGJ49F140 |
| Replacement long life filter | | | | KAFJ49SF140 | |
| L-type connection piping kit | | | KHFP49M63 | | KHFP49M140 |

JUNCTION BOX FOR CONNECTION TO VRV®

| BEVQ-MA | | | 71 | 100 | 125 |
|--------------|-----------|----|------------------------|-------------|-----|
| Dimensions | H x W x D | mm | | 100x350x225 | |
| Weight | | kg | 3.0 | 3.0 | 3.5 |
| Casing | | | Galvanised steel plate | | |
| Power supply | | VE | 1 ~, 50Hz, 220-240V | | |



FXLQ-MA

20-25-32-40-50-63

FLOOR STANDING UNIT

Comfort

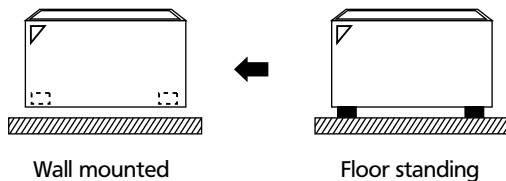
- › Ideal for installation beneath a window
- › The use of inverter type outdoor units results in an air conditioning system with a high energy efficiency
- › Home leave operation saves energy during absence

Flexible Installation

- › Requires very little installation space, only 222mm deep and 600mm high
- › Running the pipes from connections at the back, enables the unit to be wall mounted which in turn allows cleaning beneath the unit where dust tends to accumulate



FXLQ20-25MA



¹ Not connectable to RXYQ-PR



SPECIFICATIONS

| FXLQ-MA | | | 20 | 25 | 32 | 40 | 50 | 63 | |
|-----------------------------------|---------|----|------------|-------------------------------|------------|-------------------|--------|-------------------|------------|
| Cooling capacity | | | kW | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 |
| Heating capacity | | | kW | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 |
| Nominal input | cooling | kW | 0.049 | 0.049 | 0.090 | 0.090 | 0.110 | 0.110 | |
| | heating | kW | 0.049 | 0.049 | 0.090 | 0.090 | 0.110 | 0.110 | |
| Dimensions (H x W x D) | | | mm | 600 x 1,000 x 222 | | 600 x 1,140 x 222 | | 600 x 1,420 x 222 | |
| Weight | | | kg | 25 | | 30 | | 36 | |
| Colour | | | | Ivory white | | | | | |
| Air flow rate (H/L) | | | m3 /min | 7/6 | 7/6 | 8/6 | 11/8.5 | 14/11 | 16/12 |
| Sound pressure level (H/L) (220V) | | | dB(A) | 35/32 | 35/32 | 35/32 | 38/33 | 39/34 | 40/35 |
| Sound power level | | | dB(A) | - | | | | | |
| Refrigerant type | | | | R-410A | | | | | |
| Piping connections | | | liquid/gas | mm | ø6.4/ø12.7 | | | | ø9.5/ø15.9 |
| Air filter | | | | Resin net with mold resistant | | | | | |
| Power supply | | | VE | 1 ~, 50Hz, 220-240V | | | | | |

Notes:

Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB • outdoor temperature: 35°CDB • equivalent refrigerant piping: 7.5m (horizontal).

Nominal heating capacities are based on: indoor temperature: 20°CDB • outdoor temperature: 7°CDB, 6°CWB • equivalent refrigerant piping: 7.5m (horizontal).

Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

ACCESSORIES

| FXLQ-MA | | | 20 | 25 | 32 | 40 | 50 | 63 |
|------------------------------|--------------|--|---------------------------|----|------------|----|------------|----|
| Wired remote control | | | BRC1D52, BRC2C51, BRC3A61 | | | | | |
| Infrared remote control | cooling only | | BRC4C64 | | | | | |
| | heat pump | | BRC4C62 | | | | | |
| Long life replacement filter | | | KAFJ361K28 | | KAFJ361K45 | | KAFJ361K71 | |



FXNQ-MA

20-25-32-40-50-63

CONCEALED FLOOR STANDING UNIT

Comfort

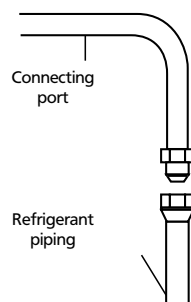
- › Ideal for installation below a window
- › Blends unobstrusively with any interior decor: only the suction and discharge grilles are visible
- › The use of inverter type outdoor units results in an air conditioning system with a high energy efficiency
- › Home leave operation saves energy during absence

Flexible Installation

- › Requires very little installation space, only 222mm deep and 600mm high
- › Running the pipes from connections at the back, enables the unit to be wall mounted which in turn allows cleaning beneath the unit where dust tends to accumulate
- › The connecting port faces downward, eliminating the need to attach auxiliary piping



FXNQ20-25MA



¹ Not connectable to RXYQ-PR



SPECIFICATIONS

| FXNQ-MA | | | 20 | 25 | 32 | 40 | 50 | 63 | |
|----------------------------------|---------|----|------------|-------------------------------|------------|-------------------|--------|-------------------|-------|
| Cooling capacity | | | kW | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 |
| Heating capacity | | | kW | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 |
| Nominal input | cooling | kW | 0.049 | 0.049 | 0.090 | 0.090 | 0.110 | 0.110 | |
| | heating | kW | 0.049 | 0.049 | 0.090 | 0.090 | 0.110 | 0.110 | |
| Dimensions (HxWxD) | | | mm | 600 x 1,00 x 222 | | 600 x 1,140 x 222 | | 600 x 1,420 x 222 | |
| Weight | | | kg | 25 | | 30 | | 36 | |
| Casing | | | | Ivory white | | | | | |
| Air flow rate (H/L) | | | m³/min | 7/6 | 7/6 | 8/6 | 11/8.5 | 14/11 | 16/12 |
| Sound pressure level (H/L)(220V) | | | dB(A) | 35/32 | 35/32 | 35/32 | 38/33 | 39/34 | 40/35 |
| Sound power level | | | dB(A) | - | | | | | |
| Refrigerant type | | | | R-410A | | | | | |
| Piping connections | | | liquid/gas | mm | ø6.4/ø12.7 | | | ø9.5/ø15.9 | |
| Air filter | | | | Resin net with mold resistant | | | | | |
| Power supply | | | VE | 1 ~, 50Hz, 220-240V | | | | | |

Notes:

Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB • outdoor temperature: 35°CDB • equivalent refrigerant piping: 8m • level difference: 0m.

Nominal heating capacities are based on: indoor temperature: 20°CDB • outdoor temperature: 7°CDB, 6°CWB • equivalent refrigerant piping: 8m • level difference: 0m.

Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

The sound pressure values are mentioned for a unit installed with rear suction.

ACCESSORIES

| FXNQ-MA | | | 20 | 25 | 32 | 40 | 50 | 63 |
|------------------------------|--------------|--|---------------------------|------------|------------|---------------------------|------------|------------|
| Wired remote control | | | BRC1D52, BRC2C51, BRC3A61 | | | BRC1D52, BRC2C51, BRC3A61 | | |
| Infrared remote control | cooling only | | BRC4C64 | | | BRC4C64 | | |
| | heat pump | | BRC4C62 | | | BRC4C62 | | |
| Replacement long life filter | | | KAFJ361K28 | KAFJ361K45 | KAFJ361K71 | KAFJ361K28 | KAFJ361K45 | KAFJ361K71 |



FVXS-F

25-35-50

FLOOR STANDING UNIT

Comfort & Efficiency

- › Night set mode saves energy by preventing overcooling or overheating during night time
- › Weekly timer: allows to program the unit on a weekly basis
- › Powerful mode can be selected for rapid cooling or heating
- › Whisper quiet operation: down to 23 dBA sound pressure level
- › The use of inverter type outdoor units results in an air conditioning system with a high energy efficiency
- › Home leave operation saves energy during absence

Filter

- › Titanium apatite photocatalytic air purification filter absorbs microscopic particles, decomposes odours and even deactivates bacteria and viruses

Flexible Installation

- › Ideal for installation beneath a window
- › Can be installed against a wall or recessed



FVXS-F

¹ Only connectable to RXYQ-PR



SPECIFICATIONS

| FVXS-F | | | | 25 | 35 | 50 |
|----------------------|----------------------|--------|--------|-------------------------------------|-------------|----------------------|
| Nominal input | cooling | | kW | 0.015 | 0.015 | 0.027 |
| | heating | | kW | 0.017 | 0.017 | 0.017 |
| Dimensions (HxWxD) | | | mm | 600x700x210 | | |
| Weight | | | kg | 14 | | |
| Casing colour | | | | White | | |
| Air flow rate | cooling | H/L/SL | m³/min | 8.2/4.8/4.1 | 8.5/4.9/4.5 | 10.7/7.8/6.6 |
| | heating | H/L/SL | m³/min | 8.8/5.0/4.4 | 9.4/5.2/4.7 | 11.8/8.5/7.1 |
| Fan speed | | | steps | 5 steps, silent and auto | | |
| Sound pressure level | cooling | H/L/SL | dB(A) | 38/26/23 | 39/27/24 | 44/36/32 |
| | heating | H/L/SL | dB(A) | 38/26/23 | 39/27/24 | 45/36/32 |
| Sound power level | cooling | H | dB(A) | 54 | 55 | 56 |
| Refrigerant type | | | | R-410A | | |
| Piping connections | liquid / gas / drain | | mm | ø6.4 / ø9.5 / ø20.0 | | ø6.4 / ø12.7 / ø20.0 |
| Heat insulation | | | | Both liquid and gas pipes | | |
| Air filter | | | | Removable / washable / mildew proof | | |
| Power supply | | | VM | 1 ~, 220-240V, 50Hz | | |

Notes:

Nominal cooling capacities measured at: indoor temperature 27°CDB/19°CWB, outdoor temperature 35°CDB, equivalent piping length: outdoor-BP 5m, BP-indoor 3m, level difference 0m

Nominal heating capacities measured at: indoor temperature 20°CDB, outdoor temperature 7°CDB/6°CWB, equivalent piping length: outdoor-BP 5m, BP-indoor 3m level difference 0m

Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat

Sound pressure level measured at a certain distance from the unit

ACCESSORIES

| FVXS-F | 25 | 35 | 50 |
|--|----|-----------|----|
| Infrared remote control | | ARC425A1 | |
| Titanium apatite photocatalytic air-purifying filter without frame (1) | | KAF968A42 | |
| Anti-theft protection for remote control | | KKF936A4 | |

(1) standard accessory



FLXS-B

25-35-50-60

FLEXI TYPE UNIT

Comfort & Efficiency

- › Night set mode saves energy by preventing overcooling or overheating during night time
- › Can fit on either ceiling or lower wall. Its low height enables it to fit beneath a window
- › Powerful mode can be selected for rapid cooling or heating
- › Whisper quiet operation: down to 28 dBA sound pressure level
- › The use of inverter type outdoor units results in an air conditioning system with a high energy efficiency
- › Home leave operation saves energy during absence

Filter

- › Air purification filter with photocatalytic deodorising function: deodorises the air, powerfully decomposes cigarette and pet odours, removes house dust and pollen, deactivates bacteria and viruses

Flexible Installation

- › Allows both ceiling suspended as floor standing installation.



