

VRV III

VRV II

VRV-WII



R-410A



Daikin Europe N.V.

Daikin has a worldwide reputation based on over 70 years' experience in the successful manufacture of high quality air conditioning equipment for industrial, commercial and residential use.



Environmental Consciousness

Air conditioning and the environment

Air conditioning systems provide a significant level of indoor comfort, making possible optimum working and living conditions in the most extreme climates. In recent years, motivated by a global awareness of the need to reduce the burdens on the environment, some manufacturers including Daikin have 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.

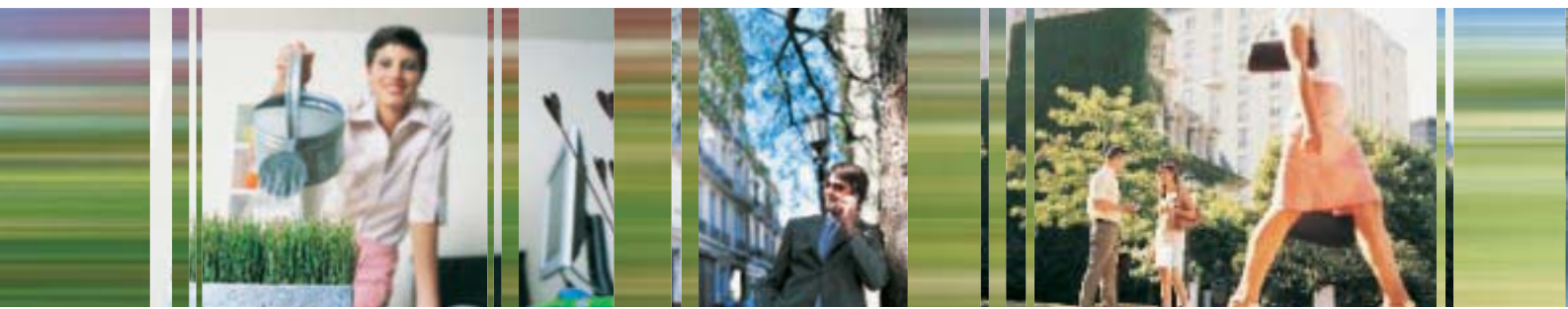
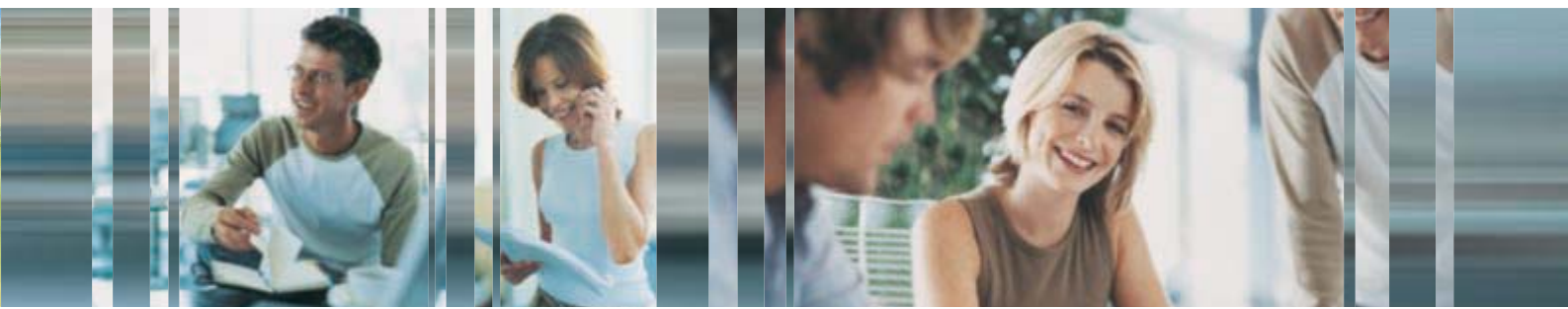


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The History of VRV Systems

• 1987

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 4 indoor units connected to a single outdoor unit.



• 1990

The end of the year sees the launch of the new VRV Inverter G series with the facility to operate up to 8 indoor units from a single outdoor unit. Inverter capacity control greatly increases system flexibility and efficiency.

• 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.

Hi-VRV™

• 1992

Continuous improvements to energy efficiency and system flexibility lead to the development of the advanced Hi-VRV in which fresh air supply (HRV) and computerised management (DACMS) are integrated with the VRV.

• 1994

Consistent high quality and efficiency lead to the wide-spread 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.

®

R-407C

®



• 1998

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.

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.

• **1999**

The VRV Plus series using R-22 has been designed around leading edge technologies to accommodate high capacity air conditioning networks of up to 30 indoor units from a single refrigerant circuit.

Another step forward has been taken with the launch of the VRV heat recovery series using R-407C and connecting up to 16 indoor units to 1 single outdoor unit.



• **2000**

Because of the growing needs of large-capacity systems Daikin Europe introduces the VRV Plus series using R-407C, in heat pump format. Up to 32 indoor units can be connected to a single refrigerant circuit.

• **2001**

The latest addition to the VRV Plus series is the VRV Plus heat recovery series using R-407C. Up to 32 indoor units can be connected to a single refrigerant circuit.

• **2002**

Daikin launches the new π VRV series – an energy saving series with high COP levels and flexible design characteristics, using R-407C.

• **2003**

Daikin introduces the of its 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.



• **2004**

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.

• **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-W^{II}. 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**

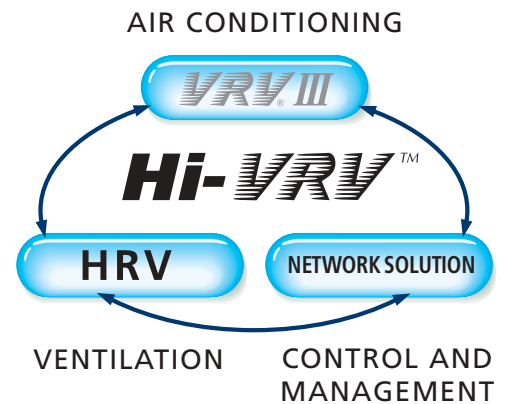
Daikin has announced the third generation of its much acclaimed VRV range with the extensively re engineered VRV^{III}. Available initially in heat pump and cooling only versions, VRV^{III} incorporates all the best features of earlier VRV systems. However, it also possesses a considerable number of new design, installation and maintenance refinements.

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.

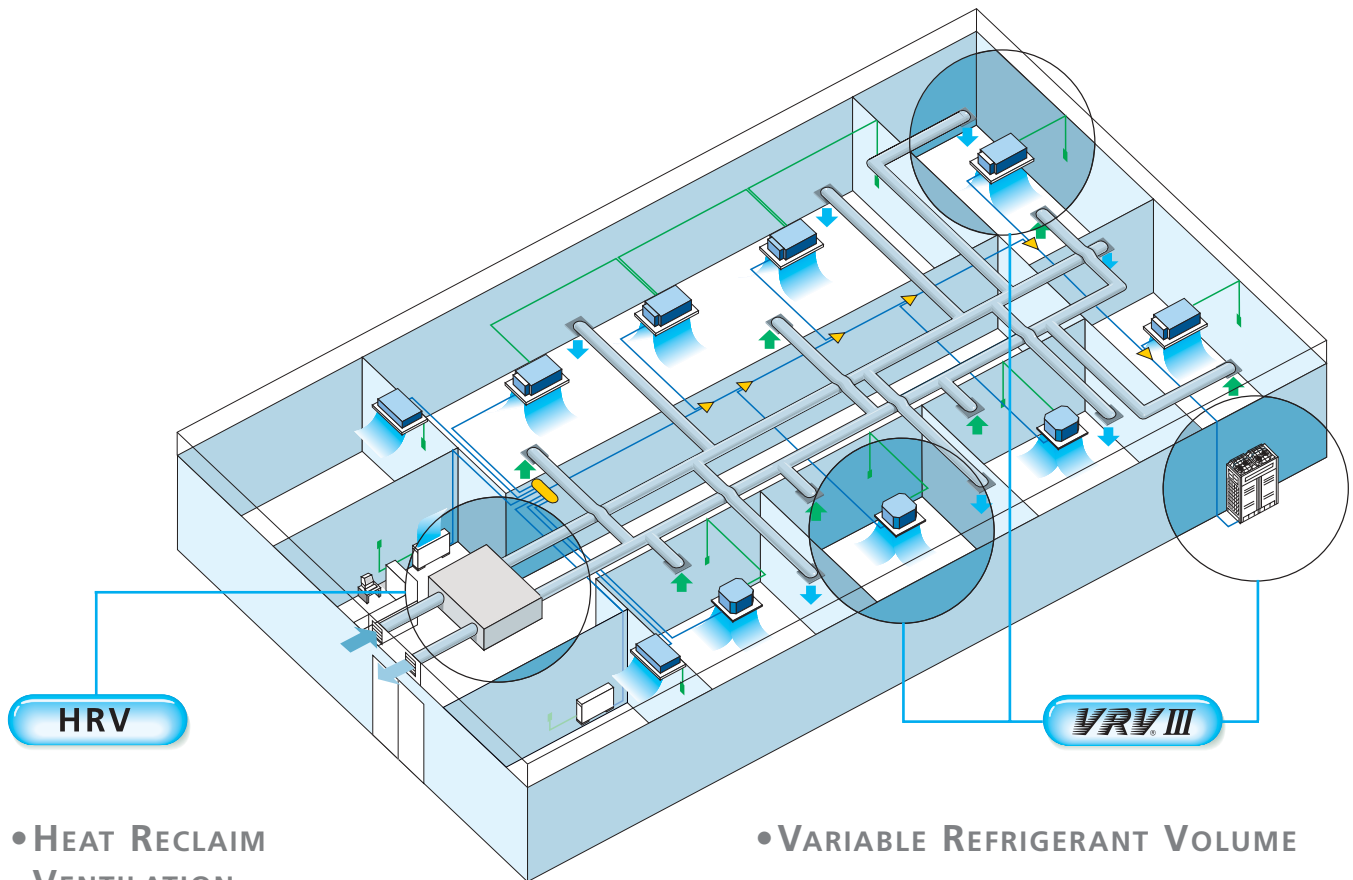
The increasing use of electronic office equipment raises thermal loadings still further to a point whereby, even in winter, internal temperatures can reach uncomfortable levels. The demand for cooling or heating can also vary considerably through-out the day depending on the number and occupation of 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 flag ship 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.





• HEAT RECLAIM VENTILATION

Heat and humidity are exchanged

between supply and exhaust air, which

- brings outdoor air close to indoor air conditions
- recovers energy loss
- realises considerable reduction of air conditioning capacity

• VARIABLE REFRIGERANT VOLUME

- available in cooling only, heat pump and heat recovery (near future) 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 which it controls.

NETWORK SOLUTION

DS-net

The ideal solution for control and management of up to 2,000 indoor units.

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 control and management of maximum 1,024 VRV indoor units.

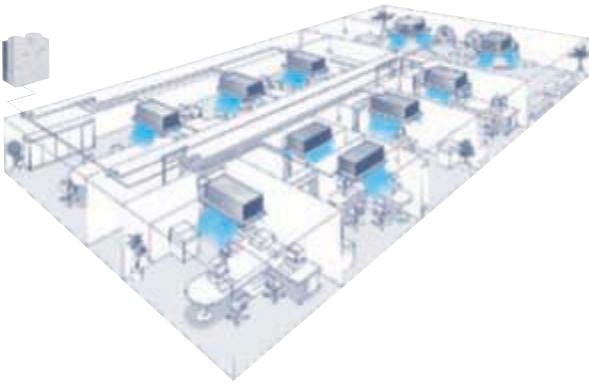
BMS-IF

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

BACnet Gateway

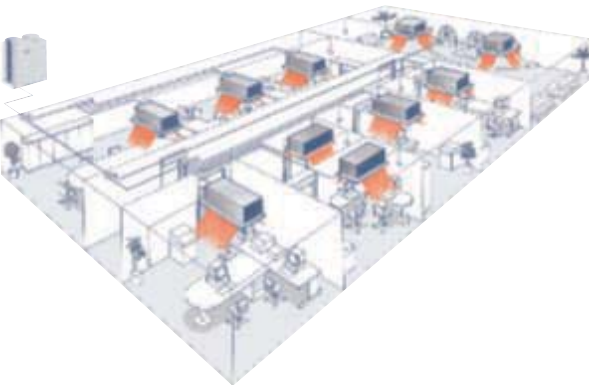
Integrated control system for seamless connection between VRV and BMS systems.

The VRV Systems



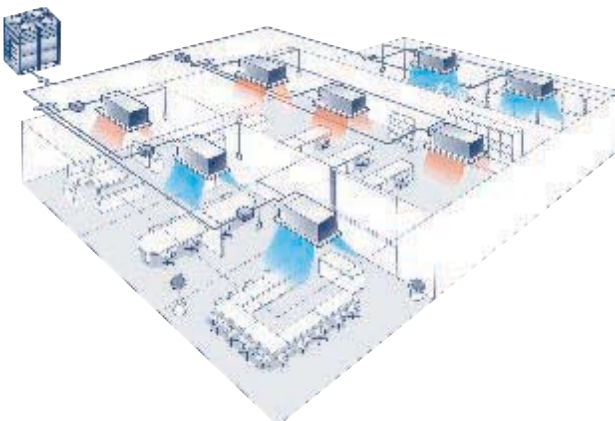
VRVIII INVERTER COOLING ONLY

- For cooling operation from one system
- Up to 29 indoor units can be operated from a single outdoor unit without the need for an additional adapter PCB.
- The line-up of 5, 8, 10, 12, 16, 18hp models is ideally suited to applications in smaller facilities and minor expansions and upgrades.



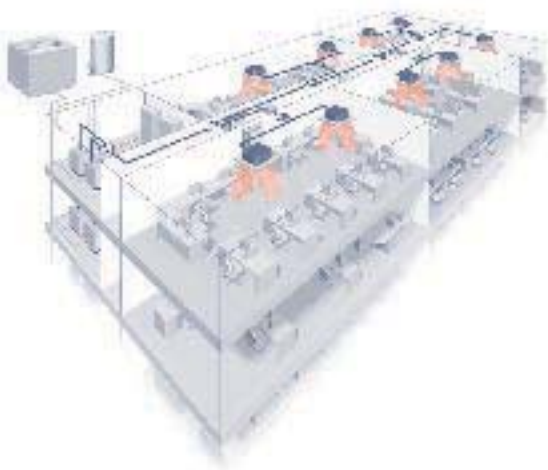
VRVIII INVERTER HEAT PUMP

- For either cooling or heating operation from one system
- Up to 64 indoor units can be operated from a single outdoor unit without the need for an additional adapter PCB.
- An extensive capacity range starting at 5hp, then from 8hp to 54hp in 2hp increments meets all customer requirements concerning small to large buildings, whether new or existing



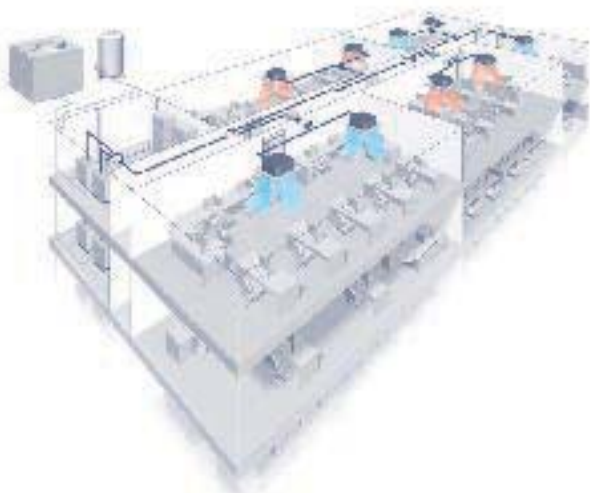
VRVII INVERTER HEAT RECOVERY

- For simultaneous cooling and heating operation from one system
- Up to 40 indoor units can be operated from a single outdoor unit in VRVII heat recovery format.
- Extensive capacity range from 8hp to 48hp in 2hp increments for VRVII, meets all customer requirements concerning small to large buildings, whether new or existing.
- Heat recovery is achieved by diverting exhaust heat from indoor units in cooling mode to areas requiring heating.
- The BS unit switches the system between cooling and heating modes.



VRV-WII INVERTER HEAT PUMP

- For either cooling or heating operation from one system
- Up to 32 indoor units can be operated from a VRV-WII outdoor unit without the need for an additional adapter PCB.
- Available in 10, 20 and 30 HP models



VRV-WII INVERTER HEAT RECOVERY

- For simultaneous cooling and heating operation from one system
- Up to 32 indoor units can be executed from a VRV-WII outdoor unit without the need for an additional adapter PCB
- Available in 10, 20 and 30 HP models
- Heat recovery is achieved by diverting exhaust heat from indoor units in cooling mode to areas requiring heating.
- The BS unit switches the system between cooling and heating modes.

Features

1. WIDE APPLICATION RANGE

1 VRV8 Outdoor Unit Range



| VRV8 cooling only | VRV8 heat pump | N° of outdoor units** | N° of compressors** | Maximum n° of connectable indoor units | Minimum capacity index - 50% | Maximum *** capacity index - 130% | Capacity steps |
|-------------------|----------------|-----------------------|---------------------|--|------------------------------|-----------------------------------|----------------|
| RXQ5P | RXYQ5P | 1 | 1 | 8 | 62.5 | 162.5 | 18 |
| RXQ8P | RXYQ8P | 1 | 1 | 13 | 100 | 260 | 24 |
| RXQ10P | RXYQ10P | 1 | 2 | 16 | 125 | 325 | 37 |
| RXQ12P | RXYQ12P | 1 | 2 | 19 | 150 | 390 | 37 |
| RXQ14P | RXYQ14P | 1 | 3 | 23 | 175 | 455 | 51 |
| RXQ16P | RXYQ16P | 1 | 3 | 26 | 200 | 520 | 51 |
| RXQ18P | RXYQ18P | 1 | 3 | 29 | 225 | 585 | 55 |
| - | RXYQ20P | 2 | 3 | 32 | 250 | 650 | * |
| - | RXYQ22P | 2 | 4 | 35 | 275 | 715 | * |
| - | RXYQ24P | 2 | 4 | 39 | 300 | 780 | * |
| - | RXYQ26P | 2 | 4 | 42 | 325 | 845 | * |
| - | RXYQ28P | 2 | 5 | 45 | 350 | 910 | * |
| - | RXYQ30P | 2 | 5 | 49 | 375 | 975 | * |
| - | RXYQ32P | 2 | 6 | 52 | 400 | 1,040 | * |
| - | RXYQ34P | 2 | 6 | 55 | 425 | 1,105 | * |
| - | RXYQ36P | 2 | 6 | 58 | 450 | 1,170 | * |
| - | RXYQ38P | 3 | 6 | 61 | 475 | 1,235 | * |
| - | RXYQ40P | 3 | 7 | 64 | 500 | 1,300 | * |
| - | RXYQ42P | 3 | 7 | 64 | 525 | 1,365 | * |
| - | RXYQ44P | 3 | 7 | 64 | 550 | 1,430 | * |
| - | RXYQ46P | 3 | 8 | 64 | 575 | 1,495 | * |
| - | RXYQ48P | 3 | 8 | 64 | 600 | 1,560 | * |
| - | RXYQ50P | 3 | 9 | 64 | 625 | 1,625 | * |
| - | RXYQ52P | 3 | 9 | 64 | 650 | 1,690 | * |
| - | RXYQ54P | 3 | 9 | 64 | 675 | 1,755 | * |

*Information was not available at time of publication

** based on optimised footprint combinations.

*** Please contact your local Daikin dealer for more information.





8,10HP

12, 14, 16HP



2 VRV II Outdoor Unit Range

| VRV II heat recovery | N° of outdoor units | N° of compressors | Maximum n° of connectable indoor units | Minimum capacity index - 50% | Maximum capacity index - 130% | Capacity steps |
|----------------------|---------------------|-------------------|--|------------------------------|-------------------------------|----------------|
| REYQ8M8 | 1 | 2 | 13 | 100 | 260 | 29 |
| REYQ10M8 | 1 | 2 | 16 | 125 | 325 | 29 |
| REYQ12M8 | 1 | 2 | 19 | 150 | 390 | 29 |
| REYQ14M8 | 1 | 3 | 20 | 175 | 455 | 35 |
| REYQ16M8 | 1 | 3 | 20 | 200 | 520 | 35 |
| REYQ18M8 | 2 | 4 | 20 | 225 | 585 | 41 |
| REYQ20M8 | 2 | 4 | 20 | 250 | 650 | 41 |
| REYQ22M8 | 2 | 4 | 22 | 275 | 715 | 41 |
| REYQ24M8 | 2 | 5 | 32 | 300 | 780 | 46 |
| REYQ26M8 | 2 | 5 | 32 | 325 | 845 | 46 |
| REYQ28M8 | 2 | 5 | 32 | 350 | 910 | 46 |
| REYQ30M8 | 2 | 6 | 32 | 375 | 975 | 51 |
| REYQ32M8 | 2 | 6 | 32 | 400 | 1,040 | 51 |
| REYQ34M8 | 3 | 7 | 34 | 425 | 1,105 | 56 |
| REYQ36M8 | 3 | 7 | 36 | 450 | 1,170 | 56 |
| REYQ38M8 | 3 | 7 | 38 | 475 | 1,235 | 56 |
| REYQ40M8 | 3 | 8 | 40 | 500 | 1,300 | 61 |
| REYQ42M8 | 3 | 8 | 40 | 525 | 1,365 | 61 |
| REYQ44M8 | 3 | 8 | 40 | 550 | 1,430 | 61 |
| REYQ46M8 | 3 | 9 | 40 | 575 | 1,495 | 68 |
| REYQ48M8 | 3 | 9 | 40 | 600 | 1,560 | 68 |

3 VRV-WII Outdoor Unit Range

10HP



| VRV-WII heat pump | VRV-WII heat recovery | N° of outdoor units* | N° of compressors | Maximum n° of connectable indoor units | Minimum capacity index - 50% | Maximum capacity index - 130% | Capacity steps |
|-------------------|-----------------------|----------------------|-------------------|--|------------------------------|-------------------------------|----------------|
| RWEYQ10M | | 1 | 1 | 16 | 125 | 325 | 22 |
| RWEYQ20M | | 2 | 2 | 20 | 250 | 650 | 32 |
| RWEYQ30M | | 3 | 3 | 32 | 375 | 975 | 37 |

4 Indoor Unit Capacity Index

| Model | 20 | 25 | 32 | 40 | 50 | 63 | 71 | 80 | 100 | 125 | 200 | 250 |
|----------------|----|----|------|----|----|------|----|----|-----|-----|-----|-----|
| Capacity index | 20 | 25 | 31.5 | 40 | 50 | 62.5 | 71 | 80 | 100 | 125 | 200 | 250 |

eg. Selected indoor units: FXCQ25 + FXFQ100 + FXMQ200 + FXSQ40

Connection ratio: 25 + 100 + 200 + 40 = 365

→ possible outdoor unit REYQ12M



5 Wide Range of Indoor Units

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 **13 different indoor unit models** in a total of **75 variations**.