FLXS-B

¹ Only connectable to RXYQ-PR



SPECIFICATIONS

| FLXS-B | | | | 25 | 35 | 50 | 60 |
|----------------------|----------------------|------------|----------|-------------------------------------|-----------------|---------------------|------------------|
| Nominal input | cooling | | kW | 0.070 | 0.078 | 0.096 | 0.098 |
| | heating | | kW | 0.074 | 0.078 | 0.096 | 0.098 |
| Dimensions (HxWxD) | | | mm | 490x1,050x200 | | | |
| Weight | | | kg | 16 | 16 | 17 | 17 |
| Casing colour | | | | Almond white | | | |
| Air flow rate | cooling | H / L / SL | m³ / min | 7.6 / 6.0 / 5.2 | 8.6 / 6.6 / 5.6 | 11.4 / 8.5 / 7.5 | 12.0 / 9.3 / 8.3 |
| | heating | H / L / SL | m³ / min | 9.2 / 7.4 / 6.6 | 9.8 / 8.0 / 7.2 | 12.1 / 7.5 / 6.8 | 12.8 / 8.4 / 7.5 |
| Fan speed | | | steps | 5 steps, silent and auto | | | |
| Sound pressure level | cooling | H / L / SL | dB(A) | 37 / 31 / 28 | 38 / 32 / 29 | 47 / 39 / 36 | 48 / 41 / 39 |
| | heating | H / L / SL | dB(A) | 37 / 31 / 29 | 39 / 33 / 30 | 46 / 35 / 33 | 47 / 37 / 34 |
| Sound power level | cooling | H | dB(A) | 53 | 54 | 63 | 64 |
| Refrigerant type | | | | R-410A | | | |
| Piping connections | liquid / gas / drain | | mm | ø6.4 / ø9.5 / ø18.0 | | ø6.4 / ø9.5 / ø20.0 | |
| Heat insulation | | | | Both liquid and gas pipes | | | |
| Air filter | | | | Removable / washable / mildew proof | | | |
| Power supply | | | VM | 1 ~, 220-240 V, 50 Hz | | | |

Notes:

Nominal cooling capacities measured at: indoor temperature 27°CDB/19°CWB, outdoor temperature 35°CDB, equivalent piping length:: outdoor-BP 5m, BP-indoor 3m, level difference 0m

Nominal heating capacities measured at: indoor temperature 20°CDB, outdoor temperature 7°CDB/6°CWB, equivalent piping length: outdoor-BP 5m, BP-indoor 3m level difference 0m

Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat

Sound pressure level measured at a certain distance from the unit

ACCESSORIES

| FLXS-B | 25 | 35 | 50 | 60 |
|---|----|----|-----------|----|
| Infrared remote control | | | ARC433A5 | |
| Photocatalytic deodorising filter (with frame) | | | KAZ917B41 | |
| Photocatalytic deodorising filter (without frame) | | | KAZ917B42 | |
| Air purification filter (with frame) | | | KAF925B41 | |
| Air purification filter (without frame) | | | KAF925B42 | |
| Anti-theft protection for remote control | | | KKF917AA4 | |

INTEGRATED VENTILATION

Daikin offers a variety of solutions for the provision of fresh air ventilation to offices, hotels, stores and other commercial outlets – each one complementary to and as flexible as the VRV® system itself.

Heat Reclaim Ventilation

Proper ventilation is a key component of climate control in buildings, offices and shops. In its basic function, it ensures a flow of incoming fresh air and outgoing stale air. Our HRV (heat reclaim ventilation) solution can do much more. It can recover heat and **OPTIMISE THE BALANCE BETWEEN INDOOR AND OUTDOOR TEMPERATURE AND HUMIDITY**, thus reducing the load on the system and increasing efficiency.

Outdoor air processing in a single unit

Our FXMQ-MF air processing solution uses heat pump technology to **COMBINE FRESH AIR TREATMENT AND AIR CONDITIONING IN A SINGLE SYSTEM**, thereby eliminating the usual design problems associated with balancing air supply and discharge. Total system cost is reduced and design flexibility enhanced because the air conditioning fan coil units and an outdoor air treatment unit can be connected to the same refrigerant line.

VRV® air handling applications

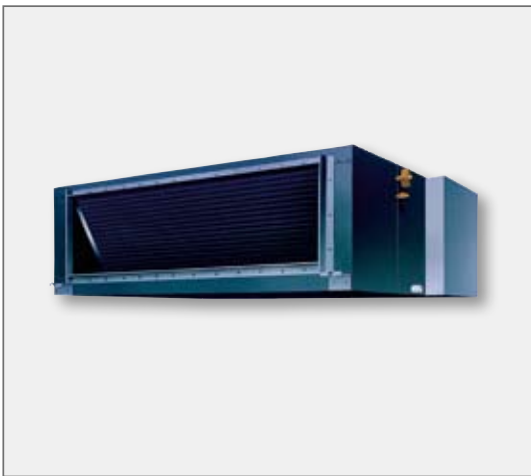
For medium and large commercial spaces, we offer a range of R-410A inverter condensing units that provide air handling and air conditioning. This approach combines the flexibility of our VRV® units with Air Handling Applications, resulting in a simple, reliable design for **OPTIMUM CONTROL OF INDOOR AIR QUALITY AND MAXIMUM EFFICIENCY**.



HEAT RECLAIM VENTILATION



VRV® AIR HANDLING APPLICATIONS



OUTDOOR AIR PROCESSING UNIT

HEAT RECLAIM VENTILATION

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OUTDOOR AIR PROCESSING UNIT

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VRV® AIR HANDLING APPLICATIONS

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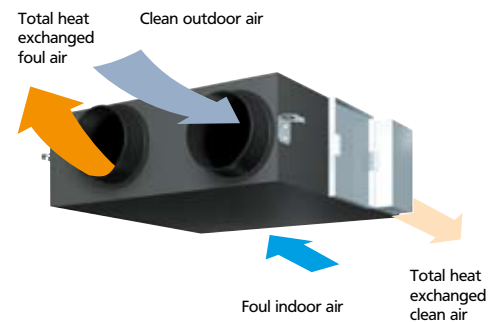


VAM-FA

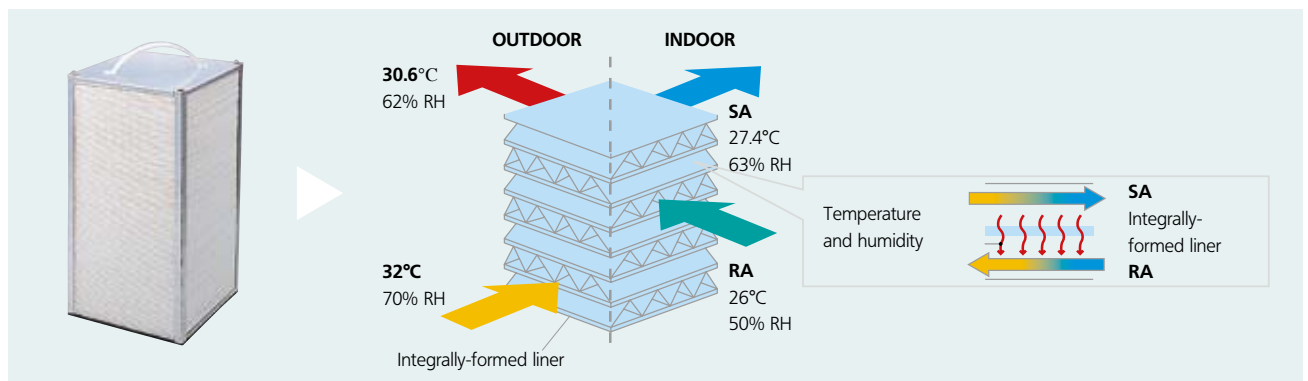
HEAT RECLAIM VENTILATION

The Daikin heat reclaim ventilation system modulates the temperature and humidity of incoming fresh air to match indoor conditions. A balance is thus achieved between indoor and outdoor ambients, enabling the cooling or heating load placed on the air conditioning system to be reduced significantly. HRV units can be controlled individually or integral with the Daikin VRV® or Sky Air series.

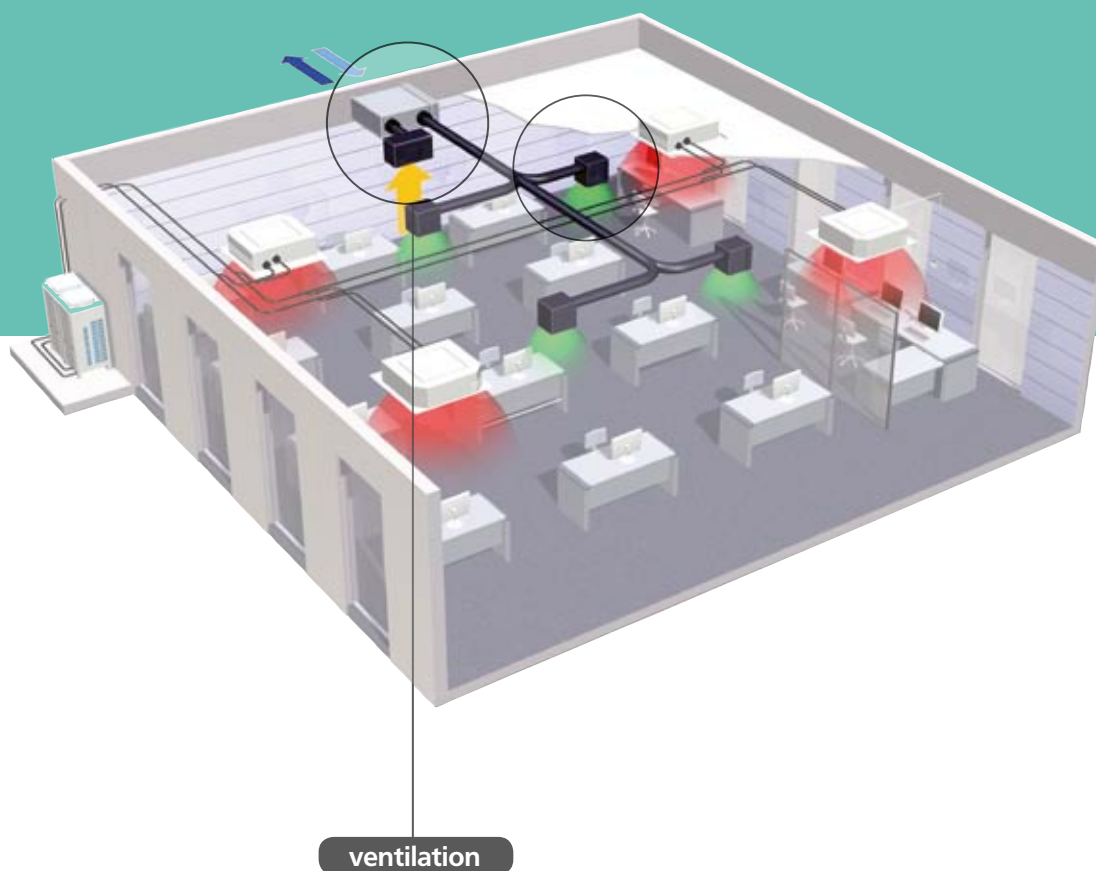
- › 9 models to choose from
- › Compact, energy saving ventilation
- › Specially developed heat exchange element with HEP (High Efficiency Paper)
- › Easy integration into the VRV® system
- › Connectable to current Daikin control systems



High Efficiency Paper



RH: Relative Humidity
SA: Supply Air (to room)
RA: Return Air (from room)



VAM-FA

| VENTILATION | | | VAM150FA | VAM250FA | VAM350FA | VAM500FA | VAM650FA | VAM800FA | VAM1000FA | VAM1500FA | VAM2000FA |
|--|---------|----|-------------------|--------------------------------|----------|----------|----------|-----------|-----------|-----------|-----------|
| Air flow rate | | | m ³ /h | 150 | 250 | 350 | 500 | 650 | 800 | 1,000 | 2,000 |
| Sound pressure level (max.) ¹ | | | dB(A) | 27/28.5 | 28/29 | 32/34 | 33/34.5 | 34.5/35.5 | 36/37 | 36/37 | 39.5/41.5 |
| External static pressure (max.) | | | Pa | 69 | 64 | 98 | 98 | 93 | 137 | 157 | 137 |
| Temperature exchange efficiency | | | % | 74 | 72 | 75 | 74 | 74 | 74 | 75 | 75 |
| Enthalpy exchange efficiency | heating | % | 58 | 58 | 61 | 58 | 58 | 60 | 61 | 61 | 61 |
| | cooling | % | 64 | 64 | 65 | 62 | 63 | 65 | 66 | 66 | 66 |
| Dimensions | Height | mm | 285 | 285 | 301 | 301 | 364 | 364 | 364 | 726 | 726 |
| | Width | mm | 776 | 776 | 828 | 828 | 1,004 | 1,004 | 1,004 | 1,514 | 1,514 |
| | Depth | mm | 525 | 525 | 816 | 816 | 868 | 868 | 1,156 | 868 | 1,156 |
| Weight | | | kg | 24 | 24 | 33 | 33 | 48 | 48 | 61 | 132 |
| Duct diameter | | | mm | Ø 100 | Ø 150 | Ø 150 | Ø 200 | Ø 200 | Ø 250 | Ø 250 | Ø 350 |
| Operation range (Ambient) | | | | -15 ~ 50° CDB (80% RH or less) | | | | | | | |
| Power supply | | | VE | 1 ~, 50Hz, 220-240V | | | | | | | |

¹ Sound pressure level is measured in heat exchange mode.



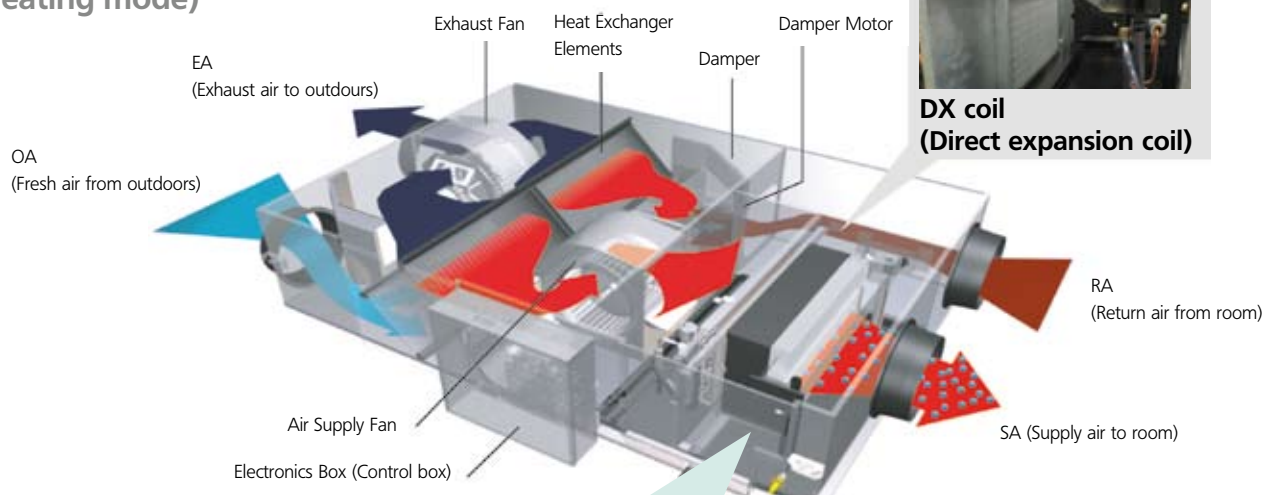
VKM-GM
VKM-G

HEAT RECLAIM VENTILATION

- › Heat purge (economiser): heat accumulated indoors is discharged at night
- › Integration of humidification and air conditioning into HRV unit
- › Increased static pressure thanks to improved fan performance
- › Individual control via HRV remote control
- › Connectable to current Daikin control systems

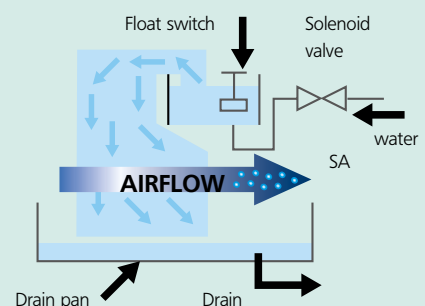


Operation example: humidification & air processing (heating mode)¹



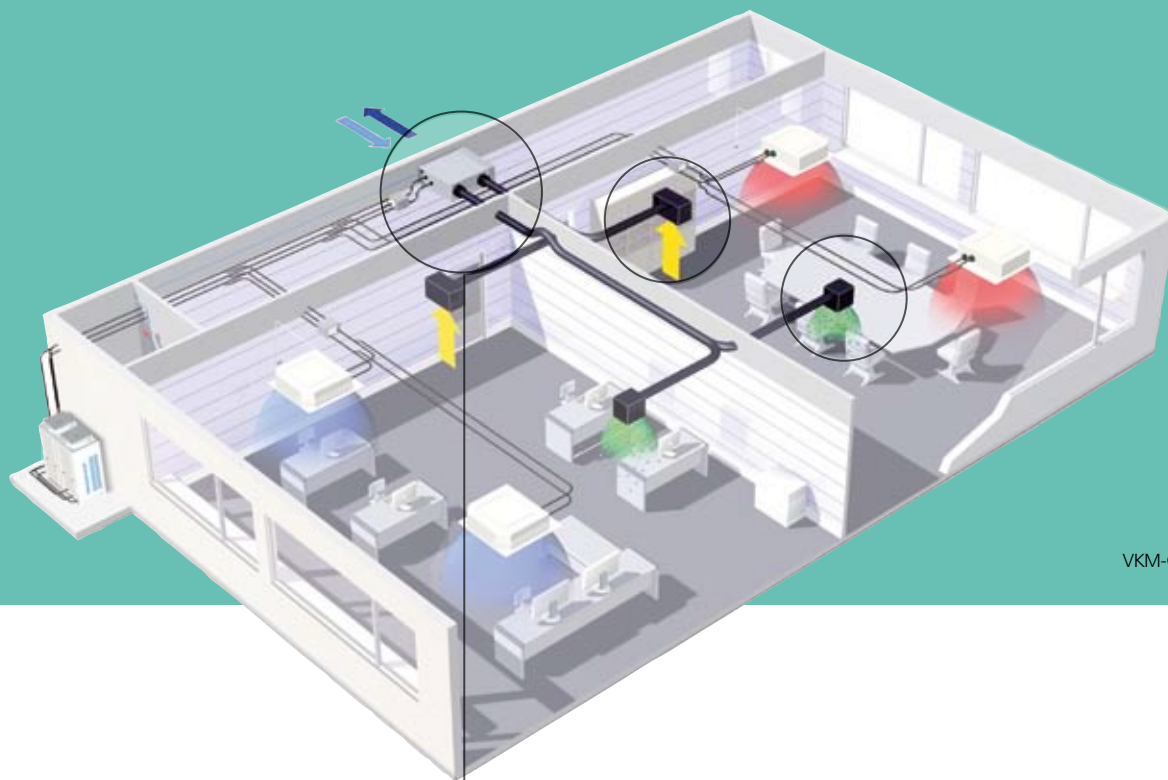
Humidifier element:

Utilizing the principle of capillary action, water is permeated throughout the humidifier element. The heated air from the DX coil passes through the humidifier and absorbs the moisture.



¹ VKM-GM example

² Not connectable to RXYQ-PR



VKM-GM example

Ventilation, humidification & air processing

VKM-GM

| VENTILATION, DX coil & humidifier | | | VKM50GM | VKM80GM | VKM100GM |
|--|-------------------------|-------|--------------------------------|------------------|-----------------|
| Fresh air conditioning load | cooling | kW | 4.71 | 7.46 | 9.12 |
| | heating | kW | 5.58 | 8.79 | 10.69 |
| Air flow rate | ultra high - high - low | m³/h | 500 - 500 - 440 | 750 - 750 - 640 | 950 - 950 - 820 |
| Sound pressure level - 220V | ultra high - high - low | dB(A) | 37 - 35.5 - 32 | 38.5 - 36 - 33 | 39 - 37 - 34 |
| Sound pressure level - 240V | ultra high - high - low | dB(A) | 38 - 36 - 34 | 40 - 37.5 - 35.5 | 40 - 38 - 35.5 |
| Static pressure | ultra high - high - low | Pa | 160 - 120 - 100 | 140 - 90 - 70 | 110 - 70 - 60 |
| Temperature exchange efficiency | ultra high - high - low | % | 76 - 76 - 77.5 | 78 - 78 - 79 | 74 - 74 - 76.5 |
| Enthalpy exchange efficiency - cooling | ultra high - high - low | % | 64 - 64 - 67 | 66 - 66 - 68 | 62 - 62 - 66 |
| Enthalpy exchange efficiency - heating | ultra high - high - low | % | 67 - 67 - 69 | 71 - 71 - 73 | 65 - 65 - 69 |
| Humidifier type | | | Natural evaporating humidifier | | |
| Humidification capacity | | kg/h | 2.70 | 4.00 | 5.40 |
| Dimensions | height | mm | 387 | 387 | 387 |
| | width | mm | 1,764 | 1,764 | 1,764 |
| | depth | mm | 832 | 1,214 | 1,214 |
| Weight | | kg | 102 | 120 | 125 |
| Unit ambient condition | around unit | | 0 ~ 40°C DW (80% or less) | | |
| | outdoor air | | -15 ~ 40°C DW (80% or less) | | |
| | return air | | 0 ~ 40°C DW (80% or less) | | |
| Power supply | | V1 | 1 ~, 220-240V, 50Hz | | |