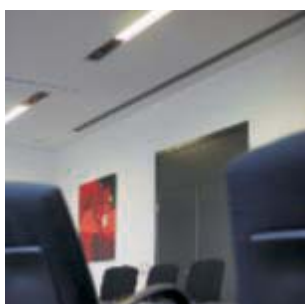
→ FXFQ
20-25-32-40-50-63-80-100-125
FXZQ
20-25-32-40-50

FXCQ →
20-25-32-40-50-63-80-125



→ FXKQ
25-32-40-63

FXDQ-M8 →
20-25



→ FXDQ-P/NA
20-25-32-40-50-63

FXSQ →
20-25-32-40-50-63-80-100-125





| Indoor units | | 20 | 25 | 32 | 40 | 50 | 63 | 71 | 80 | 100 | 125 | 200 | 250 |
|---|------|----|----|----|----|----|----|----|----|-----|-----|-----|-----|
| 4-way blow ceiling mounted cassette (600x600mm) | FXZQ | x | x | x | x | x | | | | | | | |
| 4-way blow ceiling mounted cassette | FXFQ | x | x | x | x | x | x | | x | x | x | | |
| 2-way blow ceiling mounted cassette | FXCQ | x | x | x | x | x | x | | x | | x | | |
| Ceiling mounted corner cassette | FXKQ | | x | x | x | | x | | | | | | |
| Small concealed ceiling unit | FXDQ | x | x | | | | | | | | | | |
| Slim concealed ceiling unit | FXDQ | x | x | x | x | x | x | | | | | | |
| Concealed ceiling unit | FXSQ | x | x | x | x | x | x | | x | x | x | | |
| Large concealed ceiling unit | FXMQ | | | | x | x | x | | x | x | x | x | x |
| Wall mounted unit | FXAQ | x | x | x | x | x | x | | | | | | |
| Ceiling suspended unit | FXHQ | | | x | | | x | | | x | | | |
| 4-way blow ceiling suspended unit | FXUQ | | | | | | | x | | x | x | | |
| Floor standing unit | FXLQ | x | x | x | x | x | x | | | | | | |
| Concealed floor standing unit | FXNQ | x | x | x | x | x | x | | | | | | |

| HRV | | 50 | 80 | 100 |
|-----------------------------------|--------|----|----|-----|
| Ventilation, DX coil & humidifier | VKM-GM | x | x | x |
| Ventilation & DX coil | VKM-G | x | x | x |



→ FXMQ
40-50-63-80-100-125-200-250

FXAQ →
20-25-32-40-50-63



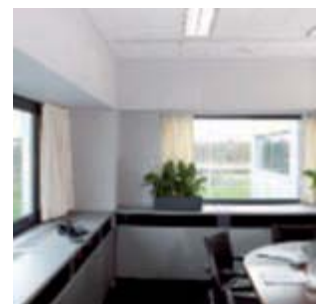
→ FXHQ
32-63-100

FXUQ →
71-100-125



→ FXLQ
20-25-32-40-50-63

FXNQ →
20-25-32-40-50-63





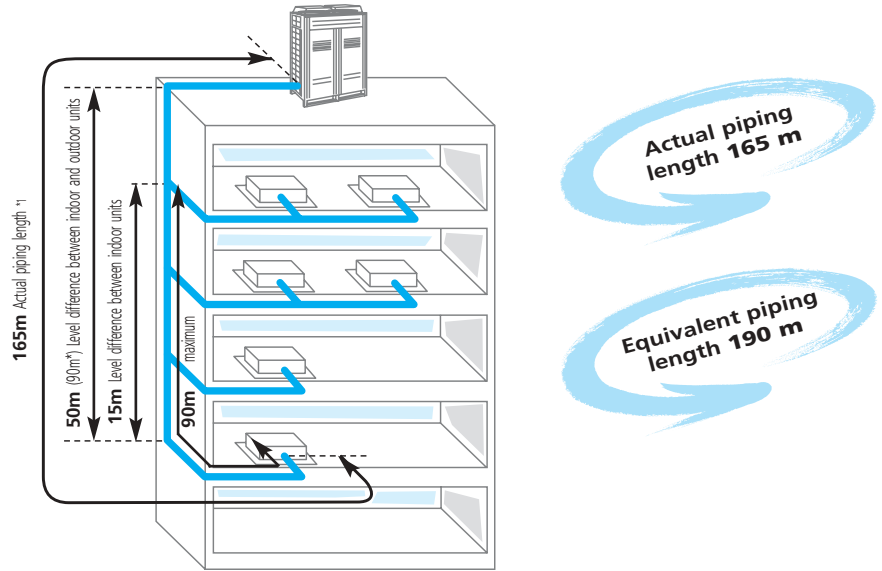
6 Extended Piping Length

VRVIII

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

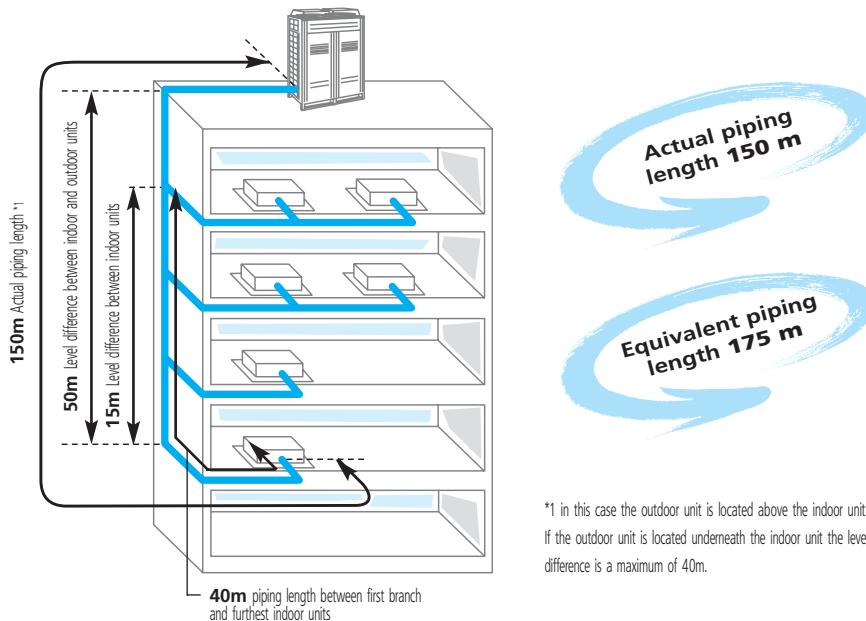
In case the outdoor unit is located above the indoor unit the height difference is 50m standard. It can be extended to 90m*

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.



VRVII

The ability to sustain refrigerant piping in lengths up to 150m (175m equivalent), allows systems to be designed with level differences of 50m between indoor and outdoor units and 15m between individual indoor units. Thus, even with installations in 15 storey buildings, all outdoor units can be located at rooftop level.

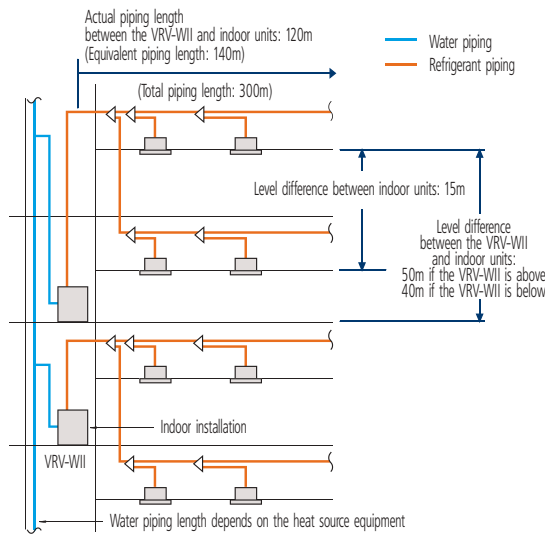
*1 in this case the outdoor unit is located above the indoor unit. If the outdoor unit is located underneath the indoor unit the level difference is a maximum of 40m.



VRV-WII

The water-cooled VRV-WII uses water as its heat source and since there are no limitations on water piping length, is eminently suitable for application to tall multi storey or large buildings. Considerable flexibility is available within the refrigerant circuit since up to 120m actual piping length and 50m* (if the VRV-WII is above the indoor units) in height can exist between the VRV-WII and indoor units. Water piping does not intrude on the occupied spaces, so there are no leakage problems.

* 40m if the VRV-WII is below the indoor units.

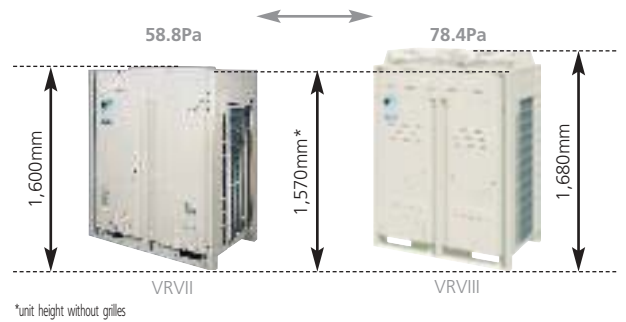


Actual piping length 120 m

Equivalent piping length 140 m

7 Higher Outdoor Fan ESP

Although VRVIII outdoor units are the same height (1,570mm) as VRVII units, they feature a higher ESP due to new and powerful inverter driven fans, modified grilles and heat exchanger.



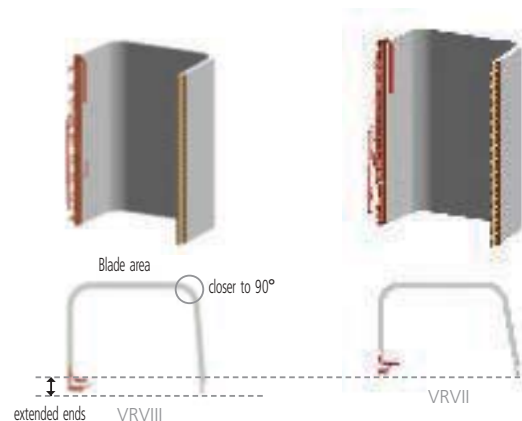
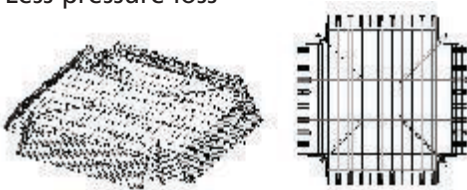
Powerful Inverter Driven Fans

Blade increase of 25 % compared to VRVII series.

| 10HP | VRVII | VRVIII |
|------------|-----------------|-----------------|
| Blade area | 3 blades, ø 700 | 4 blades, ø 680 |
| | | |

New Fan Grilles

Less pressure loss



New Heat Exchanger

The ends of the heat exchanger have been extended, resulting in an overall increase of 138mm or 7-10% increase in effective length.



8 Super Silent Mode




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

Step 1 fixes the operating sound value at 50dBA. When the sound level of an 8HP outdoor unit is fixed at 50dBA it will operate at 98 % of its nominal capacity. Step 2 fixes the operating sound value at 45dBA. When the sound level of the same 8HP outdoor unit is fixed at 45dBA it will operate at 74 % of its nominal capacity.





For some applications the operating sound level of the outdoor unit might be too high. VRVIII super silent mode however, allows the sound level to be fixed in order to avoid noise pollution.

9 Smaller Footprint

VRVIII/VRVII

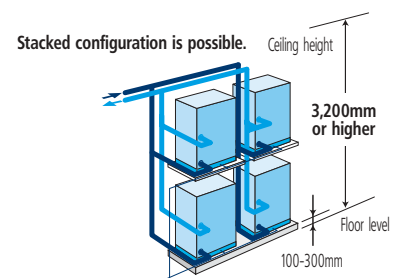
| HP | 5 | 8 | 10 | 12 | 14 | 16 |
|-------|---|---|--|----|--------------------|----|
| VRVII |  |  |  | | | |
| | 0.49m ² | 0.71m ² | | | 0.95m ² | |

**34%
REDUCTION**

| HP | 5 | 8 | 10 | 12 | 14 | 16 | 18 |
|--------|---|---|--|----|----|---|----|
| VRVIII |  |  |  | | |  | |
| | 0.49m ² | | 0.71m ² | | | 0.95m ² | |

VRV-WII

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 150kg and height of 1,000mm makes installation easy. Stacked configuration is also possible, contributing further to space savings.





10 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.



11 Year Round Cooling and/or Heating

→ Designed to provide simultaneous year round cooling and/or heating, VRV heat recovery systems are modular in concept and are therefore, ideal for use in rooms or zones that generate varying thermal loads according to building orientation or local hot or cold spots.

→ It is possible for the same meeting room to give rise to differing thermal loads depending on the time of day, number of occupants present, location and usage pattern of lighting and electronic office equipment.

→ The colder it is outside, the warmer it needs to be indoors, which means that the capacity of the air-cooled outdoor unit drops. Water-cooled air conditioners are not subject to this problem. The boiler ensures that sufficient enough additional heat is always available indoors.

12 Integration with Ventilation

HRV - Heat Reclaim Ventilation

→ Heat and humidity are exchanged between supply and exhaust air, which

- brings outdoor air close to indoor air conditions
- recovers energy loss
- realises considerable reduction of air conditioning capacity

→ The heat exchanger modulates the humidity and temperature of incoming fresh air to match indoor conditions.

→ The balance achieved between indoor and outdoor ambients, enables the cooling/heating load placed on the air conditioning system to be reduced. (Heat and humidity are exchanged)

→ Most energy saving solution as smaller indoor units can be selected:

- Size down of indoor units down to 40 %
- Payback total VAM system: ±2.5 years*

*conditions:

- outside cooling conditions: 30°C / outside heating conditions: - 8°C
- Inside cooling conditions: 24°C / inside heating conditions: 22°C
- Ventilation per room: 150m³/h

→ Ideal modular concept to cope with the fresh air requirements



13 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

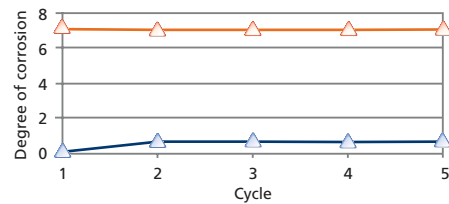
| | Non-treated | Anti-corrosion treated |
|----------------|-------------|------------------------|
| Salt corrosion | 1 | 5 to 6 |
| Acid rain | 1 | 5 to 6 |

Performed tests :

VDA Wechseltest

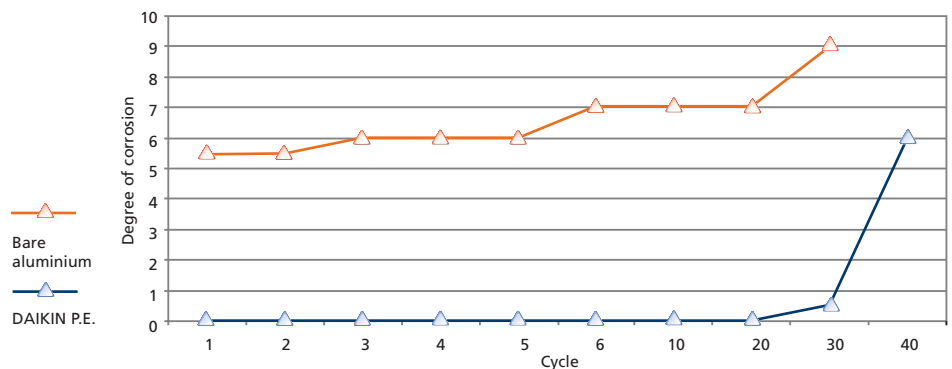
contents of 1 cycle (7 days):

- 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

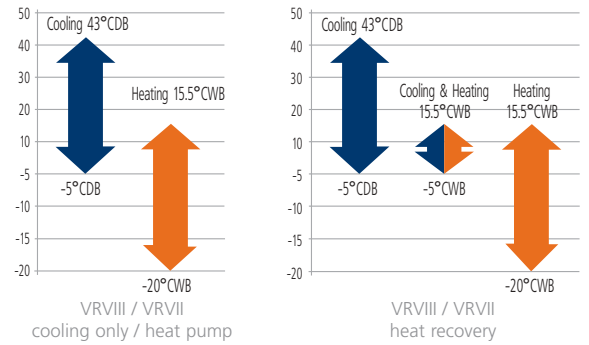




14 Operation Range

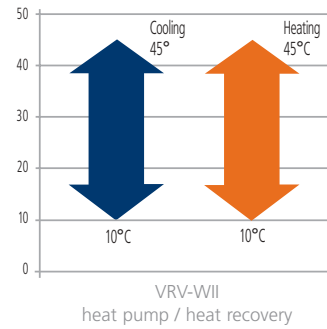
VRVIII/VRVII

Standard operation down to -20°C outdoor ambient temperature. Advanced PI control of the outdoor unit enables VRV series to operate at outdoor ambients down to -5°C in cooling mode and down to -20°C in heating mode.



VRV-WII

Wide operation range of the water-cooled units between 10°C & 45°C, both in cooling and heating.



15 Low 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 UNIT





2. ENVIRONMENTAL CONSCIOUSNESS

1 Higher EER/COP

Option 1: Compact Combinations

Compact combinations from 5HP to 54HP provide the smallest footprint

| HP | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 |
|----|----|----|----|----|----|----|----|----|----|----|----|
| 8 | | | 1 | | | 1 | | | | | |
| 10 | | | | 1 | | | 1 | | | | |
| 12 | | | 1 | 1 | 2 | | | 1 | | | |
| 14 | | | | | | | | | 1 | | |
| 16 | 1 | | | | | | | | | 1 | |
| 18 | | 1 | | | | 1 | 1 | 1 | 1 | 1 | 2 |

EER/COP Values

| HP | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 |
|-----|------|------|------|------|------|------|------|------|------|------|------|
| EER | 3.17 | 3.02 | 3.68 | 3.62 | 3.49 | 3.28 | 3.26 | 3.20 | 3.11 | 3.09 | 3.02 |
| COP | 3.88 | 3.69 | 4.08 | 4.04 | 3.47 | 3.84 | 3.83 | 3.81 | 3.83 | 3.79 | 3.69 |

Option 2: High EER/COP Combinations

High EER/COP combinations provide the most energy efficient outdoor units from 16HP to 36HP

| HP | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 |
|----|----|----|----|----|----|----|----|----|----|----|----|
| 8 | 2 | 1 | | | 3 | 2 | 1 | | 1 | | |
| 10 | | 1 | 2 | 1 | | 1 | 2 | 3 | | 1 | |
| 12 | | | | 1 | | | | | 2 | 2 | 3 |

Optimised EER/COP Values

← 30 % RISE

| HP | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 |
|-----|------|------|------|------|------|------|------|------|------|------|------|
| EER | 4.04 | 3.88 | 3.78 | 3.62 | 4.02 | 3.94 | 3.84 | 3.77 | 3.60 | 3.56 | 3.49 |
| COP | 4.27 | 4.15 | 4.09 | 4.04 | 3.97 | 4.20 | 4.13 | 4.09 | 4.05 | 4.02 | 3.99 |

2 Smaller Refrigerant Charge

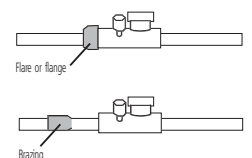
Compared to previous series VRVIII has the smallest refrigerant amount in the system.

| 10HP | R-22 VRV-K | R-407C VRV-K | R-410A VRVII | R-410A VRVIII |
|--------------------|------------|--------------|--------------|---------------|
| Refrigerant charge | 13.5 kg | 11.2 kg | 8.6 kg | 8.4 kg |
| | 100 % | 83 % | 63.7 % | 62.2 % |

← 37.8 % REDUCTION

3 Improved Refrigerant Containment

All flange and flare connections in the unit have been replaced by brazing connections to ensure improved refrigerant containment.





4 Refrigerant Containment Check

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.