VKM-G

| VENTILATION & DX coil | | | VKM50G | VKM80G | VKM100G |
|--|-------------------------|-------|-----------------------------|------------------|-----------------|
| Fresh air conditioning load | cooling | kW | 4.71 | 7.46 | 9.12 |
| | heating | kW | 5.58 | 8.79 | 10.69 |
| Air flow rate | ultra high - high - low | m³/h | 500 - 500 - 440 | 750 - 750 - 640 | 950 - 950 - 820 |
| Sound pressure level - 220V | ultra high - high - low | dB(A) | 38 - 36 - 33.5 | 40 - 37.5 - 34.5 | 40 - 38 - 35 |
| Sound pressure level - 240V | ultra high - high - low | dB(A) | 39 - 37 - 35.5 | 41.5 - 39 - 37 | 41 - 39 - 36.5 |
| Static pressure | ultra high - high - low | Pa | 180 - 150 - 110 | 170 - 120 - 80 | 150 - 100 - 70 |
| Temperature exchange efficiency | ultra high - high - low | % | 76 - 76 - 77.5 | 78 - 78 - 79 | 74 - 74 - 76.5 |
| Enthalpy exchange efficiency - cooling | ultra high - high - low | % | 64 - 64 - 67 | 66 - 66 - 68 | 62 - 62 - 66 |
| Enthalpy exchange efficiency - heating | ultra high - high - low | % | 67 - 67 - 69 | 71 - 71 - 73 | 65 - 65 - 69 |
| Dimensions | height | mm | 387 | 387 | 387 |
| | width | mm | 1,764 | 1,764 | 1,764 |
| | depth | mm | 832 | 1,214 | 1,214 |
| Weight | | kg | 96 | 109 | 114 |
| Unit ambient condition | around unit | | 0 ~ 40°C DW (80% or less) | | |
| | outdoor air | | -15 ~ 40°C DW (80% or less) | | |
| | return air | | 0 ~ 40°C DW (80% or less) | | |
| Power supply | | V1 | 1 ~, 220-240V, 50Hz | | |



FXMQ-MF

OUTDOOR AIR PROCESSING UNIT

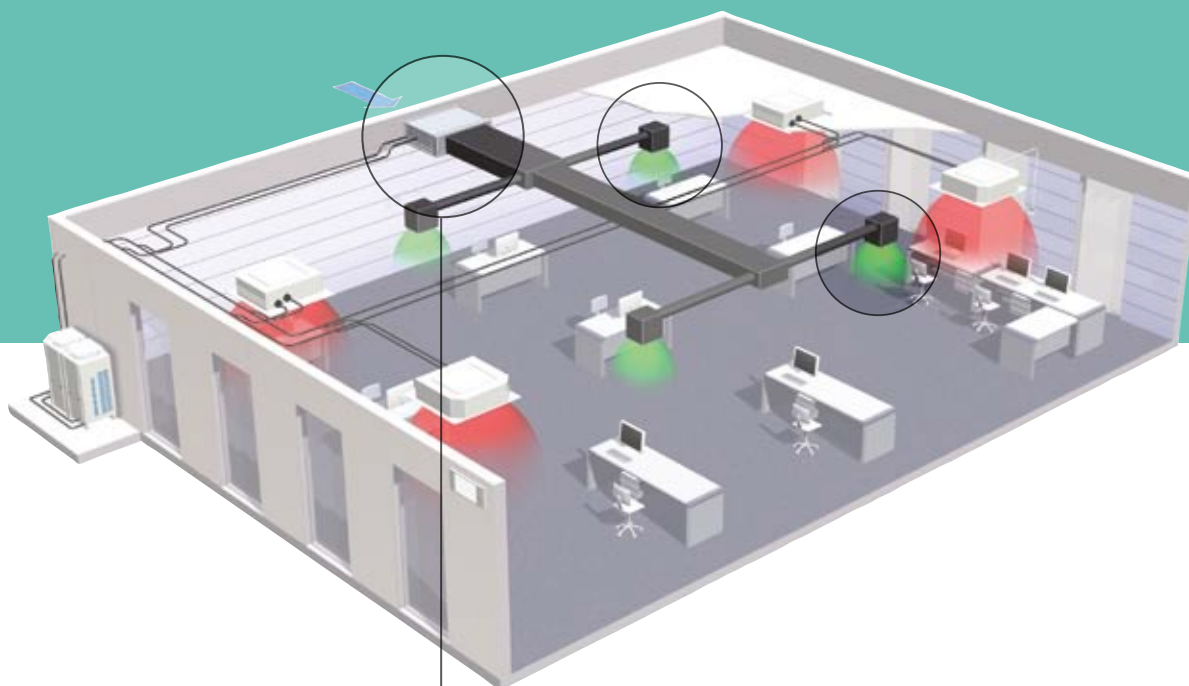
COMBINED FRESH AIR TREATMENT AND AIR CONDITIONING VIA A SINGLE SYSTEM



Both fresh air treatment and air conditioning can be achieved successfully in a single system via heat pump technology without the usual design problems associated with balancing air supply and discharge. Air conditioning fan coil units and an outdoor air treatment unit can be connected to the same refrigerant line, resulting in enhanced design flexibility and a significant reduction in total system costs.

- › 100% fresh air intake possible
- › Leaves maximum floor and wall space for furniture, decorations and fittings
- › Operation range: -5°C to 43°C
- › 225 Pa external static pressure allows extensive ductwork runs and flexible application: ideal for use in large areas
- › Drain pump kit available as accessory

¹ Not connectable to RXYQ-PR and VRV®III-S (RXYSQ-PAV, RXYSQ-PAVY)



Ventilation & air processing

FXMQ-MF

| indoor Units | | | | FXMQ125MF | FXMQ200MF | FXMQ250MF |
|--------------------|-----------------------|--------|--------|-------------------|-------------------|-------------------|
| Capacity | cooling | | kw | 14.0 | 22.4 | 28.00 |
| | heating | | kw | 8.9 | 13.9 | 17.40 |
| Power Input | cooling | | kw | 0.359 | 0.548 | 0.638 |
| | heating | | kw | 0.359 | 0.548 | 0.638 |
| Dimensions | HxWxD | | mm | 470x744x1,100 | 470x1380x1,100 | |
| Weight | | | kg | 86 | 123 | |
| Air Flow Rate | cooling | medium | m3/min | 18.0 | 28.0 | 35.0 |
| | heating | medium | m3/min | 18.0 | 28.0 | 35.0 |
| Refrigerant | | | | - | | |
| Power Supply | | | | 220-240V/50Hz | | |
| Piping Connections | liquid (od)/gas/drain | | mm | 9.5 / 15.9 / PS1B | 9.5 / 19.1 / PS1B | 9.5 / 22.2 / PS1B |