5 RoHS Compliance

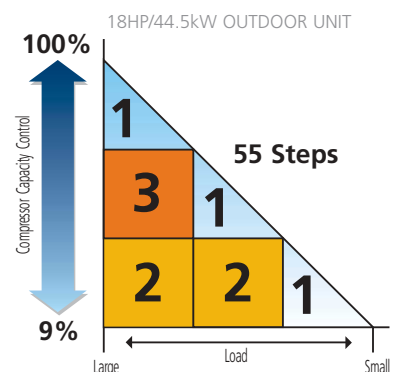
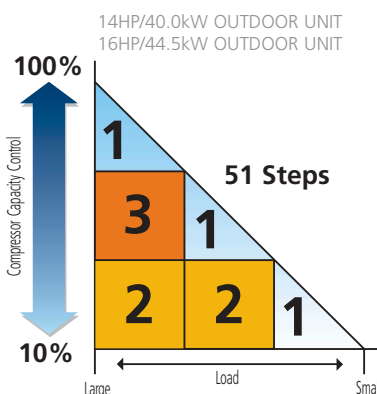
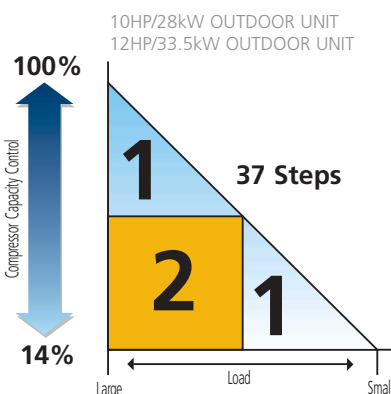
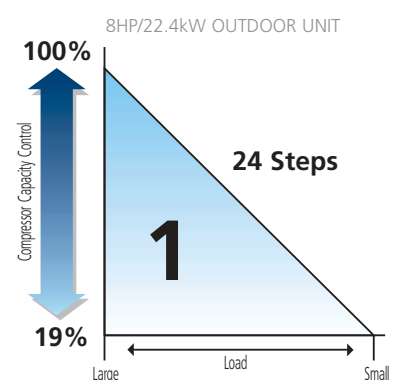
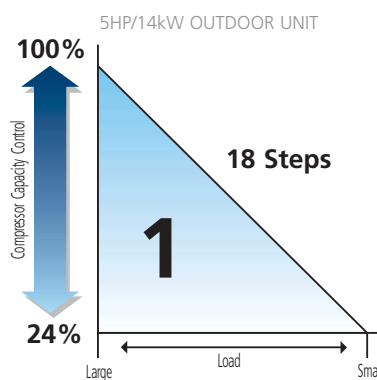
Restriction of Hazardous Substances in electrical and electronic equipment (2002/95/EC)

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 VRVIII will be totally in line with RoHS.

6 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 60 indoor units of different capacity and type at a ratio of 50~200 % in comparison with outdoor units capacity. 5 HP 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.

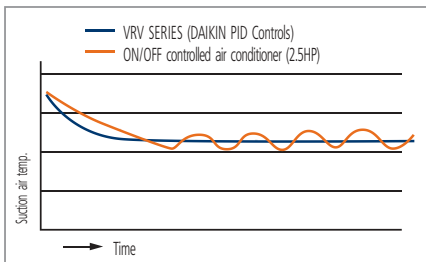




7 Smart Control Brings Comfort

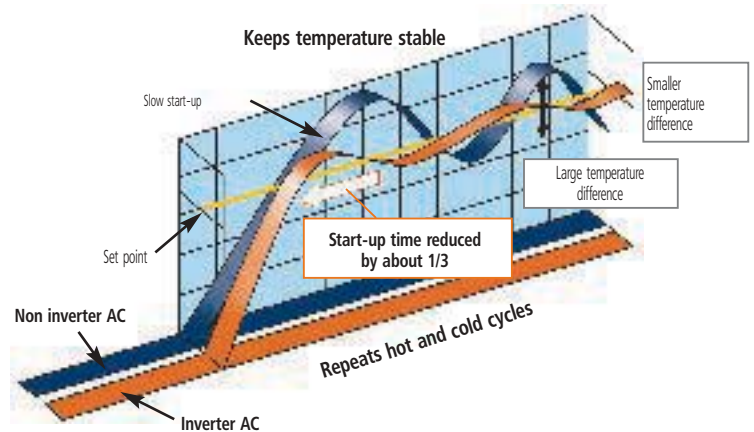
An electronic expansion valve, using PID control, continuously adjusts the refrigerant volume in response to load variations of the indoor units. The VRV system thus maintains comfortable room temperatures at a virtually constant level, without the temperature variations typical of conventional ON/OFF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

Cooling



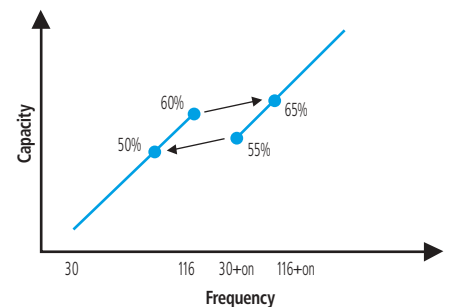
Note: the graph shows the data, measured in a test room assuming actual heating load.

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



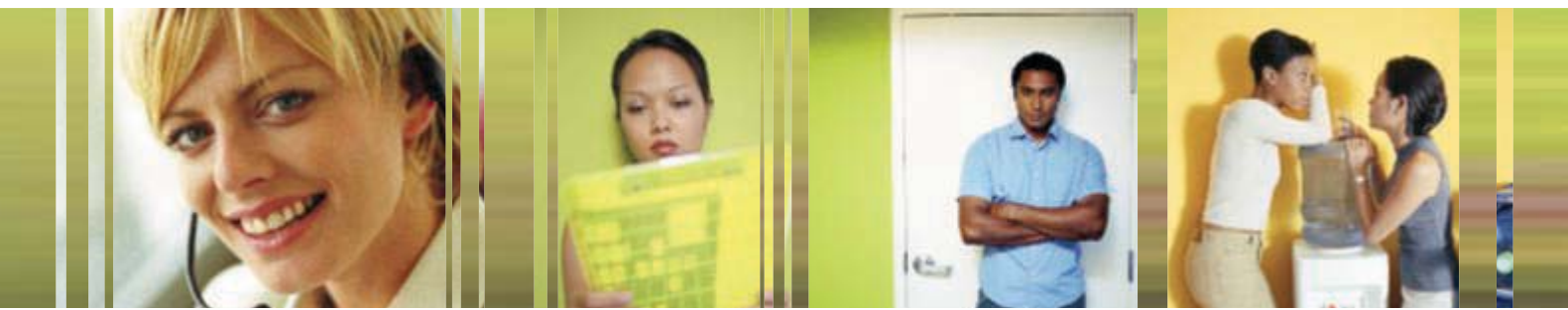
8 Less Frequent Start/Stop Cycle

- 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



9 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.





3. INSTALLATION & MAINTENANCE FRIENDLY DESIGN

1 Automatic Charge Function

Conventional Way:

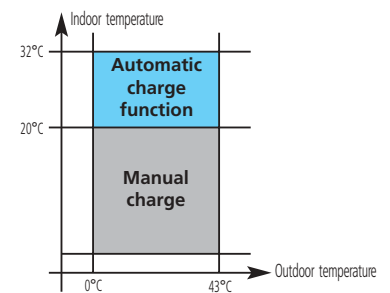
1. calculation of additional refrigerant charging volume
2. charging the unit with additional refrigerant
3. measuring the weight of the cylinder
4. judgment based on pressure (test operation)

VRVIII

With VRVIII however, these 4 steps are omitted since VRVIII unit can be charged with the necessary amount of refrigerant automatically 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.



2 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.



3 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.



4 Duty Cycling

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



5 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.

6 Modular & Lightweight

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.

7 No structural reinforcement necessary

Thanks to the lightweight and vibration-free construction of the outdoor units, floors do not need to be reinforced, reducing the overall cost of the building.





8 Refrigerant Piping

Reduced piping diameters

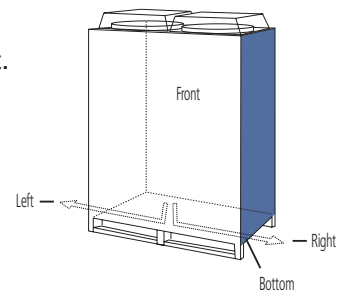
Use of high efficiency R-410A enables the VRVIII to operate on a smaller refrigerant charge to be used, leading to a reduction in liquid and gas pipe diameters.

Reduced piping costs thanks to modular design

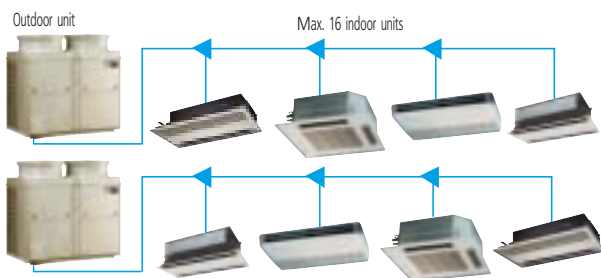
Smaller diameter liquid and gas piping contributes to a reduction in installation space and installation costs.

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.

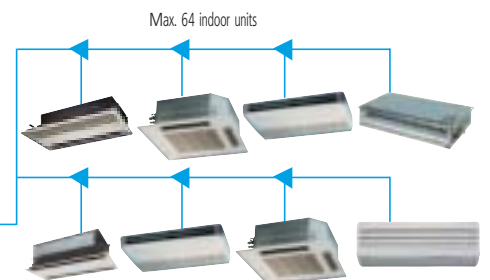


Non Modular VRF System

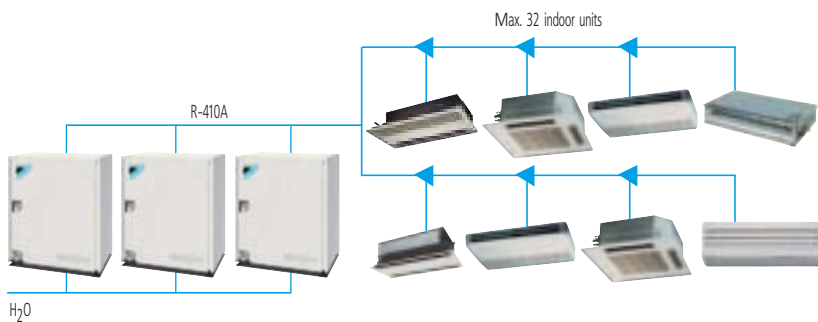


↓
Around 30% reduction in installation costs for refrigerant piping.

VRVIII System



VRV-WII System





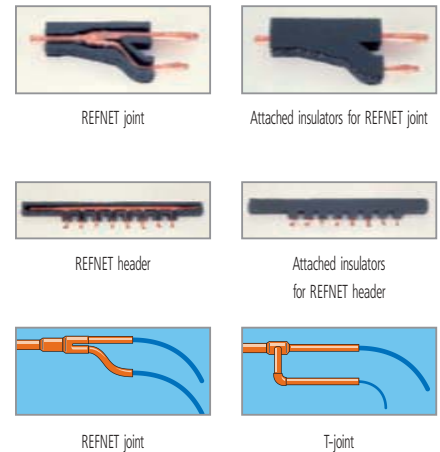
9 Unified REFNET piping

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.



10 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).

11 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.

12 Simplified Wiring

A simple 2-wire non-shielded multiplex transmission system links each outdoor unit to multiple indoor units using one 2-core wire, thus simplifying the wiring operation.

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.





13 "Super Wiring" System

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

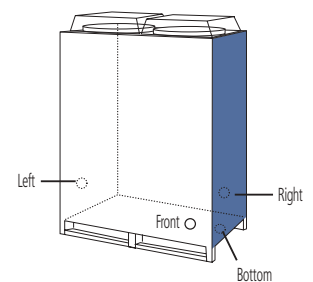
This system makes it easy for the user to retrofit the existing system with a centralised remote control, simply by connecting it to the outdoor units.

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



14 4-way Wiring Connection

Wiring can be fed from the front panel, both left and right side panels and bottom panel of the outdoor unit.



15 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.



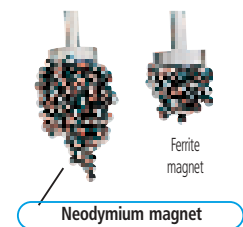
Outdoor Units

1. VRV/III

1 VRV/III Technology

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 create the reluctance torque. These magnets are approximately 12 times stronger than ferrite magnets and make a major contribution to its energy saving characteristics.
- **High thrust mechanism (VRV/III cooling only/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



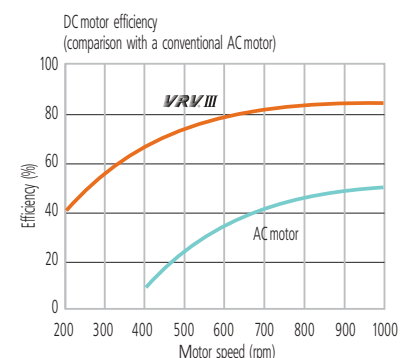
2 Sine Wave DC Inverter

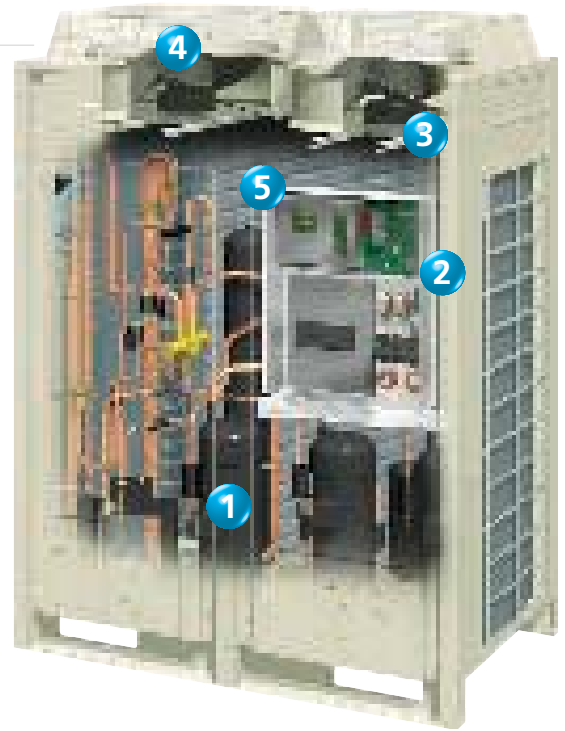
Optimizing the sine wave curve, results in smoother motor rotation and improved motor efficiency.



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

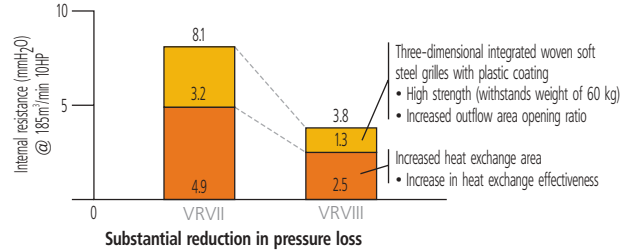
- Maximum 10% increase in airflow (16 HP) due to dual DC fans
- Increased output and reduced pressure loss together with increased external static pressure and reduced rated fan input.

10 HP: 3 blades, $\phi 700$
 --> 4 blades, $\phi 680$
 blade area increased by 25%,
 uneven pitch: No NZ noise

18 HP: $\phi 700$ --> $\phi 540 \times 2$
 blade area increased by 20%,
 sound reduced by 0.7 dB

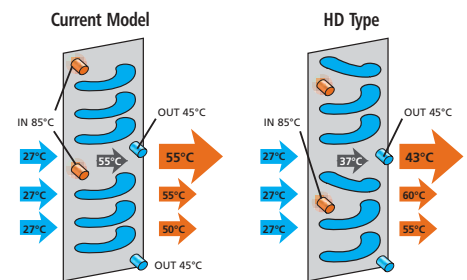


Fans optimized for their casings
 (increased air flow without sound increase)



5 e-Pass Heat Exchanger

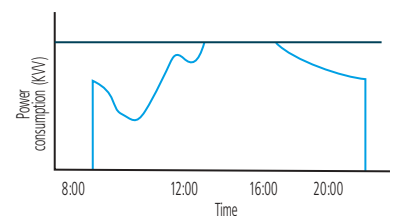
Optimization of the path layout of the heat exchanger prevents heat transferring from the overheated gas section towards the sub cooled liquid section - a more efficient use of the heat exchanger.



In cooling mode, the heat exchanger of the condenser 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.



2 VRV8 COOLING ONLY

| RXQ-P | | | RXQ5P7W1B | RXQ8P7W1B | RXQ10P7W1B | RXQ12P7W1B | RXQ14P7W1B | RXQ16P7W1B | RXQ18P7W1B | |
|--|---|---------------------------------------|------------------------------|-----------|------------|------------|------------|------------|------------|-------|
| Nominal capacity | kW | | 14.0 | 22.4 | 28.0 | 33.5 | 40.0 | 45.0 | 49.0 | |
| COP | | | 3.98 | 4.03 | 3.77 | 3.48 | 3.23 | 3.17 | 3.02 | |
| Capacity range | HP | | 5 | 8 | 10 | 12 | 14 | 16 | 18 | |
| Power input (nominal) | kW | | 3.52 | 5.56 | 7.42 | 9.62 | 12.4 | 14.2 | 16.2 | |
| 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 | | 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 | 157 | 185 | 238 | 238 | 315 | 315 | 323 | |
| Fan | Type | Propeller | | | | | | | | |
| | Air Flow Rate (nominal at 230V) | m³/min | 95 | 171 | 185 | 196 | 233 | 233 | 239 | |
| | External static pressure (MAX) | Pa | 78Pa in high static pressure | | | | | | | |
| Compressor | Type | Hermetically sealed scroll compressor | | | | | | | | |
| Operation range | Minimum | °CDB | -5.0 | -5.0 | -5.0 | -5.0 | -5.0 | -5.0 | -5.0 | |
| | Maximum | °CDB | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | |
| Sound level (nominal) | 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 | 12.3 | 12.5 | 12.7 | |
| Refrigerant Oil | Control | Expansion valve (electronic type) | | | | | | | | |
| | 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 | 22.2 | 28.6 | 28.6 | 28.6 |
| | Heat Insulation | Both liquid and gas pipes | | | | | | | | |
| Capacity control method | Inverter controlled | | | | | | | | | |
| Capacity control [%] | | | ~ 100 | ~ 100 | ~ 100 | ~ 100 | ~ 100 | ~ 100 | ~ 100 | |
| Safety devices | HPS, fan motor driver overload protector, overcurrent relay, inverter overload protector, PC board fuse | | | | | | | | | |
| Power supply | Name | | | W1 | W1 | W1 | W1 | W1 | W1 | |
| | Phase | | | 3N~ | 3N~ | 3N~ | 3N~ | 3N~ | 3N~ | |
| | Frequency | Hz | 50 | 50 | 50 | 50 | 50 | 50 | 50 | |
| | Voltage | V | 400 | 400 | 400 | 400 | 400 | 400 | 400 | |

Notes
 Nominal cooling capacities are based on : indoor temperature : 27°CDB, 19°CWB, outdoor temperature : 35°CDB, equivalent refrigerant piping : 75m, 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.



3 VRV VIII HEAT PUMP - SMALL FOOTPRINT COMBINATION

| RXYQ-P | | | RXYQ5P7W1B | RXYQ8P7W1B | RXYQ10P7W1B | RXYQ12P7W1B | RXYQ14P7W1B | RXYQ16P7W1B | RXYQ18P7W1B | |
|--|---------------------------------|---------------------------|---|------------------------------|-------------|-------------|-------------|-------------|-------------|-------|
| 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 | Cooling | | 3.98 | 4.03 | 3.77 | 3.48 | 3.23 | 3.17 | 3.02 | |
| | Heating | | 4.00 | 4.27 | 4.09 | 3.97 | 3.98 | 3.88 | 3.69 | |
| Capacity range | | HP | 5 | 8 | 10 | 12 | 14 | 16 | 18 | |
| Power input (nominal) | Cooling | kW | 3.52 | 5.56 | 7.42 | 9.62 | 12.4 | 14.2 | 16.2 | |
| | Heating | kW | 4.00 | 5.86 | 7.70 | 9.44 | 11.30 | 12.90 | 15.30 | |
| 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 | | 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 | 317 | 317 | 325 | |
| Fan | Type | | Propeller | | | | | | | |
| | Air Flow Rate (nominal at 230V) | Cooling | m ³ /min | 95 | 171 | 185 | 196 | 233 | 233 | 239 |
| | | Heating | m ³ /min | 95 | 171 | 185 | 196 | 233 | 233 | 239 |
| | External static pressure (MAX) | | Pa | 78Pa in high static pressure | | | | | | |
| Compressor | Type | | Hermetically sealed scroll compressor | | | | | | | |
| Operation range | Cooling | Minimum | °CDB | -5.0 | -5.0 | -5.0 | -5.0 | -5.0 | -5.0 | -5.0 |
| | | Maximum | °CDB | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 |
| | Heating | Minimum | °CWB | -20.0 | -20.0 | -20.0 | -20.0 | -20.0 | -20.0 | -20.0 |
| | | Maximum | °CWB | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 |
| Sound level (nominal) | Cooling | Sound Power | dB(A) | 72 | 78 | 78 | 80 | 80 | 80 | 83 |
| | | Sound Pressure | dB(A) | 54 | 57 | 58 | 60 | 60 | 60 | 63 |
| Refrigerant | Type | | R-410A | | | | | | | |
| | Charge | kg | 6.2 | 7.7 | 8.4 | 8.6 | 12.3 | 12.5 | 12.7 | |
| | 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 | ~ 100 | ~ 100 | ~ 100 | ~ 100 | ~ 100 | ~ 100 | |
| Safety devices | | | HPS, fan motor driver overload protector, overcurrent relay, inverter overload protector, PC board fuse | | | | | | | |
| Power supply | Name | | W1 | W1 | W1 | W1 | W1 | W1 | W1 | |
| | Phase | | 3N~ | 3N~ | 3N~ | 3N~ | 3N~ | 3N~ | 3N~ | |
| | Frequency | Hz | 50 | 50 | 50 | 50 | 50 | 50 | 50 | |
| | Voltage | V | 400 | 400 | 400 | 400 | 400 | 400 | 400 | |

Notes: Nominal cooling capacities are based on : indoor temperature : 27°CDB, 19°CWB, outdoor temperature : 35°CDB, equivalent refrigerant piping : 75m, level difference : 0m.
 Nominal heating capacities are based on : indoor temperature : 20°CDB, outdoor temperature : 7°CDB, 6°CWB, equivalent refrigerant piping : 75m, 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.