VRV® + EXV-kit

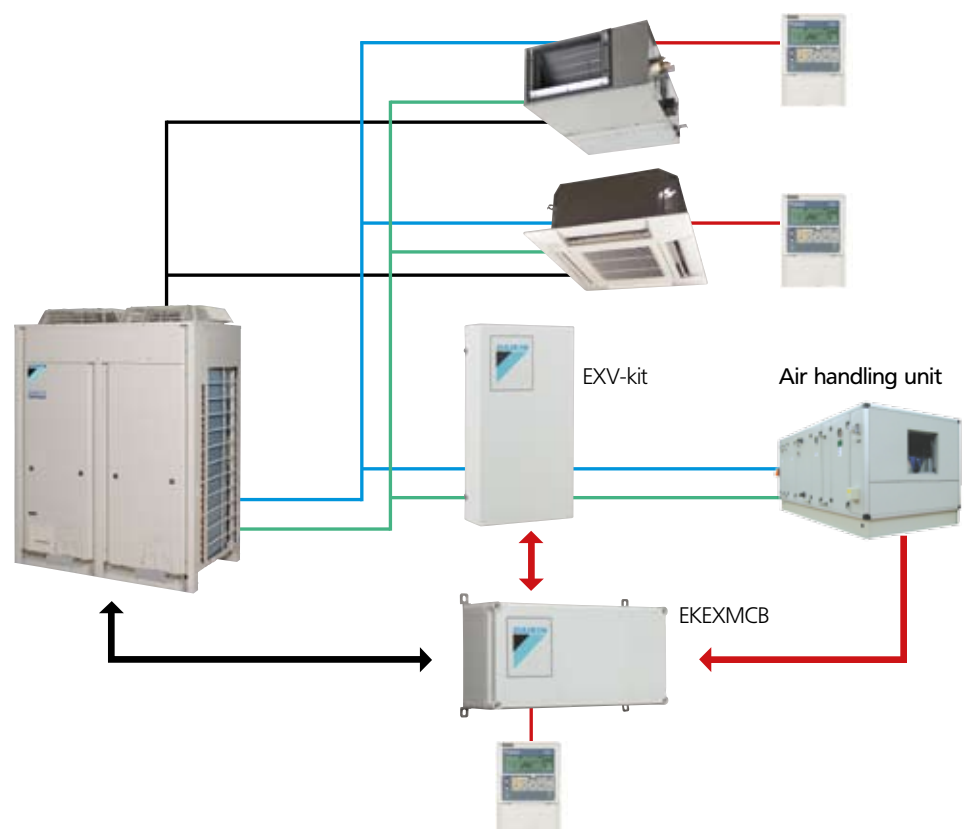
VRV® AIR HANDLING APPLICATIONS

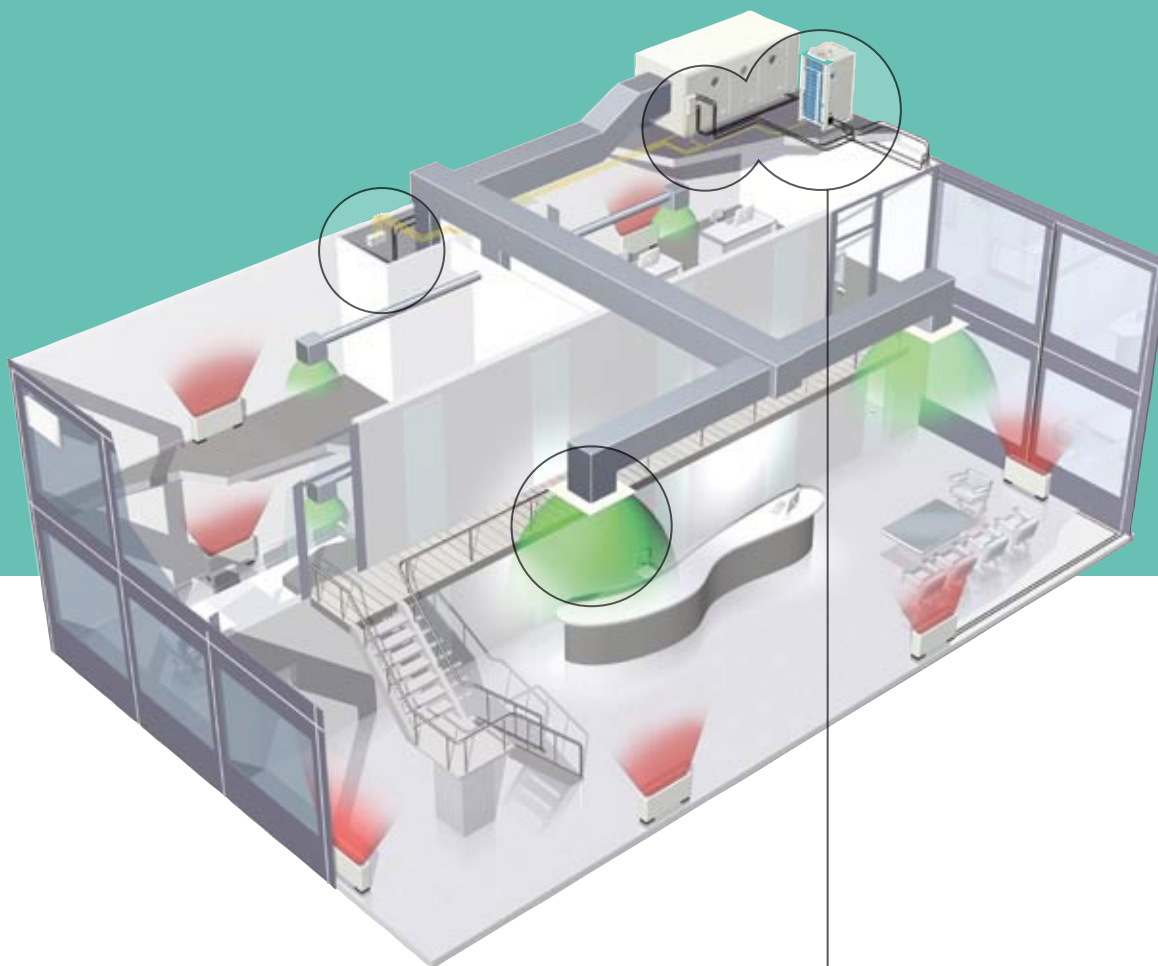
- › VRV® cooling only condensing unit provide cooling to air handling units through a dedicated expansion valve kit
- › Large range of expansion valve kits available (5 to 25 kW cooling capacity).
- › Set point control through wired remote controller BRC1D52
- › Connectable to large range of cooling only outdoor VRV® units (single systems: 5 - 18 Hp)



System example:

- gas pipe
- liquid pipe
- F1, F2 communication





Ventilation & air processing

Cooling only

| RXQ-P(A) | | | 5 | 8 | 10 | 12 | 14 | 16 | 18 | |
|--|-----------------|-----------|-----------------|-------------|------------|-------------|---------------|------|-------------|-----------------|
| Capacity range | | HP | 5 | 8 | 10 | 12 | 14 | 16 | 18 | |
| Capacity | cooling | kw | 14.0 | 22.4 | 28.0 | 33.5 | 40.0 | 45.0 | 49.0 | |
| Power input (Nominal) | cooling | kw | 3.52 | 5.56 | 7.42 | 9.62 | 12.4 | 14.2 | 16.2 | |
| Dimensions | HxWxD | mm | 1,680x635x765 | | | | 1,680x930x765 | | | 1,680x1,240x765 |
| Weight | | kg | 157 | 185 | 238 | | 315 | | 323 | |
| Sound Level | sound power | cooling | dBA | 72 | 78 | | 80 | | 83 | |
| | sound pressure | cooling | dBA | 54 | 57 | 58 | 60 | | 63 | |
| Air Flow Rate (nominal at 230V) | cooling | m³/min | 95 | 171 | 185 | 196 | 233 | | 239 | |
| Operation Range | cooling | min ~ max | °CDB | -5.0 ~ 43.0 | | | | | | |
| Refrigerant | | | R-410A | | | | | | | |
| Power Supply | | | 3N ~ /400V/50Hz | | | | | | | |
| Max n° of indoor units to be connected | | | 8 | 13 | 16 | 19 | 23 | 26 | 29 | |
| Piping connections | liquid (OD)/gas | mm | 9.5 / 15.9 | 9.5 / 19.1 | 9.5 / 22.2 | 12.7 / 22.2 | 12.7 / 28.6 | | 15.9 / 28.6 | |

Combination table

| Outdoor unit | | Control box | Expansion valve kit | | | | | | | |
|--------------|---------|-------------|---------------------|----------|----------|-----------|-----------|-----------|-----------|-----------|
| | | control z | class 50 | class 63 | class 80 | class 100 | class 125 | class 140 | class 200 | class 250 |
| 3ph | RXQ5P | x | x | x | x | x | x | x | x | x |
| | RXQ8P | x | x | x | x | x | x | x | x | x |
| | RXQ10P | x | x | x | x | x | x | x | x | x |
| | RXQ12P | x | x | x | x | x | x | x | x | x |
| | RXQ14PA | x | x | x | x | x | x | x | x | x |
| | RXQ16PA | x | x | x | x | x | x | x | x | x |
| | RXQ18PA | x | x | x | x | x | x | x | x | x |

USER FRIENDLY CONTROL SYSTEMS

An air conditioning system will only operate as efficiently as its control system allows and the importance of precise, user friendly equipment is as relevant to simple residential room temperature controls as it is to full remote monitoring and regulation of large scale commercial buildings.

In order to keep pace with the technical advances inherent in modern air conditioning plus the urgent need to achieve higher energy efficiencies and manageable fuel costs, Daikin invests heavily in the research and production of similarly advanced and comprehensive methods of control.

In buildings with multiple air conditioning units that operate for long hours, system efficiency plays a paramount role in the pursuit of reduced energy consumption. **MAXIMUM EFFICIENCY** demands that maximum control of all aspects of system operation must be in harmony with important allied considerations such as round the clock monitoring, preventive maintenance, fault predictive analysis and rapid response in the event of malfunctions..

Daikin manufactures and markets an extensive portfolio of **STATE OF THE ART** computerised control systems that offer building owners, landlords and tenants comprehensive system cover backed up by vital data on operational performance and running costs on air conditioning systems of any size and complexity.



INDIVIDUAL CONTROL SYSTEMS



NETWORK SOLUTIONS



CENTRALISED CONTROL SYSTEMS

| | |
|-----------------------------|-------|
| INDIVIDUAL CONTROL SYSTEMS | P 142 |
| CENTRALISED CONTROL SYSTEMS | P 144 |
| NETWORK SOLUTIONS | P 145 |

INDIVIDUAL CONTROL SYSTEMS

BRC4*

BRC7* ARC4*



INFRARED REMOTE CONTROL

Operation buttons: ON/OFF, timer mode start/stop, timer mode on/off, programme time, temperature setting, air flow direction¹, operating mode, fan speed control, filter sign reset², inspection/test indication²

Display: Operating mode, battery change, set temperature, air flow direction¹, programmed time, fan speed, inspection/test operation²

¹ Not applicable for FXDQ, FXSQ, FXNQ, FBDQ, FDXS, FBQ

² For FX** units only

³ For all features of the remote control, refer to the operation manual

SIMPLIFIED REMOTE CONTROL

Simple, compact and easy to operate unit, suitable for use in hotel bedrooms

Operation buttons: ON/OFF, operating mode selection, fan speed control, temperature setting

Display: Cool/heat changeover control, Heat Recovery Ventilation (HRV) in operation, set temperature, operating mode, centralised control indication, fan speed, defrost/hot start, malfunction adjustment, operating mode selection, fan speed control, filter sign reset, inspection test / operation

BRC2C51



BRC3A61



SIMPLIFIED BUILT-IN REMOTE CONTROL FOR HOTEL APPLICATIONS

Compact, user friendly unit, ideal for use in hotel bedrooms

Operation buttons: ON/OFF, fan speed control, temperature setting

Display: Heat Recovery Ventilation (HRV) in operation, set temperature, operating mode, centralised control indication, fan speed, defrost/hot start, malfunction



BRC1D52



WIRED REMOTE CONTROL

- › Limit operation (min/max): room temperature is controlled within adjustable upper and lower limits. Limit operation can be activated manually or by schedule timer
- › Real time clock: indicates real time and day
- › Schedule timer:
 - It is possible to programme a weekly schedule timer
 - It is possible to programme the remote control for each day of the week.
 Five day actions can be set as follows:
 - Set point: unit is switched ON and normal operation is maintained
 - OFF: unit is switched OFF
 - Limits: unit is switched ON and min/max control (cf. limit operation for more details)
- › Home leave (frost protection): during occupants' absence, the indoor temperature can be maintained at a certain level. This function can also switch the unit ON/OFF
- › Different levels of disabled buttons can be selected as follows:
 - **Level 1:** all buttons are accessible
 - **Level 2:** all buttons are disabled except for: ON / OFF, set temperature up/down, fan speed, cooling/heating mode, enable/disable schedule timer, air flow direction adjustment button
 - **Level 3:** all buttons are disabled except for: ON/OFF, set temperature up/down, fan speed
- › User friendly HRV function, thanks to the introduction of a button for ventilation mode and fan speed
- › Constantly monitoring of the system for malfunctions in a total of 80 components
- › Immediate display of fault location and condition
- › Reduction of maintenance time and costs

Operation buttons: ON / OFF, timer mode start / stop, timer on/off, programmed time, temperature setting, air flow direction adjustment, operating mode selection, fan speed control, filter sign reset, inspection test/operation

Display: Operating mode, Heat Recovery Ventilation (HRV) in operation, cool / heat changeover control, centralised control indication, group control indication, set temperature, air flow direction, programmed time, inspection/test operation, fan speed, clean air filter, defrost / hot start, malfunction

CENTRALISED CONTROL SYSTEMS

DCS302C51



CENTRALISED REMOTE CONTROL

Providing individual control of 64 groups (zones) of indoor units

- › A maximum of 64 groups (128 indoor units, max. 10 outdoor units) can be controlled
- › A maximum of 128 groups (128 indoor units, max. 10 outdoor units) can be controlled via 2 centralised remote controls in separate locations
- › Zone control
- › Group control (up and down buttons are added for group selection)
- › Control of HRV air flow direction and air flow rate
- › Expanded timer function
- › Malfunction code display
- › Maximum wiring length of 1,000m (total: 2,000m)

DCS301B51



UNIFIED ON/OFF CONTROL

Providing simultaneous and individual control of 16 groups of indoor units

- › A maximum of 16 groups (128 indoor units) can be controlled
- › 2 remote controls in separate locations can be used
- › Operating status indication (normal operation, alarm)
- › Centralised control indication
- › Maximum wiring length of 1,000m (total: 2,000m)