3 VRV8 HEAT PUMP - SMALL FOOTPRINT COMBINATION

| RXYQ-P | | | RXYQ20P7W1B | RXYQ22P7W1B | RXYQ24P7W1B | RXYQ26P7W1B | RXYQ28P7W1B | RXYQ30P7W1B | RXYQ32P7W1B | RXYQ34P7W1B | RXYQ36P7W1B | |
|--|---------------------------------|------------------|---|------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------|
| Combination | RXYQ8P7W1B | | 1 | | | 1 | | | | | | |
| | RXYQ10P7W1B | | | 1 | | | 1 | | | | | |
| | RXYQ12P7W1B | | 1 | 1 | 2 | | | 1 | | | | |
| | RXYQ14P7W1B | | | | | | | | 1 | | | |
| | RXYQ16P7W1B | | | | | | | | | 1 | | |
| RXYQ18P7W1B | | | | | | 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 | Cooling | | 3.68 | 3.62 | 3.49 | 3.28 | 3.26 | 3.20 | 3.11 | 3.09 | 3.02 | |
| | Heating | | 4.08 | 4.04 | 3.97 | 3.84 | 3.83 | 3.81 | 3.83 | 3.79 | 3.69 | |
| Capacity range | | HP | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | |
| Power input (nominal) | Cooling | kW | 15.2 | 17.0 | 19.2 | 21.8 | 23.6 | 25.8 | 28.6 | 30.4 | 32.4 | |
| | Heating | kW | 15.3 | 17.1 | 18.9 | 21.2 | 23.0 | 24.7 | 26.6 | 28.2 | 30.6 | |
| 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 | | 650 | 715 | 780 | 845 | 910 | 975 | 1,040 | 1,105 | 1,170 | |
| Casing | Colour | | Daikin White | | | | | | | | | |
| | Material | | Painted galvanised steel | | | | | | | | | |
| Fan | Type | | Propeller | Propeller | Propeller | Propeller | Propeller | Propeller | Propeller | Propeller | Propeller | |
| | Air Flow Rate (nominal at 230V) | Cooling | m ³ /min | 171 + 196 | 185 + 196 | 196 + 196 | 171 + 239 | 185 + 239 | 196 + 239 | 233 + 239 | 233 + 239 | 239 + 239 |
| | | Heating | m ³ /min | 171 + 196 | 185 + 196 | 196 + 196 | 171 + 239 | 185 + 239 | 196 + 239 | 233 + 239 | 233 + 239 | 239 + 239 |
| | External static pressure (MAX) | | Pa | 78Pa in high static pressure | | | | | | | | |
| Compressor | Type | | Hermetically sealed scroll compressor | | | | | | | | | |
| Operation range | Cooling | Minimum | °CDB | -5.0 | -5.0 | -5.0 | -5.0 | -5.0 | -5.0 | -5.0 | -5.0 | |
| | | Maximum | °CDB | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | |
| | Heating | Minimum | °CWB | -20.0 | -20.0 | -20.0 | -20.0 | -20.0 | -20.0 | -20.0 | -20.0 | |
| | | Maximum | °CWB | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | |
| Refrigerant | Type | | R-410A | R-410A | R-410A | R-410A | R-410A | R-410A | R-410A | R-410A | R-410A | |
| | Charge | kg | 7.7 + 8.6 | 8.4 + 8.6 | 8.6 + 8.6 | 7.7 + 12.7 | 8.4 + 12.7 | 8.6 + 12.7 | 12.3 + 12.7 | 12.5 + 12.7 | 12.7 + 12.7 | |
| | 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 | 2.1 + 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 | | Braze connection | | | | | | | | |
| | | Diameter (OD) mm | | 15.9 | 15.9 | 15.9 | 19.1 | 19.1 | 19.1 | 19.1 | 19.1 | 19.1 |
| | Gas | Type | | Braze 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 | ~ 100 | ~ 100 | ~ 100 | ~ 100 | ~ 100 | ~ 100 | ~ 100 | ~ 100 | |
| Safety devices | | | HPS, fan motor driver overload protector, overcurrent relay, inverter overload protector, PC board fuse | | | | | | | | | |
| Power supply | Name | | W1 | W1 | W1 | W1 | W1 | W1 | W1 | W1 | W1 | |
| | Phase | | 3N~ | 3N~ | 3N~ | 3N~ | 3N~ | 3N~ | 3N~ | 3N~ | 3N~ | |
| | Frequency | Hz | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | |
| | Voltage | | V | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 |

Notes: Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 75m, level difference: 0m.
 Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 75m, 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.



| RXYQ-P | | | RXYQ38P7W1B | RXYQ40P7W1B | RXYQ42P7W1B | RXYQ44P7W1B | RXYQ46P7W1B | RXYQ48P7W1B | RXYQ50P7W1B | RXYQ52P7W1B | RXYQ54P7W1B | |
|--|---------------------------------|---------------------------|---|-------------------|------------------|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|-----------------|
| Combination | RXYQ8P7W1B | | 1 | | | 1 | | | | | | |
| | RXYQ10P7W1B | | | 1 | | | 1 | | | | | |
| | RXYQ12P7W1B | | 1 | 1 | 2 | | | 1 | | | | |
| | RXYQ14P7W1B | | | | | | | | 1 | | | |
| | RXYQ16P7W1B | | | | | | | | | 1 | | |
| RXYQ18P7W1B | | 1 | 1 | 1 | 2 | 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 | Cooling | | 3.34 | 3.34 | 3.28 | 3.16 | 3.17 | 3.14 | 3.08 | 3.07 | 3.02 | |
| | Heating | | 3.89 | 3.89 | 3.86 | 3.78 | 3.79 | 3.78 | 3.77 | 3.75 | 3.70 | |
| Capacity range | | HP | 38 | 40 | 42 | 44 | 46 | 48 | 50 | 52 | 54 | |
| Power input (nominal) | Cooling | kW | 31.4 | 33.2 | 35.4 | 38.0 | 39.8 | 42.0 | 44.8 | 46.6 | 48.6 | |
| | Heating | kW | 30.6 | 32.4 | 34.2 | 36.5 | 38.3 | 40.0 | 41.9 | 43.5 | 45.9 | |
| 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 | | 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 | | | | | | | | | |
| Fan | Type | | Propeller | | | | | | | | | |
| | Air Flow Rate (nominal at 230V) | Cooling | m ³ /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 | m ³ /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 | -5.0 | -5.0 | -5.0 | -5.0 | -5.0 | -5.0 | -5.0 | -5.0 |
| | | Maximum | °CDB | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 |
| | Heating | Minimum | °CWB | -20.0 | -20.0 | -20.0 | -20.0 | -20.0 | -20.0 | -20.0 | -20.0 | -20.0 |
| | | Maximum | °CWB | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 |
| Refrigerant | Type | | R-410A | | | | | | | | | |
| | Charge | kg | 7.7 + 8.6 + 12.7 | 8.4 + 8.6 + 12.7 | 8.6 + 8.6 + 12.7 | 7.7 + 12.7 + 12.7 | 8.4 + 12.7 + 12.7 | 8.6 + 12.7 + 12.7 | 12.3 + 12.7 + 12.7 | 12.5 + 12.7 + 12.7 | 12.7 + 12.7 + 12.7 | |
| | 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 | ~ 100 | ~ 100 | ~ 100 | ~ 100 | ~ 100 | ~ 100 | ~ 100 | ~ 100 | |
| Safety devices | | | HPS, fan motor driver overload protector, overcurrent relay, inverter overload protector, PC board fuse | | | | | | | | | |
| Power supply | Name | | W1 | W1 | W1 | W1 | W1 | W1 | W1 | W1 | W1 | |
| | Phase | | 3N~ | 3N~ | 3N~ | 3N~ | 3N~ | 3N~ | 3N~ | 3N~ | 3N~ | |
| | Frequency | Hz | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | |
| | Voltage | | V | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 |

Notes: Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 75m, level difference: 0m.

Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 75m, 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.



4 VRV VIII HEAT PUMP - HIGH COP COMBINATION

| RXYQ-P | | RXYQ16P7W1B | RXYQ18P7W1B | RXYQ20P7W1B | RXYQ22P7W1B | | |
|--|---------------------------------|---------------|---|-------------|-------------|-----------|-----------|
| Combination | RXYQ8P7W1B | | 2 | 1 | | | |
| | RXYQ10P7W1B | | | 1 | 1 | | |
| | RXYQ12P7W1B | | | | 1 | | |
| Nominal capacity | Cooling | kW | 44.8 | 50.4 | 56.0 | 61.5 | |
| | Heating | kW | 50.0 | 56.5 | 63.0 | 69.0 | |
| COP | Cooling | | 4.04 | 3.88 | 3.78 | 3.62 | |
| | Heating | | 4.27 | 4.15 | 4.09 | 4.04 | |
| Capacity range | HP | | 16 | 18 | 20 | 22 | |
| Power input (nominal) | Cooling | kW | 11.1 | 13.0 | 14.8 | 17.0 | |
| | Heating | kW | 11.7 | 13.6 | 15.4 | 17.1 | |
| Max n° of indoor units to be connected | | | 26 | 29 | 32 | 35 | |
| Indoor index connection | Minimum | | 200 | 225 | 250 | 275 | |
| | Maximum | | 520 | 585 | 650 | 715 | |
| Casing | Colour | | Daikin White | | | | |
| | Material | | Painted galvanised steel | | | | |
| Fan | Type | | Propeller | | | | |
| | Air Flow Rate (nominal at 230V) | Cooling | m ³ /min | 171 + 171 | 171 + 185 | 185 + 185 | 185 + 185 |
| | | Heating | m ³ /min | 171 + 171 | 171 + 185 | 185 + 185 | 185 + 185 |
| External static pressure (MAX) | Pa | | 78Pa in high static pressure | | | | |
| Compressor | Type | | Hermetically sealed scroll compressor | | | | |
| Operation range | Cooling | Minimum | °CDB | -5.0 | -5.0 | -5.0 | -5.0 |
| | | Maximum | °CDB | 43.0 | 43.0 | 43.0 | 43.0 |
| | Heating | Minimum | °CWB | -20.0 | -20.0 | -20.0 | -20.0 |
| | | Maximum | °CWB | 15.0 | 15.0 | 15.0 | 15.0 |
| Refrigerant | Type | | R-410A | | | | |
| | Charge | kg | 7.7 + 7.7 | 7.7 + 8.4 | 8.4 + 8.4 | 8.4 + 8.6 | |
| | 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 | 2.1 + 2.1 | 2.1 + 3.9 | 3.9 + 3.9 | 3.9 + 3.9 | |
| Piping Connections | Liquid | Type | Braze connection | | | | |
| | | Diameter (OD) | mm | 12.7 | 15.9 | 15.9 | 15.9 |
| | Gas | Type | Braze connection | | | | |
| | | Diameter (OD) | mm | 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 | |
| Defrost method | | | Reversed cycle | | | | |
| Defrost control | | | Sensor for outdoor heat exchanger temperature | | | | |
| Capacity control method | | | Inverter controlled | | | | |
| Capacity control [%] | | | ~ 100 | ~ 100 | ~ 100 | ~ 100 | |
| Safety devices | | | HPS, fan motor driver overload protector, overcurrent relay, inverter overload protector, PC board fuse | | | | |
| Power supply | Name | | W1 | W1 | W1 | W1 | |
| | Phase | | 3N~ | 3N~ | 3N~ | 3N~ | |
| | Frequency | Hz | 50 | 50 | 50 | 50 | |
| | Voltage | V | 400 | 400 | 400 | 400 | |

Notes: Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 75m, level difference: 0m.
 Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 75m, 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.



| RXYQ-P | | | RXYQ24P7W1B | RXYQ26P7W1B | RXYQ28P7W1B | RXYQ30P7W1B | RXYQ32P7W1B | RXYQ34P7W1B | RXYQ36P7W1B | |
|--|---------------------------------|---------------|---|------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Combination | RXYQ8P7W1B | | 3 | 2 | 1 | | 1 | | | |
| | RXYQ10P7W1B | | | 1 | 2 | 3 | | 1 | | |
| | RXYQ12P7W1B | | | | | | 2 | 2 | 3 | |
| Nominal capacity | Cooling | kW | 67.2 | 72.8 | 78.4 | 84.0 | 89.4 | 95.0 | 101.0 | |
| | Heating | kW | 75.0 | 81.5 | 88.0 | 94.5 | 100.0 | 107.0 | 113.0 | |
| COP | Cooling | | 4.02 | 3.94 | 3.84 | 3.77 | 3.60 | 3.56 | 3.49 | |
| | Heating | | 3.97 | 4.20 | 4.13 | 4.09 | 4.05 | 4.02 | 3.99 | |
| Capacity range | HP | | 24 | 26 | 28 | 30 | 32 | 34 | 36 | |
| Power input (nominal) | Cooling | kW | 16.7 | 18.5 | 20.4 | 22.3 | 24.8 | 26.7 | 28.9 | |
| | Heating | kW | 18.9 | 19.4 | 21.3 | 23.1 | 24.7 | 26.6 | 28.3 | |
| Max n° of indoor units to be connected | | | 39 | 42 | 45 | 48 | 52 | 55 | 58 | |
| Indoor index connection | Minimum | | 300 | 325 | 350 | 375 | 400 | 425 | 450 | |
| | Maximum | | 780 | 845 | 910 | 975 | 1,040 | 1,105 | 1,170 | |
| Casing | Colour | | Daikin White | | | | | | | |
| | Material | | Painted galvanised steel | | | | | | | |
| Fan | Type | | Propeller | Propeller | Propeller | Propeller | Propeller | Propeller | Propeller | |
| | Air Flow Rate (nominal at 230V) | Cooling | m ³ /min | 171 + 171 + 171 | 171 + 171 + 185 | 171 + 185 + 185 | 185 + 185 + 185 | 171 + 196 + 196 | 185 + 196 + 196 | 196 + 196 + 196 |
| | | Heating | m ³ /min | 171 + 171 + 171 | 171 + 171 + 185 | 171 + 185 + 185 | 185 + 185 + 185 | 171 + 196 + 196 | 185 + 196 + 196 | 196 + 196 + 196 |
| | External static pressure (MAX) | | Pa | 78Pa in high static pressure | | | | | | |
| Compressor | Type | | Hermetically sealed scroll compressor | | | | | | | |
| Operation range | Cooling | Minimum | °CDB | -5.0 | -5.0 | -5.0 | -5.0 | -5.0 | -5.0 | -5.0 |
| | | Maximum | °CDB | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 |
| | Heating | Minimum | °CWB | -20.0 | -20.0 | -20.0 | -20.0 | -20.0 | -20.0 | -20.0 |
| | | Maximum | °CWB | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 |
| Refrigerant | Type | | R-410A | | | | | | | |
| | Charge | kg | 7.7 + 7.7 + 7.7 | 7.7 + 7.7 + 8.4 | 7.7 + 8.4 + 8.4 | 8.6 + 8.6 + 8.6 | 7.7 + 8.6 + 8.6 | 8.4 + 8.6 + 8.6 | 8.6 + 8.6 + 8.6 | |
| | 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 | 2.1 + 2.1 + 2.1 | 2.1 + 2.1 + 3.9 | 2.1 + 3.9 + 3.9 | 3.9 + 3.9 + 3.9 | 2.1 + 3.9 + 3.9 | 3.9 + 3.9 + 3.9 | 3.9 + 3.9 + 3.9 |
| Piping Connections | Liquid | Type | Braze connection | | | | | | | |
| | | Diameter (OD) | mm | 15.9 | 19.1 | 19.1 | 19.1 | 19.1 | 19.1 | 19.1 |
| | Gas | Type | Braze connection | | | | | | | |
| | | Diameter (OD) | mm | 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 | |
| Defrost method | | | Reversed cycle | | | | | | | |
| Defrost control | | | Sensor for outdoor heat exchanger temperature | | | | | | | |
| Capacity control method | | | Inverter controlled | | | | | | | |
| Capacity control [%] | | | ~ 100 | ~ 100 | ~ 100 | ~ 100 | ~ 100 | ~ 100 | ~ 100 | |
| Safety devices | | | HPS, fan motor driver overload protector, overcurrent relay, inverter overload protector, PC board fuse | | | | | | | |
| Power supply | Name | | W1 | W1 | W1 | W1 | W1 | W1 | W1 | |
| | Phase | | 3N~ | 3N~ | 3N~ | 3N~ | 3N~ | 3N~ | 3N~ | |
| | Frequency | Hz | 50 | 50 | 50 | 50 | 50 | 50 | 50 | |
| | Voltage | V | 400 | 400 | 400 | 400 | 400 | 400 | 400 | |

Notes: Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 75m, level difference: 0m.

Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 75m, 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.

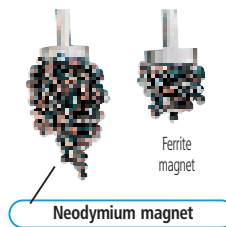


2. VRV/II

1 VRV/II Technology

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 create the reluctance torque. These magnets are approximately 12 times stronger than ferrite magnets and make a major contribution to its energy saving characteristics.



- **High thrust mechanism (VRV/II cooling only/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

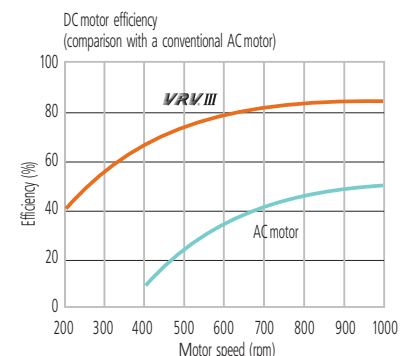
2 Sine Wave DC Inverter

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



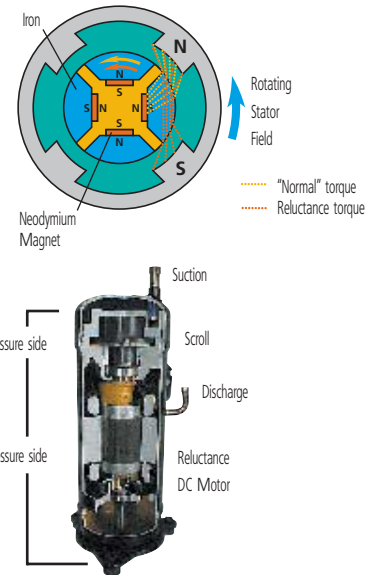
3 DC Fan Motor

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

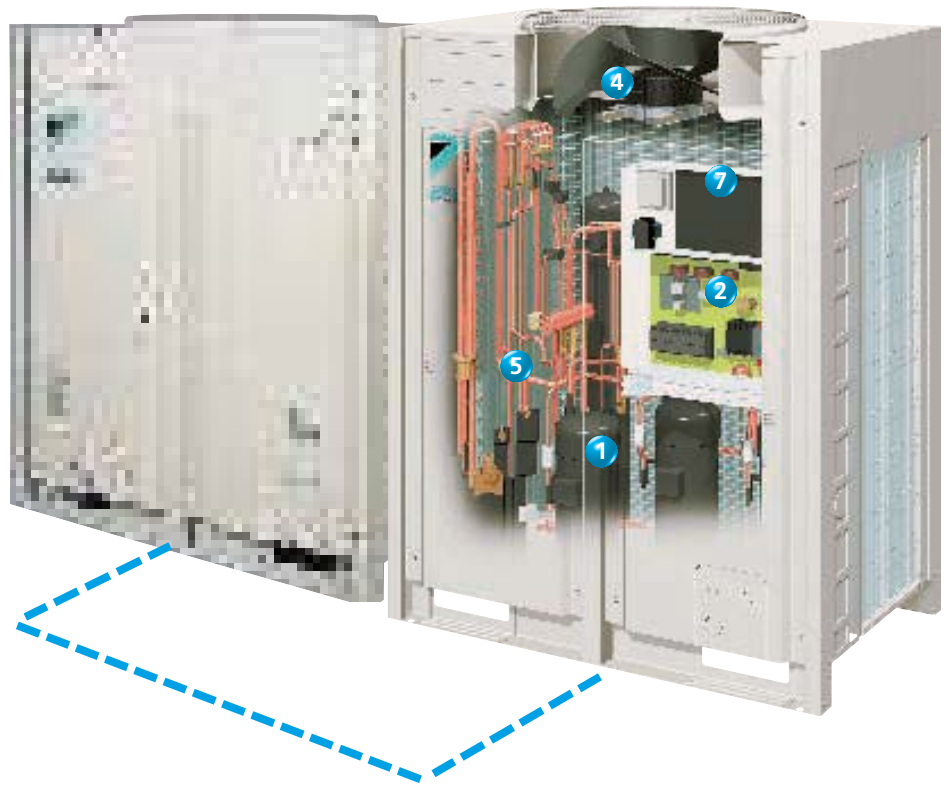


4 Aero Fitting Grille & Aero Spiral Fan

These features achieve a low noise fan with a large airflow, and realize a compact casing together with the compressor linking technology.

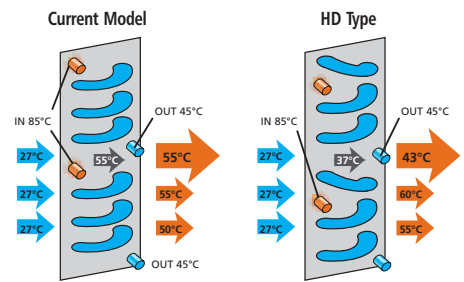


No oil equalising piping necessary for VRVII cooling only / heat pump series



5 e-Pass Heat Exchanger

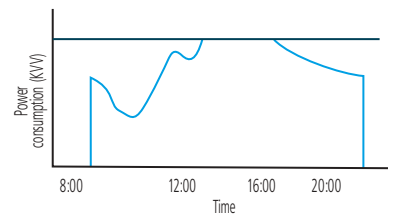
Optimization of the path layout of the heat exchanger prevents heat transferring from the overheated gas section towards the sub cooled liquid section - a more efficient use of the heat exchanger.



In cooling mode, the heat exchanger of the condenser 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.



7 Compact Aero Box

Lower noise and savings in input power are achieved by stacking the inverter and control PCBs within a new and more compact 'aero' box.

2 VRVII HEAT RECOVERY

| REYQ-M8 | | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | |
|---|-----------------|-------|---|------------|------------|-------------|-------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Modules | REYQ8M8 | ● | | | | | ● | | | | | | |
| | REYQ10M8 | | ● | | | | ● | ●● | ● | ● | ● | | |
| | REYQ12M8 | | | ● | | | | | ● | | | ● | |
| | REYQ14M8 | | | | ● | | | | | ● | | | |
| | REYQ16M8 | | | | | ● | | | | | ● | ● | |
| Number of outdoor units* | | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | |
| Equivalent horsepower | | HP | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 |
| Cooling capacity** | | kW | 22.40 | 28.00 | 33.50 | 40.00 | 44.50 | 50.40 | 56.00 | 61.50 | 68.00 | 72.50 | 78.00 |
| Heating capacity** | | kW | 25.00 | 31.50 | 37.50 | 45.00 | 50.00 | 56.50 | 63.00 | 69.00 | 76.50 | 81.50 | 87.50 |
| Nominal input** | Cooling | kW | 6.97 | 9.00 | 10.60 | 14.30 | 15.60 | 16.00 | 18.00 | 19.60 | 23.24 | 24.60 | 26.20 |
| | Heating | kW | 6.89 | 9.31 | 10.80 | 12.90 | 14.00 | 16.50 | 19.00 | 20.50 | 22.60 | 23.80 | 25.30 |
| EER** | Cooling | | 3.21 | 3.11 | 3.16 | 2.80 | 2.85 | 3.15 | 3.11 | 3.14 | 2.93 | 2.95 | 2.98 |
| COP** | Heating | | 3.63 | 3.38 | 3.47 | 3.49 | 3.57 | 3.42 | 3.32 | 3.37 | 3.38 | 3.42 | 3.46 |
| Max. number of connectable indoor units | | | 13 | 16 | 19 | 20 | 20 | 20 | 20 | 22 | 32 | 32 | 32 |
| Minimum capacity index | | | 100 | 125 | 150 | 175 | 200 | 225 | 250 | 275 | 300 | 325 | 350 |
| Maximum capacity index - 130 % | | | 260 | 325 | 390 | 455 | 520 | 585 | 650 | 715 | 780 | 845 | 910 |
| Capacity steps | | | 29 | 29 | 29 | 35 | 35 | 41 | 41 | 41 | 46 | 46 | 46 |
| Dimensions | Height | mm | 1,600 | 1,600 | 1,600 | 1,600 | 1,600 | 1,600 | 1,600 | 1,600 | 1,600 | 1,600 | 1,600 |
| | Width | mm | 930 | 930 | 1,240 | 1,240 | 1,240 | 1,860 | 1,860 | 2,170 | 2,170 | 2,170 | 2,480 |
| | Depth | mm | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 |
| Weight | | kg | 245 | 245 | 295 | 340 | 340 | 490 | 490 | 540 | 585 | 585 | 635 |
| Casing | | | painted galvanised steel | | | | | | | | | | |
| Colour | | | ivory white | | | | | | | | | | |
| Sound pressure level | | dB(A) | 57.0 | 58.0 | 60.0 | 60.0 | 60.0 | 61.0 | 61.0 | 62.0 | 62.0 | 62.0 | 63.0 |
| Sound power level | | dB(A) | 78.0 | 78.0 | 80.0 | 80.0 | 80.0 | 81.0 | 81.0 | 82.0 | 82.0 | 82.0 | 83.0 |
| Fan | Type | | propeller fan | | | | | | | | | | |
| | Air flow rate | | 175 | 180 | 210 | 210 | 210 | 355 | 360 | 390 | 390 | 390 | 420 |
| Refrigerant | Name | | R-410A | | | | | | | | | | |
| | Charge | kg | 10.3 | 11.4 | 12.4 | 13.5 | 14.6 | 21.7 | 22.8 | 23.8 | 24.9 | 26.0 | 27.0 |
| | Control | | electronic expansion valve | | | | | | | | | | |
| Refrigerant oil | Type | | synthetic ether oil | | | | | | | | | | |
| | Charge | l | 1.9+1.6 | 1.9+1.6 | 1.9+1.6 | 1.9+1.6+1.6 | 1.9+1.6+1.6 | (2x1.9)+(2x1.6) | (2x1.9)+(2x1.6) | (2x1.9)+(2x1.6) | (2x1.9)+(3x1.6) | (2x1.9)+(3x1.6) | (2x1.9)+(3x1.6) |
| Compressor | Type | | hermetically sealed scroll compressor | | | | | | | | | | |
| | Starting method | | direct on line | | | | | | | | | | |
| 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 |
| | Oil equalising | mm | - | - | - | - | - | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 |
| Operation range | Cooling | °CDB | -5 ~ 43 | -5 ~ 43 | -5 ~ 43 | -5 ~ 43 | -5 ~ 43 | -5 ~ 43 | -5 ~ 43 | -5 ~ 43 | -5 ~ 43 | -5 ~ 43 | -5 ~ 43 |
| | Heating | °CWB | -20 ~ 15.5 | -20 ~ 15.5 | -20 ~ 15.5 | -20 ~ 15.5 | -20 ~ 15.5 | -20 ~ 15.5 | -20 ~ 15.5 | -20 ~ 15.5 | -20 ~ 15.5 | -20 ~ 15.5 | -20 ~ 15.5 |
| Power supply | | W1 | 3~, 50Hz, 380-415V | | | | | | | | | | |
| Safety devices | | | HPS, fan motor overcurrent protector, inverter overload protector, overcurrent relay, PC board fuse | | | | | | | | | | |



| REYQ-M8 | | | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 | |
|---|----------------|------|---|---------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Modules | REYQ8M8 | | | | | | | | | | | | |
| | REYQ10M8 | | | | ●● | ●● | ● | ● | ● | | | | |
| | REYQ12M8 | | | | | | ● | | | ● | | | |
| | REYQ14M8 | | ● | | ● | | | ● | | | ● | | |
| | REYQ16M8 | | ● | ●● | | ● | ● | ● | ●● | ●● | ●● | ●●● | |
| Number of outdoor units* | | | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Equivalent horsepower | | | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 | |
| Cooling capacity** | | | kW | 84.50 | 89.00 | 96.00 | 101.00 | 106.00 | 113.00 | 117.00 | 123.00 | 129.00 | 134.00 |
| Heating capacity** | | | kW | 95.00 | 100.00 | 108.00 | 113.00 | 119.00 | 127.00 | 132.00 | 138.00 | 145.00 | 150.00 |
| Nominal input** | Cooling | kW | 29.90 | 31.20 | 32.20 | 33.60 | 35.20 | 38.90 | 40.20 | 41.80 | 45.50 | 46.90 | |
| | Heating | kW | 27.50 | 28.60 | 32.10 | 33.30 | 34.80 | 37.00 | 38.10 | 39.60 | 41.80 | 42.90 | |
| EER** | Cooling | | 2.83 | 2.85 | 2.98 | 3.01 | 3.01 | 2.90 | 2.91 | 2.94 | 2.84 | 2.86 | |
| COP** | Heating | | 3.45 | 3.50 | 3.36 | 3.39 | 3.42 | 3.43 | 3.46 | 3.48 | 3.47 | 3.50 | |
| Max. number of connectable indoor units | | | 32 | 32 | 34 | 36 | 38 | 40 | 40 | 40 | 40 | 40 | |
| Minimum capacity index | | | 375 | 400 | 425 | 450 | 475 | 500 | 525 | 550 | 575 | 600 | |
| Maximum capacity index - 130 % | | | 975 | 1,040 | 1,105 | 1,170 | 1,235 | 1,300 | 1,365 | 1,430 | 1,495 | 1,560 | |
| Capacity steps | | | 51 | 51 | 56 | 56 | 56 | 61 | 61 | 61 | 68 | 68 | |
| Dimensions | Height | mm | 1,600 | 1,600 | 1,600 | 1,600 | 1,600 | 1,600 | 1,600 | 1,600 | 1,600 | 1,600 | |
| | Width | mm | 2,480 | 2,480 | 3,100 | 3,100 | 3,410 | 3,410 | 3,410 | 3,720 | 3,720 | 3,720 | |
| | Depth | mm | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | |
| Weight | | | kg | 680 | 680 | 830 | 830 | 880 | 925 | 925 | 975 | 1,020 | |
| Casing | | | painted galvanised steel | | | | | | | | | | |
| Colour | | | ivory white | | | | | | | | | | |
| Sound pressure level | | | dB(A) | 63.0 | 63.0 | 64.0 | 64.0 | 64.0 | 64.0 | 64.0 | 65.0 | 65.0 | 65.0 |
| Sound power level | | | dB(A) | 83.0 | 83.0 | 84.0 | 84.0 | 84.0 | 84.0 | 84.0 | 85.0 | 85.0 | 85.0 |
| Fan | | | propeller fan | | | | | | | | | | |
| Air flow rate | | | | 420 | 420 | 570 | 570 | 600 | 600 | 600 | 630 | 630 | 630 |
| Refrigerant | | | R-410A | | | | | | | | | | |
| Name | | | | | | | | | | | | | |
| Charge | | | kg | 28.1 | 29.2 | 36.3 | 37.4 | 38.4 | 39.5 | 40.6 | 41.6 | 42.7 | 43.8 |
| Control | | | electronic expansion valve | | | | | | | | | | |
| Refrigerant oil | | | synthetic ether oil | | | | | | | | | | |
| Type | | | | | | | | | | | | | |
| Charge | | | l | (2x1.9)+(4x1.6) | (2x1.9)+(4x1.6) | (3x1.9)+(4x1.6) | (3x1.9)+(4x1.6) | (3x1.9)+(4x1.6) | (3x1.9)+(5x1.6) | (3x1.9)+(5x1.6) | (3x1.9)+(5x1.6) | (3x1.9)+(6x1.6) | (3x1.9)+(6x1.6) |
| Compressor | | | hermetically sealed scroll compressor | | | | | | | | | | |
| Type | | | | | | | | | | | | | |
| Starting method | | | direct on line | | | | | | | | | | |
| 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 | |
| | Oil equalising | mm | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | |
| Operation range | Cooling | °CDB | -5 ~ 43 | -5 ~ 43 | -5 ~ 43 | -5 ~ 43 | -5 ~ 43 | -5 ~ 43 | -5 ~ 43 | -5 ~ 43 | -5 ~ 43 | -5 ~ 43 | |
| | Heating | °CWB | -20 ~ 15.5 | -20 ~ 15.5 | -20 ~ 15.5 | -20 ~ 15.5 | -20 ~ 15.5 | -20 ~ 15.5 | -20 ~ 15.5 | -20 ~ 15.5 | -20 ~ 15.5 | -20 ~ 15.5 | |
| Power supply | | | W1 | 3 ~, 50Hz, 380-415V | | | | | | | | | |
| Safety devices | | | HPS, fan motor overcurrent protector, inverter overload protector, overcurrent relay, PC board fuse | | | | | | | | | | |

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





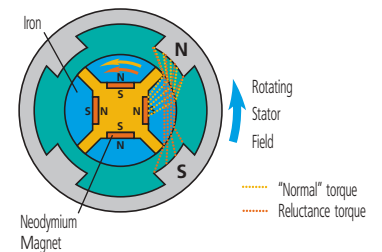
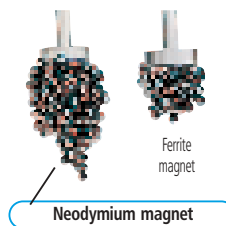
3. VRV-WII

1 VRV-WII Technology

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.
- **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
- The motor comprises powerful neodymium magnets, that create the reluctance torque.

These magnets are approximately 12 times stronger than ferrite magnets and make a major contribution to its energy saving characteristics.



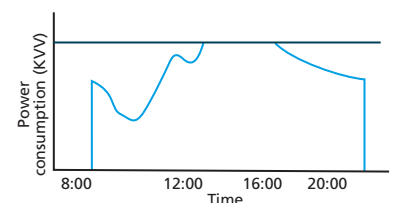
2 Sine Wave DC Inverter

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



3 i-Demand Function

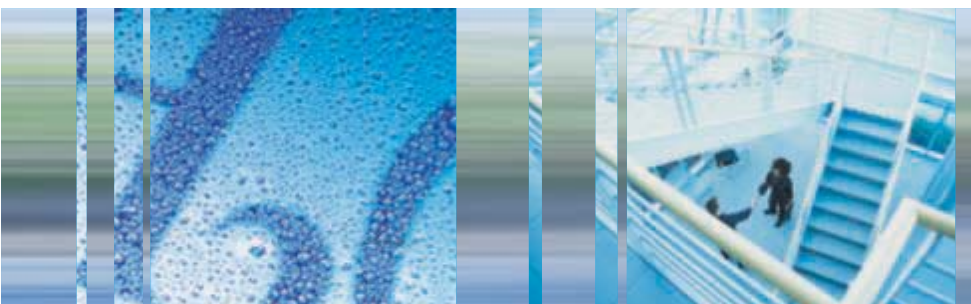
The newly introduced current sensor minimizes the difference between the actual power consumption and the predefined power consumption.



2 VRV-WII HEAT PUMP / HEAT RECOVERY

| VRV-WII | | HEAT PUMP | | | HEAT RECOVERY | | | |
|--|-------------------------|---|---------------------------------------|----------------|---|---------------------------------------|----------------|----------------|
| | | RWEYQ10M | RWEYQ20M | RWEYQ30M | RWEYQ10M | RWEYQ20M | RWEYQ30M | |
| Nominal cooling capacity | kW | 26.70 | 53.40 | 80.10 | 26.70 | 53.40 | 80.10 | |
| Nominal heating capacity | kW | 31.50 | 63.00 | 94.50 | 31.50 | 63.00 | 94.50 | |
| Capacity range | HP | 10 | 20 | 30 | 10 | 20 | 30 | |
| Power input (nominal) | Cooling | kW | 6.03 | 12.10 | 18.10 | 6.03 | 12.10 | 18.10 |
| | Heating | kW | 6.05 | 12.10 | 18.20 | 6.05 | 12.10 | 18.20 |
| COP | Cooling | | 4.43 | 4.41 | 4.43 | 4.43 | 4.41 | 4.43 |
| | Heating | | 5.21 | 5.21 | 5.19 | 5.21 | 5.21 | 5.19 |
| Max n° of indoor units to be connected | | 16 | 20 | 32 | 16 | 20 | 32 | |
| Minimum capacity index | | 125 | 250 | 375 | 125 | 250 | 375 | |
| Maximum capacity index | | 325 | 650 | 975 | 325 | 650 | 975 | |
| Power supply | Y1 | 3 ~, 50Hz, 380-415V | | | 3 ~, 50Hz, 380-415V | | | |
| Dimensions | Height | mm | 1,000 | * | * | 1,000 | * | * |
| | Width | mm | 780 | * | * | 780 | * | * |
| | Depth | mm | 550 | * | * | 550 | * | * |
| Weight | kg | 150 | 150+150 | 150+150+150 | 150 | 150+150 | 150+150+150 | |
| Colour | | Ivory white (5Y75/1) | | | Ivory white (5Y75/1) | | | |
| Sound pressure levels | dB(A) | 51.0 | 54.0 | 56.0 | 51.0 | 54.0 | 56.0 | |
| Sound power levels | dB(A) | ** | ** | ** | ** | ** | ** | |
| Fan | Type | | ** | ** | ** | ** | ** | |
| | Air Flow Rate (nominal) | m³/min | ** | ** | ** | ** | ** | |
| Refrigerant | Name | | R-410A | | | R-410A | | |
| | Charge | kg | 5.2 | 5.2+5.2 | 5.2+5.2+5.2 | 5.2 | 5.2+5.2 | 5.2+5.2+5.2 |
| | Control | | Expansion valve (electronic type) | | | Expansion valve (electronic type) | | |
| Refrigerant Oil | Type | | Synthetic (ether) oil | | | Synthetic (ether) oil | | |
| | Charged Volume | l | ** | ** | ** | ** | ** | ** |
| Compressor | Quantity | | 1 | 2 | 3 | 1 | 2 | 3 |
| | Type | | Hermetically sealed scroll compressor | | | Hermetically sealed scroll compressor | | |
| | Starting method | | Soft start | | | Soft start | | |
| Piping Connections | Liquid | mm | 9.52 (flare) | 15.9 (flare) | 19.1 (flare) | 9.52 (flare) | 15.9 (flare) | 19.1 (flare) |
| | Discharge gas | mm | 22.2 (brazing) | 28.6 (brazing) | 34.9 (brazing) | 19.1 (brazing) | 22.2 (brazing) | 28.6 (brazing) |
| | Gas | mm | - | - | - | 22.2 (brazing) | 28.6 (brazing) | 34.9 (brazing) |
| Safety devices | | HPS, inverter overload protector, fusible plugs | | | HPS, inverter overload protector, fusible plugs | | | |

- 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
 - This unit should not be installed outdoors, but indoors eg. in a machine room, etc.
 - Indoor operating ambient temperature: 0 ~ 40°C. Heat rejection from the outdoor unit: 0,71kW/10HP
 - *Dimensions of 20HP and 30HP units depend on the method of stacking
 - **Data were not available at the time of publication



4. ACCESSORIES

| VRVIII COOLING ONLY | RXQ5P | RXQ8-10P | RXQ12-18P |
|-----------------------|------------|------------|------------|
| Fixing box | KJB111A | | |
| REFNET header | KHRQ22M29H | KHRQ22M29H | KHRQ22M29H |
| | - | - | KHRQ22M64H |
| REFNET joint | KHRQ22M20T | KHRQ22M20T | KHRQ22M20T |
| | - | KHRQ22M29T | KHRQ22M29T |
| | - | - | KHRQ22M64T |
| Central drain pan kit | KWC26B160 | KWC26B280 | KWC26B450 |

| VRVIII HEAT PUMP | RXYQ5P | RXYQ8-10P | RXYQ12-18P | RXYQ20-54P |
|--|-------------|------------|------------|-------------|
| Cool/heat selector | KKRC19-26A6 | | | |
| Fixing box | KJB111A | | | |
| REFNET header | KHRQ22M29H | KHRQ22M29H | KHRQ22M29H | KHRQ22M29H |
| | - | - | KHRQ22M64H | KHRQ22M64H |
| | - | - | - | KHRQ22M75H |
| REFNET joint | KHRQ22M20T | KHRQ22M20T | KHRQ22M20T | KHRQ22M20T |
| | - | KHRQ22M29T | KHRQ22M29T | KHRQ22M29T |
| | - | - | KHRQ22M64T | KHRQ22M64T |
| | - | - | - | KHRQ22M75T |
| Outdoor unit multi piping connection kit for 2 outdoor units | - | - | - | BHFQ22P1007 |
| Outdoor unit multi piping connection kit for 3 outdoor units | - | - | - | BHFQ22P1517 |
| Central drain pan kit | KWC26B160 | KWC26B280 | KWC26B450 | cf. note 2 |

1 All options are kits

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



| VRV-II HEAT RECOVERY | REYQ8-10M8 | REYQ12-16M8 | REYQ18-48M8 |
|--|-------------------|--------------------|--------------------|
| REFNET header | KHRQ23M29H | KHRQ23M29H | KHRQ23M29H |
| | - | KHRQ23M64H | KHRQ23M64H |
| | - | - | KHRQ23M75H |
| REFNET joint | KHRQ23M20T | KHRQ23M20T | KHRQ23M20T |
| | KHRQ23M29T | KHRQ23M29T | KHRQ23M29T |
| | - | KHRQ23M64T | KHRQ23M64T |
| | - | - | KHRQ23M75T |
| Outdoor unit multi piping connection kit - 2 units | - | - | BHFQ23M90 |
| Outdoor unit multi piping connection kit - 3 units | - | - | BHFQ23M135 |
| Central drain pan kit | KWC26B280 | KWC26B450 | cf. note 2 |