DST301B51



SCHEDULE TIMER

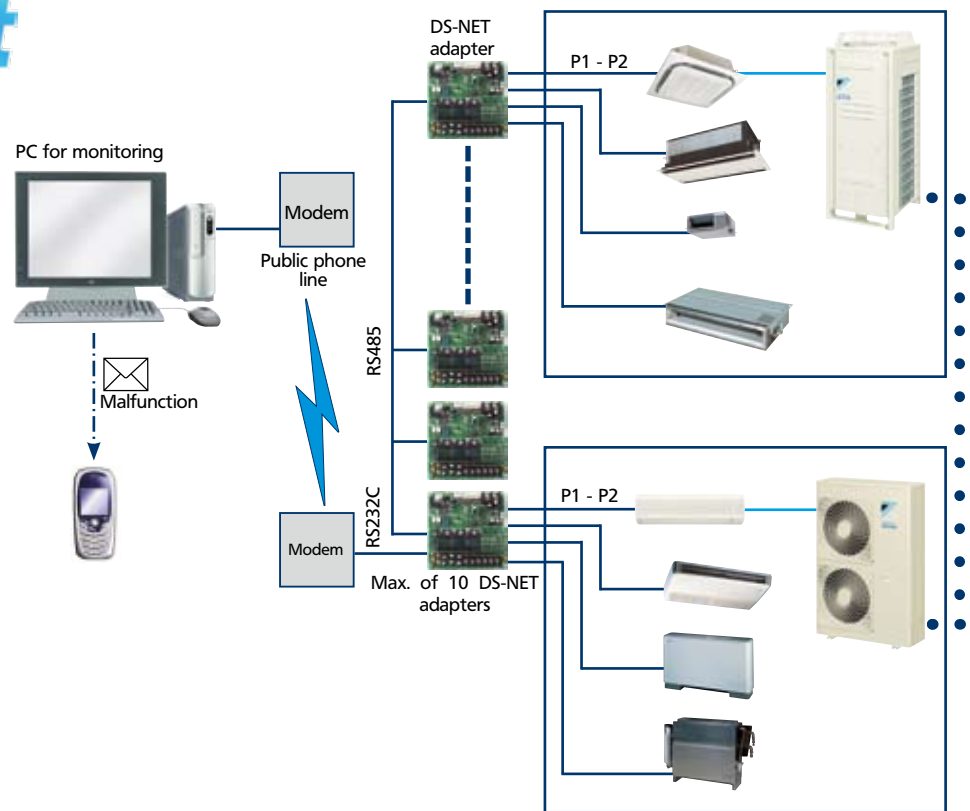
Enabling 64 groups to be programmed

- › A maximum of 128 indoor units can be controlled
- › 8 types of weekly schedule
- › A maximum of 48 hours back-up power supply
- › Maximum wiring length of 1,000m (total: 2,000m)

NETWORK SOLUTIONS



Basic solution for control and management of up to 2,000 indoor units (Sky Air & VRV®)



APPLICATION AREA

- › A small commercial area of less than 40 indoor units.
- › Critical applications for centralized monitoring.

SYSTEM LAYOUT

- › Allows monitoring and control of up to up to 50 stores or sites and 2,000 indoor units with just one modem and phone line.
- › Automates daily air conditioning operation in order to free users from the hassle of air conditioning operation / management.
- › The daily schedule setting allows automatic operation afterward.
- › Automates alarm (report messages) for any malfunctions / errors. Immediate report of any indoor unit breakdown to the servicing company.
- › Automatic report of breakdown / malfunction information.
- › Minimizes the inconvenience of not having air conditioning via rapid messages

FUNCTIONS

- › Schedule setup (Daily schedule)
 - Start / stop
- › A/C malfunction report
 - Send message to monitoring system
- › Manual operation
 - Start/Stop, set temperature, operation mode, fan speed
- Status monitoring
 - Start/Stop, set temperature,
 - Operation mode, room temperature, operation time, error code

Allows detailed and easy monitoring and operation of VRV® systems (max. 2 x 64 groups)

LANGUAGES

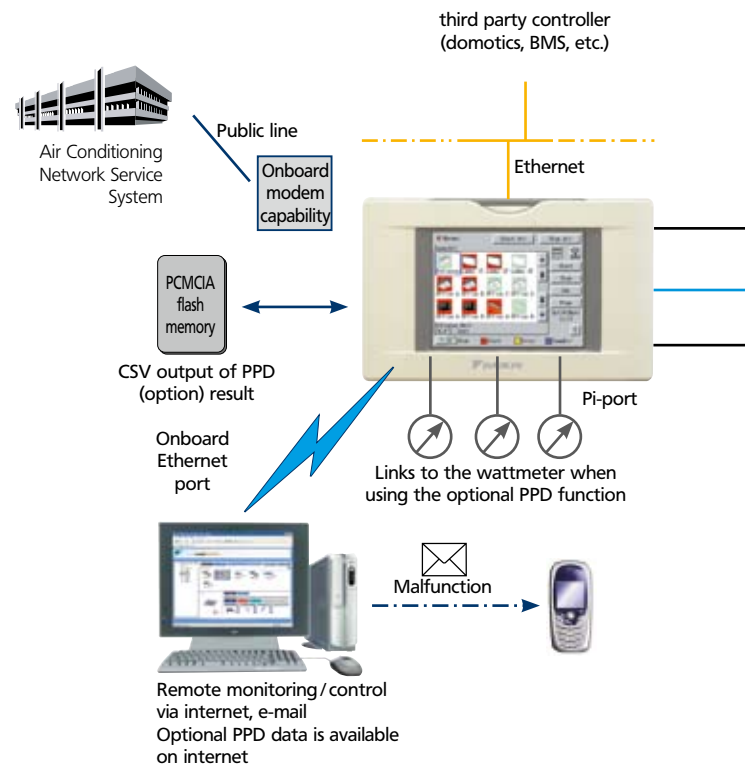
- › English, French, German, Italian, Spanish, Dutch*, Portuguese*

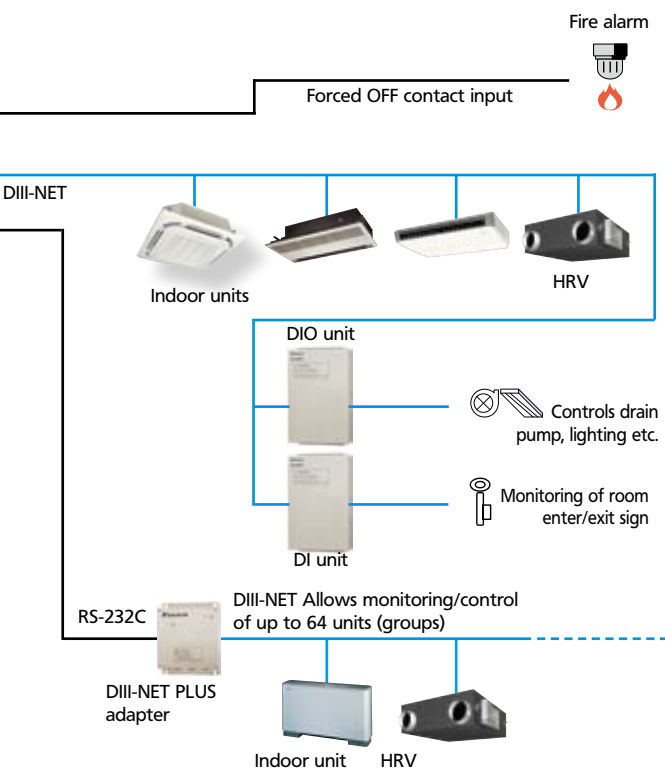
SYSTEM LAYOUT

- › Up to 2x64 indoor units can be controlled
- › Onboard Ethernet port (web browser & e-mail)
- › Digital i/o contacts (option DEC101A51/DEC102A51)
- › Touch panel (full colour LCD via icon display)

MANAGEMENT

- › Web application & internet compatibility
 - Monitoring & control according to user
 - Remote monitoring & control of more than one building
 - Remote monitoring & control of more than one building via internet
- › Power Proportional Distribution (option)
- › PPD data is available on the network through Web option
- › Easy management of electricity consumption
- › Enhanced history function





CONTROL

- NEW ››› › Individual control (set point, start/stop, fan speed) (max. 2 x 64 indoor units/groups)
- NEW ››› › Set back schedule*
- › Schedule control (8 schedules, 17 patterns)
- › Flexible grouping in zones
- › Yearly schedule
- NEW ››› › Free cooling function
- › Fire emergency stop control
- › Interlocking control
- › Increased HRV monitoring and control function
- › Automatic cooling/heating changeover
- › Quick selection and full control
- › Simple navigation
- › Heating optimization
- › Temperature limit
- › Password security: 3 levels (general, administration & service)

MONITORING

- › Visualisation via Graphical User Interface (GUI)
- › Icon colour display change function
- › Indoor units operation mode
- › Error messages via e-mail & mobile phone (web option)
- › Indication filter replacement
- › Multi PC

COST PERFORMANCE

- › Labour saving
- › Easy installation
- › Compact design: limited installation space
- › Overall energy saving

OPEN INTERFACE

- NEW ››› › Communication to a third party controller (domotics, BMS, etc.) is possible via http interface option

CONNECTABLE TO

- › VRV®
- › HRV
- › Sky Air (via interface adapter)
- › Split (via interface adapter)

* Contact your local dealer for more information and availability
For more details on Intelligent Touch Controller consult the Intelligent Touch Controller brochure.