1 All options are kits

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

| VRV-II HEAT PUMP | RWEYQ10M | RWEYQ20M | RWEYQ30M |
|---|-----------------|--------------------|-----------------|
| Cool/heat selector | | KRC19-26A | |
| Fixing box | | KJB111A | |
| REFNET header | KHRQ22M29H | KHRQ22M29H | KHRQ22M29H |
| | - | KHRQ22M64H | KHRQ22M64H |
| | - | KHRQ22M75H | KHRQ22M75H |
| REFNET joint | KHRQ22M20T | KHRQ22M20T | KHRQ22M20T |
| | KHRQ22M29T | KHRQ22M29T | KHRQ22M29T |
| | - | KHRQ22M64T | KHRQ22M64T |
| | - | KHRQ22M75T | KHRQ22M75T |
| Outdoor unit multi piping connection kit | - | BHFP22MA56 | BHFP22MA84 |
| Strainer kit | | BWU26A15, BWU26A20 | |
| External control adapter for outdoor unit | | DTA104A62 | |

| VRV-II HEAT RECOVERY | RWEYQ10M | RWEYQ20M | RWEYQ30M |
|---|-----------------|--------------------|-----------------|
| Fixing box | | KJB111A | |
| REFNET header | KHRQ23M29H | KHRQ23M29H | KHRQ23M29H |
| | - | KHRQ23M64H | KHRQ23M64H |
| | - | KHRQ23M75H | KHRQ23M75H |
| REFNET joint | KHRQ23M20T | KHRQ23M20T | KHRQ23M20T |
| | KHRQ23M29T | KHRQ23M29T | KHRQ23M29T |
| | - | KHRQ23M64T | KHRQ23M64T |
| | - | KHRQ23M75T | KHRQ23M75T |
| Outdoor unit multi piping connection kit | - | BHFP26MA56 | BHFP26MA84 |
| Strainer kit | | BWU26A15, BWU26A20 | |
| External control adapter for outdoor unit | | DTA104A62 | |

| BS BOX | BSVQ100M | BSVQ160M | BSVQ250M | |
|--|------------------------|------------------------------------|------------------------------------|---------------|
| Total capacity of connectable indoor units | $x \leq 100$ | $100 \text{ } \text{Æ} x \leq 160$ | $160 \text{ } \text{Æ} x \leq 250$ | |
| Maximum number of connectable indoor units | 5 | 8 | 5 | |
| Casing | galvanised steel plate | | | |
| Dimensions | HxWxD | mm | 185x310x280 | |
| Weight | | kg | 9 | |
| Piping connections | indoor unit | liquid/gas | mm | 9.5/15.9 |
| | outdoor unit | liquid/suction gas/discharge gas | mm | 9.5/15.9/12.7 |
| Safety devices | | | PCB fuse | |
| Cool/heat selector | | | KRC19-26A | |
| Fixing box | | | KJB111A | |

Indoor Units

1. FEATURES

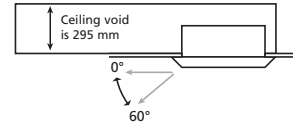
FXZQ-M8

20-25-32-40-50



COMFORT

- Modern style decoration panel in white (RAL9010)
- Extremely quiet in operation
- Excellent low draught characteristics. Since the flaps can move to a 0° position, virtually no draught can be experienced



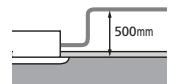
- Any one of 5 different air flow patterns can be freely selected between 0° and 60° and will then be maintained during the operational cycle of the air conditioner

FLEXIBLE INSTALLATION AND EASY MAINTENANCE

- Thanks to the compact casing, it matches standard architectural modules of 600 x 600mm, therefore ceiling tile cutting is no longer necessary
- Air can be discharged in any of 4 directions.
- Possibility to shut 1 or 2 flaps for easy installation in corners



- Since the switch box is located within the unit, it is easy to access from below for maintenance without removing ceiling tiles
- Drain-up pump with 500mm lift fitted as standard



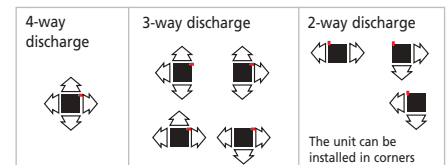
FXFQ-M8

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



COMFORT

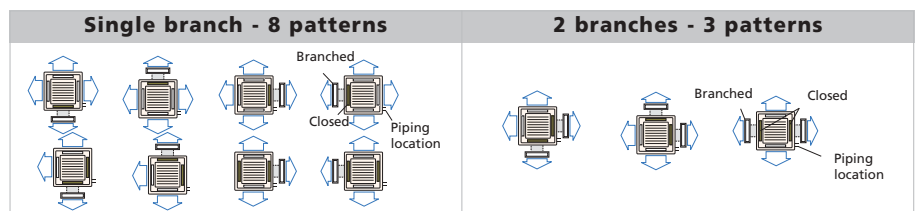
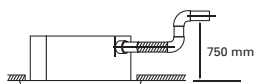
- Quiet in operation
- Air flow distribution to suit ceiling heights up to 4.2m for model 80 and above
- Air can be discharged in any of 4 directions
- Possibility to use 1 or 2 branches for better air distribution
- Equipped with special draught prevention and anti-ceiling soiling technology



■ ... indicates the piping connection direction

FLEXIBLE INSTALLATION AND EASY MAINTENANCE

- Drain-up pump with 750mm lift fitted as standard
- Possibility to shut 1 or 2 flaps for easy installation in corners
- Easy to fit decoration panel
- Suction grille can be rotated by 90°
- Easy height adjustment via adjuster slot
- Easy to clean suction grille and filter
- 3 year cleaning cycle of the heat exchanger



COMFORT

- Quiet in operation
- Leaves maximum floor and wall space for furniture, decorations and fittings
- Automatic air flow director ensures uniform air flow and temperature distribution
- Anti-ceiling soiling technology

FILTER

- Standard long life filter

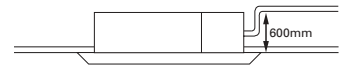
FLEXIBLE INSTALLATION AND EASY MAINTENANCE

- Easy installation in false ceilings of only 355mm

- Drain-up pump with 600mm lift fitted as standard



- Maintenance can be performed by simply removing the front panel
- Easy to clean flat suction grille
- Detachable swing flaps



FXCQ-M8

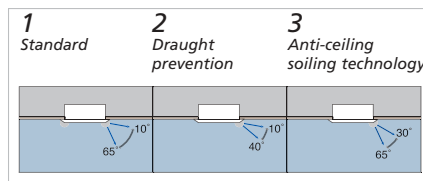
20-25-32-40-50-63-80-125



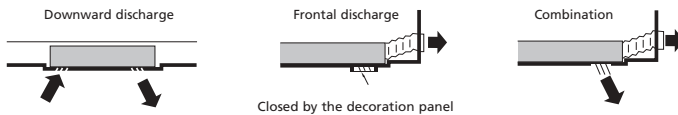
COMFORT

- Equipped with special draught prevention and anti-ceiling soiling technology

- Automatic air flow director ensures uniform air flow and temperature distribution

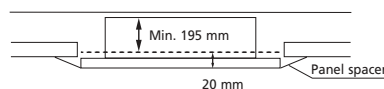


- Air flow by either downward air discharge, frontal discharge or a combination of both

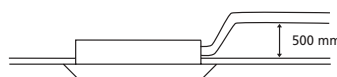


FLEXIBLE INSTALLATION

- Compact dimensions, can easily be mounted in a narrow ceiling void (only 220mm ceiling space required, 195 with panel spacer, available as accessory)



- Drain-up pump with 500mm lift fitted as standard



FXKQ-MA

20-32-40-63



FXDQ-M8

20-25



COMFORT

- Designed for hotel bedrooms
- Blends unobtrusively with any interior décor: only the suction and discharge grilles are visible
- Extremely quiet in operation

FILTER

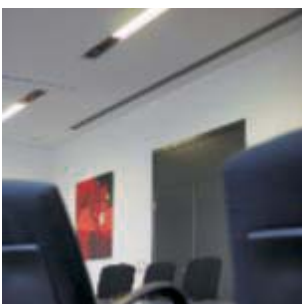
- Air suction filter fitted as standard

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

FXDQ-P/NA

20-25-32-40-50-63

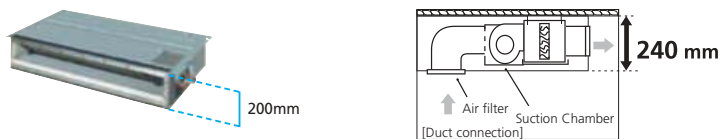


COMFORT

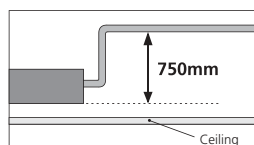
- Quiet in operation
- Blends unobtrusively with any interior décor
- Leaves maximum floor and wall space for furniture, decorations and fittings

FLEXIBLE INSTALLATION

- Slim design, can easily be mounted in a ceiling void of only 240mm



- Can be installed in both new and existing buildings
- Medium external static pressure facilitates unit use with flexible ducts of varying lengths
- Drain-up pump with 750mm lift fitted as standard



COMFORT

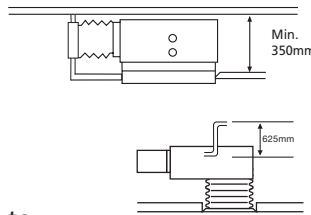
- High flexibility for a wide variety of applications
- Quiet in operation
- Blends unobtrusively with any interior décor

FILTER

- Long life filter fitted as standard
- High efficiency filters (65% and 95%) available as accessory

FLEXIBLE INSTALLATION AND EASY MAINTENANCE

- High external static pressure facilitates unit use with flexible ducts of varying lengths
- When using suction panel, unit requires only 350mm of ceiling space
- Drain-up pump with 625mm lift fitted as standard
- The air suction direction can be altered from rear to bottom suction
- The switch box can be reached from the side or from the bottom side of the unit for easy servicing



FXSQ-M8

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

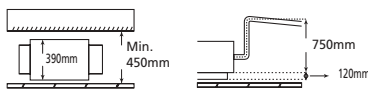


COMFORT

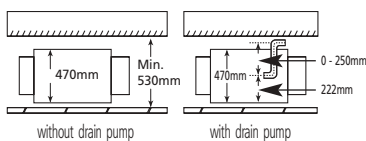
- Leaves maximum floor and wall space for furniture, decorations and fittings

FLEXIBLE INSTALLATION

- More than 150 Pa external static pressure allows extensive ductwork runs and flexible application: ideal for use in large areas
- Drain-up pump with 750mm lift available as accessory for class 40-125



- External static pressure can be easily adjusted using a change-over switch inside the electrical box to meet the resistance in the duct system
- Built-in drain pump (accessory): housing the drain pump inside the unit (class 200 & 250) has reduced the required installation space



FXMQ-MA

40-50-63-80-100-125
200-250



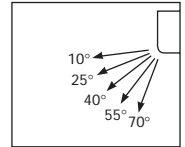
FXAQ-MA

20-25-32-40-50-63



COMFORT

- Compact and stylish design blends unobtrusively in any interior décor
- Automatic air flow director ensures efficient air distribution via louvers that close automatically when the unit is switched off
- 5 different discharge angles can be programmed via the remote control
- Discharge angle automatically returns to its previous position on restart (initial setting 10 degrees for cooling and 70 degrees for heating)

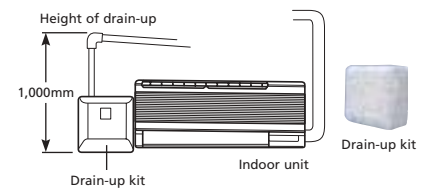
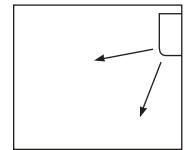


FILTER

- Mildew proof polystyrene filter and drain pan

FLEXIBLE INSTALLATION AND EASY MAINTNANCE

- 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
- Drain-up pump with 1,000mm lift available as accessory
- Drain pipe can be fitted either to the left or right side of the unit



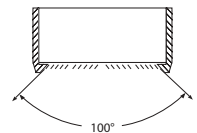
FXHQ-MA

32-63-100



COMFORT

- Quiet in operation
- Leaves maximum floor and wall space for furniture, decorations and fittings
- Enhanced horizontal and vertical air circulation in all directions thanks to an air flow pattern of 100°

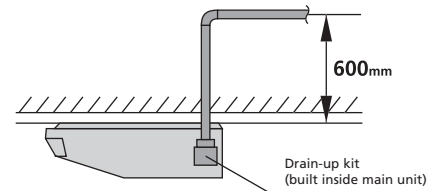


FILTER

- Long life filter fitted as standard

FLEXIBLE INSTALLATION AND EASY MAINTNANCE

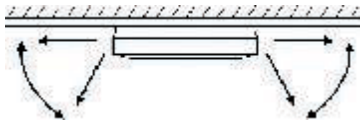
- Can be installed in both new and existing buildings
- The ideal solution for installation without false ceilings
- Drain-up pump with 600mm lift available as accessory



- Maintenance can be performed easily from below the unit
- Bristle free flap makes cleaning easier

COMFORT

- Group control with other VRV indoor units possible
- Cool heat selection
- Prevention of cold draught at hot start, defrost and oil return in heating
- Air can be discharged in any of 4 directions
- Air can be discharged at 5 different angles between 0 and 60 degrees



- Automatic air flow director ensures efficient air and temperature distribution.
- Air flow distribution for ceiling heights up to 3.5m without loss of capacity.

FILTER

- Air filter, drain pan and heat exchanger fin are mildew proof and anti-bacterial treated

FLEXIBLE INSTALLATION

- Ideal for installation in new and existing buildings
- 5m maximum distance between FXUQ unit and junction box
- Possibility to shut 1 or 2 flaps for easy installation in corners



- Drain-up pump with 500mm lift fitted as standard

FXUQ-MA

71-100-125



FXLQ-MA

20-25-32-40-50-63



COMFORT

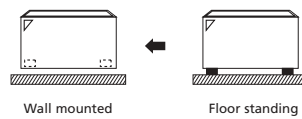
- Ideal for installation beneath a window
- Compact dimensions (only 222mm deep and 600mm high)
- All models are available with remote control

FILTER

- Long life filter fitted as standard

FLEXIBLE INSTALLATION & EASY MAINTENANCE

- Running the pipes from connections at the back, enables the unit to be wall mounted



- On site connection during installation is easier
- The fibreless discharge grille prevents condensation and staining

FXNQ-MA

20-25-32-40-50-63



COMFORT

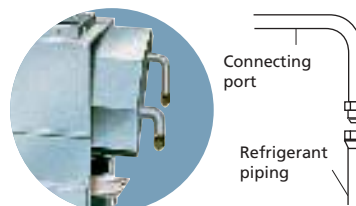
- Ideal for perimeter air conditioning
- Ideal for installation below a window
- All models are available with remote control

FILTER

- Long life filter fitted as standard

FLEXIBLE INSTALLATION

- On site connection during installation is easier
- The connecting port faces downward, eliminating the need to attach auxiliary piping



2. SPECIFICATIONS

FXZQ-M8

4-way blow ceiling mounted cassette (600 mm x 600 mm)

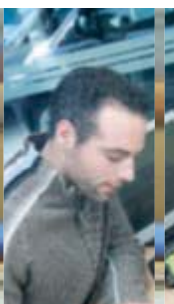


| FXZQ-M8 | | | 20 | 25 | 32 | 40 | 50 |
|----------------------------------|--------------------|---------------------|-------------------------------|---------|---------|----------|-----------|
| Cooling capacity | | kW | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 |
| Heating capacity | | kW | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 |
| Nominal input | Cooling | W | 73 | 73 | 76 | 89 | 115 |
| | Heating | W | 64 | 64 | 68 | 80 | 107 |
| Dimensions (HxWxD) | | mm | 286x575x575 | | | | |
| Weight | | kg | 18 | | | | |
| Casing | | | galvanised steel plate | | | | |
| Air flow rate (H/L) | | m ³ /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 (HxWxD) | mm | 55x700x700 | | | | |
| | 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: 75m (horizontal)
 - Nominal heating capacities are based on: indoor temperature: 20°CDB • outdoor temperature: 7°CDB, 6°CWB • equivalent piping length: 75m (horizontal)
 - Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat

ACCESSORIES

| FXZQ-M8 | | | 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 | | | | | KDBH44B60 | | |
| Panel spacer | | | | | KDBQ44B60 | | |
| Replacement long life filter | | | | | KAFQ441B60 | | |
| Fresh air intake kit | Direct installation type | | | | KDDQ44X60 | | |



FXFQ-M8



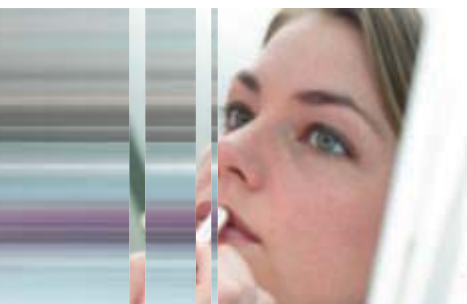
4-way blow ceiling mounted cassette

| FXFQ-M8 | | | 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 | W | 90 | 90 | 90 | 97 | 106 | 118 | 173 | 184 | 230 |
| | Heating | W | 75 | 75 | 75 | 82 | 90 | 101 | 159 | 169 | 215 |
| Dimensions (HxWxD) | mm | | 230x840x840 | | | | | | 288x840x840 | | |
| Weight | kg | | 24 | | | | | | 28 | | |
| Casing | | | galvanised steel plate | | | | | | | | |
| Air flow rate (H/L) | m ³ /min | | 13/10 | 13/10 | 13/10 | 14/10 | 16/11 | 18/14 | 28/20 | 28/21 | 31/24 |
| Sound pressure level (H/L) | dB(A) | | 31/28 | 31/28 | 31/28 | 32/28 | 33/28 | 34/29 | 38/32 | 40/33 | 45/36 |
| Sound power level | dB(A) | | 48 | 48 | 48 | 49 | 50 | 51 | 54 | 56 | 61 |
| 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 | | 750 | | | | | | | | |
| Power supply | V3 | | 1~, 50Hz, 230V | | | | | | | | |
| Decoration panel | Dimensions (HxWxD) | mm | 40x950x950 | | | | | | | | |
| | Weight | kg | 5 | | | | | | | | |
| | 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
 - The sound pressure is measured in an anechoic room at 1m distance from the unit. It is a relative value, depending on the distance and acoustic environment
 - The sound power level is an absolute value indicating of the "power" which a sound source generates

ACCESSORIES

| FXFQ-M8 | | | 20 | 25 | 32 | 40 | 50 | 63 | 80 | 100 | 125 |
|-------------------------------------|--------------------------|---------------------------|-----------|----|----|----|----|------------|--------------|-----|-----|
| Wired remote control | | | BRC1D52 | | | | | | | | |
| Infrared remote control | Cooling only | | BRC7C513 | | | | | | | | |
| | Heat pump | | BRC7C512 | | | | | | | | |
| Decoration panel | | | BYC125K | | | | | | | | |
| High efficiency filter 65% | Colorimetric method | | KAF556K80 | | | | | | KAF556K160 | | |
| High efficiency filter 90% | Colorimetric method | | KAF557K80 | | | | | | KAF557K160 | | |
| Replacement high eff. filter 65% | Colorimetric method | | KAF552K80 | | | | | | KAF552K160 | | |
| Replacement high eff. filter 90% | Colorimetric method | | KAF553K80 | | | | | | KAF553K160 | | |
| Filter chamber for above | | | | | | | | | KDDJ55K160 | | |
| Replacement long life filter | Non woven type | | | | | | | | KAFJ55K160 | | |
| Replacement ultra long life filter | | | | | | | | | KAFJ551K160H | | |
| Fresh air intake kit | Chamber type | without T-shape and fan | | | | | | | KDDJ55B160 | | |
| | | with T-shape and fan | | | | | | | KDDJ55B160F | | |
| | | with T-shape, without fan | | | | | | | KDDJ55B160K | | |
| | Direct installation type | | | | | | | KDDJ55K160 | | | |
| Air discharge outlet sealing member | | | | | | | | | KDBHJ55K160 | | |
| Panel spacer | | | | | | | | | KDBP55H160W | | |
| Branch duct chamber | | | KDJ55B80 | | | | | | KDJ55B160 | | |
| Chamber connection kit | | | | | | | | | KKSJ55K160 | | |



FXCQ-M8

p. 53

2 - way blow ceiling mounted cassette



| 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 | W | 77 | 92 | 92 | 130 | 130 | 161 | 256 |
| | Heating | W | 44 | 59 | 59 | 97 | 97 | 126 | 223 |
| Dimensions (HxWxD) | mm | 305x780x600 | | | 305x995x600 | | 305x1180x600 | 305x1670x600 | |
| 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 (HxWxD) | mm | 53x1030x680 | | 53x1245x680 | | 53x1430x680 | 53x1920x680 | |
| | 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 | | KDDF53G36 | | KDDF53G56 | | KDDF53G80 | KDDF53G160 | | |
| Replacement long life filter | | KAFJ531G36 | | KAFJ531G56 | | KAFJ531G80 | KAFJ531G160 | | |

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



FXKQ-MA

Ceiling mounted corner cassette



| 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 | W | 66 | 66 | 76 | 105 |
| | Heating | W | 46 | 46 | 56 | 85 |
| Dimensions (HxWxD) | | mm | 215x110x710 | | | 215x1310x710 |
| 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 | 70x1240x800 | | | 70x1440x800 |
| | 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
 • *Data were not available at time of publication

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-M8

p. 55

Small concealed ceiling unit



| FXDQ-M8 | | | 20 | 25 |
|----------------------------|------------|---------------------|-------------------------------|---------|
| Cooling capacity | | kW | 2.2 | 2.8 |
| Heating capacity | | kW | 2.5 | 3.2 |
| Nominal input | Cooling | W | 50 | |
| | Heating | W | 50 | |
| Dimensions (HxWxD) | | mm | 230x502x652 | |
| Weight | | kg | 17 | |
| Casing | | | galvanised steel plate | |
| Air flow rate (H/L) | | m ³ /min | 6.7/5.2 | 7.4/5.8 |
| 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 | |

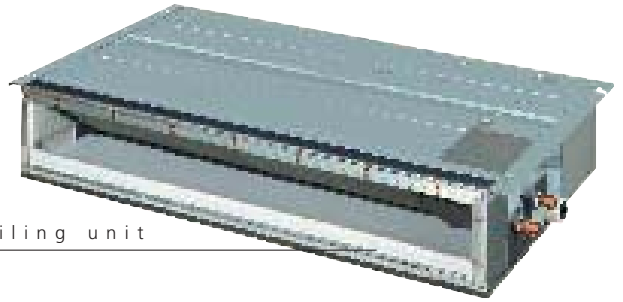
Notes : • Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB • outdoor temperature: 35°CDB • equivalent refrigerant piping: 8m • level difference : 0m
 • Nominal heating capacities are based on: indoor air temperature: 20°CDB • outdoor temperature: 7°CDB, 6°CWB • equivalent refrigerant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

ACCESSORIES

| FXDQ-M8 | | | 20 | 25 |
|-------------------------|---------|--|---------------------------|----|
| Wired remote control | | | BRC1D52, BRC2C51, BRC3A61 | |
| Infrared remote control | Cooling | | BRC4C64 | |
| | Heating | | BRC4C62 | |



FXDQ-P/NA



Slim concealed ceiling unit

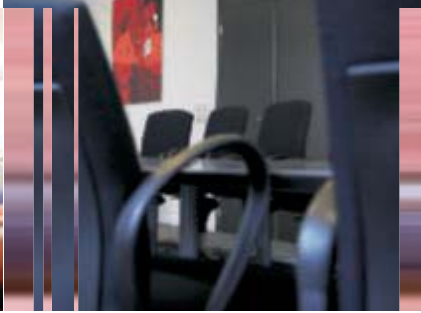
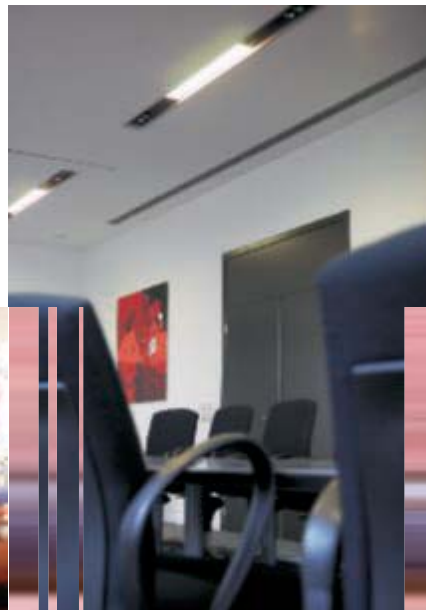
| | | FXDQ20P | FXDQ25P | FXDQ32P | FXDQ40NA | FXDQ50NA | FXDQ63NA | |
|----------------------------|------------|---------------------|-----------------------------------|---------|----------|-------------|-----------|--------------|
| Cooling capacity | | kW | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 |
| Heating capacity | | kW | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 |
| Nominal input | cooling | W | 86 | 86 | 89 | 160 | 165 | 181 |
| | heating | W | 67 | 67 | 70 | 70 | 152 | 168 |
| Dimensions (HxWxD) | | mm | 200x700x620 | | | 200x900x620 | | 200x1100x620 |
| Weight | | kg | 23 | 23 | 23 | 27 | 28 | 31 |
| Casing | | | galvanised steel plate | | | | | |
| Air flow rate (H/L) | | m ³ /min | 8.0/6.4 | 8.0/6.4 | 8.0/6.4 | 10.5/8.5 | 12.5/10.0 | 16.5/13.0 |
| Sound pressure level (H/L) | | dB(A) | 33/29 | 33/29 | 33/29 | 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: 75m (horizontal)
- Nominal heating capacities are based on: • Indoor temperature: 20°CDB • Outdoor temperature: 7°CDB, 6°CWB • Equivalent piping length: 75m (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
- * Data were not available at time of publication

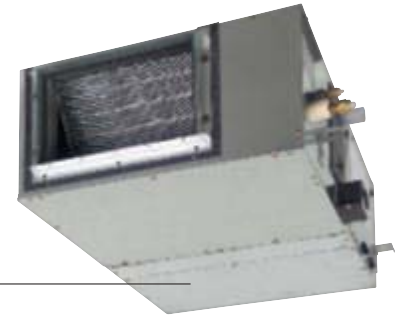
ACCESSORIES

| | | FXDQ20P | FXDQ25P | FXDQ32P | FXDQ40NA | FXDQ50NA | FXDQ63NA |
|-------------------------|--------------|---------|---------|---------|----------|----------|----------|
| Wired remote control | | | | | BRC1D52 | | |
| Infrared remote control | Cooling only | | | | BRC4C64 | | |
| | Heat pump | | | | BRC4C62 | | |



FXSQ-M8

p. 57



Concealed ceiling unit

| FXSQ-M8 | | | 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 | W | 110 | 110 | 114 | 127 | 143 | 189 | 234 | 242 | 321 | |
| | Heating | W | 90 | 90 | 94 | 107 | 123 | 169 | 214 | 222 | 301 | |
| Dimensions (HxWxD) | | mm | 300x550x800 | | | 300x700x800 | | 300x1,000x800 | | 300x1,400x800 | | |
| Weight | | kg | 30 | 30 | 30 | 30 | 31 | 41 | 51 | 51 | 52 | |
| Casing | | | galvanised steel plate | | | | | | | | | |
| Air flow rate (H/L) | | m ³ /min | 9/6.5 | 9/6.5 | 9.5/7 | 11.5/9 | 15/11 | 21/15.5 | 27/20 | 28/20.5 | 38/28 | |
| Sound pressure level (H/L) | | dB(A) | 32/28 | 32/28 | 33/28 | 33/29 | 35/31 | 35/30 | 37/31 | 38/33 | 40/35 | |
| Sound power level | | dB(A) | 50 | 50 | 51 | 56 | 58 | 56 | 55 | 56 | 65 | |
| 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 | 625 | | | | | | | | | |
| Power supply | | V3 | 1~, 50Hz, 230V | | | | | | | | | |
| Decoration panel | Dimensions (HxWxD) | mm | 55x650x500 | | | 55x800x500 | | 55x1,000x500 | | 55x1,500x500 | | |
| | Weight | kg | 3 | | | 3.5 | | 4.5 | | 6.5 | | |
| | 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
 • The sound pressure values are mentioned for a unit installed with rear suction

ACCESSORIES

| FXSQ-M8 | | | 20 | 25 | 32 | 40 | 50 | 63 | 80 | 100 | 125 | |
|--------------------------------------|--------------|--|---------------------------|----|----|------------|----|------------|----|-------------|-----|--|
| Wired remote control | | | BRC1D52, BRC2C51, BRC3A61 | | | | | | | | | |
| Infrared remote control | Cooling only | | BRC4C64 | | | | | | | | | |
| | Heat pump | | BRC4C62 | | | | | | | | | |
| Decoration panel | | | BYBS32D | | | BYBS45D | | BYB571D | | BYB5125D | | |
| Service access panel | | | KTB125K36W | | | KTB125K56W | | KTB125K80W | | KTB125K160W | | |
| High efficiency filter 65% *1 | | | KAH252L36 | | | KAH252L56 | | KAH252L80 | | KAH252L160 | | |
| High efficiency filter 90% *1 | | | KAH253L36 | | | KAH253L56 | | KAH253L80 | | KAH253L160 | | |
| Filter chamber for bottom suction | | | KAJ25L36D | | | KAJ25L56D | | KAJ25L80D | | KAJ25L160D | | |
| Filter chamber rear suction | | | KAJ25L36B | | | KAJ25L56B | | KAJ25L80B | | KAJ25L160B | | |
| Air suction canvas | | | KSA-25K36 | | | KSA-25K56 | | KSA-25K80 | | KSA-25K160 | | |
| Screening door/blind board | | | KBB125K36 | | | KBB125K56 | | KBB125K80 | | KBB125K160 | | |
| Air discharge adapter for round duct | | | KDAJ25K36 | | | KDAJ25K56 | | KDAJ25K71 | | KDAJ25K140 | | |

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



FXMQ-MA



Large concealed ceiling unit

| FXMQ-MA | | | 40 | 50 | 63 | 80 | 100 | 125 | 200 | 250 |
|----------------------------------|------------|---------------------|------------------------|---------|---------|------------|---------------|------------|-----------------|------------|
| Cooling capacity | | kW | 4.5 | 5.6 | 7.1 | 9.0 | 11.2 | 14.0 | 22.4 | 28.0 |
| Heating capacity | | kW | 5.0 | 6.3 | 8.0 | 10.0 | 12.5 | 16.0 | 25.0 | 31.5 |
| Nominal input | cooling | W | 211 | 211 | 211 | 284 | 411 | 619 | 1,294 | 1,465 |
| | heating | W | 211 | 211 | 211 | 284 | 411 | 619 | 1,294 | 1,465 |
| Dimensions (HxWxD) | | mm | 390x720x690 | | | | 390x1,110x690 | | 470x1,380x1,100 | |
| Weight | | kg | 44 | 44 | 44 | 45 | 63 | 65 | 137 | 137 |
| Casing | | | galvanised steel plate | | | | | | | |
| Air flow rate (H/L) | | m ³ /min | 14/11.5 | 14/11.5 | 14/11.5 | 19.5/16 | 29/23 | 36/29 | 58/50 | 72/62 |
| Sound pressure level (H/L)(220V) | | dB(A) | 39/35 | 39/35 | 39/35 | 42/38 | 43/39 | 45/42 | 48/45 | 48/45 |
| Sound power level | | dB(A) | * | * | * | * | * | * | * | * |
| Refrigerant type | | | R-410A | | | | | | | |
| Piping connections | liquid/gas | mm | ø6.4/ø12.7 | | | ø9.5/ø15.9 | | ø9.5/ø19.1 | | ø9.5/ø22.2 |
| Air filter | | | cf. note 4 | | | | | | | |
| 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: 75m (horizontal)
- Nominal heating capacities are based on: indoor temperature: 20°CDB • outdoor temperature: 7°CDB, 6°CWB • equivalent refrigerant piping: 75m (horizontal)
- Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat
- The air filter is not a standard accessory, but please mount it in the duct system at the suction side. Select its colorimetric method (gravity method) 50% or more.
- *Data were not available at time of publication

ACCESSORIES

| FXMQ-MVE | | | 40 | 50 | 63 | 80 | 100 | 125 | 200 | 250 |
|------------------------------|--------------|--|---------------------------|----|----|-------------|-----|-------------|------------|-----|
| Wired remote control | | | BRC1D52, BRC2C51, BRC3A61 | | | | | | | |
| Infrared remote control | Cooling only | | BRC4C64 | | | | | | | |
| | Heat pump | | BRC4C62 | | | | | | | |
| Drain pump kit | | | KDU-30L125 | | | | | | KDU-30L250 | |
| High efficiency filter 65% | | | KAFP372A80 | | | KAFP372A160 | | KAFP372L280 | | |
| High efficiency filter 90% | | | KAFP373A80 | | | KAFP373A160 | | KAFP373L280 | | |
| Filter chamber | | | KDDFP37A80 | | | KDDFP37A160 | | KDJ3705L280 | | |
| Replacement long life filter | | | KAFP371A80 | | | KAFP371A160 | | KAFP371L280 | | |



FXAQ-MA

p. 59



Wall mounted unit

| FXAQ-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 | W | 16 | 22 | 27 | 20 | 27 | 50 |
| | Heating | W | 24 | 27 | 32 | 20 | 32 | 60 |
| Dimensions (HxWxD) | | mm | 290x795x230 | | | 290x1,050x230 | | |
| Weight | | kg | 11 | | | 14 | | |
| Colour | | | white | | | | | |
| Air flow rate (H/L) | | m ³ /min | 75/4.5 | 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 | | | | | |

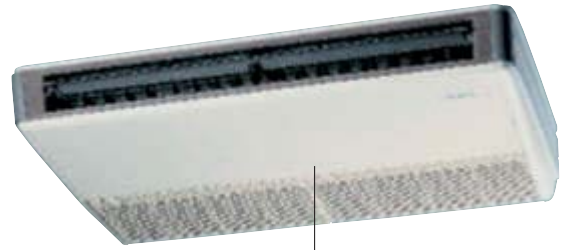
Notes: • Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB • outdoor temperature: 35°CDB • equivalent refrigerant piping: 5m (horizontal)
 • Nominal heating capacities are based on: indoor temperature: 20°CDB • outdoor temperature: 7°CDB, 6°CWB • equivalent refrigerant piping: 5m (horizontal)
 • Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat
 • *Data were not available at time of publication

ACCESSORIES

| FXAQ-MA | | | 20 | 25 | 32 | 40 | 50 | 63 |
|-------------------------|--------------|--|----|----|----|-------------|----|----|
| Wired remote control | | | | | | BRC1D52 | | |
| Infrared remote control | Cooling only | | | | | BRC7E619 | | |
| | Heat pump | | | | | BRC7E618 | | |
| Drain pump kit | | | | | | K-KDU572DVE | | |



FXHQ-MA



Ceiling suspended unit

| 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 | W | 111 | 115 | 135 |
| | heating | W | 111 | 115 | 135 |
| Dimensions (HxWxD) | | mm | 195x960x680 | 195x1160x680 | 195x1400x680 |
| 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
 • *Data were not available at time of publication

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 | | KAB501DA56 | KAB501DA80 | KAB501DA112 |
| L-type piping kit | For upward direction | | KHFPSM35 | KHFPSM63 | KHFPSM63 |



FXUQ-MA

p. 61



4 - way blow ceiling suspended unit

| 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 | W | 180 | 289 | 289 |
| | heating | W | 160 | 269 | 269 |
| Dimensions (HxWxD) | | mm | 165x895x895 | 230x895x895x | 230x895x895 |
| 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
 • Nominal heating capacities are based on: indoor temperature: 20°CDB, 15°CWB • outdoor temperature: 7°CDB, 6°CWB
 • 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 | | | | KAF495F140 | |
| L-type connection piping kit | | | KHFP49M63 | | KHFP49M140 |

JUNCTION BOX FOR CONNECTION TO VRV

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



BEVQ-MA



FXLQ-MA

Floor standing unit



| 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 | W | 49 | 49 | 90 | 90 | 110 | 110 | |
| | heating | W | 49 | 49 | 90 | 90 | 110 | 110 | |
| Dimensions (HxWxD) | | mm | 600x1,000x222 | | 600x1,140x222 | | 600x1,420x222 | | |
| Weight | | kg | 25 | | 30 | | 36 | | |
| Colour | | | ivory white | | | | | | |
| Air flow rate (H/L) | | m ³ /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
 • *Data were not available at time of publication

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 | | | KAFB361K28 | | KAFB361K45 | | KAFB361K71 | |



FXNQ-MA

Concealed floor standing unit

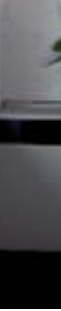
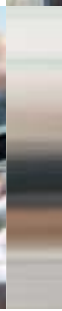


| FXNQ-MA | | | 20 | 25 | 32 | 40 | 50 | 63 | |
|----------------------------------|------------|---------------------|-------------------------------|-------|---------------|--------|---------------|------------|--|
| Cooling capacity | | kW | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | |
| Heating capacity | | kW | 2.5 | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 | |
| Nominal input | cooling | W | 49 | 49 | 90 | 90 | 110 | 110 | |
| | heating | W | 49 | 49 | 90 | 90 | 110 | 110 | |
| Dimensions (HxWxD) | | mm | 610x930x220 | | 610x1,070x220 | | 610x1,350x220 | | |
| Weight | | kg | 19 | | 23 | | 27 | | |
| Casing | | | galvanised steel plate | | | | | | |
| Air flow rate (H/L) | | m ³ /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
 • *Data were not available at time of publication

ACCESSORIES

| FXNQ-MA | | | 20 | 25 | 32 | 40 | 50 | 63 |
|------------------------------|--------------|--|---------------------------|----|------------|----|------------|----|
| Wired remote control | | | BRC1D52, BRC2C51, BRC3A61 | | | | | |
| Infrared remote control | Cooling only | | BRC4C64 | | | | | |
| | Heat pump | | BRC4C62 | | | | | |
| Replacement long life filter | | | KAFB361K28 | | KAFB361K45 | | KAFB361K71 | |

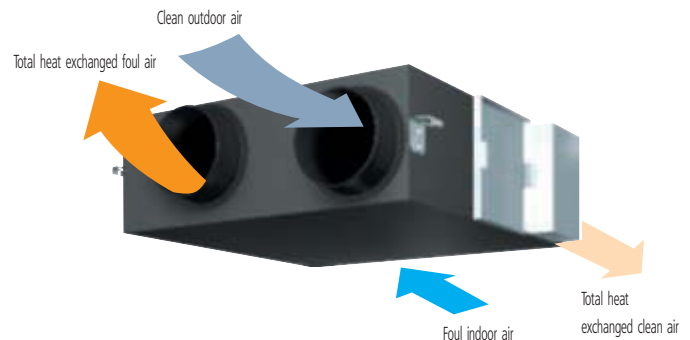


Heat Recovery Ventilation

1. VAM-FA7

The Daikin heat recovery 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 air conditioning system (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 :

DS-net

Intelligent Controller

Intelligent Manager

BACnet Gateway

DMS-IF

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 | 1,500 | 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 | 40/42.5 |
| External static pressure (max.) | | Pa | 69 | 64 | 98 | 98 | 93 | 137 | 157 | 137 | 137 |
| Temperature exchange efficiency | | % | 74 | 72 | 75 | 74 | 74 | 74 | 75 | 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 | H | mm | 269 | 269 | 285 | 285 | 348 | 348 | 348 | 710 | 710 |
| | W | mm | 760 | 760 | 812 | 812 | 988 | 988 | 988 | 1,498 | 1,498 |
| | D | mm | 509 | 509 | 800 | 800 | 852 | 852 | 1,140 | 852 | 1,140 |
| Weight | | kg | 24 | 24 | 33 | 33 | 48 | 48 | 61 | 132 | 158 |
| Duct diameter | | mm | Ø 100 | Ø 150 | Ø 150 | Ø 200 | Ø 200 | Ø 250 | Ø 250 | Ø 350 | Ø 350 |
| Power supply | | VE | 1 ~, 50Hz, 220-240V | | | | | | | | |

(1) Sound pressure level is measured in heat exchange mode.



2. VKM-G / VKM-GM

- 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:



DS-net

intelligent Controller

intelligent Manager

BACnet Gateway

DMS-IF

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 | m ³ /h | 500 - 500 - 440 | 750 - 750 - 640 | 950 - 950 - 820 |
| Sound pressure level - 220V | Ultra high - high - low | dBA | 37 - 35 - 32 | 38.5 - 36 - 33 | 39 - 37 - 34 |
| Sound pressure level - 240V | Ultra high - high - low | dBA | 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 |
| 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 | m ³ /h | 500 - 500 - 440 | 750 - 750 - 640 | 950 - 950 - 820 |
| Sound pressure level - 220V | Ultra high - high - low | dBA | 38 - 36 - 33.5 | 40 - 37.5 - 34.5 | 40 - 38 - 35 |
| Sound pressure level - 240V | Ultra high - high - low | dBA | 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 |
| Power supply | | V1 | 1~, 220-240V, 50Hz | | |

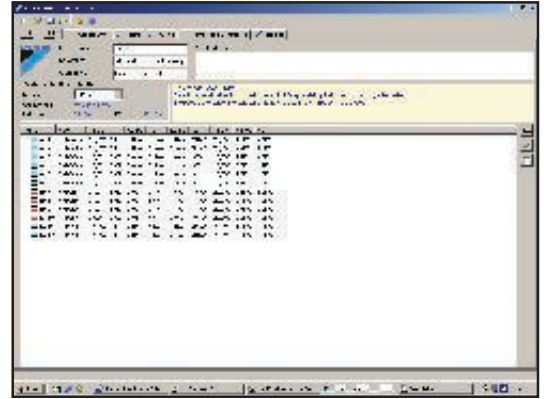
Powerful Selection Programmes

1. VRV XPRESS

Daikin has developed a new user friendly, software tool that allows rapid VRV selection and provides a professional result in the 7 following steps:

1. Select indoor units
2. Connect outdoor units to indoor units
3. Automatic receipt of piping diagram with joints
4. Automatic receipt of wiring diagram
5. Connect appropriate centralised control systems
6. Visualise result in Word or Excel format
7. Save project

Using VRV Xpress enables VRV selection to be achieved in a simple, complete and professional manner.



Windows95®, Windows98®, WindowsNT®, Windows2000® and WindowsXP® are registered trademarks of Microsoft corporation.





2. VRV PRO

A simple to use, Daikin computerised selection programme, designed for use with Windows 95®, Windows 98®, WindowsNT®, Windows 2000® and Windows XP® systems, enables consulting engineers, design and build contractors, property developers and architects etc. to plan a Daikin air conditioning project on a step by step basis, complete with detailed drawings, bills of quantities and costs.

The programme thus enables VRV air conditioning systems to be engineered precisely and economically (without over-sizing units), thereby ensuring optimum operating cycles and maximum energy efficiency.

FEATURES :

- the VRV Pro selection programme offers 3 separate modes to accommodate different design formats according to customer requirements. Multi languages are possible.