Intelligent Manager

The ideal solution for full control and management of maximum 1,024 VRV® indoor units

LANGUAGES

- › English
- › French
- › German
- › Italian
- › Spanish
- NEW ››› › Dutch*
- NEW ››› › Portuguese*

SYSTEM LAYOUT

- › Up to 1,024 indoor units can be controlled (by 4 iPUs)
- › Ethernet TCP/IP (100Mbit recommended)
- › Integrated digital contacts on the Intelligent Processing Unit (iPU)
 - 20 general input ports
 - 2 digital outputs
- › Stand alone operation of the iPU for minimum 48 hours
- › Compatible with UPS shutdown software

MANAGEMENT

- › Web access function (option)
- › Power Proportional Distribution (option)
- › Operational history management (start/stop, malfunction, operating hours)
- › Generation of reports (graphics & tables) (daily, weekly, monthly)
- › Peak load shedding
- › Advanced tenant management
- › Sliding temperature
- › Eco mode (option)

CONTROL

- › Individual control (setpoint, start/stop, fan speed) (max. 1,024 indoor groups on one iManager system with four iPU's)
- › Group control (100 groups)
- › Schedule control (200 programs)
- › Fire emergency stop control (32 programs)
- › Interlocking control
- › Setpoint limitation
- › Automatic cooling/heating change-over
- › Power failure/release control
- › Temperature limit (automatic start)
- › Timer extension
- NEW ››› › Pre-cooling and -heating function*

MONITORING

- › Visualization via a Graphical User Interface (GUI)
- › featuring free layout
- › Operation mode of indoor units
- › Fault indication
- › Indication filter replacement
- › Setpoint indication
- › Operation time monitoring
- › Multi PC
- › On-line help

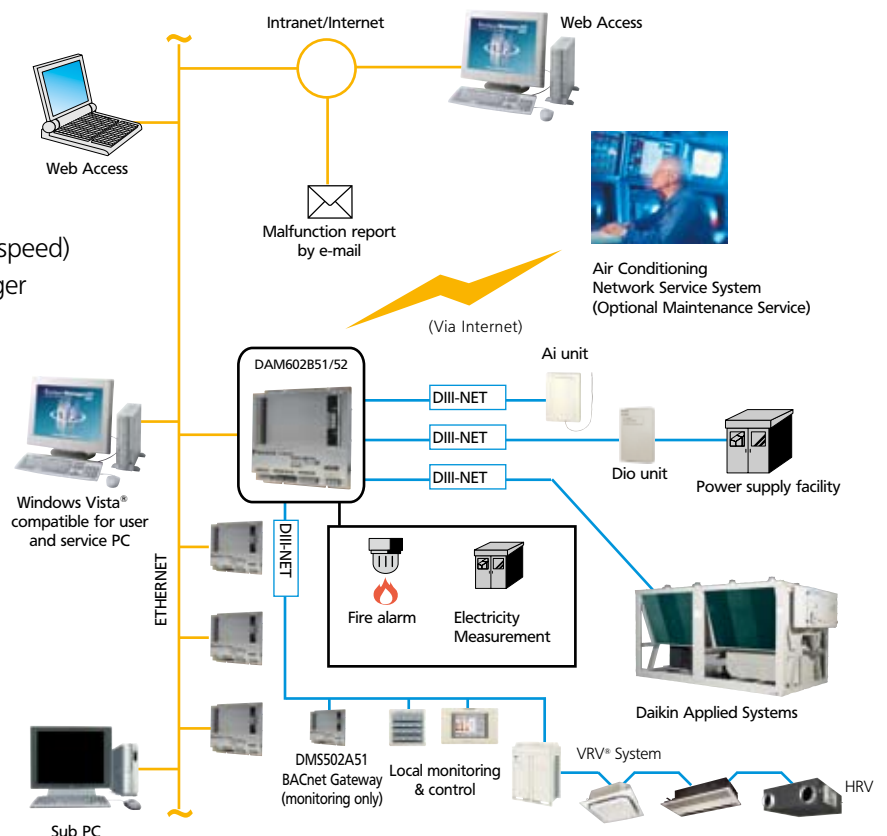
COST PERFORMANCE

- › Labour saving
- › Easy installation
- › Compact design: limited installation space
- › Overall energy saving

CONNECTABLE TO

- › VRV®
- › HRV
- › Sky Air (via interface adapter)
- › Split (via interface adapter)

* Contact your local dealer for more information and availability
For more details on Intelligent Manager consult the Intelligent Manager brochure.

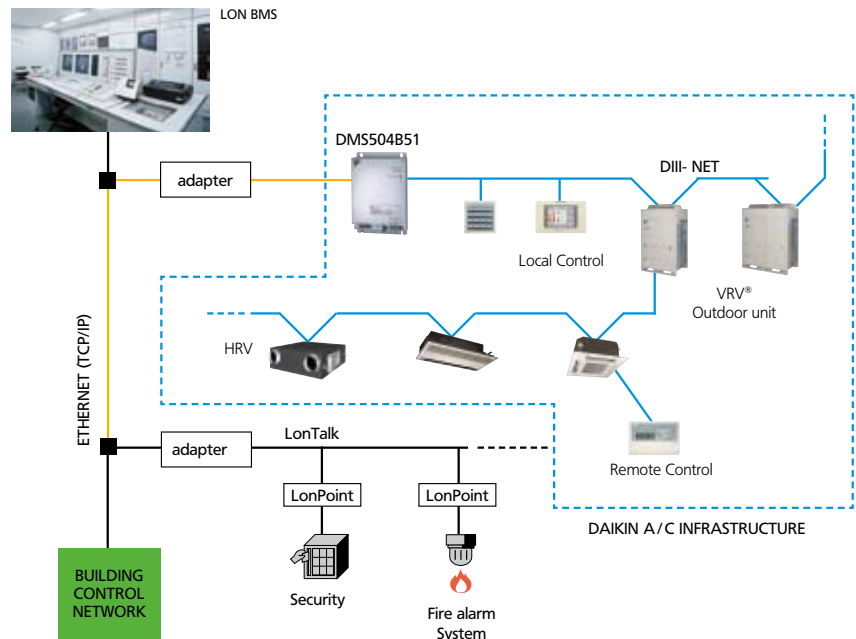


DMS-IF

Open network integration of VRV® monitoring and control functions into Lonworks Networks

- › Interface for connection to LonWorks networks
- › Communication via Lon protocol (twisted pair wire)
- › 64 groups connectable per DMS-IF
- › Unlimited site size
- › Quick and easy installation

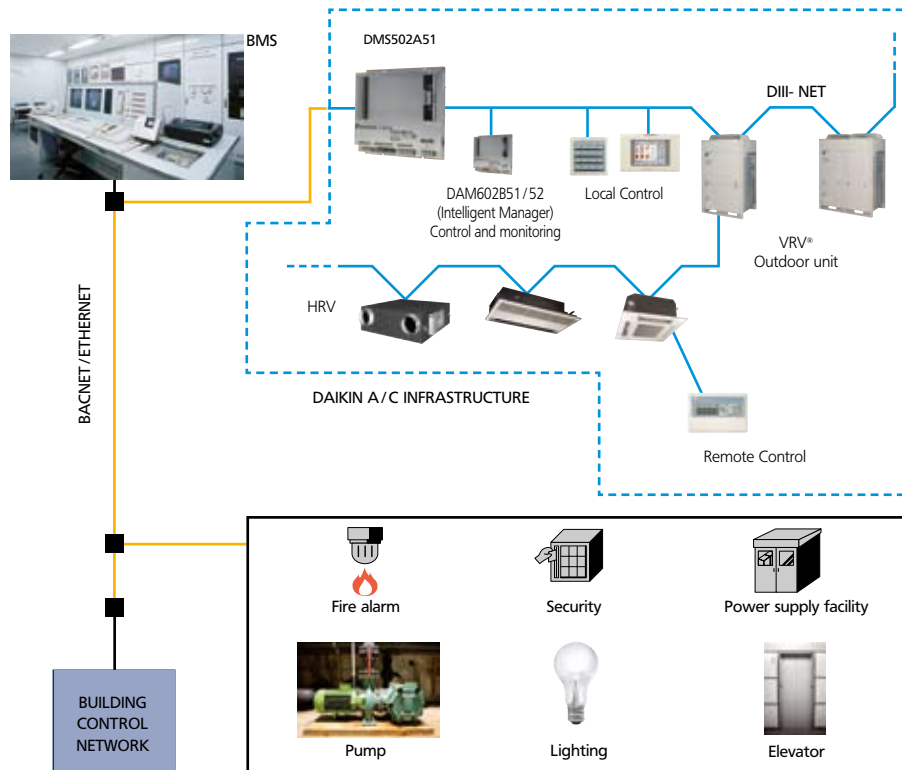
For more details on DMS-IF consult the DMS-IF brochure.



BACnet Gateway

Integrated control system for seamless connection between VRV® and BMS systems

- › PPD data is available on BMS-system
- › Interface for BMS system
- › Communication via BACnet protocol (connection via Ethernet)
- › 256 units connectable per BACnet gateway
- › Unlimited site size
- › Easy and fast installation



For more details on BACnet Gateway consult the BACnet Gateway brochure.

ACCESSORIES

INDIVIDUAL CONTROL SYSTEMS

| DESCRIPTION | | FXFQ | FXZQ | FXCQ | FXKQ | FXDQ-M9 | FXDQ-PB FXDQ-NB | FXSQ | FXMQ-P | FXMQ-MA | FXAQ | FXUQ | FXHQ | FXLQ | FXNQ |
|---|--------------|-----------|----------|---------|---------|---------|--------------------|---------|---------|---------|----------|----------|---------|---------|---------|
| Wired remote control | | BRC1D52 | | | | | | | | | | | | | |
| Infrared remote control | cooling only | BRC7F533F | BRC7E531 | BRC7C67 | BRC4C63 | BRC4C64 | BRC4C64 | BRC4C66 | BRC4C65 | BRC4C66 | BRC7E619 | BRC7C529 | BRC7E66 | BRC4C64 | BRC4C64 |
| | heat pump | BRC7F532F | BRC7E530 | BRC7C62 | BRC4C61 | BRC4C62 | BRC4C62 | BRC4C65 | BRC4C66 | BRC4C65 | BRC7E618 | BRC7C528 | BRC7E63 | BRC4C62 | BRC4C62 |
| Simplified remote control | | - | - | - | - | BRC2C51 | BRC2C51 | BRC2C51 | BRC2C51 | BRC2C51 | - | - | - | BRC2C51 | BRC2C51 |
| Simplified remote control for hotel use | | - | - | - | - | BRC3A61 | BRC3A61 | BRC3A61 | BRC3A61 | BRC3A61 | - | - | - | BRC3A61 | BRC3A61 |

CENTRALISED CONTROL SYSTEMS

| DESCRIPTION | | FXFQ | FXZQ | FXCQ | FXKQ | FXDQ-M9 | FXDQ-PB FXDQ-NB | FXSQ | FXMQ-P | FXMQ-MA | FXAQ | FXUQ | FXHQ | FXLQ | FXNQ |
|----------------------------|--|-----------|------|------|------|---------|--------------------|------|--------|---------|------|------|------|------|------|
| Centralised remote control | | DCS302C51 | | | | | | | | | | | | | |
| Unified ON/OFF control | | DCS301B51 | | | | | | | | | | | | | |
| Schedule timer | | DST301B51 | | | | | | | | | | | | | |