1. EXPERT MODE :

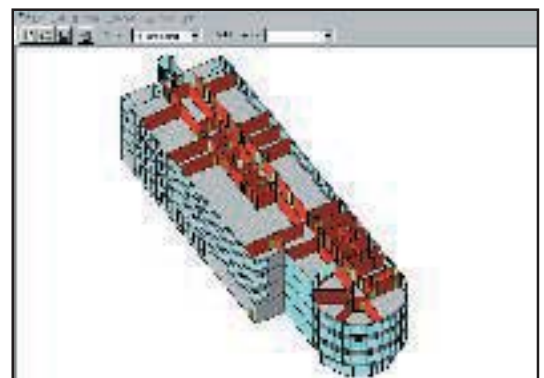
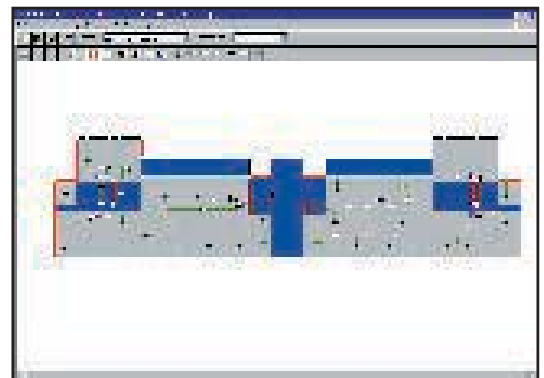
once the cooling and heating loads in the different rooms have been calculated, the software will select the most appropriate system plus an estimate of the power consumption.

2. QUICK MODE :

based on calculated system loads, the software will select the most appropriate system.

3. DRAWING MODE :

selecting the indoor and outdoor units from a list enables the user to design a system in no time at all.



User Friendly Control Systems

1. INDIVIDUAL CONTROL SYSTEMS

BRC4* BRC7*



Infrared remote control

Operation buttons: ON/OFF, timer mode start/stop, timer mode on/off, programme time, temperature setting, air flow direction (FXHQ, FXFQ, FXCQ and FXAQ models only), operating mode, fan speed control, filter sign reset, inspection / test indication

Display: Operating mode, battery change, set temperature, air flow direction (FXHQ, FXFQ, FXCQ and FXAQ models only), programmed time, inspection/test operation, fan speed

BRC2C51



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

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



2. 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



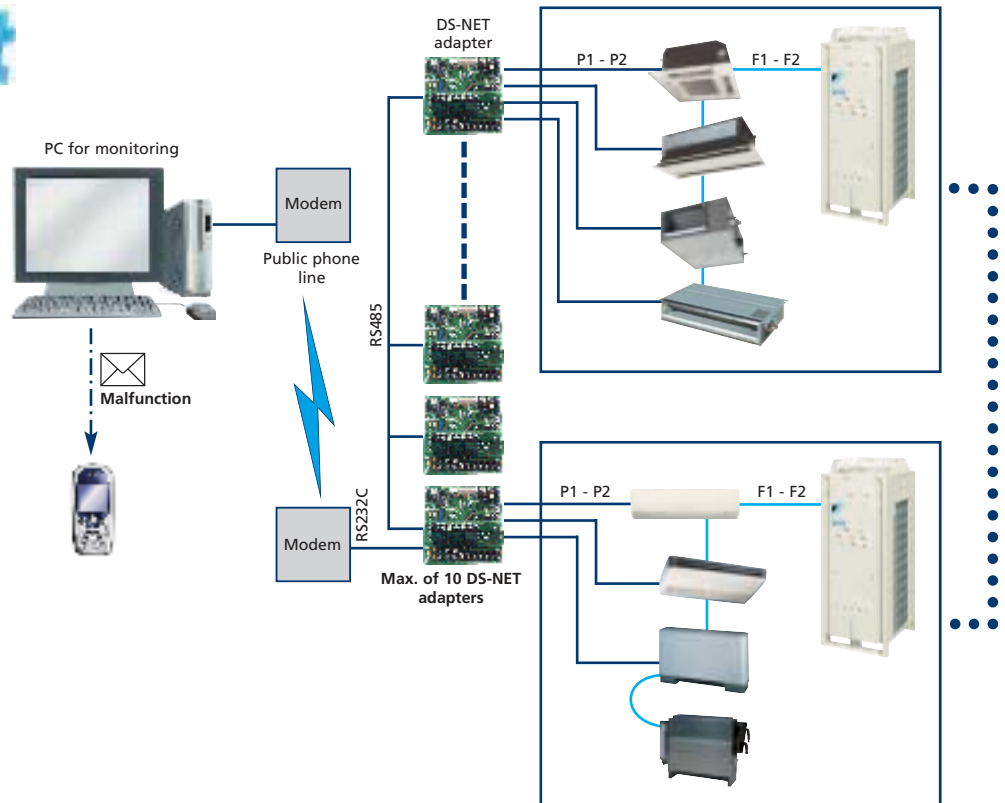
Schedule timer

- 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)

3. NETWORK SOLUTIONS



The ideal solution for control and management up to 2,000 indoor units



APPLICATION AREA

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

SYSTEM LAYOUT

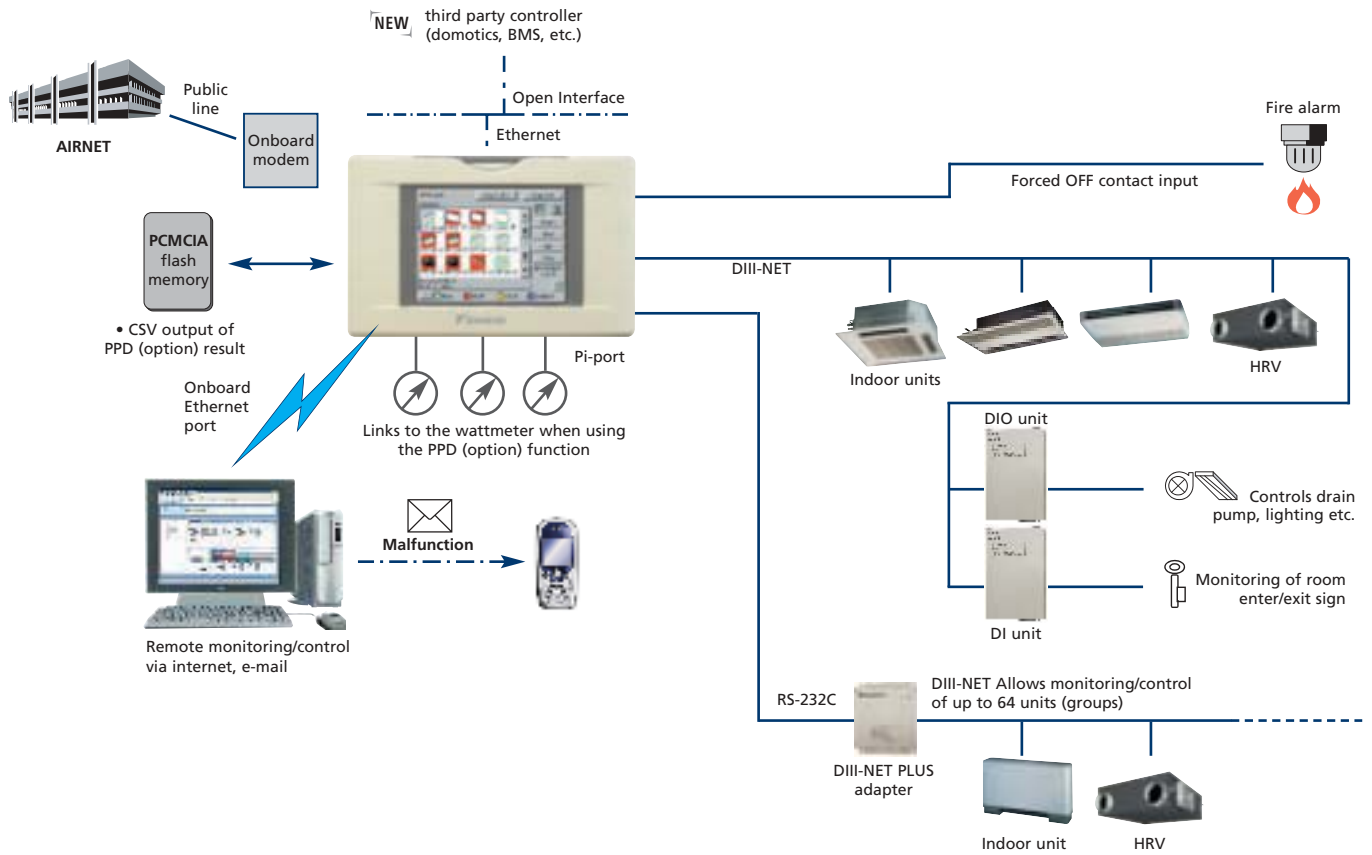
- Allows monitoring and control of up to up to 50 stores or sites and 2,000 indoor units with just one modem and phone line.
- Automates daily air conditioning operation in order to free users from the hassle of air conditioning operation/management.
- The daily schedule setting allows automatic operation 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

touch Intelligent Controller

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



LANGUAGES

English, French, German, Italian, Spanish

SYSTEM LAYOUT

- Up to 2 x 64 indoor units can be controlled
- Onboard Ethernet port (web browser & e-mail)
- Digital i/o contacts (option)
- 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)
- Easy management of electricity consumption
- Enhanced history function

CONTROL

- Individual control (set point, start / stop, fan speed) (max. 2 x 64 indoor units/groups)
- Schedule control (8 schedules, 17 patterns)
- Flexible grouping in zones
- Yearly schedule
- 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 (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 any third party controller (domotics, BMS, etc.) is possible via open interface.

CONNECTABLE TO

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

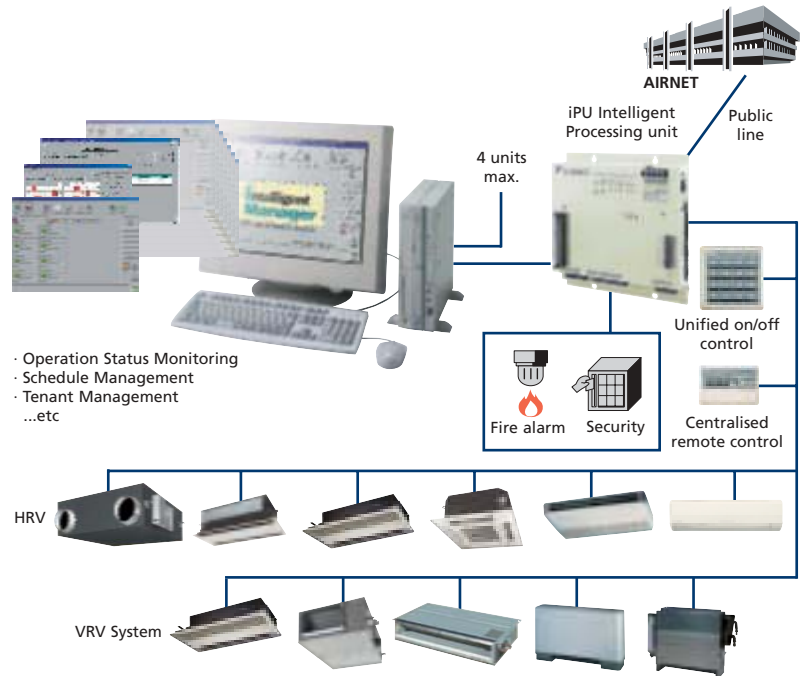


Intelligent Manager

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

SYSTEM LAYOUT

- Up to 1,024 indoor units can be controlled (by 4 iPUs)
- Ethernet TCP/IP / 10 base/T communication
- Integrated digital contacts on the Intelligent Processing Unit (iPU)
 - 19 general input ports
 - 2 digital outputs
- Stand alone operation of the iPU for minimum 48 hours
- Compatible with UPS shutdown software



MANAGEMENT

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

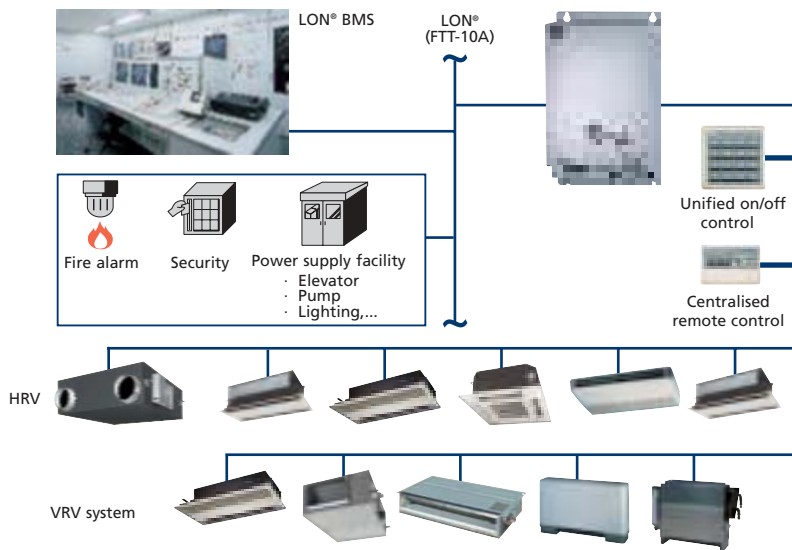
CONTROL

- Individual control (setpoint, start/stop, fan speed) (max. 1,024 indoor units)
- Group control (100 groups)
- Schedule control (128 programs)
- Fire emergency stop control (32 programs)
- Interlocking control
- Setpoint limitation
- Automatic cooling heating changeover
- Power failure/release control
- Temperature limit (automatic start)
- Timer extension

MONITORING

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





DMS-IF

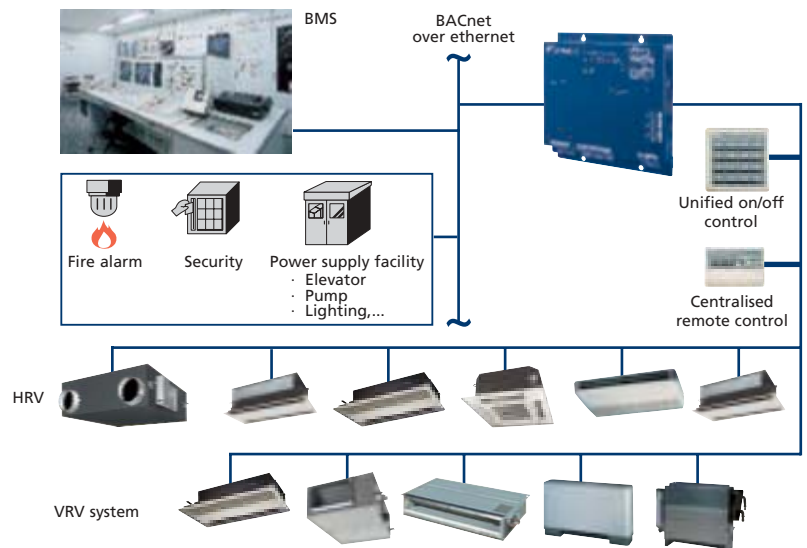
LonWORKS® Networks Compatible Gateway

- Interface for connection to LonWORKS® networks
- Communication via LON® protocol (twisted pair wire)
- 64 units connectable per DMS-IF
- Unlimited site size
- Quick and easy installation

BACnet Gateway

Integrated control system connecting VRV system with 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



4. ACCESSORIES

• INDIVIDUAL CONTROL SYSTEMS

| DESCRIPTION | FXZQ | FXFQ | FXCQ | FXKQ | FXDQ | FXDQ-N | FXSQ | FXMQ | FXUQ | FXHQ | FXAQ | FXLQ | FXNQ | |
|---|--------------|----------|----------|---------|---------|---------|---------|---------|---------|----------|---------|----------|---------|---------|
| Wired remote control | BRC1D52 | | | | | | | | | | | | | |
| Infrared remote control | cooling only | BRC7E531 | BRC7C513 | BRC7C67 | BRC4C63 | BRC4C64 | BRC4C64 | BRC4C64 | BRC4C64 | BRC7C529 | BRC7E66 | BRC7E619 | BRC4C64 | BRC4C64 |
| | heat pump | BRC7E530 | BRC7C512 | BRC7C62 | BRC4C61 | BRC4C62 | BRC4C62 | BRC4C62 | BRC4C62 | BRC7C528 | BRC7E63 | BRC7E618 | BRC4C62 | BRC4C62 |
| Simplified remote control | - | - | - | - | BRC2C51 | BRC2C51 | BRC2C51 | BRC2C51 | - | - | - | BRC2C51 | BRC2C51 | |
| Simplified remote control for hotel use | - | - | - | - | BRC3A61 | BRC3A61 | BRC3A61 | BRC3A61 | - | - | - | BRC3A61 | BRC3A61 | |

• CENTRALISED CONTROL SYSTEMS

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

• OTHERS

| DESCRIPTION | FXZQ | FXFQ | FXCQ | FXKQ | FXDQ | FXDQ-N | FXSQ | FXMQ | FXUQ | FXHQ | FXAQ | FXLQ | FXNQ |
|---|------------|-------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|-----------|
| Wiring adapter | KRP1B57*1 | - | - | KRP1B61 | KRP1B61 | KRP1B56 | - | KRP1B61 | KRP4A53 | KRP1B3 | - | KRP1B61 | KRP1B61 |
| Wiring adapter (hour meter) | - | EKRP1B2*1 | EKRP1B2 | - | EKRP1B2*2 | - | EKRP1B2 | - | - | - | - | - | - |
| Wiring adapter for electrical appendices (1) | KRP2A526*1 | KRP2A526*1 | KRP2A516*1 | KRP2A61 | KRP2A516 | KRP2A53 | KRP2A516 | KRP2A61 | - | KRP2A62* | KRP2A51 | KRP2A51 | KRP2A51 |
| Wiring adapter for electrical appendices (2) | KRP4A536*1 | KRP4A536*1 | KRP4A516*1 | KRP4A51 | KRP4A516 | KRP4A54 | KRP4A516 | KRP4A51 | - | KRP4A52* | KRP4A51 | KRP4A51 | KRP4A51 |
| Remote sensor | KRC501-1 | | | | | | | | | | | | |
| Installation box for adapter PCB | KRP1BA101 | KRP1C98 | KRP1B96*3/4 | - | - | KRP1BA101 | - | - | KRP1B97 | KRP1C93*3 | KRP4A93*3/4 | - | - |
| Electrical box with earth terminal (3 blocks) | KJB311A | | | | | | | | | | | | |
| Electrical box with earth terminal (2 blocks) | KJB212A | | | | | | | | | | | | |
| Noise filter (for electromagnetic interface only) | KEK26-1A | | | | | | | | | | | | |
| External control adapter | DTA104A52 | DTA104A52*1 | DTA104A51*1 | DTA104A61 | DTA104A51 | DTA104A53 | DTA104A51 | DTA104A61 | - | DTA104A62 | DTA104A51 | DTA104A61 | DTA104A61 |
| Interface adapter for Sky Air series | - | - | - | - | - | - | - | - | DTA102A52 | - | - | - | - |
| Connector for forced on/forced off | - | - | - | - | - | - | - | - | EKRORO | - | - | - | - |

Notes:

- *1: Installation box is required
- *2: Fixing box is KRP1A90
- *3: Up to 2 adapters can be fixed per installation box
- *4: Only 1 installation box can be installed per indoor unit



| 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 |
| 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: 16 points |
| Digital input/output | DEC102A51 | Input contacts: 8 points; output contacts: 4 points |

Intelligent Manager

| DESCRIPTION | REFERENCE | COMMENTS |
|-----------------------------|-----------|---|
| Intelligent Processing unit | DAM602A51 | 256 indoor units per IPU |
| | DAM602A52 | 128 indoor units per IPU |
| | DAM602A53 | 192 indoor units per IPU |
| Software | IM3.XX | Up to 1,024 indoor units |
| 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 |
| DIII Ai | DAM101A51 | Outdoor temperature sensor |
| Digital input | DEC101A51 | Input contacts: 16 points |
| Digital input/output | DEC102A51 | Input contacts: 8 points; output contacts: 4 points |

DMS-IF

| DESCRIPTION | REFERENCE | COMMENTS |
|---------------------------------------|-----------|---|
| LonWorks® networks compatible Gateway | DM5504B51 | Up to 64 units 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 | DM5502A51 | 64 units per Gateway |
| DIII board | DAM411A1 | Extension of 3 x DIII lines (3 x 64) indoor units |
| Digital input/output | DAM412A1 | 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 | Parallel interface - Basic unit enables ON/OFF command, operation and display of malfunction can be used in combination with up to 4 units. | |
| | DPF201A52 | Temperature measurement units enables temperature measurement output for 4 groups; 0 ~ 5VDC." | |
| | DPF201A53 | Temperature setting units enables temperature setting input for 16 groups; 0 ~ 5VDC." | |
| | DCS302A52 | Unification adapter for computerised control used for combining of air conditioning control computer and central remote controller (ON/OFF, display) | |
| | KRP2A51 | KRP2A51 | Wiring adapter for electrical appendices (1) simultaneously controls air conditioning control computer and up to 64 groups of indoor units. |
| | | KRP2A52 | |
| KRP4A51-53 | KRP4A51-53 | Wiring adapter for electrical appendices (2) to control the group of indoor units collectively, which are connected by the transmission wiring of remote controller. | |
| | | | |
| External control adapter for outdoor unit | DTA104A51 | cooling/heating mode change over, demand control and low noise control are available between the plural outdoor units. | |
| | 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 | |



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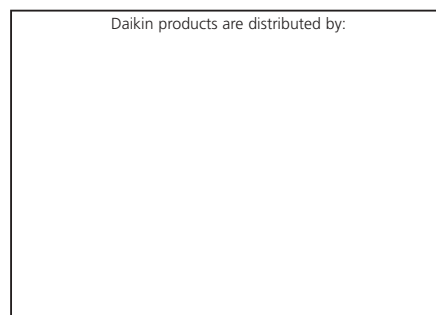
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