OTHERS

| DESCRIPTION | | FXFQ | FXZQ | FXCQ | FXKQ | FXDQ-M9 | FXDQ-PB FXDQ-NB | FXSQ | FXMQ-P | FXMQ-MA | FXAQ | FXUQ | FXHQ | FXLQ | FXNQ |
|---|--|-----------------------|----------------------|------------------------|-----------|----------------------|--------------------|-----------------------|-----------------------|---------|-----------------------|-----------|----------------------|-----------|-----------|
| Wiring adapter ⁶ | | - | KRP1B57 ¹ | - | KRP1B61 | KRP1B61 | KRP1B56 | - | KRP1C64 ³ | KRP1B61 | - | KRP4A53 | KRP1B3 | KRP1B61 | KRP1B61 |
| Wiring adapter ⁷ | | EKRP1C11 ¹ | - | EKRP1B2 | - | EKRP1B2 ² | - | EKRP1B2A ³ | - | - | - | - | - | - | - |
| Wiring adapter for electrical appendices (control and monitoring P1 P2) | | KRP2A526 ¹ | KRP2A52 ¹ | KRP2A516 ¹ | KRP2A61 | KRP2A51 | KRP2A53 | KRP2A51 | KRP2A61 ³ | KRP2A61 | KRP2A51 ¹ | - | KRP2A62 ¹ | KRP2A51 | KRP2A51 |
| Wiring adapter for electrical appendices (control and monitoring F1 F2) | | KRP4A453 ¹ | KRP4A53 ¹ | KRP4A516 ¹ | KRP4A51 | KRP4A51 | KRP4A54 | KRP4A51 | KRP4A451 ³ | KRP4A51 | KRP4A51 ¹ | - | KRP4A52 ¹ | KRP4A51 | KRP4A51 |
| Remote sensor | | KRCS01-4 | KRCS01-1 | | | | | KRCS01-4 | | | KRCS01-1 | | | | |
| Installation box / mounting plate for adapter PCB | | KRP1H98 | KRP1BA101 | KRP1B96 ⁴⁵ | - | - | KRP1BA101 | KRP4A96 ⁴⁵ | - | - | KRP4A93 ⁴⁵ | KRP1B97 | KRP1C93 ⁴ | - | - |
| Electrical box with earth terminal (3 blocks) | | - | KJB311A | | | | | | | | | | | | |
| Electrical box with earth terminal (2 blocks) | | KJB212AA | KJB212A | | | | | | | | | | | | |
| Noise filter (for electromagnetic interface only) | | - | KEK26-1A | | | | | | | | | | | | |
| External control adapter (for C/H zone, input LNO & Demand) | | - | DTA104A52 | DTA104A51 ¹ | DTA104A61 | DTA104A61 | DTA104A53 | DTA104A61 | | | | - | DTA104A62 | DTA104A61 | DTA104A61 |
| Interface adapter for Sky Air series (to connect Sky Air indoor to F1 F2) | | - | - | - | - | - | - | - | - | - | - | DTA102A52 | - | - | - |
| Connector for forced on/forced off | | - | - | - | - | - | - | - | - | - | - | EKRORO | - | - | - |

Notes:

¹ Installation box is required

² Fixing box is KRP1A90

³ Mounting plate KRP4A96 is required. Maximum 2 option PCB can be mounted.

⁴ Up to 2 adapters can be fixed per installation box

⁵ Only 1 installation box can be installed per indoor unit

⁶ For output 4 signals: Hour meter, fan, auxiliary electric heater, humidifier

⁷ For output 2 signals: Hour meter, fan



| DESCRIPTION | FCQ-C | FFQ-B | FDBQ-B | FDXS-E/C | FBQ-C | FTXG-E/ CTXG-E | FTXS-G | FTXS-F | FHQ-B | FVXS-F | FLXS-B |
|---|-----------|----------|---------|----------|---------|-------------------|----------|-----------|---------|----------|----------|
| Wired remote control | BRC1D52 | BRC1D52 | BRC1D52 | - | BRC1D52 | - | - | - | BRC1D52 | - | - |
| Infrared remote control | BRC7F532F | BRC7E530 | - | ARC433A8 | BRC4C62 | ARC433A41 | ARC452A3 | ARC433A70 | BRC7E63 | ARC452A1 | ARC433A5 |
| Simplified remote control | - | - | BRC2C51 | - | BRC2C51 | - | - | - | - | - | - |
| Simplified remote control for hotel use | - | - | BRC3A61 | - | BRC3A61 | - | - | - | - | - | - |

| DESCRIPTION | FCQ-C | FFQ-B | FDBQ-B | FDXS-E/C | FBQ-C | FTXG-E/ CTXG-E | FTXS-G | FTXS-F | FHQ-B | FVXS-F | FLXS-B |
|----------------------------|-----------|-------|--------|----------|-------|-------------------|--------|--------|-------|--------|--------|
| Centralised remote control | DCS302C51 | | | | | | | | | | |
| Unified ON/OFF control | DCS301B51 | | | | | | | | | | |
| Schedule timer | DST301B51 | | | | | | | | | | |

| DESCRIPTION | FCQ-C | FFQ-B | FDBQ-B | FDXS-E/C | FBQ-C | FTXG-E/ CTXG-E | FTXS-G | FTXS-F | FHQ-B | FVXS-F | FLXS-B |
|---|-----------------------|----------------------|----------------------|-----------|-----------------------|-------------------|-----------|-----------|----------------------|--------------|-----------|
| Wiring adapter ⁵ | KRP1B457 | KRP1B57 ¹ | - | - | KRP1B5A54 | - | - | - | KRP1B54 | - | - |
| Wiring adapter ⁶ | EKRP1C11 ¹ | EKRP1B2 | EKRP1B2 ² | - | EKRP1B2A ³ | - | - | - | EKRP1B2 | - | - |
| Wiring adapter external control and monitoring | KRP4A453 ¹ | KRP4A53 ¹ | - | - | KRP4A51 | - | - | - | KRP4A52 ¹ | - | - |
| Remote sensor | KRCS01-4 | KRCS01-1 | - | - | - | - | - | - | - | - | - |
| Installation box / mounting plate for adapter PCB | KRP1H98 | KRP1B1A101 | - | - | - | - | - | - | KRP1C93 ⁴ | - | - |
| Interface adapter to connect indoor to F1 F2 | DTA112B51 | DTA112B51 | DTA112B51 | KRP928A2S | DTA112B51 | KRP928A2S | KRP928A2S | KRP928A2S | DTA112B51 | KRP928B(A)2S | KRP928A2S |
| Connector for forced on/forced off | EKRORO2 | EKRORO | EKRORO | - | EKRORO3 | - | - | - | EKRORO | - | - |

Notes:

¹ Installation box is required

² Fixing box is KRP1A90

³ Mounting plate KRP4A96 is required. Maximum 2 option PCB can be mounted.

⁴ Up to 2 adapters can be fixed per installation box

⁵ For output 4 signals: Hour meter, fan, auxiliary electric heater, humidifier

⁶ For output 2 signals: Hour meter, fan



| DESCRIPTION | REFERENCE | COMMENTS |
|----------------|--------------|---|
| DS-net adapter | DTA113B51 | 4 units can be connected per adapter, 40 units when 10 adapters are connected |
| Software | DPC001B1-B51 | Monitoring panel software |



| DESCRIPTION | REFERENCE | COMMENTS |
|------------------------------|-----------|---|
| Intelligent Touch Controller | DCS601C51 | 2x64 units can be connected |
| Software | DCS002C51 | Power Proportional Distribution (PPD) software |
| | DCS004A51 | E-mail / Web software |
| | DCS007A51 | HTTP option |
| Hardware | DCS601A52 | DIII NET-Plus adapter |
| Installation box | KJB411A | For wall mounted installation |
| Touch-Pen | 1264009 | Spare part n° of Touch-Pen for Intelligent Touch Controller |
| Interface adapters | KRP928A2S | For connection to Split units |
| | DTA102A52 | For connection to R-22 / R-407C Sky Air units |
| | DTA112B51 | For connection to R-410A Sky Air units |
| Digital input | DEC101A51 | Input contacts: 8 inputs with additional error feedback |
| Digital input/output | DEC102A51 | Input contacts: 8 outputs with additional error and ON/OFF feedback |

| DESCRIPTION | REFERENCE | COMMENTS |
|---------------------------------|-----------|---|
| Intelligent Processing unit | DAM602B51 | 256 indoor units per IPU |
| Software | DAM602B52 | 128 indoor units per IPU |
| Interface adapters | IMB3XX | Up to 1,024 indoor units |
| | KRP928A2S | For connection to Split units |
| | DTA102A52 | For connection to R-407C/R-22 Sky Air units |
| DIII Ai | DTA112B51 | For connection to R-410A Sky Air units |
| Digital input | DAM101A51 | Outdoor temperature sensor |
| Digital input / output | DEC10151* | Input contacts: 16 points |
| Power Proportional Distribution | DEC10251* | Input contacts: 8 points; output contacts: 4 points |
| ECO Mode | DAM002A51 | |
| Web Acces Function | DAM003A51 | |

DMS-IF

| DESCRIPTION | REFERENCE | COMMENTS |
|---------------------------------------|-----------|---|
| LonWorks® networks compatible Gateway | DMS504B51 | Up to 64 groups can be connected per DMS-IF |
| Interface adapters | KRP928A2S | For connection to Split units |
| | DTA102A52 | For connection to R-407C/R-22 Sky Air units |
| | DTA112B51 | For connection to R-410A Sky Air units |

BACnet Gateway

| DESCRIPTION | REFERENCE | COMMENTS |
|----------------------|-----------|---|
| BACnet Gateway | DMS502A51 | 64 groups per Gateway |
| DIII board | DAM411B51 | Extension of 3 x DIII lines (3 x 64) indoor units |
| Digital input/output | DAM412B51 | For forced shutdown |
| Interface adapters | KRP928A2S | For connection to Split units |
| | DTA102A52 | For connection to R-407C/R-22 Sky Air units |
| | DTA112B51 | For connection to R-410A Sky Air units |

BMS: BUILDING MANAGEMENT SYSTEM

| DESCRIPTION | REFERENCE | COMMENTS |
|--|------------|---|
| Contact / analog signal | DPF201A51 | enables ON/OFF command, operation and display of malfunction can be used in combination with up to 4 units. |
| | DPF201A52 | enables temperature measurement output for 4 groups; 0 ~ 5VDC» |
| | DPF201A53 | enables temperature setting input for 16 groups; 0 ~ 5VDC» |
| | DCS302A52 | used for combining of air conditioning control computer and central remote controller (ON/OFF, display) |
| | KRP2A51 | simultaneously controls air conditioning control computer and up to 64 groups of indoor units. |
| | KRP2A52 | |
| Wiring adapter for electrical appendices (2) | KRP4A51-53 | to control the group of indoor units collectively, which are connected by the transmission wiring of remote controller. |
| | DTA104A51 | cooling/heating mode change over, demand control and low noise control are available between the plural outdoor units. |
| External control adapter for outdoor unit | DTA104A52 | |
| DIII-net expander adapter | DTA109A51 | a maximum of 10 outdoors or 128 indoors can be connected to 1 DTA109A51 |
| | | a maximum of 8 DTA109A51 can be connected to DIII-net |
| Mounting kit | KRP4A92 | for easy installation of the DTA109A51 |

NOTES

[illegible]

[illegible]



Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in environmental issues.

For several years Daikin has had the intention to become a leader in the provision of products that have limited impact on the environment. This challenge demands the eco design and development of a wide range of products and an energy management system, resulting in energy conservation and a reduction of waste.



Daikin Europe N.V. is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard. ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.



ISO14001 assures an effective environmental management system in order to help protect human health and the environment from the potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment.



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